



End of Well Report

Kebo Oil & Gas Black Stone, Well No. 1 Brazoria County, Texas

Rig: Lauson Rig #2
Job No.: WT-20-058

Start Date: 07/29/2020

End Date: 09/02/2020

Directional Drillers:
Martin Alonzo, Omar Alaniz

Office Support:

Javier Alvarez

Directional Coordinator

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Well Planner

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Executive VP

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President

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Performance Overview

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)

BHA Performance

BHA 1

BHA #1

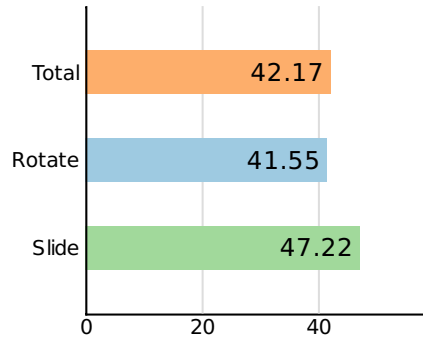
In: 08/05/2020

01:00

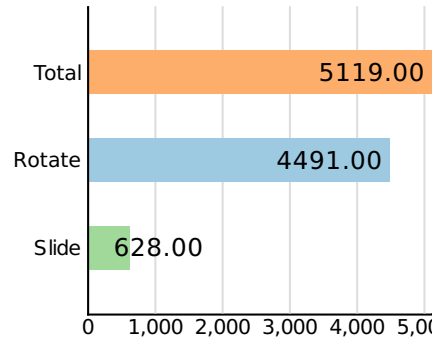
Out: 08/12/2020

01:30

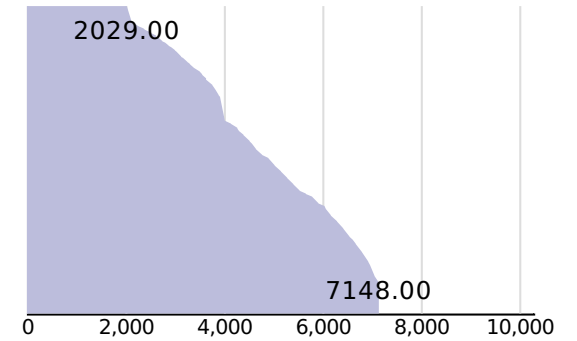
Rate of Penetration (ft/h)



Distance (ft)



Depth (ft)



BHA 2

BHA no. 2

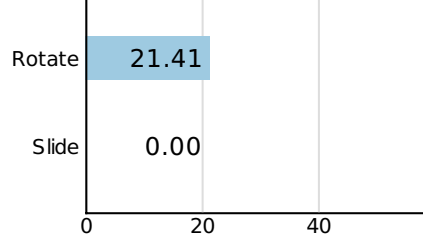
In: 08/12/2020

02:00

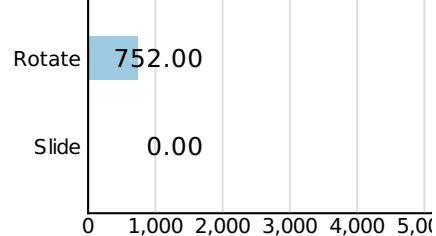
Out: 08/15/2020

23:00

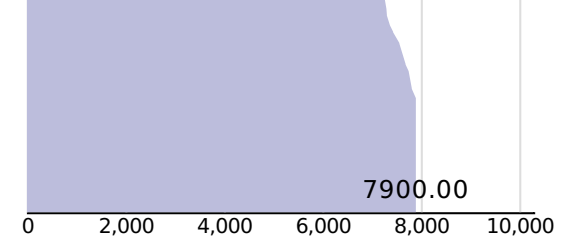
Rate of Penetration (ft/h)



Distance (ft)



Depth (ft)



BHA 3

BHA No. 3

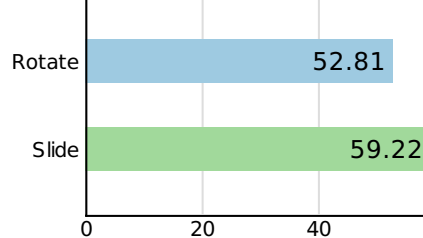
In: 08/29/2020

23:30

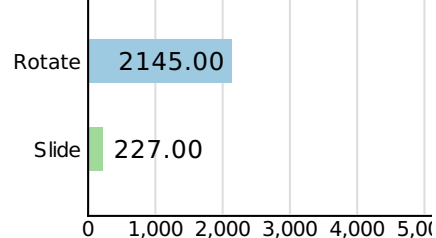
Out: 09/02/2020

00:45

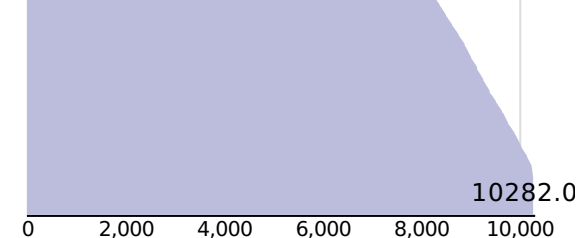
Rate of Penetration (ft/h)



Distance (ft)

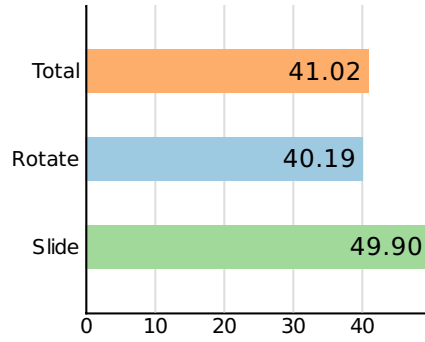


Depth (ft)

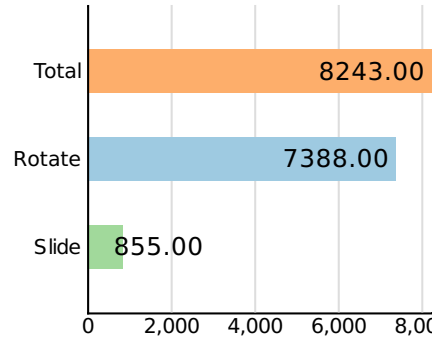


Total

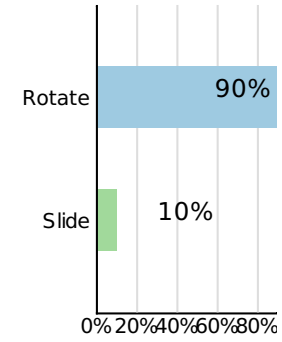
Rate of Penetration (ft/h)



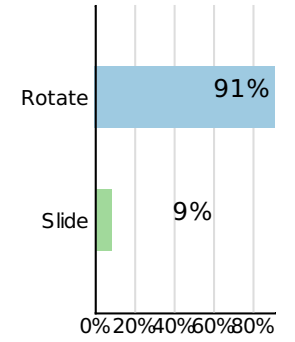
Distance (ft)



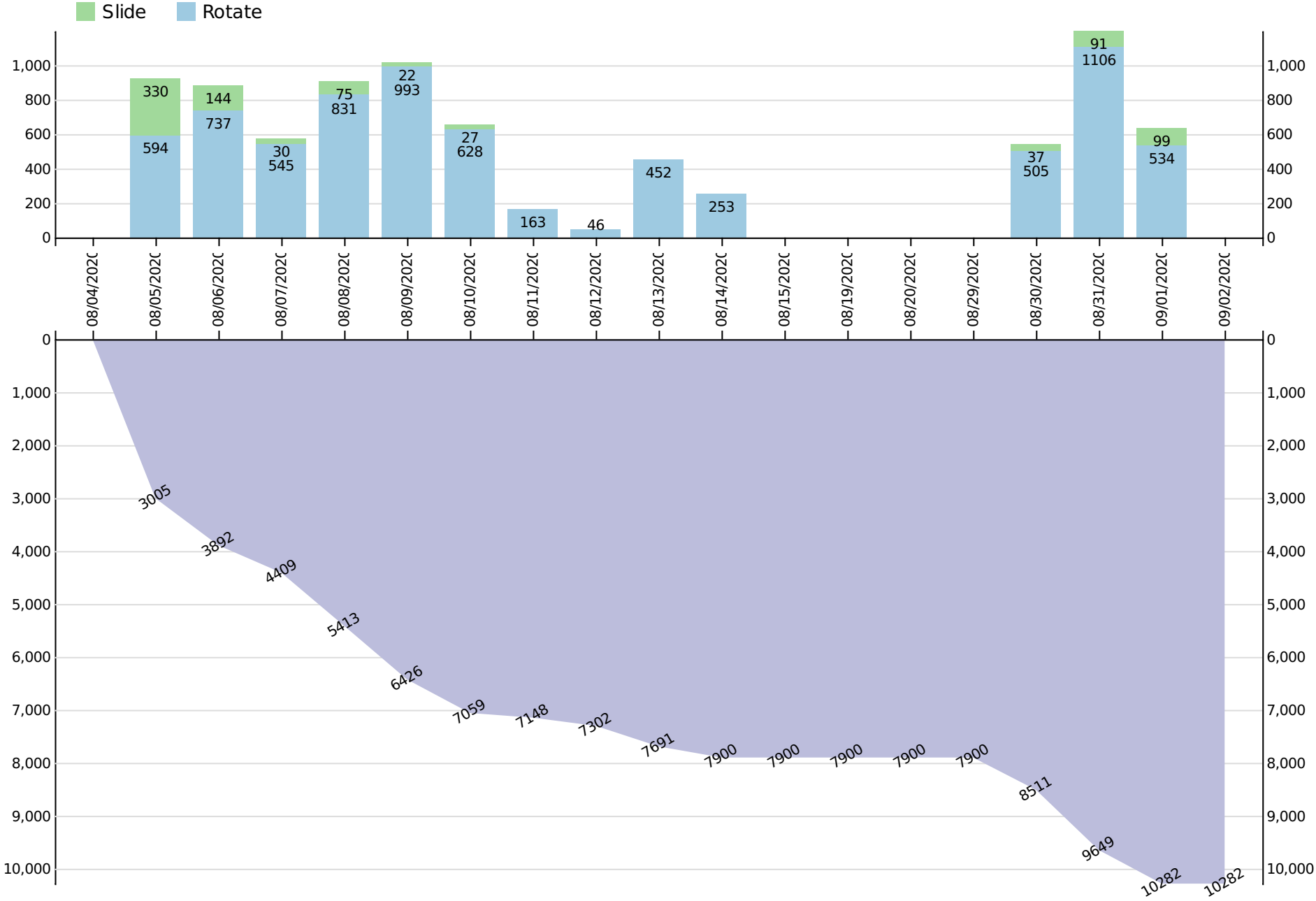
Distance Percentage



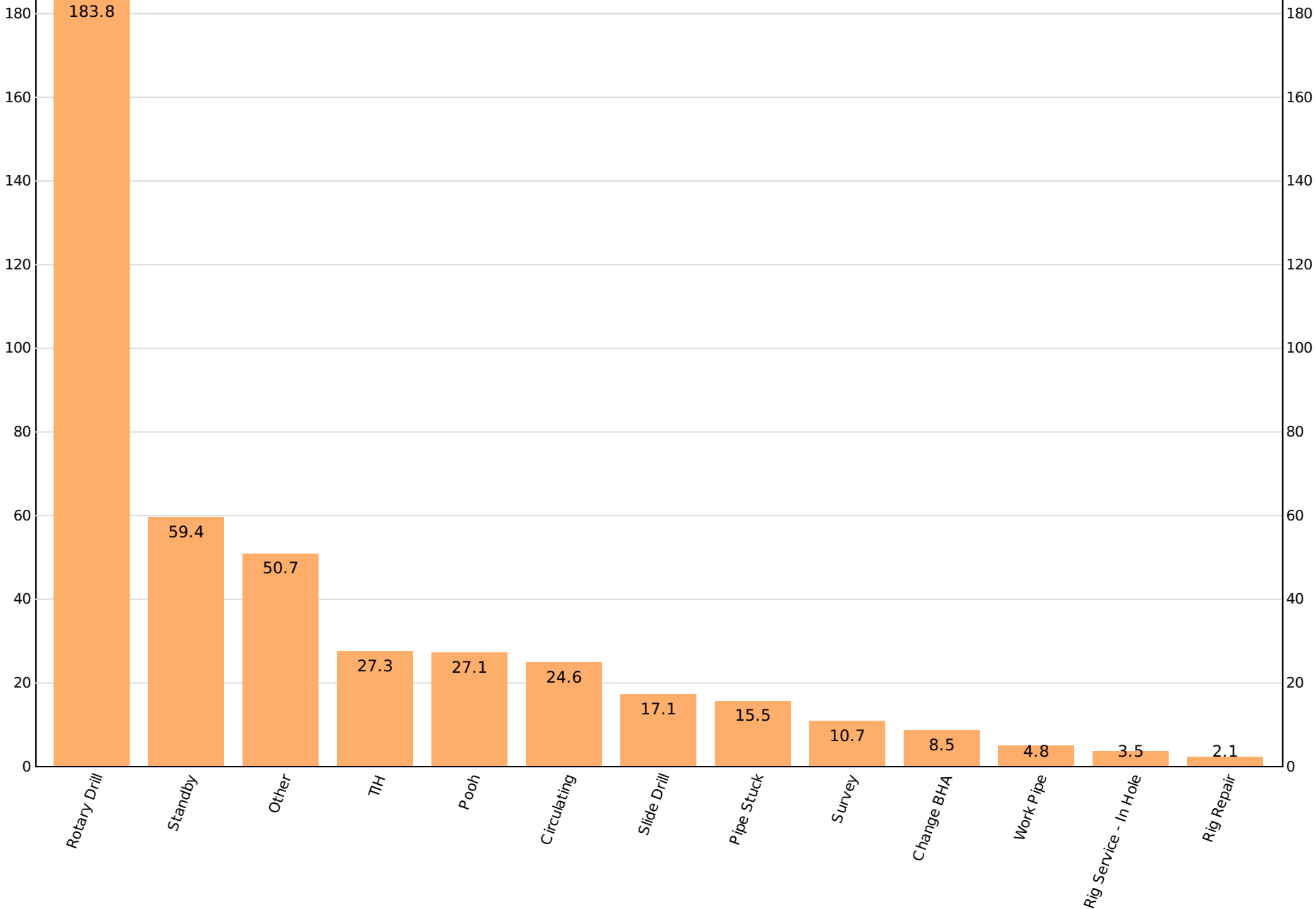
Time Percentage



Days vs. Depth



Directional Activity Hours





Proposed vs. As Drilled

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)

Kebo Oil & Gas, Inc.

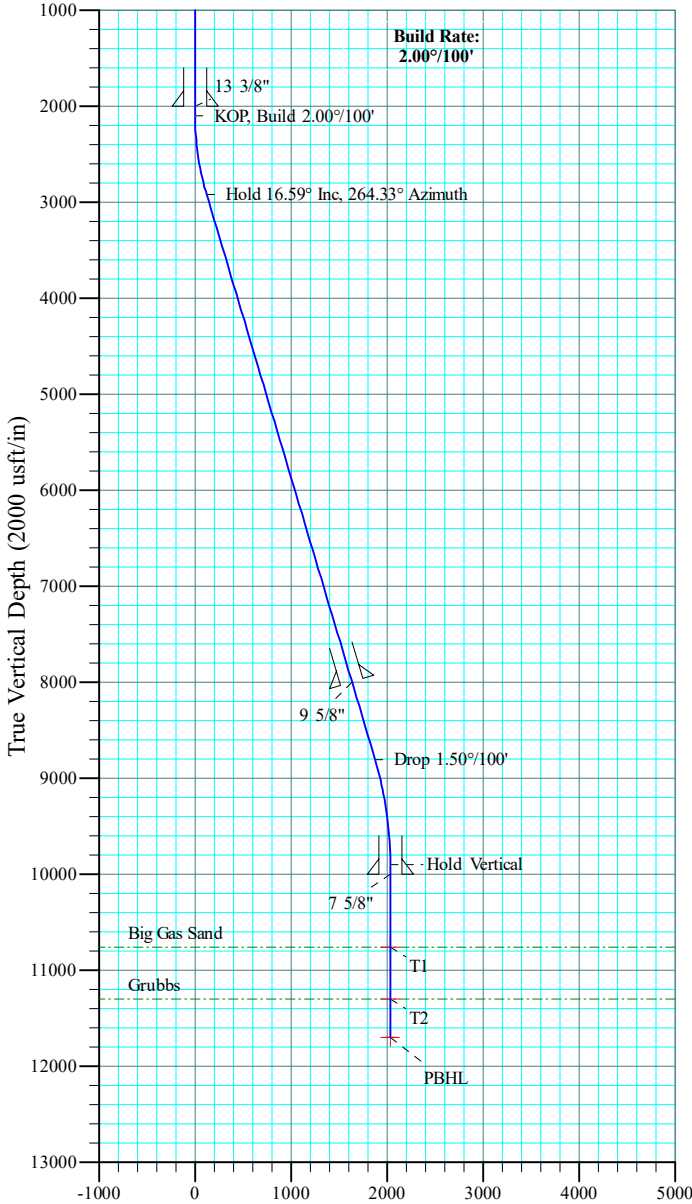
Black Stone #1
Brazoria County, Texas
Job No. ST-20-058
Lauson Rig #2
Proposal 1r5



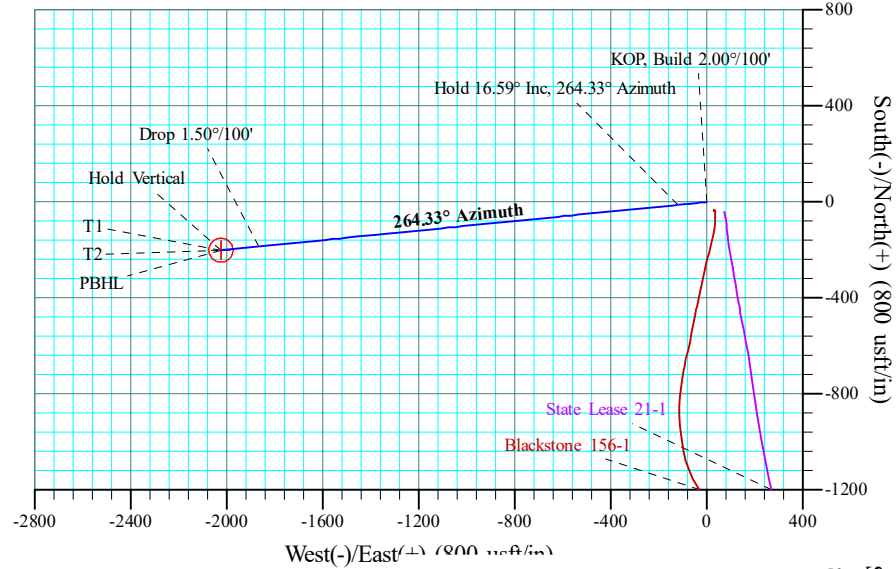
Azimuths to Grid North
 True North: -1.90°
 Magnetic North: 0.16°

Magnetic Field
 Strength: 46369.8nT
 Dip Angle: 58.04°
 Date: 8/1/2020
 Model: MVHD

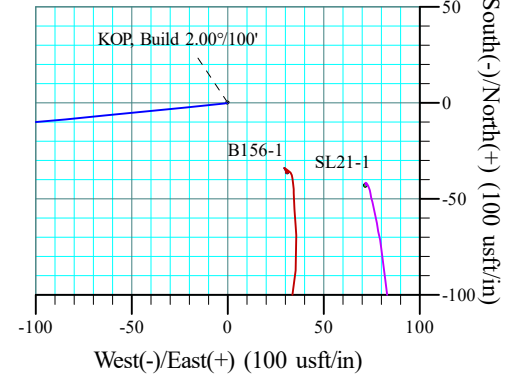
Magnetic North: 0.16° to Grid North



Vertical Section at 264.33° (2000 usft/in)



SLOTS		
Slot Name	+N/-S	+E/-W
B156-1	-36.20	31.17
BS1	0.00	0.00
SL21-1	-42.97	71.95



CASING DETAILS	
TVD	Name
2000.00	13 3/8"
8000.00	9 5/8"
10000.00	7 5/8"

SITE DETAILS: Black Stone #1	
Site Centre Northing:	521696.00
Easting:	3234548.00
Positional Uncertainty:	0.00
Convergence:	1.90
Local North:	Grid

PROJECT DETAILS: Brazoria County, Texas	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Texas South Central 4204
System Datum:	Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
T1 r5 (BlackStone1)	10760.00	-201.00	-2024.00	521495.00	3232524.00	$29^\circ 12' 41.824\text{ N}$	$95^\circ 8' 7.711\text{ W}$	Point
T2 r5 (BlackStone1)	11300.00	-201.00	-2024.00	521495.00	3232524.00	$29^\circ 12' 41.824\text{ N}$	$95^\circ 8' 7.711\text{ W}$	Point
PBHL r5 (BlackStone1)	11700.00	-201.00	-2024.00	521495.00	3232524.00	$29^\circ 12' 41.824\text{ N}$	$95^\circ 8' 7.711\text{ W}$	Circle (Radius: 50.00)

Drawn By: IG
 Date Created: 8/6/2018
 Date Revised: 7/31/2020
 File: Kebo - Black Stone #1 Proposal 1r5.wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	KOP, Build 2.00°/100'
3	2929.72	16.59	264.33	2918.17	-11.79	-118.73	2.00	264.33	119.32	Hold 16.59° Inc, 264.33° Azimuth
4	9076.67	16.59	264.33	8809.10	-185.28	-1865.69	0.00	0.00	1874.86	Drop 1.50°/100'
5	10182.97	0.00	0.00	9900.00	-201.00	-2024.00	1.50	180.00	2033.96	Hold Vertical
6	11982.97	0.00	0.00	11700.00	-201.00	-2024.00	0.00	0.00	2033.96	PBHL

Aim Directional Services, LLC

Survey Report

Company: Kebo Oil & Gas, Inc.	Local Co-ordinate Reference: Site Black Stone #1
Project: Brazoria County, Texas	TVD Reference: 3'GL @ 3.00usft
Site: Black Stone #1	MD Reference: 3'GL @ 3.00usft
Well: #1	North Reference: Grid
Wellbore: Proposal 1r5	Survey Calculation Method: Minimum Curvature
Design: Proposal 1r5	Database: EDM 5000.1 Aim Database

Project Brazoria County, Texas		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Texas South Central 4204		

Site Black Stone #1			
Site Position:	Northing: 521,696.00 usft	Latitude:	29° 12' 43.150 N
From: Map	Easting: 3,234,548.00 usft	Longitude:	95° 7' 44.806 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence:	1.90 °

Well #1 - Slot BS1			
Well Position	+N/-S 0.00 usft	Northing: 521,696.00 usft	Latitude: 29° 12' 43.150 N
	+E/-W 0.00 usft	Easting: 3,234,548.00 usft	Longitude: 95° 7' 44.806 W
Position Uncertainty	0.00 usft	Wellhead Elevation: usft	Ground Level: 3.00 usft

Wellbore Proposal 1r5					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	7/27/2020	2.05	58.04	46,371.32900632

Design Proposal 1r5				
Audit Notes:				
Version:	Phase: PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	264.33

Survey Tool Program		Date 7/16/2020
From (usft)	To (usft)	Survey (Wellbore)
0.00	11,982.97	Proposal 1r5 (Proposal 1r5)
Tool Name	Description	
B001Mb_MWD+HRGM	OWSG MWD + HRGM	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Aim Directional Services, LLC

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Site:	Black Stone #1	MD Reference:	3'GL @ 3.00usft
Well:	#1	North Reference:	Grid
Wellbore:	Proposal 1r5	Survey Calculation Method:	Minimum Curvature
Design:	Proposal 1r5	Database:	EDM 5000.1 Aim Database

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Build 2.00°/100'									
2,200.00	2.00	264.33	2,199.98	-0.17	-1.74	1.75	2.00	2.00	0.00
2,300.00	4.00	264.33	2,299.84	-0.69	-6.94	6.98	2.00	2.00	0.00
2,400.00	6.00	264.33	2,399.45	-1.55	-15.62	15.69	2.00	2.00	0.00
2,500.00	8.00	264.33	2,498.70	-2.76	-27.74	27.88	2.00	2.00	0.00
2,600.00	10.00	264.33	2,597.47	-4.30	-43.31	43.52	2.00	2.00	0.00
2,700.00	12.00	264.33	2,695.62	-6.19	-62.30	62.60	2.00	2.00	0.00
2,800.00	14.00	264.33	2,793.06	-8.41	-84.68	85.10	2.00	2.00	0.00
2,900.00	16.00	264.33	2,889.64	-10.97	-110.43	110.98	2.00	2.00	0.00
2,929.72	16.59	264.33	2,918.17	-11.79	-118.73	119.32	2.00	2.00	0.00
Hold 16.59° Inc, 264.33° Azimuth									
3,000.00	16.59	264.33	2,985.52	-13.77	-138.71	139.39	0.00	0.00	0.00
3,100.00	16.59	264.33	3,081.36	-16.60	-167.13	167.95	0.00	0.00	0.00
3,200.00	16.59	264.33	3,177.19	-19.42	-195.55	196.51	0.00	0.00	0.00
3,300.00	16.59	264.33	3,273.03	-22.24	-223.97	225.07	0.00	0.00	0.00
3,400.00	16.59	264.33	3,368.86	-25.06	-252.39	253.63	0.00	0.00	0.00
3,500.00	16.59	264.33	3,464.70	-27.89	-280.81	282.19	0.00	0.00	0.00
3,600.00	16.59	264.33	3,560.53	-30.71	-309.23	310.75	0.00	0.00	0.00
3,700.00	16.59	264.33	3,656.37	-33.53	-337.65	339.31	0.00	0.00	0.00
3,800.00	16.59	264.33	3,752.20	-36.35	-366.07	367.87	0.00	0.00	0.00
3,900.00	16.59	264.33	3,848.04	-39.18	-394.49	396.43	0.00	0.00	0.00
4,000.00	16.59	264.33	3,943.87	-42.00	-422.90	424.99	0.00	0.00	0.00
4,100.00	16.59	264.33	4,039.71	-44.82	-451.32	453.54	0.00	0.00	0.00
4,200.00	16.59	264.33	4,135.54	-47.64	-479.74	482.10	0.00	0.00	0.00
4,300.00	16.59	264.33	4,231.38	-50.46	-508.16	510.66	0.00	0.00	0.00
4,400.00	16.59	264.33	4,327.21	-53.29	-536.58	539.22	0.00	0.00	0.00
4,500.00	16.59	264.33	4,423.05	-56.11	-565.00	567.78	0.00	0.00	0.00
4,600.00	16.59	264.33	4,518.88	-58.93	-593.42	596.34	0.00	0.00	0.00
4,700.00	16.59	264.33	4,614.72	-61.75	-621.84	624.90	0.00	0.00	0.00
4,800.00	16.59	264.33	4,710.55	-64.58	-650.26	653.46	0.00	0.00	0.00
4,900.00	16.59	264.33	4,806.39	-67.40	-678.68	682.02	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

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Project:	Brazoria County, Texas	TVD Reference:	3'GL @ 3.00usft
Site:	Black Stone #1	MD Reference:	3'GL @ 3.00usft
Well:	#1	North Reference:	Grid
Wellbore:	Proposal 1r5	Survey Calculation Method:	Minimum Curvature
Design:	Proposal 1r5	Database:	EDM 5000.1 Aim Database

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	16.59	264.33	4,902.22	-70.22	-707.10	710.58	0.00	0.00	0.00
5,100.00	16.59	264.33	4,998.06	-73.04	-735.52	739.14	0.00	0.00	0.00
5,200.00	16.59	264.33	5,093.89	-75.87	-763.94	767.70	0.00	0.00	0.00
5,300.00	16.59	264.33	5,189.73	-78.69	-792.36	796.26	0.00	0.00	0.00
5,400.00	16.59	264.33	5,285.56	-81.51	-820.78	824.82	0.00	0.00	0.00
5,500.00	16.59	264.33	5,381.40	-84.33	-849.20	853.38	0.00	0.00	0.00
5,600.00	16.59	264.33	5,477.23	-87.16	-877.62	881.94	0.00	0.00	0.00
5,700.00	16.59	264.33	5,573.07	-89.98	-906.04	910.50	0.00	0.00	0.00
5,800.00	16.59	264.33	5,668.90	-92.80	-934.46	939.06	0.00	0.00	0.00
5,900.00	16.59	264.33	5,764.74	-95.62	-962.88	967.62	0.00	0.00	0.00
6,000.00	16.59	264.33	5,860.57	-98.44	-991.30	996.18	0.00	0.00	0.00
6,100.00	16.59	264.33	5,956.41	-101.27	-1,019.72	1,024.74	0.00	0.00	0.00
6,200.00	16.59	264.33	6,052.24	-104.09	-1,048.14	1,053.30	0.00	0.00	0.00
6,300.00	16.59	264.33	6,148.08	-106.91	-1,076.56	1,081.86	0.00	0.00	0.00
6,400.00	16.59	264.33	6,243.91	-109.73	-1,104.98	1,110.42	0.00	0.00	0.00
6,500.00	16.59	264.33	6,339.75	-112.56	-1,133.40	1,138.98	0.00	0.00	0.00
6,600.00	16.59	264.33	6,435.58	-115.38	-1,161.82	1,167.54	0.00	0.00	0.00
6,700.00	16.59	264.33	6,531.42	-118.20	-1,190.24	1,196.10	0.00	0.00	0.00
6,800.00	16.59	264.33	6,627.25	-121.02	-1,218.66	1,224.65	0.00	0.00	0.00
6,900.00	16.59	264.33	6,723.09	-123.85	-1,247.08	1,253.21	0.00	0.00	0.00
7,000.00	16.59	264.33	6,818.92	-126.67	-1,275.50	1,281.77	0.00	0.00	0.00
7,100.00	16.59	264.33	6,914.76	-129.49	-1,303.92	1,310.33	0.00	0.00	0.00
7,200.00	16.59	264.33	7,010.59	-132.31	-1,332.34	1,338.89	0.00	0.00	0.00
7,300.00	16.59	264.33	7,106.43	-135.13	-1,360.76	1,367.45	0.00	0.00	0.00
7,400.00	16.59	264.33	7,202.26	-137.96	-1,389.18	1,396.01	0.00	0.00	0.00
7,500.00	16.59	264.33	7,298.10	-140.78	-1,417.60	1,424.57	0.00	0.00	0.00
7,600.00	16.59	264.33	7,393.93	-143.60	-1,446.02	1,453.13	0.00	0.00	0.00
7,700.00	16.59	264.33	7,489.77	-146.42	-1,474.44	1,481.69	0.00	0.00	0.00
7,800.00	16.59	264.33	7,585.60	-149.25	-1,502.86	1,510.25	0.00	0.00	0.00
7,900.00	16.59	264.33	7,681.44	-152.07	-1,531.28	1,538.81	0.00	0.00	0.00
8,000.00	16.59	264.33	7,777.27	-154.89	-1,559.70	1,567.37	0.00	0.00	0.00
8,100.00	16.59	264.33	7,873.11	-157.71	-1,588.12	1,595.93	0.00	0.00	0.00
8,200.00	16.59	264.33	7,968.94	-160.54	-1,616.54	1,624.49	0.00	0.00	0.00
8,232.41	16.59	264.33	8,000.00	-161.45	-1,625.75	1,633.75	0.00	0.00	0.00
9 5/8"									
8,300.00	16.59	264.33	8,064.78	-163.36	-1,644.96	1,653.05	0.00	0.00	0.00
8,400.00	16.59	264.33	8,160.61	-166.18	-1,673.38	1,681.61	0.00	0.00	0.00
8,500.00	16.59	264.33	8,256.45	-169.00	-1,701.80	1,710.17	0.00	0.00	0.00
8,600.00	16.59	264.33	8,352.28	-171.82	-1,730.22	1,738.73	0.00	0.00	0.00
8,700.00	16.59	264.33	8,448.12	-174.65	-1,758.64	1,767.29	0.00	0.00	0.00
8,800.00	16.59	264.33	8,543.95	-177.47	-1,787.06	1,795.85	0.00	0.00	0.00
8,900.00	16.59	264.33	8,639.79	-180.29	-1,815.48	1,824.41	0.00	0.00	0.00
9,000.00	16.59	264.33	8,735.62	-183.11	-1,843.90	1,852.97	0.00	0.00	0.00
9,076.67	16.59	264.33	8,809.10	-185.28	-1,865.69	1,874.86	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Kebo Oil & Gas, Inc.	Local Co-ordinate Reference:	Site Black Stone #1
Project:	Brazoria County, Texas	TVD Reference:	3'GL @ 3.00usft
Site:	Black Stone #1	MD Reference:	3'GL @ 3.00usft
Well:	#1	North Reference:	Grid
Wellbore:	Proposal 1r5	Survey Calculation Method:	Minimum Curvature
Design:	Proposal 1r5	Database:	EDM 5000.1 Aim Database

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
Drop 1.50°/100'										
9,100.00	16.24	264.33	8,831.48	-185.93	-1,872.25	1,881.46	1.50	-1.50	0.00	
9,200.00	14.74	264.33	8,927.84	-188.57	-1,898.83	1,908.17	1.50	-1.50	0.00	
9,300.00	13.24	264.33	9,024.87	-190.96	-1,922.90	1,932.35	1.50	-1.50	0.00	
9,400.00	11.74	264.33	9,122.50	-193.10	-1,944.42	1,953.99	1.50	-1.50	0.00	
9,500.00	10.24	264.33	9,220.66	-194.98	-1,963.40	1,973.06	1.50	-1.50	0.00	
9,600.00	8.74	264.33	9,319.29	-196.61	-1,979.82	1,989.55	1.50	-1.50	0.00	
9,700.00	7.24	264.33	9,418.31	-197.99	-1,993.66	2,003.46	1.50	-1.50	0.00	
9,800.00	5.74	264.33	9,517.67	-199.10	-2,004.91	2,014.77	1.50	-1.50	0.00	
9,900.00	4.24	264.33	9,617.28	-199.96	-2,013.57	2,023.48	1.50	-1.50	0.00	
10,000.00	2.74	264.33	9,717.10	-200.57	-2,019.64	2,029.57	1.50	-1.50	0.00	
10,100.00	1.24	264.33	9,817.03	-200.91	-2,023.10	2,033.05	1.50	-1.50	0.00	
10,182.97	0.00	0.00	9,900.00	-201.00	-2,024.00	2,033.96	1.50	-1.50	0.00	
Hold Vertical										
10,200.00	0.00	0.00	9,917.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,282.97	0.00	0.00	10,000.00	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
7 5/8"										
10,300.00	0.00	0.00	10,017.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,117.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,217.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,317.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,417.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,517.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,617.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,717.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,042.97	0.00	0.00	10,760.00	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
Big Gas Sand										
11,100.00	0.00	0.00	10,817.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,200.00	0.00	0.00	10,917.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,017.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,117.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,217.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,582.97	0.00	0.00	11,300.00	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
Grubbs										
11,600.00	0.00	0.00	11,317.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,417.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,517.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,617.03	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
11,982.97	0.00	0.00	11,700.00	-201.00	-2,024.00	2,033.96	0.00	0.00	0.00	
PBHL										

Aim Directional Services, LLC

Survey Report

Company: Kebo Oil & Gas, Inc.	Local Co-ordinate Reference: Site Black Stone #1
Project: Brazoria County, Texas	TVD Reference: 3'GL @ 3.00usft
Site: Black Stone #1	MD Reference: 3'GL @ 3.00usft
Well: #1	North Reference: Grid
Wellbore: Proposal 1r5	Survey Calculation Method: Minimum Curvature
Design: Proposal 1r5	Database: EDM 5000.1 Aim Database

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
T1 r5 (BlackStone1) - plan hits target center - Point	0.00	0.00	10,760.00	-201.00	-2,024.00	521,495.00	3,232,524.00	29° 12' 41.824 N	95° 8' 7.711 W
T2 r5 (BlackStone1) - plan hits target center - Point	0.00	0.00	11,300.00	-201.00	-2,024.00	521,495.00	3,232,524.00	29° 12' 41.824 N	95° 8' 7.711 W
PBHL r5 (BlackStone1) - plan hits target center - Circle (radius 50.00)	0.00	0.00	11,700.00	-201.00	-2,024.00	521,495.00	3,232,524.00	29° 12' 41.824 N	95° 8' 7.711 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,000.00	2,000.00	13 3/8"	13-3/8	17-1/2	
8,232.41	8,000.00	9 5/8"	9-5/8	12-1/4	
10,282.97	10,000.00	7 5/8"	7-5/8	7-5/8	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
11,042.97	10,760.00	Big Gas Sand		0.00	
11,582.97	11,300.00	Grubbs		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2100	2100	0	0	KOP, Build 2.00°/100'	
2930	2918	-12	-119	Hold 16.59° Inc, 264.33° Azimuth	
9077	8809	-185	-1866	Drop 1.50°/100'	
10,183	9900	-201	-2024	Hold Vertical	
11,983	11,700	-201	-2024	PBHL	

Kebo Oil & Gas

Black Stone #1

Brazoria County, Texas

Job No. ST-20-058

Lauson Rig #2

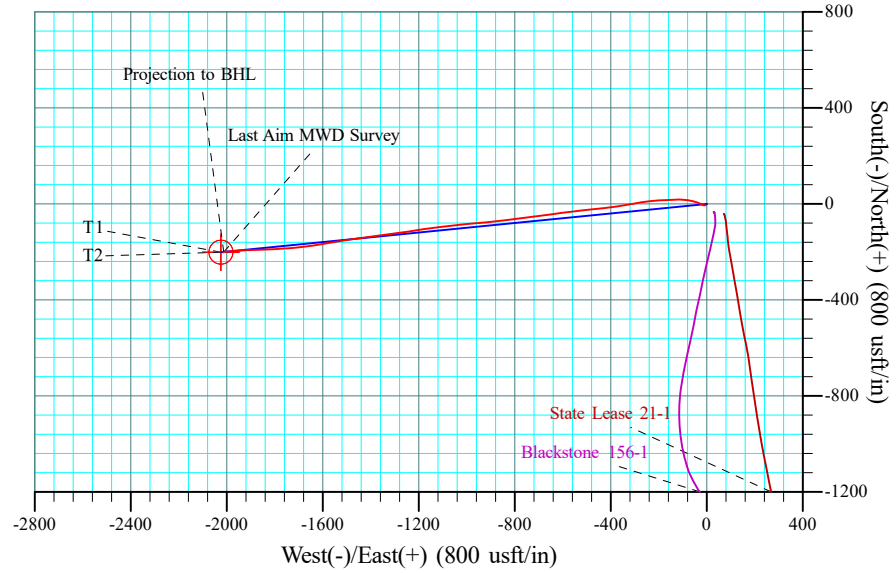
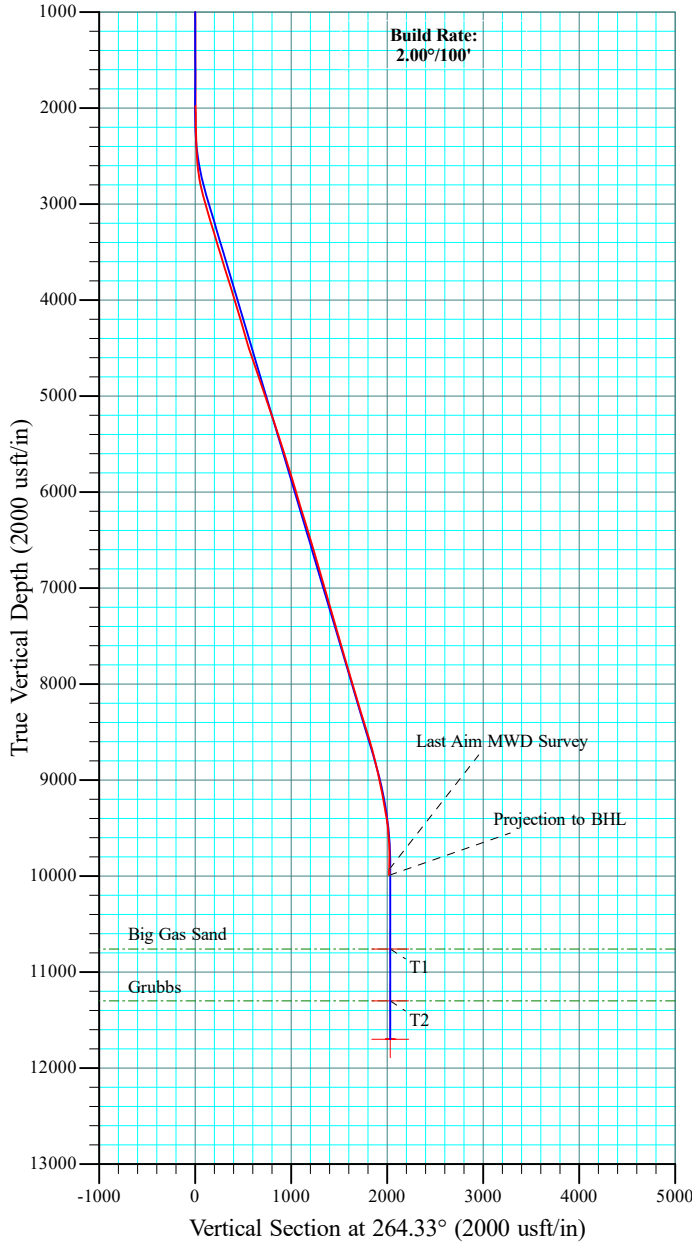
Proposal 1r5 PVA



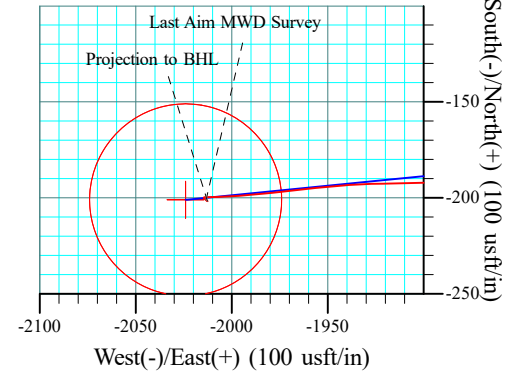
Azimuths to Grid North
 True North: -1.90°
 Magnetic North: 0.16°

Magnetic Field
 Strength: 46369.8nT
 Dip Angle: 58.04°
 Date: 8/1/2020
 Model: MVHD

Magnetic North: 0.16° to Grid North



SLOTS		
Slot Name	+N/-S	+E/-W
B156-1	-36.20	31.17
BS1	0.00	0.00
SL21-1	-42.97	71.95



CASING DETAILS	
TVD	Name

SITE DETAILS: Black Stone #1	
Site Centre Northing:	521696.00
Easting:	3234548.00
Positional Uncertainty:	0.00
Convergence:	1.90
Local North:	Grid

PROJECT DETAILS: Brazoria County, Texas	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Texas South Central 4204
System Datum:	Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
T1 r5 (BlackStone1)	10760.00	-201.00	-2024.00	521495.00	3232524.00 29° 12' 41.824 N	95° 8' 7.711 W	Point	
T2 r5 (BlackStone1)	11300.00	-201.00	-2024.00	521495.00	3232524.00 29° 12' 41.824 N	95° 8' 7.711 W	Point	
PBHL r5 (BlackStone1)	11700.00	-201.00	-2024.00	521495.00	3232524.00 29° 12' 41.824 N	95° 8' 7.711 W	Circle (Radius: 50.00)	

Drawn By: PBR
 Date Created: 8/6/2018
 Date Revised: 9/2/2020
 File: Kebo - Black Stone #1 Proposal 1r5 PVA.wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	10219.00	0.84	131.12	9930.39	-201.03	-2013.38	0.000	0.00	2023.39	Last Aim MWD Survey
2	10282.00	0.84	131.12	9993.39	-201.64	-2012.68	0.000	0.00	2022.76	Projection to BHL



Survey Reports

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)

Accurate Directional Survey

Accurate Directional Survey, LLC

P. O. Box 11364
Spring, Tx. 77391-1364

Job Number: 2957-FG
Company: KEBO OIL & GAS, INC.
Lease/Well: BLACK STONE #1
Location: BRAZORIA COUNTY
Rig Name: LAUSON DRILLING #2
RKB: 17.00'
G.L. or M.S.L.: 3.00'

State/Country: TEXAS / USA
Declination:
Grid: 0.16°
File name: C:\WINSERVE\2957FG.SVY
Date/Time: 04-Aug-20 / 21:18
Curve Name: BLACK STONE

**ACCURATE DIRECTIONAL SURVEY, LLC
SURVEYED BY ANDRAE NELSON
AUGUST 04, 2020**

WINSERVE SURVEY CALCULATIONS
*Minimum Curvature Method
Vertical Section Plane 264.33
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead*

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.75	33.73	100.00	-.42	.54	.36	.65	33.73	.75
200.00	.50	238.68	199.99	-.44	.86	.35	.93	22.34	1.22
300.00	.50	226.64	299.99	.30	.34	-.34	.47	314.96	.10
400.00	.25	215.59	399.99	.79	-.14	-.78	.79	259.72	.26
500.00	.25	157.54	499.99	.87	-.52	-.82	.97	237.71	.24
600.00	.25	234.49	599.99	1.00	-.85	-.92	1.25	227.24	.31
700.00	.25	220.45	699.99	1.34	-1.14	-1.24	1.68	227.30	.06
800.00	.25	185.40	799.99	1.54	-1.52	-1.40	2.07	222.54	.15
900.00	.25	224.35	899.98	1.75	-1.90	-1.57	2.46	219.64	.17
1000.00	.50	355.30	999.98	1.91	-1.62	-1.76	2.39	227.39	.69
1100.00	.50	238.11	1099.98	2.30	-1.41	-2.17	2.59	236.86	.85
1200.00	.25	234.06	1199.98	2.88	-1.77	-2.71	3.24	236.84	.25
1300.00	.25	201.02	1299.98	3.16	-2.11	-2.97	3.64	234.66	.14
1400.00	.50	195.97	1399.98	3.42	-2.73	-3.17	4.18	229.26	.25
1500.00	.25	14.92	1499.98	3.51	-2.94	-3.23	4.37	227.73	.75
1600.00	.25	227.87	1599.97	3.60	-2.87	-3.34	4.40	229.27	.48
1700.00	.50	245.83	1699.97	4.19	-3.20	-3.90	5.04	230.63	.27
1800.00	.50	212.78	1799.97	4.88	-3.74	-4.53	5.88	230.44	.28
1900.00	.50	202.73	1899.97	5.36	-4.51	-4.94	6.69	227.57	.09
1980.00	.50	252.68	1979.96	5.87	-4.94	-5.40	7.32	227.58	.53

Survey Report

Company: Kebo Oil & Gas	Local Co-ordinate Reference: Site Black Stone #1
Project: Brazoria County, Texas	TVD Reference: 3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Site: Black Stone #1	MD Reference: 3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Well: #1	North Reference: Grid
Wellbore: Aim MWD Surveys	Survey Calculation Method: Minimum Curvature
Design: Aim MWD Surveys	Database: EDMRESTORED

Project Brazoria County, Texas	
Map System: US State Plane 1927 (Exact solution)	System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: Texas South Central 4204	

Site Black Stone #1		
Site Position:	Northing: 521,696.00 usft	Latitude: 29° 12' 43.150 N
From: Map	Easting: 3,234,548.00 usft	Longitude: 95° 7' 44.806 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 1.90 °

Well #1 - Slot BS1		
Well Position +N/-S 0.00 usft	Northing: 521,696.00 usft	Latitude: 29° 12' 43.150 N
+E/-W 0.00 usft	Easting: 3,234,548.00 usft	Longitude: 95° 7' 44.806 W
Position Uncertainty 0.00 usft	Wellhead Elevation: usft	Ground Level: 3.00 usft

Wellbore Aim MWD Surveys					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	7/31/2020	2.05	58.04	46,370.092

Design Aim MWD Surveys					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 1,980.00			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	264.33	

Survey Program		Date	9/2/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,980.00	Gyro Surveys (Accurate Gyro Surveys)	GYRO-NS	OWSG Gyrocompass Gyro	
2,055.00	10,282.00	Aim MWD Surveys (Aim MWD Surveys)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,980.00	0.50	252.68	1,979.96	-4.94	-5.40	5.87	0.000	0.000	0.000	
Tie-on to Gyro Surveys										
2,055.00	0.35	207.67	2,054.96	-5.24	-5.82	6.31	0.472	-0.200	-60.013	
First Aim MWD Survey										
2,181.00	0.84	259.44	2,180.95	-5.75	-6.91	7.44	0.541	0.389	41.087	
2,309.00	1.76	260.05	2,308.92	-6.26	-9.77	10.34	0.719	0.719	0.477	
2,436.00	3.03	289.06	2,435.81	-5.50	-14.86	15.33	1.352	1.000	22.842	
2,562.00	5.32	301.10	2,561.47	-1.40	-23.01	23.04	1.936	1.817	9.556	
2,689.00	8.92	290.90	2,687.47	5.16	-37.26	36.56	2.993	2.835	-8.031	

Survey Report

Company:	Kebo Oil & Gas	Local Co-ordinate Reference:	Site Black Stone #1
Project:	Brazoria County, Texas	TVD Reference:	3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Site:	Black Stone #1	MD Reference:	3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Well:	#1	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,816.00	13.10	283.26	2,812.12	11.98	-60.47	59.00	3.479	3.291	-6.016	
2,943.00	15.69	276.05	2,935.13	17.09	-91.57	89.43	2.476	2.039	-5.677	
3,070.00	16.35	267.35	3,057.21	18.07	-126.51	124.10	1.959	0.520	-6.850	
3,197.00	16.31	267.87	3,179.09	16.58	-162.18	159.75	0.119	-0.031	0.409	
3,324.00	17.01	266.12	3,300.76	14.66	-198.54	196.12	0.678	0.551	-1.378	
3,450.00	16.92	263.83	3,421.28	11.45	-235.16	232.87	0.535	-0.071	-1.817	
3,577.00	17.14	260.76	3,542.71	6.46	-272.00	270.03	0.729	0.173	-2.417	
3,704.00	17.05	260.14	3,664.10	0.26	-308.82	307.28	0.160	-0.071	-0.488	
3,830.00	17.32	260.67	3,784.47	-5.94	-345.52	344.42	0.248	0.214	0.421	
3,957.00	17.67	262.07	3,905.60	-11.67	-383.27	382.55	0.431	0.276	1.102	
4,083.00	17.14	262.78	4,025.83	-16.64	-420.63	420.21	0.453	-0.421	0.563	
4,210.00	15.96	265.06	4,147.57	-20.49	-456.59	456.38	1.060	-0.929	1.795	
4,337.00	15.65	263.92	4,269.77	-23.81	-491.02	490.97	0.345	-0.244	-0.898	
4,462.00	16.62	263.48	4,389.84	-27.63	-525.55	525.70	0.782	0.776	-0.352	
4,589.00	18.42	262.60	4,510.95	-32.27	-563.49	563.92	1.433	1.417	-0.693	
4,716.00	18.86	262.87	4,631.28	-37.41	-603.76	604.50	0.353	0.346	0.213	
4,843.00	18.86	262.43	4,751.47	-42.66	-644.47	645.54	0.112	0.000	-0.346	
4,970.00	18.59	262.60	4,871.74	-47.97	-684.90	686.28	0.217	-0.213	0.134	
5,097.00	18.24	261.99	4,992.24	-53.35	-724.65	726.38	0.315	-0.276	-0.480	
5,224.00	18.59	262.60	5,112.74	-58.72	-764.41	766.47	0.315	0.276	0.480	
5,351.00	18.86	262.95	5,233.02	-63.85	-804.86	807.23	0.230	0.213	0.276	
5,478.00	18.73	263.74	5,353.24	-68.59	-845.50	848.14	0.225	-0.102	0.622	
5,604.00	18.20	264.01	5,472.76	-72.85	-885.18	888.04	0.426	-0.421	0.214	
5,731.00	17.63	264.10	5,593.60	-76.90	-924.03	927.11	0.449	-0.449	0.071	
5,858.00	17.32	264.80	5,714.74	-80.59	-961.99	965.24	0.295	-0.244	0.551	
5,984.00	17.23	265.33	5,835.05	-83.81	-999.27	1,002.66	0.144	-0.071	0.421	
6,111.00	16.57	263.48	5,956.57	-87.40	-1,036.01	1,039.57	0.670	-0.520	-1.457	
6,237.00	16.70	263.48	6,077.30	-91.49	-1,071.84	1,075.64	0.103	0.103	0.000	
6,364.00	16.57	262.95	6,198.98	-95.79	-1,107.94	1,111.99	0.157	-0.102	-0.417	
6,491.00	16.53	262.16	6,320.72	-100.47	-1,143.82	1,148.15	0.180	-0.031	-0.622	
6,617.00	16.48	261.81	6,441.53	-105.46	-1,179.26	1,183.91	0.088	-0.040	-0.278	
6,744.00	16.57	261.72	6,563.28	-110.64	-1,215.01	1,220.00	0.074	0.071	-0.071	
6,871.00	16.70	260.84	6,684.97	-116.15	-1,250.95	1,256.30	0.223	0.102	-0.693	
6,997.00	16.84	262.87	6,805.61	-121.30	-1,286.93	1,292.62	0.478	0.111	1.611	
7,123.00	16.22	262.60	6,926.40	-125.83	-1,322.49	1,328.45	0.496	-0.492	-0.214	
7,249.00	16.31	261.99	7,047.36	-130.56	-1,357.46	1,363.72	0.153	0.071	-0.484	
7,376.00	16.35	262.25	7,169.23	-135.46	-1,392.83	1,399.40	0.066	0.031	0.205	
7,503.00	16.40	261.90	7,291.08	-140.39	-1,428.30	1,435.18	0.087	0.039	-0.276	
7,629.00	16.09	261.81	7,412.05	-145.39	-1,463.19	1,470.39	0.247	-0.246	-0.071	
7,755.00	15.60	262.07	7,533.26	-150.21	-1,497.25	1,504.77	0.393	-0.389	0.206	
7,838.00	15.34	261.46	7,613.26	-153.38	-1,519.16	1,526.88	0.370	-0.313	-0.735	
7,942.00	14.86	258.82	7,713.67	-158.01	-1,545.85	1,553.90	0.806	-0.462	-2.538	
8,068.00	16.44	262.25	7,834.99	-163.55	-1,579.37	1,587.80	1.453	1.254	2.722	

Survey Report

Company: Kebo Oil & Gas	Local Co-ordinate Reference: Site Black Stone #1
Project: Brazoria County, Texas	TVD Reference: 3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Site: Black Stone #1	MD Reference: 3'GL+17'KB @ 20.00usft (Lauson Rig #2)
Well: #1	North Reference: Grid
Wellbore: Aim MWD Surveys	Survey Calculation Method: Minimum Curvature
Design: Aim MWD Surveys	Database: EDMRESTORED

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,195.00	16.97	261.02	7,956.64	-168.87	-1,615.48	1,624.26	0.502	0.417	-0.969	
8,321.00	17.54	259.79	8,076.96	-175.10	-1,652.33	1,661.55	0.537	0.452	-0.976	
8,448.00	17.05	265.41	8,198.23	-179.98	-1,689.73	1,699.24	1.370	-0.386	4.425	
8,575.00	17.63	263.92	8,319.46	-183.51	-1,727.41	1,737.09	0.575	0.457	-1.173	
8,701.00	16.26	267.26	8,439.99	-186.38	-1,764.01	1,773.79	1.333	-1.087	2.651	
8,827.00	16.97	266.03	8,560.73	-188.49	-1,799.97	1,809.79	0.629	0.563	-0.976	
8,954.00	14.37	268.93	8,683.00	-190.07	-1,834.22	1,844.03	2.138	-2.047	2.283	
9,080.00	14.81	267.35	8,804.94	-191.11	-1,865.94	1,875.69	0.471	0.349	-1.254	
9,206.00	11.91	269.46	8,927.51	-191.97	-1,895.04	1,904.73	2.334	-2.302	1.675	
9,332.00	12.26	268.23	9,050.72	-192.51	-1,921.41	1,931.03	0.345	0.278	-0.976	
9,459.00	9.85	265.24	9,175.36	-193.83	-1,945.72	1,955.35	1.950	-1.898	-2.354	
9,586.00	10.59	263.48	9,300.34	-196.05	-1,968.14	1,977.88	0.632	0.583	-1.386	
9,713.00	8.13	264.54	9,425.64	-198.23	-1,988.67	1,998.53	1.942	-1.937	0.835	
9,839.00	5.36	267.08	9,550.76	-199.38	-2,003.42	2,013.32	2.211	-2.198	2.016	
9,966.00	2.55	272.01	9,677.44	-199.58	-2,012.17	2,022.05	2.227	-2.213	3.882	
10,092.00	0.53	139.91	9,803.40	-199.93	-2,014.60	2,024.49	2.327	-1.603	-104.841	
10,187.00	0.88	128.66	9,898.40	-200.72	-2,013.75	2,023.72	0.394	0.368	-11.842	
10,219.00	0.84	131.12	9,930.39	-201.03	-2,013.38	2,023.39	0.170	-0.125	7.687	
Last Aim MWD Survey										
10,282.00	0.84	131.12	9,993.39	-201.64	-2,012.68	2,022.76	0.000	0.000	0.000	
Projection to BHL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,980.00	1,979.96	-4.94	-5.40	Tie-on to Gyro Surveys	
2,055.00	2,054.96	-5.24	-5.82	First Aim MWD Survey	
10,219.00	9,930.39	-201.03	-2,013.38	Last Aim MWD Survey	
10,282.00	9,993.39	-201.64	-2,012.68	Projection to BHL	

Checked By: _____	Approved By: _____	Date: _____
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BHA Reports

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

BHA #1 - BHA #1 (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	8.00	Date In	2020-08-05 01:00	Downhole Hours	168.50
Lobe/Stage	7/8, 4.0	Depth In (ft)	2029.00	Drilling/Circulating Hours	129.15
Bend Angle	1.83	Date Out	2020-08-12 01:30	Drilling Hours	121.38
Speed (rev/gal)	0.15	Depth Out (ft)	7148.00	Circulating Hours	7.77
Wear Pad OD (in)	8.375	Distance Slid (ft)	628.00	Sliding Hours	13.30
Incident	No	Distance Rotated (ft)	4491.00	Rotating Hours	108.08
Motor Results		% Distance Sliding	12.27%	% Hours Sliding	10.96%
Average Total ROP (ft/h)	42.17	% Distance Rotating	87.73%	% Hours Rotating	89.04%
Average Slide ROP (ft/h)	47.22	BHA Objective			
Average Rotating ROP (ft/h)	41.55	Build Angle to 16.59 Deg. @ 264.33 Azm. & Hold. END OF RUN: BHA building from vertical was yielding 2-3°/100 (Soft formation), then 5-7°/100. BHA seemed to track very well holding angle & direction minimizing slides. Rotate & slide as per Lauson limiting weight on bit to preserve bit.			

Bit Details		POOH Reason/Notes	
OD (in)	12.250	Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Vendor	DB Bits		
S/N	D3912		
Nozzles	8		
Total Flow Area (in²)	0.884		

MWD		Incident Notes	
Max Downhole Temp (°F)	N/A	Directional: On surface motor was dry, motor not locked rotated in rotary table good, 1/4" squat , no visible damage. Bit was balled up , chipped shoulder cutters. C/O Bit & Motor	
		MWD:	

Bit Distances		Comments	
Bit To Bend (Bit To Bend):	6.35 ft, Survey	Directional: Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, SS516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
(Bit To Survey):	62.00 ft		

Mud Properties		Parameters	
Type	Water Based	Flow Rate (gpm)	565.00 - 639.00
WT	10.00	Motor RPM	85.00 - 96.00
VIS	52.00	On Bottom Pressure (psi)	1350.00 - 2550.00
PV	19.00	Surface RPM	50.00 - 70.00
YP	10.00	Off Bottom Pressure (psi)	1200.00 - 2340.00
		Rotating WOB (klbs)	7.00 - 14.00
		Stall Pressure (psi)	0.00
		Sliding WOB (klbs)	8.00 - 252.00
		Stalls	0
		Temp (°F)	113.00 - 167.00
		NPT	0.0

Items (Directional)									
Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

BHA #2 - BHA no. 2 (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	8.00	Date In	2020-08-12 02:00	Downhole Hours	93.00
Lobe/Stage	7/8, 4.0	Depth In (ft)	7148.00	Drilling/Circulating Hours	47.12
Bend Angle	1.83	Date Out	2020-08-15 23:00	Drilling Hours	35.12
Speed (rev/gal)	0.15	Depth Out (ft)	7900.00	Circulating Hours	12.00
Wear Pad OD (in)	8.375	Distance Slid (ft)	0.00	Sliding Hours	0.00
Incident	No	Distance Rotated (ft)	752.00	Rotating Hours	35.12
Motor Results		% Distance Sliding	0.00%	% Hours Sliding	0.00%
Average Total ROP (ft/h)	21.41	% Distance Rotating	100.00%	% Hours Rotating	100.00%
Average Slide ROP (ft/h)	0.00	BHA Objective			
Average Rotating ROP (ft/h)	21.41	Hold 16.59 Deg. @ 264.33 Azm. drill to csg. point.			

Bit Details		POOH Reason/Notes	
OD (in)	12.250		
Vendor	Smith		
S/N	8675309	Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.	
Nozzles	5x12's 2x14's		
Total Flow Area (in²)	0.850		

MWD		Incident Notes	
Max Downhole Temp (°F)	N/A	Directional: On surface motor drained good with no visible damage / Bit balled up 1-1	
		MWD:	

Bit Distances		Comments	
Bit To Bend (Bit To Bend):	6.15 ft, Survey	Directional: Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850	
(Bit To Survey):	62.00 ft		

Mud Properties		Parameters			
Type	Water Based	Flow Rate (gpm)	541.00 - 580.00	Motor RPM	81.00 - 87.00
WT	10.90	On Bottom Pressure (psi)	2250.00 - 2400.00	Surface RPM	60.00 - 60.00
VIS	53.00	Off Bottom Pressure (psi)	2200.00 - 2300.00	Rotating WOB (klbs)	8.00 - 10.00
PV	27.00	Stall Pressure (psi)	0.00	Sliding WOB (klbs)	0.00 - 0.00
YP	13.00	Stalls	0	Temp (°F)	158.00 - 163.69
		NPT	0.0		

Items (Directional)									
Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Smith 12¼" HC505</i> , Style: <i>PDC</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>12.25</i>	Smith	8675309	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>Motor, 8" 7/8 4.0, FBH @ 1.83°, 11¼" UBHS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.83</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>4</i>	Aim	800-40-015	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.64	31.64
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.24
UBHO Sub Description: <i>UBHO</i> , Type: <i>Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.85
Drill Collar Description: <i>NM Monel (MWD)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.82
Drill Collar Description: <i>NM Monel (Spacer)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	102.98
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P</i> , Type: <i>Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.37
Drill Collar Description: <i>6.5" DC (4 DC)</i> , Style: <i>Spiral Drill</i> , Type: <i>Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.28
HWDP Description: <i>4.5" HWDP (10 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.16
Jars Description: <i>Drilling Jars</i> , Size (in): <i>6.25</i> , Type: <i>Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.36
HWDP Description: <i>4.5" HWDP (5 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.56



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

BHA #3 - BHA No. 3 (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	6.75	Date In	2020-08-29 23:30	Downhole Hours	73.25
Lobe/Stage	7/8, 5.7	Depth In (ft)	7910.00	Drilling/Circulating Hours	49.33
Bend Angle	1.83	Date Out	2020-09-02 00:45	Drilling Hours	44.45
Speed (rev/gal)	0.24	Depth Out (ft)	10282.00	Circulating Hours	4.88
Wear Pad OD (in)	6.938	Distance Slid (ft)	227.00	Sliding Hours	3.83
Incident	No	Distance Rotated (ft)	2145.00	Rotating Hours	40.62
Motor Results		% Distance Sliding	9.57%	% Hours Sliding	8.62%
Average Total ROP (ft/h)	53.36	% Distance Rotating	90.43%	% Hours Rotating	91.38%
Average Slide ROP (ft/h)	59.22	BHA Objective			
Average Rotating ROP (ft/h)	52.81	Hold & drop angle back to vertical.			

Bit Details		POOH Reason/Notes	
OD (in)	8.500		
Vendor	DB BITS		
S/N	D3474	Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools	
Nozzles	5X13		
Total Flow Area (in²)	0.648		

MWD		Incident Notes	
Max Downhole Temp (°F)	N/A	Directional: On surface motor drained good with no visible damage, Bit 1-1	
		MWD:	

Bit Distances		Comments	
Bit To Bend: 5.56 ft, Gamma: 48.12 ft, Survey: 63.00 ft		Directional: Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB, S/N: D3474, Bit Nozzles= 5x13's	

Mud Properties		Parameters	
Type	Oil Based	Flow Rate (gpm)	324.00 - 344.00
WT	15.20	On Bottom Pressure (psi)	2575.00 - 2640.00
VIS	76.00	Off Bottom Pressure (psi)	2550.00 - 2600.00
PV	57.00	Stall Pressure (psi)	0.00
YP	13.00	Stalls	0
		NPT	0.0
		Motor RPM	78.00 - 83.00
		Surface RPM	20.00 - 60.00
		Rotating WOB (klbs)	3.00 - 3.00
		Sliding WOB (klbs)	3.00 - 3.00
		Temp (°F)	150.69 - 194.00

Items (Directional)									
Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64



Mud Motor Reports

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Mud Motor Report - BHA 1 (BHA #1)

Motor Details		Date/Depth/Distances		Hours	
S/N	800-40-007	Date In	2020-08-05 01:00	Downhole Hours	168.50
Size (in)	8.0	Depth In (ft)	2029.00	Drilling/Circulating Hours	129.15
Lobe/Stage	7/8, 4.00	Date Out	2020-08-12 01:30		
Bend Angle	1.83	Depth Out (ft)	7148.00	Circulating Hours	7.77
Speed (rev/gal)	0.15	Total Drilled (ft)	5119.00	Drilling Hours	121.38
Wear Pad OD (in)	8.375	Distance Slid (ft)	628.00	Sliding Hours	13.30
Manufacturer	Aim	Distance Rotated (ft)	4491.00	Rotating Hours	108.08
Motor Results		% Distance Sliding	12.27%	% Hours Rotating	89.04%
Motor Incident	No	% Distance Rotating	87.73%	% Hours Sliding	10.96%
Average Total ROP (ft/h)	42.17	BHA Parameters			
Average Slide ROP (ft/h)	47.22	Flow Rate (gpm)	565.00 - 639.00	Motor RPM	85.00 - 96.00
Average Rotating ROP (ft/h)	41.55	Stalls	0	Surface RPM	50.00 - 70.00
Bit Details		Stall Pressure (psi)	0.00	Rotating WOB (klbs)	7.00 - 14.00
OD (in)	12.250	On Bottom Pressure (psi)	1350.00 - 2550.00	Sliding WOB (klbs)	8.00 - 252.00
Vendor	DB Bits	Off Bottom Pressure (psi)	1200.00 - 2340.00	Temp (°F)	113.00 - 167.00
S/N	D3912	NPT	0.0		
Nozzles	8	BHA Objective			
Total Flow Area (in ²)	0.884	Build Angle to 16.59 Deg. @ 264.33 Azm. & Hold. END OF RUN: BHA building from vertical was yielding 2-3°/100 (Soft formation), then 5-7°/100. BHA seemed to track very well holding angle & direction minimizing slides. Rotate & slide as per Lauson limiting weight on bit to preserve bit.			
Bit Type	PDC				
Bit Distances					
Bend (Bit To Bend):	6.35 ft,	Survey (Bit To Survey): 62.00 ft			
Mud Properties					
Type	Water Based				
WT	10.00				
VIS	52.00				
PV	19.00				
YP	10.00				
POOH Reason/Notes					
Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.					
Incident Notes					
Directional: On surface motor was dry, motor not locked rotated in rotary table good, 1/4" squat , no visible damage. Bit was balled up , chipped shoulder cutters. C/O Bit & Motor					
MWD:					
Comments					
Directional: Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, SS516X4, SN: D3912 , Jets 8x12's, TFA: .8836					
MWD:					



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Mud Motor Report - BHA 2 (BHA no. 2)

Motor Details		Date/Depth/Distances		Hours	
S/N	800-40-015	Date In	2020-08-12 02:00	Downhole Hours	93.00
Size (in)	8.0	Depth In (ft)	7148.00	Drilling/Circulating Hours	47.12
Lobe/Stage	7/8, 4.00	Date Out	2020-08-15 23:00		
Bend Angle	1.83	Depth Out (ft)	7900.00	Circulating Hours	12.00
Speed (rev/gal)	0.15	Total Drilled (ft)	752.00	Drilling Hours	35.12
Wear Pad OD (in)	8.375	Distance Slid (ft)	0.00	Sliding Hours	0.00
Manufacturer	Aim	Distance Rotated (ft)	752.00	Rotating Hours	35.12
Motor Results		% Distance Sliding	0.00%	% Hours Rotating	100.00%
Motor Incident	No	% Distance Rotating	100.00%	% Hours Sliding	0.00%
Average Total ROP (ft/h)	21.41	BHA Parameters			
Average Slide ROP (ft/h)	0.00	Flow Rate (gpm)	541.00 - 580.00	Motor RPM	81.00 - 87.00
Average Rotating ROP (ft/h)	21.41	Stalls	0	Surface RPM	60.00 - 60.00
Bit Details		Stall Pressure (psi)	0.00	Rotating WOB (klbs)	8.00 - 10.00
OD (in)	12.250	On Bottom Pressure (psi)	2250.00 - 2400.00	Sliding WOB (klbs)	0.00 - 0.00
Vendor	Smith	Off Bottom Pressure (psi)	2200.00 - 2300.00	Temp (°F)	158.00 - 163.69
S/N	8675309	NPT	0.0		
Nozzles	5x12's 2x14's	BHA Objective			
Total Flow Area (in ²)	0.850	Hold 16.59 Deg. @ 264.33 Azm. drill to csg. point.			
Bit Type	PDC				
Bit Distances					
Bend (Bit To Bend):	6.15 ft,	Survey (Bit To Survey): 62.00 ft			
Mud Properties					
Type	Water Based				
WT	10.90				
VIS	53.00				
PV	27.00				
YP	13.00				
POOH Reason/Notes					
Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.					
Incident Notes					
Directional: On surface motor drained good with no visible damage / Bit balled up 1-1					
MWD:					
Comments					
Directional: Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850					
MWD:					



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Mud Motor Report - BHA 3 (BHA No. 3)

Motor Details		Date/Depth/Distances		Hours	
S/N	700-40-025	Date In	2020-08-29 23:30	Downhole Hours	73.25
Size (in)	6.75	Depth In (ft)	7910.00	Drilling/Circulating Hours	49.33
Lobe/Stage	7/8, 5.70	Date Out	2020-09-02 00:45		
Bend Angle	1.83	Depth Out (ft)	10282.00	Circulating Hours	4.88
Speed (rev/gal)	0.24	Total Drilled (ft)	2372.00	Drilling Hours	44.45
Wear Pad OD (in)	6.938	Distance Slid (ft)	227.00	Sliding Hours	3.83
Manufacturer	AIM	Distance Rotated (ft)	2145.00	Rotating Hours	40.62
Motor Results		% Distance Sliding	9.57%	% Hours Rotating	91.38%
Motor Incident	No	% Distance Rotating	90.43%	% Hours Sliding	8.62%
Average Total ROP (ft/h)	53.36	BHA Parameters			
Average Slide ROP (ft/h)	59.22	Flow Rate (gpm)	324.00 - 344.00	Motor RPM	78.00 - 83.00
Average Rotating ROP (ft/h)	52.81	Stalls	0	Surface RPM	20.00 - 60.00
Bit Details		Stall Pressure (psi)	0.00	Rotating WOB (klbs)	3.00 - 3.00
OD (in)	8.500	On Bottom Pressure (psi)	2575.00 - 2640.00	Sliding WOB (klbs)	3.00 - 3.00
Vendor	DB BITS	Off Bottom Pressure (psi)	2550.00 - 2600.00	Temp (°F)	150.69 - 194.00
S/N	D3474	NPT	0.0		
Nozzles	5X13	BHA Objective			
Total Flow Area (in ²)	0.648	Hold & drop angle back to vertical.			
Bit Type	PDC				
Bit Distances					
Bend: 5.56 ft, Gamma: 48.12 ft, Survey: 63.00 ft					
Mud Properties					
Type	Oil Based				
WT	15.20				
VIS	76.00				
PV	57.00				
YP	13.00				
POOH Reason/Notes					
Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools					
Incident Notes					
Directional: On surface motor drained good with no visible damage, Bit 1-1					
MWD:					
Comments					
Directional: Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's					
MWD:					



Slide/Rotate Reports

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.		Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1		Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria	Company Man

Slide/Rotate Report - BHA #1 (BHA #1)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	08-05	07:30	08:40	08-05	1.17	2029.00	2117.00	88.00	75.43	N/A	589.00	50.0	7.00	1375.00	1200.00	
Slide	08-05	10:05	10:20	08-05	0.25	2117.00	2145.00	28.00	112.00	270.0	589.00	N/A	10.00	1350.00	1200.00	
Rotate	08-05	10:20	11:30	08-05	1.17	2145.00	2243.00	98.00	84.00	N/A	589.00	50.0	7.00	1375.00	1200.00	
Slide	08-05	11:45	12:15	08-05	0.5	2243.00	2283.00	40.00	80.00	280.0	589.00	N/A	8.00	1500.00	1380.00	
Rotate	08-05	12:15	13:15	08-05	1.0	2283.00	2371.00	88.00	88.00	N/A	589.00	60.0	14.00	1500.00	1380.00	
Slide	08-05	13:21	14:00	08-05	0.65	2371.00	2399.00	28.00	43.08	285.0	565.00	N/A	20.00	1400.00	1200.00	
Rotate	08-05	14:00	15:15	08-05	1.25	2399.00	2498.00	99.00	79.20	N/A	589.00	60.0	14.00	1500.00	1380.00	
Slide	08-05	15:25	16:20	08-05	0.92	2498.00	2561.00	63.00	68.73	0.0	589.00	N/A	10.00	1520.00	1420.00	
Rotate	08-05	16:20	17:10	08-05	0.83	2561.00	2624.00	63.00	75.60	N/A	589.00	60.0	8.00	1500.00	1380.00	
Slide	08-05	17:55	18:35	08-05	0.67	2624.00	2685.00	61.00	91.50	345.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-05	18:35	20:10	08-05	1.58	2685.00	2751.00	66.00	41.68	N/A	589.00	60.0	8.00	1500.00	1380.00	
Slide	08-05	20:20	21:00	08-05	0.67	2751.00	2806.00	55.00	82.50	335.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-05	21:00	22:35	08-05	1.58	2806.00	2878.00	72.00	45.47	N/A	589.00	60.0	8.00	1500.00	1380.00	
Slide	08-05	22:45	23:35	08-05	0.83	2878.00	2933.00	55.00	66.00	310.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-05	23:35	01:05	08-06	1.5	2933.00	3005.00	72.00	48.00	N/A	589.00	60.0	8.00	1500.00	1380.00	
Slide	08-06	01:15	02:00	08-06	0.75	3005.00	3039.00	34.00	45.33	300.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-06	02:00	04:35	08-06	2.58	3039.00	3132.00	93.00	36.00	N/A	589.00	60.0	8.00	1500.00	1380.00	
Rotate	08-06	04:45	05:00	08-06	0.25	3132.00	3142.00	10.00	40.00	N/A	589.00	60.0	8.00	1500.00	1380.00	
Slide	08-06	05:00	05:20	08-06	0.33	3142.00	3166.00	24.00	72.00	330.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-06	05:20	05:27	08-06	0.12	3166.00	3173.00	7.00	60.00	N/A	589.00	60.0	8.00	1500.00	1380.00	
Rotate	08-06	06:32	07:34	08-06	1.03	3173.00	3259.00	86.00	83.23	N/A	589.00	60.0	8.00	1500.00	1420.00	
Rotate	08-06	07:40	07:50	08-06	0.17	3259.00	3269.00	10.00	60.00	N/A	589.00	60.0	8.00	1500.00	1420.00	
Slide	08-06	07:50	08:25	08-06	0.58	3269.00	3299.00	30.00	51.43	310.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-06	08:25	09:10	08-06	0.75	3299.00	3322.00	23.00	30.67	N/A	589.00	60.0	8.00	1500.00	1420.00	
Rotate	08-06	10:00	10:40	08-06	0.67	3322.00	3386.00	64.00	96.00	N/A	589.00	60.0	8.00	1500.00	1420.00	
Rotate	08-06	10:45	10:55	08-06	0.17	3386.00	3396.00	10.00	60.00	N/A	589.00	60.0	8.00	1500.00	1420.00	
Slide	08-06	10:55	11:25	08-06	0.5	3396.00	3426.00	30.00	60.00	300.0	589.00	N/A	20.00	1620.00	1420.00	
Rotate	08-06	11:25	12:52	08-06	1.45	3426.00	3512.00	86.00	59.31	N/A	589.00	60.0	8.00	1560.00	1460.00	
Rotate	08-06	13:00	13:50	08-06	0.83	3512.00	3543.00	31.00	37.20	N/A	589.00	60.0	8.00	1560.00	1460.00	
Slide	08-06	13:56	14:55	08-06	0.98	3543.00	3569.00	26.00	26.44	300.0	589.00	N/A	18.00	1560.00	1460.00	
Rotate	08-06	14:55	16:35	08-06	1.67	3569.00	3639.00	70.00	42.00	N/A	589.00	60.0	8.00	1560.00	1460.00	
Rotate	08-06	17:20	20:10	08-06	2.83	3639.00	3766.00	127.00	44.82	N/A	589.00	60.0	8.00	1560.00	1460.00	
Rotate	08-06	20:20	22:45	08-06	2.42	3766.00	3828.00	62.00	25.66	N/A	589.00	60.0	8.00	1560.00	1460.00	
Rotate	08-06	23:50	01:35	08-07	1.75	3828.00	3892.00	64.00	36.57	N/A	589.00	60.0	9.00	1560.00	1460.00	
Rotate	08-07	01:45	02:45	08-07	1.0	3892.00	3922.00	30.00	30.00	N/A	589.00	60.0	9.00	1560.00	1460.00	
Rotate	08-07	13:00	15:40	08-07	2.67	3922.00	4019.00	97.00	36.37	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-07	15:49	17:25	08-07	1.6	4019.00	4145.00	126.00	78.75	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-07	17:34	19:40	08-07	2.1	4145.00	4272.00	127.00	60.48	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-07	20:10	20:20	08-07	0.17	4272.00	4279.00	7.00	42.00	N/A	595.00	60.0	11.00	1900.00	1800.00	
Slide	08-07	20:20	21:30	08-07	1.17	4279.00	4309.00	30.00	25.71	315.0	625.00	N/A	20.00	1950.00	2000.00	
Rotate	08-07	21:30	23:30	08-07	2.0	4309.00	4399.00	90.00	45.00	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-07	23:45	00:00	08-08	0.25	4399.00	4409.00	10.00	40.00	N/A	595.00	60.0	11.00	1900.00	1800.00	
Slide	08-08	00:00	01:00	08-08	1.0	4409.00	4449.00	40.00	40.00	330.0	625.00	N/A	20.00	1950.00	2000.00	
Rotate	08-08	01:00	02:55	08-08	1.92	4449.00	4524.00	75.00	39.13	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-08	03:05	03:25	08-08	0.33	4524.00	4534.00	10.00	30.00	N/A	595.00	60.0	11.00	1900.00	1800.00	
Slide	08-08	03:25	04:20	08-08	0.92	4534.00	4569.00	35.00	38.18	340.0	625.00	N/A	20.00	1950.00	2000.00	
Rotate	08-08	04:20	07:15	08-08	2.92	4569.00	4651.00	82.00	28.11	N/A	595.00	60.0	11.00	1900.00	1800.00	
Rotate	08-08	07:25	10:30	08-08	3.08	4651.00	4778.00	127.00	41.19	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-08	10:37	12:15	08-08	1.63	4778.00	4905.00	127.00	77.76	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-08	12:25	16:15	08-08	3.83	4905.00	5032.00	127.00	33.13	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-08	16:25	19:30	08-08	3.08	5032.00	5159.00	127.00	41.19	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-08	19:40	23:05	08-08	3.42	5159.00	5286.00	127.00	37.17	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-08	23:15	02:35	08-09	3.33	5286.00	5413.00	127.00	38.10	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-09	02:45	06:05	08-09	3.33	5413.00	5540.00	127.00	38.10	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-09	06:15	07:45	08-09	1.5	5540.00	5666.00	126.00	84.00	N/A	629.00	60.0	11.00	2160.00	1960.00	
Rotate	08-09	08:00	09:25	08-09	1.42	5666.00	5793.00	127.00	89.65	N/A	639.00	65.0	11.00	2550.00	2340.00	
Rotate	08-09	10:00	13:00	08-09	3.0	5793.00	5920.00	127.00	42.33	N/A	639.00	65.0	11.00	2550.00	2340.00	
Rotate	08-09	13:10	14:36	08-09	1.43	5920.00	6046.00	126.00	87.91	N/A	580.00	65.0	11.00	2040.00	1940.00	
Rotate	08-09	14:49	15:00	08-09	0.18	6046.00	6051.00	5.00	27.27	N/A	580.00	65.0	11.00	2040.00	1940.00	
Slide	08-09	15:00	16:15	08-09	1.25	6051.00	6073.00	22.00	17.60	240.0	580.00	N/A	14.00	2010.00	1940.00	
Rotate	08-09	16:15	19:35	08-09	3.33	6073.00	6173.00	100.00	30.00	N/A	580.00	65.0	11.00	2040.00	1940.00	
Rotate	08-09	19:50	22:55	08-09	3.08	6173.00	6299.00	126.00	40.86	N/A	580.00	65.0	11.00	2040.00	1940.00	
Rotate	08-09	23:05	02:50	08-10	3.75	6299.00	6426.00	127.00	33.87	N/A	580.00	65.0	11.00	2040.00	1940.00	
Rotate	08-10	03:00	07:20	08-10	4.33	6426.00	6553.00	127.00	29.31	N/A	580.00	65.0	11.00	2040.00	1940.00	

Rotate	08-10	07:28	09:00	08-10	1.53	6553.00	6616.00	63.00	41.09	N/A	585.00	70.0	11.00	2250.00	2150.00	
Rotate	08-10	09:30	11:15	08-10	1.75	6616.00	6679.00	63.00	36.00	N/A	585.00	70.0	11.00	2250.00	2150.00	
Rotate	08-10	11:25	15:50	08-10	4.42	6679.00	6806.00	127.00	28.75	N/A	585.00	60.0	11.00	2250.00	2150.00	
Rotate	08-10	15:55	21:00	08-10	5.08	6806.00	6933.00	127.00	24.98	N/A	585.00	60.0	11.00	2250.00	2150.00	
Rotate	08-10	21:10	21:40	08-10	0.5	6933.00	6943.00	10.00	20.00	N/A	585.00	60.0	11.00	2250.00	2150.00	
Slide	08-10	21:40	23:00	08-10	1.33	6943.00	6970.00	27.00	20.25	90.0	590.00	N/A	252.00	2300.00	2250.00	
Rotate	08-10	23:00	04:45	08-11	5.75	6970.00	7059.00	89.00	15.48	N/A	585.00	60.0	11.00	2250.00	2150.00	
Rotate	08-11	04:55	08:30	08-11	3.58	7059.00	7148.00	89.00	24.84	N/A	585.00	60.0	11.00	2250.00	2150.00	



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.		Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1		Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria	Company Man

Slide/Rotate Report - BHA #2 (BHA no. 2)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	08-12	19:00	23:00	08-12	4.0	7148.00	7185.00	37.00	9.25	N/A	575.00	60.0	10.00	2350.00	2250.00	
Rotate	08-12	23:10	09:30	08-13	10.33	7185.00	7302.00	117.00	11.32	N/A	575.00	60.0	10.00	2350.00	2250.00	
Rotate	08-13	10:53	11:15	08-13	0.37	7302.00	7311.00	9.00	24.55	N/A	575.00	60.0	10.00	2350.00	2250.00	
Rotate	08-13	11:30	14:30	08-13	3.0	7311.00	7374.00	63.00	21.00	N/A	575.00	60.0	10.00	2350.00	2250.00	
Rotate	08-13	15:00	16:25	08-13	1.42	7374.00	7438.00	64.00	45.18	N/A	580.00	60.0	10.00	2400.00	2300.00	
Rotate	08-13	16:35	19:50	08-13	3.25	7438.00	7565.00	127.00	39.08	N/A	580.00	60.0	10.00	2400.00	2300.00	
Rotate	08-13	20:00	02:10	08-14	6.17	7565.00	7691.00	126.00	20.43	N/A	541.00	60.0	8.00	2250.00	2200.00	
Rotate	08-14	02:20	04:20	08-14	2.0	7691.00	7753.00	62.00	31.00	N/A	541.00	60.0	8.00	2250.00	2200.00	
Rotate	08-14	07:45	09:30	08-14	1.75	7753.00	7817.00	64.00	36.57	N/A	541.00	60.0	8.00	2250.00	2200.00	
Rotate	08-14	09:40	12:30	08-14	2.83	7817.00	7900.00	83.00	29.29	N/A	541.00	60.0	8.00	2250.00	2200.00	



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.		Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1		Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria	Company Man

Slide/Rotate Report - BHA #3 (BHA No. 3)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	08-30	13:20	15:20	08-30	2.0	7910.00	8005.00	95.00	47.50	N/A	344.00	40.0	3.00	2640.00	2600.00	
Rotate	08-30	15:30	15:45	08-30	0.25	8005.00	8015.00	10.00	40.00	N/A	344.00	40.0	3.00	2640.00	2600.00	
Slide	08-30	15:45	16:10	08-30	0.42	8015.00	8032.00	17.00	40.80	70.0	334.00	N/A	3.00	2580.00	2550.00	
Rotate	08-30	16:10	17:55	08-30	1.75	8032.00	8131.00	99.00	56.57	N/A	344.00	40.0	3.00	2640.00	2600.00	
Rotate	08-30	18:05	20:20	08-30	2.25	8131.00	8258.00	127.00	56.44	N/A	344.00	20.0	3.00	2640.00	2600.00	
Rotate	08-30	20:30	22:40	08-30	2.17	8258.00	8384.00	126.00	58.15	N/A	344.00	60.0	3.00	2640.00	2600.00	
Rotate	08-30	22:50	23:00	08-30	0.17	8384.00	8395.00	11.00	66.00	N/A	344.00	60.0	3.00	2640.00	2600.00	
Slide	08-30	23:00	23:20	08-30	0.33	8395.00	8415.00	20.00	60.00	110.0	334.00	N/A	3.00	2580.00	2550.00	
Rotate	08-30	23:20	01:05	08-31	1.75	8415.00	8511.00	96.00	54.86	N/A	344.00	60.0	3.00	2640.00	2600.00	
Rotate	08-31	01:15	03:25	08-31	2.17	8511.00	8638.00	127.00	58.62	N/A	344.00	60.0	3.00	2640.00	2600.00	
Rotate	08-31	03:35	03:45	08-31	0.17	8638.00	8647.00	9.00	54.00	N/A	344.00	60.0	3.00	2640.00	2600.00	
Slide	08-31	03:45	04:00	08-31	0.25	8647.00	8665.00	18.00	72.00	150.0	334.00	N/A	3.00	2580.00	2550.00	
Rotate	08-31	04:00	05:40	08-31	1.67	8665.00	8764.00	99.00	59.40	N/A	334.00	60.0	3.00	2620.00	2575.00	
Rotate	08-31	05:52	08:00	08-31	2.13	8764.00	8890.00	126.00	59.06	N/A	334.00	60.0	3.00	2620.00	2575.00	
Rotate	08-31	08:15	08:30	08-31	0.25	8890.00	8900.00	10.00	40.00	N/A	334.00	60.0	3.00	2620.00	2575.00	
Slide	08-31	08:30	09:00	08-31	0.5	8900.00	8925.00	25.00	50.00	170.0	334.00	N/A	3.00	2580.00	2550.00	
Rotate	08-31	09:00	11:03	08-31	2.05	8925.00	9017.00	92.00	44.88	N/A	334.00	60.0	3.00	2620.00	2575.00	
Rotate	08-31	11:17	13:30	08-31	2.22	9017.00	9143.00	126.00	56.84	N/A	334.00	60.0	3.00	2620.00	2575.00	
Rotate	08-31	14:05	14:15	08-31	0.17	9143.00	9153.00	10.00	60.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	08-31	14:15	14:40	08-31	0.42	9153.00	9178.00	25.00	60.00	180.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	08-31	14:40	16:25	08-31	1.75	9178.00	9269.00	91.00	52.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	08-31	16:40	19:05	08-31	2.42	9269.00	9395.00	126.00	52.14	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	08-31	19:30	19:45	08-31	0.25	9395.00	9405.00	10.00	40.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	08-31	19:45	20:00	08-31	0.25	9405.00	9428.00	23.00	92.00	210.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	08-31	20:00	21:35	08-31	1.58	9428.00	9522.00	94.00	59.37	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	08-31	21:45	00:00	09-01	2.25	9522.00	9649.00	127.00	56.44	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	00:10	00:20	09-01	0.17	9649.00	9657.00	8.00	48.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	09-01	00:20	00:40	09-01	0.33	9657.00	9682.00	25.00	75.00	180.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	09-01	00:40	02:55	09-01	2.25	9682.00	9776.00	94.00	41.78	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	03:05	03:15	09-01	0.17	9776.00	9786.00	10.00	60.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	09-01	03:15	03:35	09-01	0.33	9786.00	9811.00	25.00	75.00	180.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	09-01	03:35	05:10	09-01	1.58	9811.00	9902.00	91.00	57.47	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	05:20	05:30	09-01	0.17	9902.00	9913.00	11.00	66.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	09-01	05:30	06:00	09-01	0.5	9913.00	9938.00	25.00	50.00	180.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	09-01	06:00	08:07	09-01	2.12	9938.00	10029.00	91.00	42.99	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	08:15	08:30	09-01	0.25	10029.00	10039.00	10.00	40.00	N/A	324.00	60.0	3.00	2575.00	2550.00	
Slide	09-01	08:30	09:00	09-01	0.5	10039.00	10063.00	24.00	48.00	100.0	324.00	N/A	3.00	2575.00	2550.00	
Rotate	09-01	09:00	10:40	09-01	1.67	10063.00	10155.00	92.00	55.20	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	10:50	13:00	09-01	2.17	10155.00	10250.00	95.00	43.85	N/A	324.00	60.0	3.00	2575.00	2550.00	
Rotate	09-01	15:00	15:41	09-01	0.68	10250.00	10282.00	32.00	46.83	N/A	324.00	60.0	3.00	2575.00	2550.00	



Daily Reports

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Tuesday, Aug 04 00:00 - 23:59 (Day 1 of 19)

Billing: \$11,300.00 (\$125,268.00 total)

Drilling Summary			Drilling Parameters		
Start Depth (ft)		Downhole Hours	0.00	Rotating WOB (klbs)	
Bit Depth (ft)		Drilling Hours	0.00	Sliding WOB (klbs)	
Bottom Hole Depth (ft)		Hours Circulating	0.00	Rotating SPM	
Total Distance (ft)	0.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	0.00	Hours Rotating	0.00	Motor RPM	-
Distance Slid (ft)	0.00			Surface RPM	
Inclination In				Flow Rate (gpm)	
Inclination Out				On Bottom Pressure (psi)	
Azimuth In		% Hours Rotating		Off Bottom Pressure (psi)	
Azimuth Out		% Hours Sliding			
AVG Total ROP (ft/h)	0.00	% Distance Sliding			
AVG Rotating ROP (ft/h)	0.00	% Distance Rotating			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

No BHAs

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Other	16	08-04	00:00	00:30	08-04			Arrived on Location
Standby	15	08-04	00:30	06:00	08-04			Standby while Test BOP's , Rig Up , Strap Tools
Standby	15	08-04	06:00	23:55	08-04			Standby while TIH with Conventional BHA, Drill Out Shoe Track, POOH

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Wednesday, Aug 05 00:00 - 23:59 (Day 2 of 19)

Billing: \$12,991.25 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	2029.00	Downhole Hours	23.00	Rotating WOB (klbs)	7.00 - 14.00		
Bit Depth (ft)	2933.00	Drilling Hours	13.07	Sliding WOB (klbs)	8.00 - 20.00		
Bottom Hole Depth (ft)	2933.00	Hours Circulating	0.50	Rotating SPM	120.00 - 120.00		
Total Distance (ft)	904.00	Hours Sliding	4.48	Sliding SPM	115.00 - 120.00		
Distance Rotated (ft)	574.00	Hours Rotating	8.58	Motor RPM	85.00 - 96.00		
Distance Slid (ft)	330.00			Surface RPM	50.00 - 60.00		
Inclination In	0.35			Flow Rate (gpm)	565.00 - 589.00		
Inclination Out	13.10			On Bottom Pressure (psi)	1350.00 - 1620.00		
Azimuth In	207.67	% Hours Rotating	66%	Off Bottom Pressure (psi)	1200.00 - 1420.00		
Azimuth Out	283.26	% Hours Sliding	34%				
AVG Total ROP (ft/h)	67.00	% Distance Sliding	37%				
AVG Rotating ROP (ft/h)	64.07	% Distance Rotating	63%				
AVG Sliding ROP (ft/h)	73.61						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	MWD Comments	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	POOH Reason	
Drilling Hours for Day	13.07	Bit Distances			
Total Drilled for Day (ft)	904.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00	Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.			

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Other	16	08-05	00:00	01:00	08-05			Gather Dir. Tools to Rig Floor
Change BHA	6	08-05	01:00	02:45	08-05			P/U BHA # 1
Circulating	3	08-05	02:45	03:15	08-05			Shallow Test Tools (Good Test)
TIH	8	08-05	03:15	07:30	08-05			TIH W/ BHA #1
Rotary Drill	1	08-05	07:30	08:40	08-05	2029.00	2117.00	Pressure On (psi): 1375.00, Pressure Off (psi): 1200.00, Weight On Bit (klbs): 7.00, Surface RPM: 50, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Other	16	08-05	08:40	10:00	08-05			Work on Gen & repair oil leak on top drive
Survey	46	08-05	10:00	10:05	08-05	2117.00	2117.00	Inclination (°): 0.350, Azimuth (°): 207.670, TVD (ft): 2054.96, Dogleg (°/100 ft): 0.47, Sensor Depth (ft): 2055.00, Bit To Sensor (ft): 62.00, Temperature (°F): 113.00
Slide Drill	2	08-05	10:05	10:20	08-05	2117.00	2145.00	Pressure On (psi): 1350.00, Pressure Off (psi): 1200.00, Weight On Bit (klbs): 10.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 270, Toolface Type: magnetic
Rotary Drill	1	08-05	10:20	11:30	08-05	2145.00	2243.00	Pressure On (psi): 1375.00, Pressure Off (psi): 1200.00, Weight On Bit (klbs): 7.00, Surface RPM: 50, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-05	11:30	11:45	08-05	2243.00	2243.00	Inclination (°): 0.840, Azimuth (°): 259.440, TVD (ft): 2180.95, Dogleg (°/100 ft): 0.54, Sensor Depth (ft): 2181.00, Bit To Sensor (ft): 62.00, Temperature (°F): 113.00
Slide Drill	2	08-05	11:45	12:15	08-05	2243.00	2283.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 280, Toolface Type: magnetic
Rotary Drill	1	08-05	12:15	13:15	08-05	2283.00	2371.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 14.00, Surface RPM: 60, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-05	13:15	13:21	08-05	2371.00	2371.00	Inclination (°): 1.760, Azimuth (°): 260.050, TVD (ft): 2308.92, Dogleg (°/100 ft): 0.72, Sensor Depth (ft): 2309.00, Bit To Sensor (ft): 62.00, Temperature (°F): 113.00
Slide Drill	2	08-05	13:21	14:00	08-05	2371.00	2399.00	Pressure On (psi): 1400.00, Pressure Off (psi): 1200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 565.00, Strokes Per Minute: 115, Toolface: 285, Toolface Type: magnetic
Rotary Drill	1	08-05	14:00	15:15	08-05	2399.00	2498.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 14.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-05	15:15	15:25	08-05	2498.00	2498.00	Inclination (°): 3.030, Azimuth (°): 289.060, TVD (ft): 2435.81, Dogleg (°/100 ft): 1.35, Sensor Depth (ft): 2436.00, Bit To Sensor (ft): 62.00, Temperature (°F): 113.00
Slide Drill	2	08-05	15:25	16:20	08-05	2498.00	2561.00	Pressure On (psi): 1520.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 10.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 0, Toolface Type: gravity
Rotary Drill	1	08-05	16:20	17:10	08-05	2561.00	2624.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Rig Service - In Hole	19	08-05	17:10	17:50	08-05			Rig Service
Survey	46	08-05	17:50	17:55	08-05	2624.00	2624.00	Inclination (°): 5.320, Azimuth (°): 301.100, TVD (ft): 2561.47, Dogleg (°/100 ft): 1.94, Sensor Depth (ft): 2562.00, Bit To Sensor (ft): 62.00
Slide Drill	2	08-05	17:55	18:35	08-05	2624.00	2685.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 345, Toolface Type: gravity
Rotary Drill	1	08-05	18:35	20:10	08-05	2685.00	2751.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-05	20:10	20:20	08-05	2751.00	2751.00	Inclination (°): 8.920, Azimuth (°): 290.900, TVD (ft): 2687.47, Dogleg (°/100 ft): 2.99, Sensor Depth (ft): 2689.00, Bit To Sensor (ft): 62.00
Slide Drill	2	08-05	20:20	21:00	08-05	2751.00	2806.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 335, Toolface Type: gravity
Rotary Drill	1	08-05	21:00	22:35	08-05	2806.00	2878.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-05	22:35	22:45	08-05	2878.00	2878.00	Inclination (°): 13.100, Azimuth (°): 283.260, TVD (ft): 2812.11, Dogleg (°/100 ft): 3.48, Sensor Depth (ft): 2816.00, Bit To Sensor (ft): 62.00
Slide Drill	2	08-05	22:45	23:35	08-05	2878.00	2933.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 310, Toolface Type: gravity
Rotary Drill	1	08-05	23:35	01:05	08-06	2933.00	3005.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Thursday, Aug 06 00:00 - 23:59 (Day 3 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	2933.00	Downhole Hours	24.00	Rotating WOB (klbs)	8.00 - 8.00		
Bit Depth (ft)	3828.00	Drilling Hours	19.58	Sliding WOB (klbs)	18.00 - 20.00		
Bottom Hole Depth (ft)	3828.00	Hours Circulating	0.77	Rotating SPM	120.00 - 120.00		
Total Distance (ft)	895.00	Hours Sliding	3.15	Sliding SPM	120.00 - 120.00		
Distance Rotated (ft)	751.00	Hours Rotating	16.43	Motor RPM	85.00 - 96.00		
Distance Slid (ft)	144.00			Surface RPM	60.00 - 60.00		
Inclination In	15.69			Flow Rate (gpm)	589.00 - 589.00		
Inclination Out	17.05			On Bottom Pressure (psi)	1500.00 - 1620.00		
Azimuth In	276.05	% Hours Rotating	84%	Off Bottom Pressure (psi)	1380.00 - 1460.00		
Azimuth Out	260.14	% Hours Sliding	16%				
AVG Total ROP (ft/h)	44.95	% Distance Sliding	16%				
AVG Rotating ROP (ft/h)	44.82	% Distance Rotating	84%				
AVG Sliding ROP (ft/h)	45.71						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	MWD Comments	
Drilling Hours for Day	19.58	Bit Distances		POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Total Drilled for Day (ft)	895.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-05	23:35	01:05	08-06	2933.00	3005.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-06	01:05	01:15	08-06	3005.00	3005.00	Inclination (°): 15.690, Azimuth (°): 276.050, TVD (ft): 2935.13, Dogleg (°/100 ft): 2.48, Sensor Depth (ft): 2943.00, Bit To Sensor (ft): 62.00
Slide Drill	2	08-06	01:15	02:00	08-06	3005.00	3039.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 300, Toolface Type: gravity
Rotary Drill	1	08-06	02:00	04:35	08-06	3039.00	3132.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-06	04:35	04:45	08-06	3132.00	3132.00	Inclination (°): 16.350, Azimuth (°): 267.350, TVD (ft): 3057.21, Dogleg (°/100 ft): 1.96, Sensor Depth (ft): 3070.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-06	04:45	05:00	08-06	3132.00	3142.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Slide Drill	2	08-06	05:00	05:20	08-06	3142.00	3166.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 330, Toolface Type: gravity
Rotary Drill	1	08-06	05:20	05:27	08-06	3166.00	3173.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1380.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Other	16	08-06	05:27	06:32	08-06			Work on shale shakers
Rotary Drill	1	08-06	06:32	07:34	08-06	3173.00	3259.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-06	07:34	07:40	08-06	3259.00	3259.00	Inclination (°): 16.310, Azimuth (°): 267.870, TVD (ft): 3179.09, Dogleg (°/100 ft): 0.12, Sensor Depth (ft): 3197.00, Bit To Sensor (ft): 62.00, Temperature (°F): 123.00
Rotary Drill	1	08-06	07:40	07:50	08-06	3259.00	3269.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Slide Drill	2	08-06	07:50	08:25	08-06	3269.00	3299.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 310, Toolface Type: gravity
Rotary Drill	1	08-06	08:25	09:10	08-06	3299.00	3322.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Rig Service - In Hole	19	08-06	09:10	10:00	08-06			
Rotary Drill	1	08-06	10:00	10:40	08-06	3322.00	3386.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-06	10:40	10:45	08-06	3386.00	3386.00	Inclination (°): 17.010, Azimuth (°): 266.120, TVD (ft): 3300.76, Dogleg (°/100 ft): 0.68, Sensor Depth (ft): 3324.00, Bit To Sensor (ft): 62.00, Temperature (°F): 123.00
Rotary Drill	1	08-06	10:45	10:55	08-06	3386.00	3396.00	Pressure On (psi): 1500.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Slide Drill	2	08-06	10:55	11:25	08-06	3396.00	3426.00	Pressure On (psi): 1620.00, Pressure Off (psi): 1420.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 300, Toolface Type: gravity
Rotary Drill	1	08-06	11:25	12:52	08-06	3426.00	3512.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-06	12:52	13:00	08-06	3512.00	3512.00	Inclination (°): 16.920, Azimuth (°): 263.830, TVD (ft): 3421.27, Dogleg (°/100 ft): 0.54, Sensor Depth (ft): 3450.00, Bit To Sensor (ft): 62.00, Temperature (°F): 123.00
Rotary Drill	1	08-06	13:00	13:50	08-06	3512.00	3543.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Circulating	3	08-06	13:50	13:56	08-06			Check Shot Survey
Slide Drill	2	08-06	13:56	14:55	08-06	3543.00	3569.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120, Toolface: 300, Toolface Type: gravity
Rotary Drill	1	08-06	14:55	16:35	08-06	3569.00	3639.00	TF @ 50-90L Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Circulating	3	08-06	16:35	17:15	08-06			Work on gen & shale shaker
Survey	46	08-06	17:15	17:20	08-06	3639.00	3639.00	Inclination (°): 17.140, Azimuth (°): 260.760, TVD (ft): 3542.71, Dogleg (°/100 ft): 0.73, Sensor Depth (ft): 3577.00, Bit To Sensor (ft): 62.00, Temperature (°F): 123.00
Rotary Drill	1	08-06	17:20	20:10	08-06	3639.00	3766.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00

Survey	46	08-06	20:10	20:20	08-06	3766.00	3766.00	Inclination (°): <i>17.050</i> , Azimuth (°): <i>260.140</i> , TVD (ft): <i>3664.10</i> , Dogleg (°/100 ft): <i>0.16</i> , Sensor Depth (ft): <i>3704.00</i> , Bit To Sensor (ft): <i>62.00</i>
Rotary Drill	1	08-06	20:20	22:45	08-06	3766.00	3828.00	Pressure On (psi): <i>1560.00</i> , Pressure Off (psi): <i>1460.00</i> , Weight On Bit (klbs): <i>8.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>7400.00</i> , Flow Rate (gpm): <i>589.00</i> , Strokes Per Minute: <i>120.00</i>
Other	16	08-06	22:45	23:50	08-06			Work on Shakers
Rotary Drill	1	08-06	23:50	01:35	08-07	3828.00	3892.00	Pressure On (psi): <i>1560.00</i> , Pressure Off (psi): <i>1460.00</i> , Weight On Bit (klbs): <i>9.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>7400.00</i> , Flow Rate (gpm): <i>589.00</i> , Strokes Per Minute: <i>120.00</i>

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Friday, Aug 07 00:00 - 23:59 (Day 4 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	3828.00	Downhole Hours	24.00	Rotating WOB (klbs)	9.00 - 11.00
Bit Depth (ft)	4409.00	Drilling Hours	12.70	Sliding WOB (klbs)	20.00 - 20.00
Bottom Hole Depth (ft)	4409.00	Hours Circulating	4.67	Rotating SPM	120.00 - 121.00
Total Distance (ft)	581.00	Hours Sliding	1.17	Sliding SPM	134.00 - 134.00
Distance Rotated (ft)	551.00	Hours Rotating	11.53	Motor RPM	85.00 - 96.00
Distance Slid (ft)	30.00			Surface RPM	60.00 - 60.00
Inclination In	17.32			Flow Rate (gpm)	589.00 - 625.00
Inclination Out	15.65			On Bottom Pressure (psi)	1560.00 - 1950.00
Azimuth In	260.67	% Hours Rotating	91%	Off Bottom Pressure (psi)	1460.00 - 2000.00
Azimuth Out	263.92	% Hours Sliding	9%		
AVG Total ROP (ft/h)	45.75	% Distance Sliding	5%		
AVG Rotating ROP (ft/h)	47.77	% Distance Rotating	95%		
AVG Sliding ROP (ft/h)	25.71				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	MWD Comments Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Drilling Hours for Day	12.70	Bit Distances			
Total Drilled for Day (ft)	581.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-06	23:50	01:35	08-07	3828.00	3892.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 9.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Survey	46	08-07	01:35	01:45	08-07	3892.00	3892.00	Inclination (°): 17.320, Azimuth (°): 260.670, TVD (ft): 3784.47, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 3830.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-07	01:45	02:45	08-07	3892.00	3922.00	Pressure On (psi): 1560.00, Pressure Off (psi): 1460.00, Weight On Bit (klbs): 9.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 589.00, Strokes Per Minute: 120.00
Circulating	3	08-07	02:45	05:00	08-07			Working on Top Drive Motor
Circulating	3	08-07	05:00	06:00	08-07			Circulate / Build Slug
Pooh	7	08-07	06:00	07:30	08-07			POOH TO CSG. SHOE FOR RIG REPAIRS
Other	16	08-07	07:30	10:30	08-07			Rig Repairs & Slip & cut drill line
TIH	8	08-07	10:30	12:00	08-07			TIH Back to bottom
Circulating	3	08-07	12:00	13:00	08-07			
Rotary Drill	1	08-07	13:00	15:40	08-07	3922.00	4019.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-07	15:40	15:49	08-07	4019.00	4019.00	Inclination (°): 17.670, Azimuth (°): 262.070, TVD (ft): 3905.60, Dogleg (°/100 ft): 0.43, Sensor Depth (ft): 3957.00, Bit To Sensor (ft): 62.00, Temperature (°F): 140.00
Rotary Drill	1	08-07	15:49	17:25	08-07	4019.00	4145.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-07	17:25	17:34	08-07	4145.00	4145.00	Inclination (°): 17.140, Azimuth (°): 262.780, TVD (ft): 4025.83, Dogleg (°/100 ft): 0.45, Sensor Depth (ft): 4083.00, Bit To Sensor (ft): 62.00, Temperature (°F): 140.00
Rotary Drill	1	08-07	17:34	19:40	08-07	4145.00	4272.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-07	19:40	19:45	08-07	4272.00	4272.00	Inclination (°): 15.960, Azimuth (°): 265.060, TVD (ft): 4147.57, Dogleg (°/100 ft): 1.06, Sensor Depth (ft): 4210.00, Bit To Sensor (ft): 62.00
Circulating	3	08-07	19:45	20:10	08-07			Work on Top Drive
Rotary Drill	1	08-07	20:10	20:20	08-07	4272.00	4279.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Slide Drill	2	08-07	20:20	21:30	08-07	4279.00	4309.00	Pressure On (psi): 1950.00, Pressure Off (psi): 2000.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 625.00, Strokes Per Minute: 134, Toolface: 315, Toolface Type: gravity
Rotary Drill	1	08-07	21:30	23:30	08-07	4309.00	4399.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-07	23:30	23:45	08-07	4399.00	4399.00	Inclination (°): 15.650, Azimuth (°): 263.920, TVD (ft): 4269.77, Dogleg (°/100 ft): 0.35, Sensor Depth (ft): 4337.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-07	23:45	00:00	08-08	4399.00	4409.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Saturday, Aug 08 00:00 - 23:59 (Day 5 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	4409.00	Downhole Hours	24.00	Rotating WOB (klbs)	11.00 - 11.00
Bit Depth (ft)	5286.00	Drilling Hours	22.13	Sliding WOB (klbs)	20.00 - 20.00
Bottom Hole Depth (ft)	5286.00	Hours Circulating	0.00	Rotating SPM	121.00 - 128.00
Total Distance (ft)	877.00	Hours Sliding	1.92	Sliding SPM	134.00 - 134.00
Distance Rotated (ft)	802.00	Hours Rotating	20.22	Motor RPM	85.00 - 96.00
Distance Slid (ft)	75.00			Surface RPM	60.00 - 60.00
Inclination In	16.62			Flow Rate (gpm)	595.00 - 629.00
Inclination Out	18.59			On Bottom Pressure (psi)	1900.00 - 2160.00
Azimuth In	263.48	% Hours Rotating	91%	Off Bottom Pressure (psi)	1800.00 - 2000.00
Azimuth Out	262.60	% Hours Sliding	9%		
AVG Total ROP (ft/h)	39.43	% Distance Sliding	9%		
AVG Rotating ROP (ft/h)	39.45	% Distance Rotating	91%		
AVG Sliding ROP (ft/h)	39.13				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836
Vendor	DB Bits	Lobe/Stage	7/8, 4.0	
S/N	D3912	Bend Angle	1.83	
Nozzles	8	Speed (rev/gal)	0.15	
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	MWD Comments
Drilling Hours for Day	22.13	Bit Distances		POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.
Total Drilled for Day (ft)	877.00	Bend (Bit To Bend): 6.35 ft,		
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft		
Total Drilled for BHA (ft)	5119.00			

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-07	23:45	00:00	08-08	4399.00	4409.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Slide Drill	2	08-08	00:00	01:00	08-08	4409.00	4449.00	Pressure On (psi): 1950.00, Pressure Off (psi): 2000.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 625.00, Strokes Per Minute: 134, Toolface: 330, Toolface Type: gravity
Rotary Drill	1	08-08	01:00	02:55	08-08	4449.00	4524.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-08	02:55	03:05	08-08	4524.00	4524.00	Inclination (°): 16.620, Azimuth (°): 263.480, TVD (ft): 4389.84, Dogleg (°/100 ft): 0.78, Sensor Depth (ft): 4462.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-08	03:05	03:25	08-08	4524.00	4534.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Slide Drill	2	08-08	03:25	04:20	08-08	4534.00	4569.00	Pressure On (psi): 1950.00, Pressure Off (psi): 2000.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 625.00, Strokes Per Minute: 134, Toolface: 340, Toolface Type: gravity
Rotary Drill	1	08-08	04:20	07:15	08-08	4569.00	4651.00	Pressure On (psi): 1900.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 7400.00, Flow Rate (gpm): 595.00, Strokes Per Minute: 121.00
Survey	46	08-08	07:15	07:25	08-08	4651.00	4651.00	Inclination (°): 18.420, Azimuth (°): 262.600, TVD (ft): 4510.94, Dogleg (°/100 ft): 1.43, Sensor Depth (ft): 4589.00, Bit To Sensor (ft): 62.00, Temperature (°F): 154.00
Rotary Drill	1	08-08	07:25	10:30	08-08	4651.00	4778.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-08	10:30	10:37	08-08	4778.00	4778.00	Inclination (°): 18.860, Azimuth (°): 262.870, TVD (ft): 4631.28, Dogleg (°/100 ft): 0.35, Sensor Depth (ft): 4716.00, Bit To Sensor (ft): 62.00, Temperature (°F): 156.00
Rotary Drill	1	08-08	10:37	12:15	08-08	4778.00	4905.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-08	12:15	12:25	08-08	4905.00	4905.00	Inclination (°): 18.860, Azimuth (°): 262.430, TVD (ft): 4751.46, Dogleg (°/100 ft): 0.11, Sensor Depth (ft): 4843.00, Bit To Sensor (ft): 62.00, Temperature (°F): 156.00
Rotary Drill	1	08-08	12:25	16:15	08-08	4905.00	5032.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-08	16:15	16:25	08-08	5032.00	5032.00	Inclination (°): 18.590, Azimuth (°): 262.600, TVD (ft): 4871.74, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 4970.00, Bit To Sensor (ft): 62.00, Temperature (°F): 156.00
Rotary Drill	1	08-08	16:25	19:30	08-08	5032.00	5159.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-08	19:30	19:40	08-08	5159.00	5159.00	Inclination (°): 18.240, Azimuth (°): 261.990, TVD (ft): 4992.24, Dogleg (°/100 ft): 0.31, Sensor Depth (ft): 5097.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-08	19:40	23:05	08-08	5159.00	5286.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-08	23:05	23:15	08-08	5286.00	5286.00	Inclination (°): 18.590, Azimuth (°): 262.600, TVD (ft): 5112.74, Dogleg (°/100 ft): 0.31, Sensor Depth (ft): 5224.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-08	23:15	02:35	08-09	5286.00	5413.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Sunday, Aug 09 00:00 - 23:59 (Day 6 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	5286.00	Downhole Hours	24.00	Rotating WOB (klbs)	11.00 - 11.00
Bit Depth (ft)	6299.00	Drilling Hours	21.87	Sliding WOB (klbs)	14.00 - 14.00
Bottom Hole Depth (ft)	6299.00	Hours Circulating	0.00	Rotating SPM	118.00 - 130.00
Total Distance (ft)	1013.00	Hours Sliding	1.25	Sliding SPM	118.00 - 118.00
Distance Rotated (ft)	991.00	Hours Rotating	20.62	Motor RPM	85.00 - 96.00
Distance Slid (ft)	22.00			Surface RPM	60.00 - 65.00
Inclination In	18.86			Flow Rate (gpm)	580.00 - 639.00
Inclination Out	16.70			On Bottom Pressure (psi)	2010.00 - 2550.00
Azimuth In	262.95 %	Hours Rotating	94%	Off Bottom Pressure (psi)	1940.00 - 2340.00
Azimuth Out	263.48 %	Hours Sliding	6%		
AVG Total ROP (ft/h)	44.50 %	Distance Sliding	2%		
AVG Rotating ROP (ft/h)	45.88 %	Distance Rotating	98%		
AVG Sliding ROP (ft/h)	17.60				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	MWD Comments Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Drilling Hours for Day	21.87	Bit Distances			
Total Drilled for Day (ft)	1013.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-08	23:15	02:35	08-09	5286.00	5413.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-09	02:35	02:45	08-09	5413.00	5413.00	Inclination (°): 18.860, Azimuth (°): 262.950, TVD (ft): 5233.01, Dogleg (°/100 ft): 0.23, Sensor Depth (ft): 5351.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-09	02:45	06:05	08-09	5413.00	5540.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-09	06:05	06:15	08-09	5540.00	5540.00	Inclination (°): 18.730, Azimuth (°): 263.740, TVD (ft): 5353.24, Dogleg (°/100 ft): 0.23, Sensor Depth (ft): 5478.00, Bit To Sensor (ft): 62.00, Temperature (°F): 167.00
Rotary Drill	1	08-09	06:15	07:45	08-09	5540.00	5666.00	Pressure On (psi): 2160.00, Pressure Off (psi): 1960.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 629.00, Strokes Per Minute: 128.00
Survey	46	08-09	07:45	08:00	08-09	5666.00	5666.00	Inclination (°): 18.200, Azimuth (°): 264.010, TVD (ft): 5472.75, Dogleg (°/100 ft): 0.43, Sensor Depth (ft): 5604.00, Bit To Sensor (ft): 62.00, Temperature (°F): 167.00
Rotary Drill	1	08-09	08:00	09:25	08-09	5666.00	5793.00	Pressure On (psi): 2550.00, Pressure Off (psi): 2340.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 639.00, Strokes Per Minute: 130.00
Survey	46	08-09	09:25	09:30	08-09	5793.00	5793.00	Inclination (°): 17.630, Azimuth (°): 264.100, TVD (ft): 5593.60, Dogleg (°/100 ft): 0.45, Sensor Depth (ft): 5731.00, Bit To Sensor (ft): 62.00, Temperature (°F): 167.00
Rig Service - In Hole	19	08-09	09:30	10:00	08-09			
Rotary Drill	1	08-09	10:00	13:00	08-09	5793.00	5920.00	Pressure On (psi): 2550.00, Pressure Off (psi): 2340.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 639.00, Strokes Per Minute: 130.00
Survey	46	08-09	13:00	13:10	08-09	5920.00	5920.00	Inclination (°): 17.320, Azimuth (°): 264.800, TVD (ft): 5714.73, Dogleg (°/100 ft): 0.29, Sensor Depth (ft): 5858.00, Bit To Sensor (ft): 62.00, Temperature (°F): 167.00
Rotary Drill	1	08-09	13:10	14:36	08-09	5920.00	6046.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-09	14:36	14:49	08-09	6046.00	6046.00	Inclination (°): 17.230, Azimuth (°): 265.330, TVD (ft): 5835.05, Dogleg (°/100 ft): 0.14, Sensor Depth (ft): 5984.00, Bit To Sensor (ft): 62.00, Temperature (°F): 167.00
Rotary Drill	1	08-09	14:49	15:00	08-09	6046.00	6051.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Slide Drill	2	08-09	15:00	16:15	08-09	6051.00	6073.00	Pressure On (psi): 2010.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 14.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118, Toolface: 240, Toolface Type: gravity TF @ 90-150L
Rotary Drill	1	08-09	16:15	19:35	08-09	6073.00	6173.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-09	19:35	19:50	08-09	6173.00	6173.00	Inclination (°): 16.570, Azimuth (°): 263.480, TVD (ft): 5956.57, Dogleg (°/100 ft): 0.67, Sensor Depth (ft): 6111.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-09	19:50	22:55	08-09	6173.00	6299.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-09	22:55	23:05	08-09	6299.00	6299.00	Inclination (°): 16.700, Azimuth (°): 263.480, TVD (ft): 6077.29, Dogleg (°/100 ft): 0.10, Sensor Depth (ft): 6237.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-09	23:05	02:50	08-10	6299.00	6426.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Monday, Aug 10 00:00 - 23:59 (Day 7 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	6299.00	Downhole Hours	24.00	Rotating WOB (klbs)	11.00 - 11.00
Bit Depth (ft)	6970.00	Drilling Hours	22.70	Sliding WOB (klbs)	252.00 - 252.00
Bottom Hole Depth (ft)	6970.00	Hours Circulating	0.00	Rotating SPM	118.00 - 119.00
Total Distance (ft)	671.00	Hours Sliding	1.33	Sliding SPM	120.00 - 120.00
Distance Rotated (ft)	644.00	Hours Rotating	21.37	Motor RPM	85.00 - 96.00
Distance Slid (ft)	27.00			Surface RPM	60.00 - 70.00
Inclination In	16.57			Flow Rate (gpm)	580.00 - 590.00
Inclination Out	16.70			On Bottom Pressure (psi)	2040.00 - 2300.00
Azimuth In	262.95 %	Hours Rotating	94%	Off Bottom Pressure (psi)	1940.00 - 2250.00
Azimuth Out	260.84 %	Hours Sliding	6%		
AVG Total ROP (ft/h)	26.71 %	Distance Sliding	4%		
AVG Rotating ROP (ft/h)	27.03 %	Distance Rotating	96%		
AVG Sliding ROP (ft/h)	20.25				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	MWD Comments Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Drilling Hours for Day	22.70	Bit Distances			
Total Drilled for Day (ft)	671.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-09	23:05	02:50	08-10	6299.00	6426.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-10	02:50	03:00	08-10	6426.00	6426.00	Inclination (°): 16.570, Azimuth (°): 262.950, TVD (ft): 6198.98, Dogleg (°/100 ft): 0.16, Sensor Depth (ft): 6364.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-10	03:00	07:20	08-10	6426.00	6553.00	Pressure On (psi): 2040.00, Pressure Off (psi): 1940.00, Weight On Bit (klbs): 11.00, Surface RPM: 65, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-10	07:20	07:28	08-10	6553.00	6553.00	Inclination (°): 16.530, Azimuth (°): 262.160, TVD (ft): 6320.72, Dogleg (°/100 ft): 0.18, Sensor Depth (ft): 6491.00, Bit To Sensor (ft): 62.00, Temperature (°F): 165.69
Rotary Drill	1	08-10	07:28	09:00	08-10	6553.00	6616.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 70, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Rig Service - In Hole	19	08-10	09:00	09:30	08-10			
Rotary Drill	1	08-10	09:30	11:15	08-10	6616.00	6679.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 70, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Survey	46	08-10	11:15	11:25	08-10	6679.00	6679.00	Inclination (°): 16.480, Azimuth (°): 261.810, TVD (ft): 6441.52, Dogleg (°/100 ft): 0.09, Sensor Depth (ft): 6617.00, Bit To Sensor (ft): 62.00, Temperature (°F): 165.69
Rotary Drill	1	08-10	11:25	15:50	08-10	6679.00	6806.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Survey	46	08-10	15:50	15:55	08-10	6806.00	6806.00	Inclination (°): 16.570, Azimuth (°): 261.720, TVD (ft): 6563.28, Dogleg (°/100 ft): 0.07, Sensor Depth (ft): 6744.00, Bit To Sensor (ft): 62.00, Temperature (°F): 165.69
Rotary Drill	1	08-10	15:55	21:00	08-10	6806.00	6933.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Survey	46	08-10	21:00	21:10	08-10	6933.00	6933.00	Inclination (°): 16.700, Azimuth (°): 260.840, TVD (ft): 6684.96, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 6871.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-10	21:10	21:40	08-10	6933.00	6943.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Slide Drill	2	08-10	21:40	23:00	08-10	6943.00	6970.00	Pressure On (psi): 2300.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 252.00, Flow Rate (gpm): 590.00, Strokes Per Minute: 120, Toolface: 90, Toolface Type: gravity
Rotary Drill	1	08-10	23:00	04:45	08-11	6970.00	7059.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Tuesday, Aug 11 00:00 - 23:59 (Day 8 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	6970.00	Downhole Hours	24.00	Rotating WOB (klbs)	11.00 - 11.00		
Bit Depth (ft)	7148.00	Drilling Hours	9.33	Sliding WOB (klbs)			
Bottom Hole Depth (ft)	7148.00	Hours Circulating	1.83	Rotating SPM	119.00 - 119.00		
Total Distance (ft)	178.00	Hours Sliding	0.00	Sliding SPM			
Distance Rotated (ft)	178.00	Hours Rotating	9.33	Motor RPM	85.00 - 96.00		
Distance Slid (ft)	0.00			Surface RPM	60.00 - 60.00		
Inclination In	16.84			Flow Rate (gpm)	585.00 - 585.00		
Inclination Out	16.84			On Bottom Pressure (psi)	2250.00 - 2250.00		
Azimuth In	262.87	% Hours Rotating	100%	Off Bottom Pressure (psi)	2150.00 - 2150.00		
Azimuth Out	262.87	% Hours Sliding	0%				
AVG Total ROP (ft/h)	19.07	% Distance Sliding	0%				
AVG Rotating ROP (ft/h)	19.07	% Distance Rotating	100%				
AVG Sliding ROP (ft/h)	0.00						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	MWD Comments	
Drilling Hours for Day	9.33	Bit Distances		POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Total Drilled for Day (ft)	178.00	Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-10	23:00	04:45	08-11	6970.00	7059.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Survey	46	08-11	04:45	04:55	08-11	7059.00	7059.00	Inclination (°): 16.840, Azimuth (°): 262.870, TVD (ft): 6805.61, Dogleg (°/100 ft): 0.48, Sensor Depth (ft): 6997.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-11	04:55	08:30	08-11	7059.00	7148.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2150.00, Weight On Bit (klbs): 11.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 585.00, Strokes Per Minute: 119.00
Circulating	3	08-11	08:30	10:20	08-11			Circ. condition hole for trip
Pooh	7	08-11	10:20	16:00	08-11			POOH due to low ROP
Work Pipe	18	08-11	16:00	18:50	08-11			Work tight hole 3000-2694
Pooh	7	08-11	18:50	19:55	08-11			Cont' POOH to Casing Shoe
Rig Repair	14	08-11	19:55	21:30	08-11			W/O Top Drive Bells
Pooh	7	08-11	21:30	00:00	08-12			POOH

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Wednesday, Aug 12 00:00 - 23:59 (Day 9 of 19)

Billing: \$9,800.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	7148.00	Downhole Hours	23.50	Rotating WOB (klbs)	10.00 - 10.00		
Bit Depth (ft)	7185.00	Drilling Hours	4.00	Sliding WOB (klbs)			
Bottom Hole Depth (ft)	7185.00	Hours Circulating	3.42	Rotating SPM	117.00 - 117.00		
Total Distance (ft)	37.00	Hours Sliding	0.00	Sliding SPM			
Distance Rotated (ft)	37.00	Hours Rotating	4.00	Motor RPM	81.00 - 96.00		
Distance Slid (ft)	0.00			Surface RPM	60.00 - 60.00		
Inclination In	16.22			Flow Rate (gpm)	575.00 - 575.00		
Inclination Out	16.22			On Bottom Pressure (psi)	2350.00 - 2350.00		
Azimuth In	262.60	% Hours Rotating	100%	Off Bottom Pressure (psi)	2250.00 - 2250.00		
Azimuth Out	262.60	% Hours Sliding	0%				
AVG Total ROP (ft/h)	10.74	% Distance Sliding	0%				
AVG Rotating ROP (ft/h)	10.74	% Distance Rotating	100%				
AVG Sliding ROP (ft/h)	0.00						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #1 - BHA #1

Date In: Aug 5, 2020, 1:00 Date Out: Aug 12, 2020, 1:30

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: DB Bits, S5516X4, SN: D3912 , Jets 8x12's, TFA: .8836	
Vendor	DB Bits	Lobe/Stage	7/8, 4.0		
S/N	D3912	Bend Angle	1.83		
Nozzles	8	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.884	Wear Pad OD (in)	8.375	MWD Comments	
Drilling Hours for Day	0.00	Bit Distances		POOH Reason Penetration Rate: TOH do to Low ROP, TOH to Inspect BHA at surface found bit was packed off. No visible problems with motor or BHA tubulars. Motor mandrel with possible 1/8" + vertical movement. Bit @ 1&2.	
Total Drilled for Day (ft)		Bend (Bit To Bend): 6.35 ft,			
Drilling Hours for BHA	121.38	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	5119.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit 12 1/4", Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	DB Bits	D3912	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>8" 7/8 4.0 1.83 FBH 11 3/4 Stab, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-007	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.76	31.76
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.36
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.97
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.94
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	103.10
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.49
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.40
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.28
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.48
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.68

MWD Items		
No Items		
BHA #2 - BHA no. 2		Date In: Aug 12, 2020, 2:00 Date Out: Aug 15, 2020, 23:00
Bit Details	Motor Details	Directional Comments
OD (in) 12.250	Size (in) 8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850
Vendor Smith	Lobe/Stage 7/8, 4.0	
S/N 8675309	Bend Angle 1.83	
Nozzles 5x12's 2x14's	Speed (rev/gal) 0.15	
Total Flow Area (in ²) 0.850	Wear Pad OD (in) 8.375	MWD Comments
Drilling Hours for Day 4.00	Bit Distances	POOH Reason Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.
Total Drilled for Day (ft) 37.00	Bend (Bit To Bend): 6.15 ft,	
Drilling Hours for BHA 35.12	Survey (Bit To Survey): 62.00 ft	
Total Drilled for BHA (ft) 752.00		

Directional Items									
Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Smith 1 1/4" HC505, Style: PDC, Gauge Length (in): 3.00, Size (in): 12.25</i>	Smith	8675309	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>Motor, 8" 7/8 4.0, FBH @ 1.83°, 1 1/4" UBHS, Size (in): 8.00, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 4</i>	Aim	800-40-015	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.64	31.64
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.24
UBHO Sub Description: <i>UBHO, Type: Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.85
Drill Collar Description: <i>NM Monel (MWD), Style: Slick Drill, Type: NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.82
Drill Collar Description: <i>NM Monel (Spacer), Style: Slick Drill, Type: NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	102.98
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P, Type: Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.37
Drill Collar Description: <i>6.5" DC (4 DC), Style: Spiral Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.28
HWDP Description: <i>4.5" HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.16
Jars Description: <i>Drilling Jars, Size (in): 6.25, Type: Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.36
HWDP Description: <i>4.5" HWDP (5 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.56

MWD Items									
No Items									
Directional Activities									
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details	
Pooh	7	08-11	21:30	00:00	08-12			POOH	
Pooh	7	08-12	00:00	01:30	08-12			L/D BHA #1 (C/O Bit, Motor, MWD Tool, UBHO Sleeve)	
Other	16	08-12	01:30	02:00	08-12			Clean Rig Floor	
Change BHA	6	08-12	02:00	04:00	08-12			P/U BHA # 2 (Bit, Motor, MWD Tool)	
Circulating	3	08-12	04:00	04:25	08-12			Shallow Test Tools	
TIH	8	08-12	04:25	09:30	08-12			TIH to 3700, W&R as needed	
Circulating	3	08-12	09:30	10:20	08-12			Circ. Btm's up	
TIH	8	08-12	10:20	16:50	08-12			TIH W/ BHA #2, W&R as needed	
Circulating	3	08-12	16:50	19:00	08-12			Circulate BTU	
Rotary Drill	1	08-12	19:00	23:00	08-12	7148.00	7185.00	Pressure On (psi): 2350.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 575.00, Strokes Per Minute: 117.00	
Survey	46	08-12	23:00	23:10	08-12	7185.00	7185.00	Inclination (°): 16.220, Azimuth (°): 262.600, TVD (ft): 6926.40, Dogleg (°/100 ft): 0.50, Sensor Depth (ft): 7123.00, Bit To Sensor (ft): 62.00	
Rotary Drill	1	08-12	23:10	09:30	08-13	7185.00	7302.00	Pressure On (psi): 2350.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 575.00, Strokes Per Minute: 117.00	

MWD Activities									
No Activities									



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Thursday, Aug 13 00:00 - 23:59 (Day 10 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	7185.00	Downhole Hours	24.00	Rotating WOB (klbs)	10.00 - 10.00		
Bit Depth (ft)	7565.00	Drilling Hours	18.37	Sliding WOB (klbs)			
Bottom Hole Depth (ft)	7565.00	Hours Circulating	0.00	Rotating SPM	117.00 - 118.00		
Total Distance (ft)	380.00	Hours Sliding	0.00	Sliding SPM			
Distance Rotated (ft)	380.00	Hours Rotating	18.37	Motor RPM	81.00 - 87.00		
Distance Slid (ft)	0.00			Surface RPM	60.00 - 60.00		
Inclination In	16.31			Flow Rate (gpm)	575.00 - 580.00		
Inclination Out	16.40			On Bottom Pressure (psi)	2350.00 - 2400.00		
Azimuth In	261.99	% Hours Rotating	100%	Off Bottom Pressure (psi)	2250.00 - 2300.00		
Azimuth Out	261.90	% Hours Sliding	0%				
AVG Total ROP (ft/h)	20.63	% Distance Sliding	0%				
AVG Rotating ROP (ft/h)	20.63	% Distance Rotating	100%				
AVG Sliding ROP (ft/h)	0.00						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #2 - BHA no. 2

Date In: Aug 12, 2020, 2:00 Date Out: Aug 15, 2020, 23:00

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850	
Vendor	Smith	Lobe/Stage	7/8, 4.0		
S/N	8675309	Bend Angle	1.83		
Nozzles	5x12's 2x14's	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.850	Wear Pad OD (in)	8.375		
Drilling Hours for Day	18.37	Bit Distances		MWD Comments	
Total Drilled for Day (ft)	380.00	Bend (Bit To Bend): 6.15 ft,			
Drilling Hours for BHA	35.12	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	752.00			POOH Reason	
				Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.	

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Smith 1 1/4" HC505</i> , Style: <i>PDC</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>12.25</i>	Smith	8675309	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>Motor, 8" 7/8 4.0, FBH @ 1.83°, 1 1/4" UBHS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.83</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>4</i>	Aim	800-40-015	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.64	31.64
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.24
UBHO Sub Description: <i>UBHO</i> , Type: <i>Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.85
Drill Collar Description: <i>NM Monel (MWD)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.82
Drill Collar Description: <i>NM Monel (Spacer)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	102.98
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P</i> , Type: <i>Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.37
Drill Collar Description: <i>6.5" DC (4 DC)</i> , Style: <i>Spiral Drill</i> , Type: <i>Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.28
HWDP Description: <i>4.5 " HWDP (10 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.16
Jars Description: <i>Drilling Jars</i> , Size (in): <i>6.25</i> , Type: <i>Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.36
HWDP Description: <i>4.5" HWDP (5 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.56

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-12	23:10	09:30	08-13	7185.00	7302.00	Pressure On (psi): 2350.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 575.00, Strokes Per Minute: 117.00
Other	16	08-13	09:30	10:53	08-13			Work on pumps
Rotary Drill	1	08-13	10:53	11:15	08-13	7302.00	7311.00	Pressure On (psi): 2350.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 575.00, Strokes Per Minute: 117.00
Survey	46	08-13	11:15	11:30	08-13	7311.00	7311.00	Inclination (°): 16.310, Azimuth (°): 261.990, TVD (ft): 7047.36, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 7249.00, Bit To Sensor (ft): 62.00, Temperature (°F): 158.00
Rotary Drill	1	08-13	11:30	14:30	08-13	7311.00	7374.00	Pressure On (psi): 2350.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 575.00, Strokes Per Minute: 117.00
Rig Service - In Hole	19	08-13	14:30	15:00	08-13			
Rotary Drill	1	08-13	15:00	16:25	08-13	7374.00	7438.00	Pressure On (psi): 2400.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-13	16:25	16:35	08-13	7438.00	7438.00	Inclination (°): 16.350, Azimuth (°): 262.250, TVD (ft): 7169.23, Dogleg (°/100 ft): 0.07, Sensor Depth (ft): 7376.00, Bit To Sensor (ft): 62.00, Temperature (°F): 158.00
Rotary Drill	1	08-13	16:35	19:50	08-13	7438.00	7565.00	Pressure On (psi): 2400.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 10.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 580.00, Strokes Per Minute: 118.00
Survey	46	08-13	19:50	20:00	08-13	7565.00	7565.00	Inclination (°): 16.400, Azimuth (°): 261.900, TVD (ft): 7291.08, Dogleg (°/100 ft): 0.09, Sensor Depth (ft): 7503.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-13	20:00	02:10	08-14	7565.00	7691.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2200.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 541.00, Strokes Per Minute: 109.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Friday, Aug 14 00:00 - 23:59 (Day 11 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	7565.00	Downhole Hours	24.00	Rotating WOB (klbs)	8.00 - 8.00		
Bit Depth (ft)	7900.00	Drilling Hours	12.75	Sliding WOB (klbs)			
Bottom Hole Depth (ft)	7900.00	Hours Circulating	7.67	Rotating SPM	109.00 - 109.00		
Total Distance (ft)	335.00	Hours Sliding	0.00	Sliding SPM			
Distance Rotated (ft)	335.00	Hours Rotating	12.75	Motor RPM	81.00 - 87.00		
Distance Slid (ft)	0.00			Surface RPM	60.00 - 60.00		
Inclination In	16.09			Flow Rate (gpm)	541.00 - 541.00		
Inclination Out	15.34			On Bottom Pressure (psi)	2250.00 - 2250.00		
Azimuth In	261.81	% Hours Rotating	100%	Off Bottom Pressure (psi)	2200.00 - 2200.00		
Azimuth Out	261.46	% Hours Sliding	0%				
AVG Total ROP (ft/h)	26.27	% Distance Sliding	0%				
AVG Rotating ROP (ft/h)	26.27	% Distance Rotating	100%				
AVG Sliding ROP (ft/h)	0.00						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #2 - BHA no. 2

Date In: Aug 12, 2020, 2:00 Date Out: Aug 15, 2020, 23:00

Bit Details		Motor Details		Directional Comments	
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850	
Vendor	Smith	Lobe/Stage	7/8, 4.0		
S/N	8675309	Bend Angle	1.83		
Nozzles	5x12's 2x14's	Speed (rev/gal)	0.15		
Total Flow Area (in²)	0.850	Wear Pad OD (in)	8.375	MWD Comments	
Drilling Hours for Day	12.75	Bit Distances		POOH Reason Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.	
Total Drilled for Day (ft)	335.00	Bend (Bit To Bend): 6.15 ft,			
Drilling Hours for BHA	35.12	Survey (Bit To Survey): 62.00 ft			
Total Drilled for BHA (ft)	752.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Smith 1 3/4" HC505</i> , Style: <i>PDC</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>12.25</i>	Smith	8675309	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>Motor, 8" 7/8 4.0, FBH @ 1.83°, 1 1/4" UBHS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.83</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>4</i>	Aim	800-40-015	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.64	31.64
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.24
UBHO Sub Description: <i>UBHO</i> , Type: <i>Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.85
Drill Collar Description: <i>NM Monel (MWD)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.82
Drill Collar Description: <i>NM Monel (Spacer)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	102.98
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P</i> , Type: <i>Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.37
Drill Collar Description: <i>6.5" DC (4 DC)</i> , Style: <i>Spiral Drill</i> , Type: <i>Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.28
HWDP Description: <i>4.5 " HWDP (10 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.16
Jars Description: <i>Drilling Jars</i> , Size (in): <i>6.25</i> , Type: <i>Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.36
HWDP Description: <i>4.5" HWDP (5 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.56

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-13	20:00	02:10	08-14	7565.00	7691.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2200.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 541.00, Strokes Per Minute: 109.00
Survey	46	08-14	02:10	02:20	08-14	7691.00	7691.00	Inclination (°): 16.090, Azimuth (°): 261.810, TVD (ft): 7412.05, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 7629.00, Bit To Sensor (ft): 62.00
Rotary Drill	1	08-14	02:20	04:20	08-14	7691.00	7753.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2200.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 541.00, Strokes Per Minute: 109.00
Circulating	3	08-14	04:20	07:45	08-14			Circulate & Condition Mud
Rotary Drill	1	08-14	07:45	09:30	08-14	7753.00	7817.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2200.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 541.00, Strokes Per Minute: 109.00
Survey	46	08-14	09:30	09:40	08-14	7817.00	7817.00	Inclination (°): 15.600, Azimuth (°): 262.070, TVD (ft): 7533.26, Dogleg (°/100 ft): 0.39, Sensor Depth (ft): 7755.00, Bit To Sensor (ft): 62.00, Temperature (°F): 163.69
Rotary Drill	1	08-14	09:40	12:30	08-14	7817.00	7900.00	Pressure On (psi): 2250.00, Pressure Off (psi): 2200.00, Weight On Bit (klbs): 8.00, Surface RPM: 60, Surface Torque (ft lbf): 8400.00, Flow Rate (gpm): 541.00, Strokes Per Minute: 109.00
Survey	46	08-14	12:30	12:35	08-14	7900.00	7900.00	Inclination (°): 15.340, Azimuth (°): 261.460, TVD (ft): 7613.25, Dogleg (°/100 ft): 0.37, Sensor Depth (ft): 7838.00, Bit To Sensor (ft): 62.00, Temperature (°F): 163.69
Circulating	3	08-14	12:35	15:00	08-14			Condition hole for trip.
Pooh	7	08-14	15:00	20:40	08-14			POOH to L/D Dir. Tools
Circulating	3	08-14	20:40	22:30	08-14			Work Pipe, Tight @ 2780'

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Saturday, Aug 15 00:00 - 23:59 (Day 12 of 19)

Billing: \$5,900.00 (\$125,268.00 total)

Drilling Summary		Drilling Parameters	
Start Depth (ft)		Downhole Hours	23.00
Bit Depth (ft)		Drilling Hours	0.00
Bottom Hole Depth (ft)		Hours Circulating	0.92
Total Distance (ft)	0.00	Hours Sliding	0.00
Distance Rotated (ft)	0.00	Hours Rotating	0.00
Distance Slid (ft)	0.00	Motor RPM	81.00 - 87.00
Inclination In		Surface RPM	
Inclination Out		Flow Rate (gpm)	
Azimuth In		On Bottom Pressure (psi)	
Azimuth Out		Off Bottom Pressure (psi)	
AVG Total ROP (ft/h)	0.00	% Hours Rotating	
AVG Rotating ROP (ft/h)	0.00	% Hours Sliding	
AVG Sliding ROP (ft/h)	0.00	% Distance Sliding	
		% Distance Rotating	

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #2 - BHA no. 2

Date In: Aug 12, 2020, 2:00 Date Out: Aug 15, 2020, 23:00

Bit Details		Motor Details		Directional Comments
OD (in)	12.250	Size (in)	8.0	Aim Contender Motor: 8" 1.83 FBH 7/8 4.0 Stg Mtr, Rev/Gal: 0.15, Flow: 400-900, Max Diff: 900 psi, Max Operating Torque: 14,930 ft/lbs, ; BIT: Smith HC505, SN: 8675309 , Jets 5x12's 2x14's, TFA: .850
Vendor	Smith	Lobe/Stage	7/8, 4.0	
S/N	8675309	Bend Angle	1.83	
Nozzles	5x12's 2x14's	Speed (rev/gal)	0.15	
Total Flow Area (in²)	0.850	Wear Pad OD (in)	8.375	MWD Comments
Drilling Hours for Day	0.00	Bit Distances		POOH Reason Other: BHA was pulled as per customer, they will drill the last few hundred feet with conventional BHA.
Total Drilled for Day (ft)		Bend (Bit To Bend): 6.15 ft,		
Drilling Hours for BHA	35.12	Survey (Bit To Survey): 62.00 ft		
Total Drilled for BHA (ft)	752.00			

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Smith 1 3/4" HC505</i> , Style: <i>PDC</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>12.25</i>	Smith	8675309	6 5/8" Reg Pin			12.250		1.00	1.00
Mud Motor Description: <i>Motor, 8" 7/8 4.0, FBH @ 1.83°, 1 1/4" UBHS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.83</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>4</i>	Aim	800-40-015	6 5/8" Reg Box	6 5/8" Reg Box		8.000		30.64	31.64
Stabilizer Description: <i>11 3/4" NM Nortrack Stab</i>	Amegawest	4225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.250		6.60	38.24
UBHO Sub Description: <i>UBHO</i> , Type: <i>Steel</i>	Aim	800 225	6 5/8" Reg Box	6 5/8" Reg Pin	2.750	8.000		3.61	41.85
Drill Collar Description: <i>NM Monel (MWD)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-300-7908	6 5/8" Reg Box	6 5/8" Reg Pin	3.125	8.000		30.97	72.82
Drill Collar Description: <i>NM Monel (Spacer)</i> , Style: <i>Slick Drill</i> , Type: <i>NM</i>	Amegawest	800-30-7595	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	7.875		30.16	102.98
Crossover Sub Description: <i>X-Over 4 1/2 XH B x 6 5/8 Reg P</i> , Type: <i>Steel</i>	Amegawest	AWST 6662	4 1/2" XH Box	6 5/8" Reg Pin	2.813	7.750		3.39	106.37
Drill Collar Description: <i>6.5" DC (4 DC)</i> , Style: <i>Spiral Drill</i> , Type: <i>Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.375		119.91	226.28
HWDP Description: <i>4.5 " HWDP (10 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	537.16
Jars Description: <i>Drilling Jars</i> , Size (in): <i>6.25</i> , Type: <i>Mechanical</i>	Knights	KJ12861	4 1/2" XH Box	4 1/2" XH Pin	2.625	6.250		29.20	566.36
HWDP Description: <i>4.5" HWDP (5 Jts)</i> , Style: <i>Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	721.56

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Pipe Stuck	12	08-15	00:00	15:30	08-15			Work Stuck pipe
Work Pipe	18	08-15	15:30	16:00	08-15			P/U surface Jars
Work Pipe	18	08-15	16:00	17:30	08-15			Work stuck pipe
Circulating	3	08-15	17:30	18:25	08-15			Circulate & Condition Mud / Pipe Free
Pooh	7	08-15	18:25	21:00	08-15			POOH to L/D Dir Tools
Change BHA	6	08-15	21:00	23:00	08-15			L/D BHA #2
Other	16	08-15	23:00	23:55	08-15			Release Directional Personnel to Log, Run Casing, Cement

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Wednesday, Aug 19 00:00 - 23:59 (Day 13 of 19)

Billing: N/A (\$125,268.00 total)

Drilling Summary			Drilling Parameters		
Start Depth (ft)		Downhole Hours	0.00	Rotating WOB (klbs)	
Bit Depth (ft)		Drilling Hours	0.00	Sliding WOB (klbs)	
Bottom Hole Depth (ft)		Hours Circulating	0.00	Rotating SPM	
Total Distance (ft)	0.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	0.00	Hours Rotating	0.00	Motor RPM	-
Distance Slid (ft)	0.00			Surface RPM	
Inclination In				Flow Rate (gpm)	
Inclination Out				On Bottom Pressure (psi)	
Azimuth In		% Hours Rotating		Off Bottom Pressure (psi)	
Azimuth Out		% Hours Sliding			
AVG Total ROP (ft/h)	0.00	% Distance Sliding			
AVG Rotating ROP (ft/h)	0.00	% Distance Rotating			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

No BHAs

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	08-19	00:00	21:00	08-19			
Standby	15	08-19	21:00	00:00	08-20			On location Strap and check tools.

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Thursday, Aug 20 00:00 - 23:59 (Day 14 of 19)

Billing: N/A (\$125,268.00 total)

Drilling Summary			Drilling Parameters		
Start Depth (ft)		Downhole Hours	0.00	Rotating WOB (klbs)	
Bit Depth (ft)		Drilling Hours	0.00	Sliding WOB (klbs)	
Bottom Hole Depth (ft)		Hours Circulating	0.00	Rotating SPM	
Total Distance (ft)	0.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	0.00	Hours Rotating	0.00	Motor RPM	-
Distance Slid (ft)	0.00			Surface RPM	
Inclination In				Flow Rate (gpm)	
Inclination Out				On Bottom Pressure (psi)	
Azimuth In		% Hours Rotating		Off Bottom Pressure (psi)	
Azimuth Out		% Hours Sliding			
AVG Total ROP (ft/h)	0.00	% Distance Sliding			
AVG Rotating ROP (ft/h)	0.00	% Distance Rotating			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

No BHAs

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	08-19	21:00	00:00	08-20			On location Strap and check tools.
Standby	15	08-20	00:00	05:00	08-20			Standby , TIH with Conventional BHA to Drill Out Shoe Track. AIM has been released due to possible cement squeeze job.

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Saturday, Aug 29 00:00 - 23:59 (Day 15 of 19)

Billing: \$18,876.75 (\$125,268.00 total)

Drilling Summary			Drilling Parameters		
Start Depth (ft)		Downhole Hours	0.50	Rotating WOB (klbs)	
Bit Depth (ft)		Drilling Hours	0.00	Sliding WOB (klbs)	
Bottom Hole Depth (ft)		Hours Circulating	0.00	Rotating SPM	
Total Distance (ft)	0.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	0.00	Hours Rotating	0.00	Motor RPM	78.00 - 83.00
Distance Slid (ft)	0.00			Surface RPM	
Inclination In				Flow Rate (gpm)	
Inclination Out				On Bottom Pressure (psi)	
Azimuth In		% Hours Rotating		Off Bottom Pressure (psi)	
Azimuth Out		% Hours Sliding			
AVG Total ROP (ft/h)	0.00	% Distance Sliding			
AVG Rotating ROP (ft/h)	0.00	% Distance Rotating			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #3 - BHA No. 3

Date In: Aug 29, 2020, 23:30 Date Out: Sep 2, 2020, 0:45

Bit Details		Motor Details		Directional Comments	
OD (in)	8.500	Size (in)	6.75	Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's	
Vendor	DB BITS	Lobe/Stage	7/8, 5.7		
S/N	D3474	Bend Angle	1.83		
Nozzles	5X13	Speed (rev/gal)	0.24	MWD Comments	
Total Flow Area (in²)	0.648	Wear Pad OD (in)	6.938		
Drilling Hours for Day		Bit Distances		POOH Reason	
Total Drilled for Day (ft)		Bend: 5.56 ft, Gamma: 48.12 ft, Survey: 63.00 ft		Total Depth/Casing Point: TD Casing Point / POOH to L/D	
Drilling Hours for BHA	44.45			Directional Tools	
Total Drilled for BHA (ft)	2372.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Other	16	08-29	00:00	16:30	08-29			
Standby	15	08-29	16:30	16:45	08-29			On location
Standby	15	08-29	16:45	23:30	08-29			Standby while / Inspect Directional Tools
Change BHA	6	08-29	23:30	01:00	08-30			P/U BHA # 3

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Sunday, Aug 30 00:00 - 23:59 (Day 16 of 19)

Billing: \$6,400.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	7910.00	Downhole Hours	24.00	Rotating WOB (klbs)	3.00 - 3.00		
Bit Depth (ft)	8415.00	Drilling Hours	9.33	Sliding WOB (klbs)	3.00 - 3.00		
Bottom Hole Depth (ft)	8415.00	Hours Circulating	1.83	Rotating SPM	70.00 - 70.00		
Total Distance (ft)	505.00	Hours Sliding	0.75	Sliding SPM	68.00 - 68.00		
Distance Rotated (ft)	468.00	Hours Rotating	8.58	Motor RPM	78.00 - 83.00		
Distance Slid (ft)	37.00			Surface RPM	20.00 - 60.00		
Inclination In	14.86			Flow Rate (gpm)	334.00 - 344.00		
Inclination Out	17.54			On Bottom Pressure (psi)	2580.00 - 2640.00		
Azimuth In	258.82	% Hours Rotating	92%	Off Bottom Pressure (psi)	2550.00 - 2600.00		
Azimuth Out	259.79	% Hours Sliding	8%				
AVG Total ROP (ft/h)	54.23	% Distance Sliding	7%				
AVG Rotating ROP (ft/h)	54.58	% Distance Rotating	93%				
AVG Sliding ROP (ft/h)	49.33						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #3 - BHA No. 3

Date In: Aug 29, 2020, 23:30 Date Out: Sep 2, 2020, 0:45

Bit Details		Motor Details		Directional Comments	
OD (in)	8.500	Size (in)	6.75	Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's	
Vendor	DB BITS	Lobe/Stage	7/8, 5.7		
S/N	D3474	Bend Angle	1.83		
Nozzles	5X13	Speed (rev/gal)	0.24	MWD Comments	
Total Flow Area (in²)	0.648	Wear Pad OD (in)	6.938	POOH Reason Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools	
Drilling Hours for Day	9.33	Bit Distances			
Total Drilled for Day (ft)	505.00	Bend: 5.56 ft, Gamma: 48.12			
Drilling Hours for BHA	44.45	ft, Survey: 63.00 ft			
Total Drilled for BHA (ft)	2372.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Change BHA	6	08-29	23:30	01:00	08-30			P/U BHA # 3
Circulating	3	08-30	01:00	01:30	08-30			Shallow Test Tools
Rig Repair	14	08-30	01:30	02:00	08-30			W/O Elevator Bells
TIH	8	08-30	02:00	12:00	08-30			TIH W/ BHA #3
Circulating	3	08-30	12:00	13:20	08-30			Work on top drive
Rotary Drill	1	08-30	13:20	15:20	08-30	7910.00	8005.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 40, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-30	15:20	15:30	08-30	8005.00	8005.00	Inclination (°): 14.860, Azimuth (°): 258.820, TVD (ft): 7713.66, Dogleg (°/100 ft): 0.81, Sensor Depth (ft): 7942.00, Bit To Sensor (ft): 63.00, Temperature (°F): 150.69
Rotary Drill	1	08-30	15:30	15:45	08-30	8005.00	8015.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 40, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Slide Drill	2	08-30	15:45	16:10	08-30	8015.00	8032.00	Pressure On (psi): 2580.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68, Toolface: 70, Toolface Type: gravity
Rotary Drill	1	08-30	16:10	17:55	08-30	8032.00	8131.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 40, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-30	17:55	18:05	08-30	8131.00	8131.00	Inclination (°): 16.440, Azimuth (°): 262.250, TVD (ft): 7834.99, Dogleg (°/100 ft): 1.45, Sensor Depth (ft): 8068.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	08-30	18:05	20:20	08-30	8131.00	8258.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 20, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-30	20:20	20:30	08-30	8258.00	8258.00	Inclination (°): 16.970, Azimuth (°): 261.020, TVD (ft): 7956.63, Dogleg (°/100 ft): 0.50, Sensor Depth (ft): 8195.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	08-30	20:30	22:40	08-30	8258.00	8384.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-30	22:40	22:50	08-30	8384.00	8384.00	Inclination (°): 17.540, Azimuth (°): 259.790, TVD (ft): 8076.96, Dogleg (°/100 ft): 0.54, Sensor Depth (ft): 8321.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	08-30	22:50	23:00	08-30	8384.00	8395.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Slide Drill	2	08-30	23:00	23:20	08-30	8395.00	8415.00	Pressure On (psi): 2580.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68, Toolface: 110, Toolface Type: gravity
Rotary Drill	1	08-30	23:20	01:05	08-31	8415.00	8511.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Monday, Aug 31 00:00 - 23:59 (Day 17 of 19)

Billing: \$6,400.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	8415.00	Downhole Hours	24.00	Rotating WOB (klbs)	3.00 - 3.00		
Bit Depth (ft)	9649.00	Drilling Hours	22.23	Sliding WOB (klbs)	3.00 - 3.00		
Bottom Hole Depth (ft)	9649.00	Hours Circulating	0.00	Rotating SPM	66.00 - 70.00		
Total Distance (ft)	1234.00	Hours Sliding	1.42	Sliding SPM	66.00 - 68.00		
Distance Rotated (ft)	1143.00	Hours Rotating	20.82	Motor RPM	78.00 - 83.00		
Distance Slid (ft)	91.00			Surface RPM	60.00 - 60.00		
Inclination In	17.05			Flow Rate (gpm)	324.00 - 344.00		
Inclination Out	9.85			On Bottom Pressure (psi)	2575.00 - 2640.00		
Azimuth In	265.41	% Hours Rotating	94%	Off Bottom Pressure (psi)	2550.00 - 2600.00		
Azimuth Out	265.24	% Hours Sliding	6%				
AVG Total ROP (ft/h)	55.50	% Distance Sliding	7%				
AVG Rotating ROP (ft/h)	54.91	% Distance Rotating	93%				
AVG Sliding ROP (ft/h)	64.24						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #3 - BHA No. 3

Date In: Aug 29, 2020, 23:30 Date Out: Sep 2, 2020, 0:45

Bit Details		Motor Details		Directional Comments	
OD (in)	8.500	Size (in)	6.75	Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's	
Vendor	DB BITS	Lobe/Stage	7/8, 5.7		
S/N	D3474	Bend Angle	1.83		
Nozzles	5X13	Speed (rev/gal)	0.24	MWD Comments	
Total Flow Area (in²)	0.648	Wear Pad OD (in)	6.938	POOH Reason Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools	
Drilling Hours for Day	22.23	Bit Distances			
Total Drilled for Day (ft)	1234.00	Bend: 5.56 ft, Gamma: 48.12			
Drilling Hours for BHA	44.45	ft, Survey: 63.00 ft			
Total Drilled for BHA (ft)	2372.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64

MWD Items

No Items								
Directional Activities								
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-30	23:20	01:05	08-31	8415.00	8511.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-31	01:05	01:15	08-31	8511.00	8511.00	Inclination (°): 17.050, Azimuth (°): 265.410, TVD (ft): 8198.23, Dogleg (°/100 ft): 1.37, Sensor Depth (ft): 8448.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	08-31	01:15	03:25	08-31	8511.00	8638.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Survey	46	08-31	03:25	03:35	08-31	8638.00	8638.00	Inclination (°): 17.630, Azimuth (°): 263.930, TVD (ft): 8319.46, Dogleg (°/100 ft): 0.57, Sensor Depth (ft): 8575.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	08-31	03:35	03:45	08-31	8638.00	8647.00	Pressure On (psi): 2640.00, Pressure Off (psi): 2600.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 344.00, Strokes Per Minute: 70.00
Slide Drill	2	08-31	03:45	04:00	08-31	8647.00	8665.00	Pressure On (psi): 2580.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-31	04:00	05:40	08-31	8665.00	8764.00	Pressure On (psi): 2620.00, Pressure Off (psi): 2575.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68.00
Survey	46	08-31	05:40	05:52	08-31	8764.00	8764.00	Inclination (°): 16.260, Azimuth (°): 267.260, TVD (ft): 8439.99, Dogleg (°/100 ft): 1.33, Sensor Depth (ft): 8701.00, Bit To Sensor (ft): 63.00, Temperature (°F): 174.69
Rotary Drill	1	08-31	05:52	08:00	08-31	8764.00	8890.00	Pressure On (psi): 2620.00, Pressure Off (psi): 2575.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68.00
Survey	46	08-31	08:00	08:15	08-31	8890.00	8890.00	Inclination (°): 16.970, Azimuth (°): 266.030, TVD (ft): 8560.72, Dogleg (°/100 ft): 0.63, Sensor Depth (ft): 8827.00, Bit To Sensor (ft): 63.00, Temperature (°F): 174.69
Rotary Drill	1	08-31	08:15	08:30	08-31	8890.00	8900.00	Pressure On (psi): 2620.00, Pressure Off (psi): 2575.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68.00
Slide Drill	2	08-31	08:30	09:00	08-31	8900.00	8925.00	Pressure On (psi): 2580.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68, Toolface: 170, Toolface Type: gravity
Rotary Drill	1	08-31	09:00	11:03	08-31	8925.00	9017.00	Pressure On (psi): 2620.00, Pressure Off (psi): 2575.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68.00
Survey	46	08-31	11:03	11:17	08-31	9017.00	9017.00	Inclination (°): 14.370, Azimuth (°): 268.930, TVD (ft): 8683.00, Dogleg (°/100 ft): 2.14, Sensor Depth (ft): 8954.00, Bit To Sensor (ft): 63.00, Temperature (°F): 174.69
Rotary Drill	1	08-31	11:17	13:30	08-31	9017.00	9143.00	Pressure On (psi): 2620.00, Pressure Off (psi): 2575.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 334.00, Strokes Per Minute: 68.00
Rig Service - In Hole	19	08-31	13:30	14:00	08-31			
Survey	46	08-31	14:00	14:05	08-31	9143.00	9143.00	Inclination (°): 14.810, Azimuth (°): 267.350, TVD (ft): 8804.93, Dogleg (°/100 ft): 0.47, Sensor Depth (ft): 9080.00, Bit To Sensor (ft): 63.00, Temperature (°F): 174.69
Rotary Drill	1	08-31	14:05	14:15	08-31	9143.00	9153.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	08-31	14:15	14:40	08-31	9153.00	9178.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 180, Toolface Type: gravity
Rotary Drill	1	08-31	14:40	16:25	08-31	9178.00	9269.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	08-31	16:25	16:40	08-31	9269.00	9269.00	Inclination (°): 11.910, Azimuth (°): 269.460, TVD (ft): 8927.51, Dogleg (°/100 ft): 2.33, Sensor Depth (ft): 9206.00, Bit To Sensor (ft): 63.00, Temperature (°F): 174.69
Rotary Drill	1	08-31	16:40	19:05	08-31	9269.00	9395.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	08-31	19:05	19:15	08-31	9395.00	9395.00	Inclination (°): 12.260, Azimuth (°): 268.230, TVD (ft): 9050.72, Dogleg (°/100 ft): 0.34, Sensor Depth (ft): 9332.00, Bit To Sensor (ft): 63.00
Other	16	08-31	19:15	19:30	08-31			C/O Washed Out DP
Rotary Drill	1	08-31	19:30	19:45	08-31	9395.00	9405.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	08-31	19:45	20:00	08-31	9405.00	9428.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 210, Toolface Type: gravity
Rotary Drill	1	08-31	20:00	21:35	08-31	9428.00	9522.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	08-31	21:35	21:45	08-31	9522.00	9522.00	Inclination (°): 9.850, Azimuth (°): 265.240, TVD (ft): 9175.35, Dogleg (°/100 ft): 1.95, Sensor Depth (ft): 9459.00, Bit To Sensor (ft): 63.00

Rotary Drill	1	08-31	21:45	00:00	09-01	9522.00	9649.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
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MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Tuesday, Sep 01 00:00 - 23:59 (Day 18 of 19)

Billing: \$6,400.00 (\$125,268.00 total)

Drilling Summary				Drilling Parameters			
Start Depth (ft)	9649.00	Downhole Hours	24.00	Rotating WOB (klbs)	3.00 - 3.00		
Bit Depth (ft)	10282.00	Drilling Hours	12.88	Sliding WOB (klbs)	3.00 - 3.00		
Bottom Hole Depth (ft)	10282.00	Hours Circulating	3.05	Rotating SPM	66.00 - 66.00		
Total Distance (ft)	633.00	Hours Sliding	1.67	Sliding SPM	66.00 - 66.00		
Distance Rotated (ft)	534.00	Hours Rotating	11.22	Motor RPM	78.00 - 83.00		
Distance Slid (ft)	99.00			Surface RPM	60.00 - 60.00		
Inclination In	10.59			Flow Rate (gpm)	324.00 - 324.00		
Inclination Out	0.84			On Bottom Pressure (psi)	2575.00 - 2575.00		
Azimuth In	263.48	% Hours Rotating	87%	Off Bottom Pressure (psi)	2550.00 - 2550.00		
Azimuth Out	131.12	% Hours Sliding	13%				
AVG Total ROP (ft/h)	50.22	% Distance Sliding	16%				
AVG Rotating ROP (ft/h)	49.08	% Distance Rotating	84%				
AVG Sliding ROP (ft/h)	59.40						

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #3 - BHA No. 3

Date In: Aug 29, 2020, 23:30 Date Out: Sep 2, 2020, 0:45

Bit Details		Motor Details		Directional Comments	
OD (in)	8.500	Size (in)	6.75	Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's	
Vendor	DB BITS	Lobe/Stage	7/8, 5.7		
S/N	D3474	Bend Angle	1.83		
Nozzles	5X13	Speed (rev/gal)	0.24	MWD Comments	
Total Flow Area (in²)	0.648	Wear Pad OD (in)	6.938	POOH Reason Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools	
Drilling Hours for Day	12.88	Bit Distances			
Total Drilled for Day (ft)	633.00	Bend: 5.56 ft, Gamma: 48.12			
Drilling Hours for BHA	44.45	ft, Survey: 63.00 ft			
Total Drilled for BHA (ft)	2372.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64

MWD Items

No Items								
Directional Activities								
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	08-31	21:45	00:00	09-01	9522.00	9649.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	00:00	00:10	09-01	9649.00	9649.00	Inclination (°): 10.590, Azimuth (°): 263.480, TVD (ft): 9300.34, Dogleg (°/100 ft): 0.63, Sensor Depth (ft): 9586.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	09-01	00:10	00:20	09-01	9649.00	9657.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	09-01	00:20	00:40	09-01	9657.00	9682.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 180, Toolface Type: gravity
Rotary Drill	1	09-01	00:40	02:55	09-01	9682.00	9776.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	02:55	03:05	09-01	9776.00	9776.00	Inclination (°): 8.130, Azimuth (°): 264.540, TVD (ft): 9425.64, Dogleg (°/100 ft): 1.94, Sensor Depth (ft): 9713.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	09-01	03:05	03:15	09-01	9776.00	9786.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	09-01	03:15	03:35	09-01	9786.00	9811.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 180, Toolface Type: gravity
Rotary Drill	1	09-01	03:35	05:10	09-01	9811.00	9902.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	05:10	05:20	09-01	9902.00	9902.00	Inclination (°): 5.360, Azimuth (°): 267.080, TVD (ft): 9550.75, Dogleg (°/100 ft): 2.21, Sensor Depth (ft): 9839.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	09-01	05:20	05:30	09-01	9902.00	9913.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	09-01	05:30	06:00	09-01	9913.00	9938.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 180, Toolface Type: gravity
Rotary Drill	1	09-01	06:00	08:07	09-01	9938.00	10029.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	08:07	08:15	09-01	10029.00	10029.00	Inclination (°): 2.550, Azimuth (°): 272.010, TVD (ft): 9677.44, Dogleg (°/100 ft): 2.23, Sensor Depth (ft): 9966.00, Bit To Sensor (ft): 63.00
Rotary Drill	1	09-01	08:15	08:30	09-01	10029.00	10039.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Slide Drill	2	09-01	08:30	09:00	09-01	10039.00	10063.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66, Toolface: 100, Toolface Type: magnetic
Rotary Drill	1	09-01	09:00	10:40	09-01	10063.00	10155.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	10:40	10:50	09-01	10155.00	10155.00	Inclination (°): 0.530, Azimuth (°): 139.910, TVD (ft): 9803.40, Dogleg (°/100 ft): 2.33, Sensor Depth (ft): 10092.00, Bit To Sensor (ft): 63.00, Temperature (°F): 194.00
Rotary Drill	1	09-01	10:50	13:00	09-01	10155.00	10250.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	13:00	13:05	09-01	10250.00	10250.00	Inclination (°): 0.880, Azimuth (°): 128.660, TVD (ft): 9898.39, Dogleg (°/100 ft): 0.39, Sensor Depth (ft): 10187.00, Bit To Sensor (ft): 63.00, Temperature (°F): 194.00
Circulating	3	09-01	13:05	15:00	09-01			
Rotary Drill	1	09-01	15:00	15:41	09-01	10250.00	10282.00	Pressure On (psi): 2575.00, Pressure Off (psi): 2550.00, Weight On Bit (klbs): 3.00, Surface RPM: 60, Surface Torque (ft lbf): 9000.00, Flow Rate (gpm): 324.00, Strokes Per Minute: 66.00
Survey	46	09-01	15:41	15:46	09-01	10282.00	10282.00	Inclination (°): 0.840, Azimuth (°): 131.120, TVD (ft): 9930.39, Dogleg (°/100 ft): 0.17, Sensor Depth (ft): 10219.00, Bit To Sensor (ft): 63.00, Temperature (°F): 194.00
Survey	46	09-01	15:46	15:47	09-01	10282.00	10282.00	Inclination (°): 0.840, Azimuth (°): 131.120, TVD (ft): 9993.38, Dogleg (°/100 ft): 0.00, Sensor Depth (ft): 10282.00, Bit To Sensor (ft): 0.00, Temperature (°F): 194.00
Circulating	3	09-01	15:47	16:55	09-01			10,282 = Projection to TD Circulate BTU

Pooh	7	09-01	16:55	23:30	09-01			POOH
Change BHA	6	09-01	23:30	00:45	09-02			L/D BHA #3

MWD Activities

No Activities



Job Number ST-20-058	Operator Kebo Oil & Gas, Inc.	Rig Name Lauson Rig #2
Start Date 2020-07-29	Well Name Black Stone #1	Legal Well Name AFE Black Stone #1
Play Unknown	State/Province and Country Texas, US	County Brazoria
		Company Man

Wednesday, Sep 02 00:00 - 23:59 (Day 19 of 19)

Billing: N/A (\$125,268.00 total)

Drilling Summary			Drilling Parameters		
Start Depth (ft)		Downhole Hours	0.75	Rotating WOB (klbs)	
Bit Depth (ft)		Drilling Hours	0.00	Sliding WOB (klbs)	
Bottom Hole Depth (ft)		Hours Circulating	0.00	Rotating SPM	
Total Distance (ft)	0.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	0.00	Hours Rotating	0.00	Motor RPM	78.00 - 83.00
Distance Slid (ft)	0.00			Surface RPM	
Inclination In				Flow Rate (gpm)	
Inclination Out				On Bottom Pressure (psi)	
Azimuth In		% Hours Rotating		Off Bottom Pressure (psi)	
Azimuth Out		% Hours Sliding			
AVG Total ROP (ft/h)	0.00	% Distance Sliding			
AVG Rotating ROP (ft/h)	0.00	% Distance Rotating			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Paul Pierron	MWD Engineer
Martin Alonzo	Directional Driller
Omar Alaniz	Directional Driller

BHA #3 - BHA No. 3

Date In: Aug 29, 2020, 23:30 Date Out: Sep 2, 2020, 0:45

Bit Details		Motor Details		Directional Comments	
OD (in)	8.500	Size (in)	6.75	Drop & Hold Hole Section: AIM, 6¾", Drilling Motor, 7/8 5.7, FBH @ 1.83°, w/ 8" Max Diff: 1,280 psi, Max RPM: 150, Flow Range: 300-600 GPM, Motor Rev/Gal= 0.24, Wear Pad OD: 615/16", Max Operating TQ: 13,720 ft/lbs, Bit To Bend: 5.56', Bit Info, Type: 8 1/2 DB , S/N: D3474, Bit Nozzles= 5x13's	
Vendor	DB BITS	Lobe/Stage	7/8, 5.7		
S/N	D3474	Bend Angle	1.83		
Nozzles	5X13	Speed (rev/gal)	0.24	MWD Comments	
Total Flow Area (in²)	0.648	Wear Pad OD (in)	6.938	POOH Reason Total Depth/Casing Point: TD Casing Point / POOH to L/D Directional Tools	
Drilling Hours for Day	0.00	Bit Distances			
Total Drilled for Day (ft)		Bend: 5.56 ft, Gamma: 48.12			
Drilling Hours for BHA	44.45	ft, Survey: 63.00 ft			
Total Drilled for BHA (ft)	2372.00				

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit Description: <i>Bit, 8½", Style: PDC, Gauge Length (in): 2.00, Size (in): 8.50</i>	DB BITS	D3474	4 1/2" Reg Pin			8.500		1.00	1.00
Mud Motor Description: <i>Motor, 6¾", 7/8 5.70, FBH @ 1.83°, w/ 8" UBHS, Size (in): 6.75, Bend Angle (°): 1.83, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.7</i>	AIM	700-40-025	4 1/2" XH Box	4 1/2" Reg Box		6.750		32.37	33.37
Stabilizer Description: <i>NM. Stabilizer, 8", 4 blade, NorTrac</i>	Amega West	4132	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.563		5.39	38.76
UBHO Sub Description: <i>NM. UBHO Sub, Type: NM</i>	AIM	650-578	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		4.11	42.87
Drill Collar Description: <i>NMDC (MWD), Style: Slick Drill, Type: NM</i>	Amega West	650-30-2948	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		29.80	72.67
Drill Collar Description: <i>NMDC, Style: Slick Drill, Type: NM</i>	Amega West	650-30-1606	4 1/2" XH Box	4 1/2" XH Pin	2.813	6.500		30.26	102.93
Drill Collar Description: <i>Drill collars (4 Collars), Style: Slick Drill, Type: Steel</i>	Rig	Rig	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.500		119.91	222.84
HWDP Description: <i>4.5 " HWDP (10 Jts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		310.88	533.72
Jars Description: <i>Drilling Jars, Size (in): 6.63, Type: Mechanical</i>	Knights	KJ11055	4 1/2" XH Box	4 1/2" XH Pin	2.500	6.625		29.72	563.44
HWDP Description: <i>HWDP, 4½", (5 Jnts), Style: Spiral</i>	Rig		4 1/2" XH Box	4 1/2" XH Pin	3.000	4.500		155.20	718.64

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Change BHA	6	09-01	23:30	00:45	09-02			L/D BHA #3
Other	16	09-02	00:45	01:30	09-02			Load & Ship Tools
Other	16	09-02	01:30	23:55	09-02			Leave Location

MWD Activities

No Activities



Surface Plat

Black Stone #1 (ST-20-058)

2020-07-29 to 2020-09-02

Brazoria, Texas, US (29.21, -95.13)

Jakubik & Associates

12718 Century Drive • Stafford, Texas 77477
 Phone: 281/240-0498 • Fax: 281/491-2535
 www.jakubiksurveying.com

Position of New Bayou shown was scaled from the "Hoskins Mound Quad." and may not be it's true position.

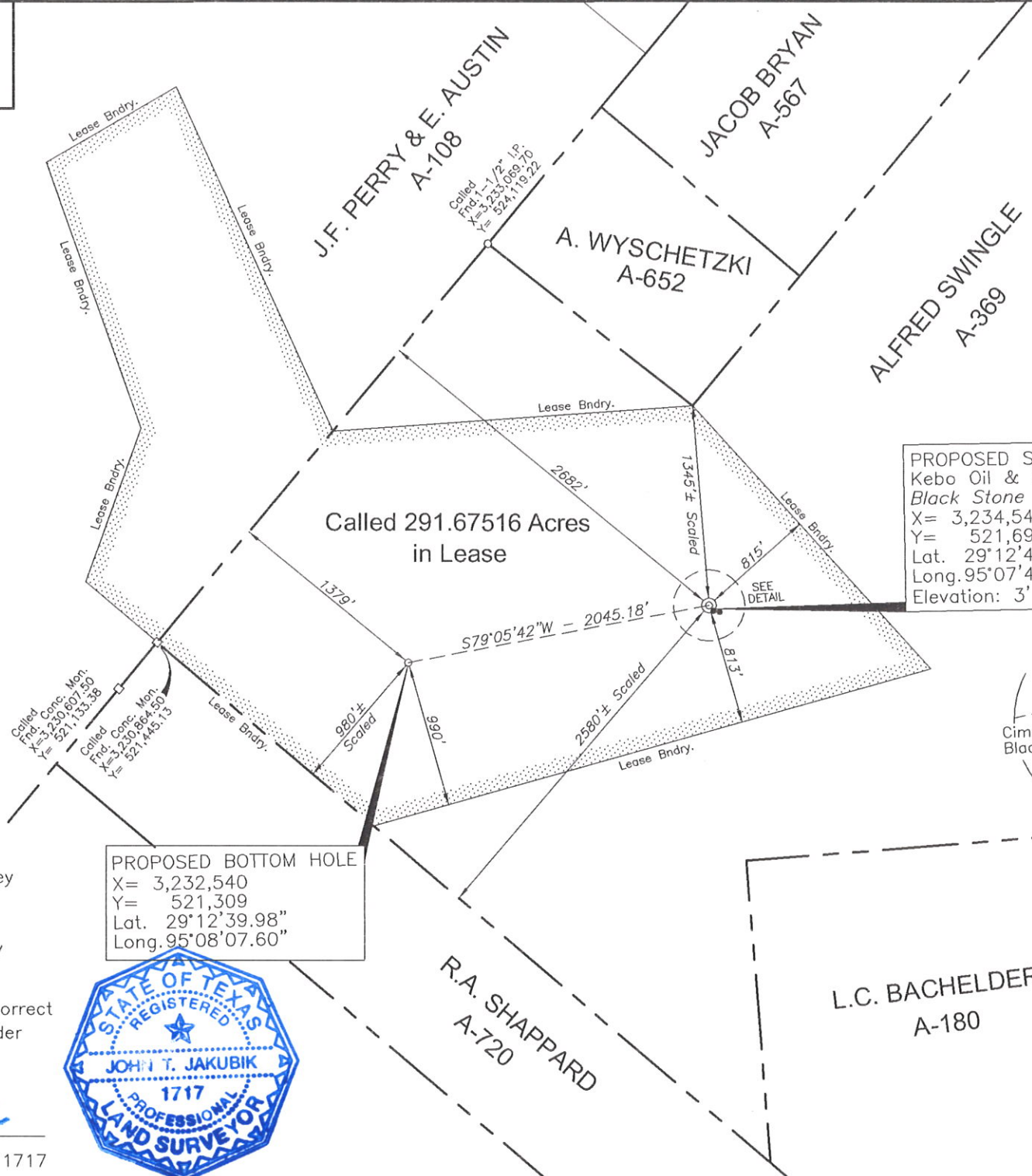
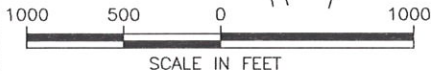
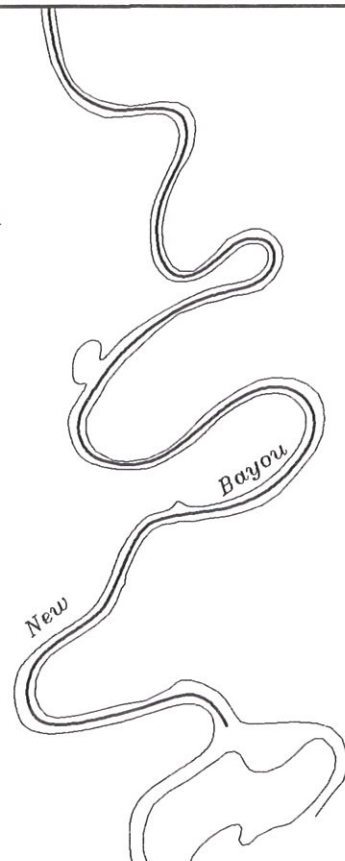
Some of the survey lines shown were taken from the Brazoria Co. Tobin Map and may not be the true positions.

The Limits of the Lease shown were taken from a Memorandum Of Oil And Gas Lease dated March 27, 2018, recorded under B.C.C.F. No. 2018016974. The X & Y coordinates shown on the Exhibit "A" were used to establish the configuration of the lease.

All bearings and coordinates shown are referenced to the Texas Coordinate System, South Central Zone (NAD'27).

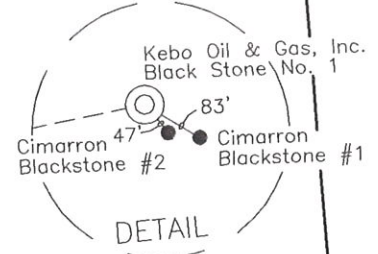


Grid



PROPOSED SURFACE LOCATION
 Kebo Oil & Gas, Inc.
 Black Stone No. 1
 X= 3,234,548
 Y= 521,696
 Lat. 29°12'43.15"
 Long. 95°07'44.80"
 Elevation: 3'

PROPOSED BOTTOM HOLE
 X= 3,232,540
 Y= 521,309
 Lat. 29°12'39.98"
 Long. 95°08'07.60"



The Proposed Well Location is approximately 10.3 miles southeast of Liverpool, Texas.

Proposed Surface Location:
 2682' FNWL Survey & 2580'± FSWL Survey
 815' FNEL Lease & 813' FSEL Lease

Proposed Bottom Hole Location:
 1379' FNWL Survey & 980'± FSWL Survey
 990' FSEL Lease & 980'± FSWL Lease

I hereby certify that this is a true and correct plat based on a ground survey made under my supervision on June 2, 2020.

John T. Jakubik R.P.L.S. No. 1717



KEBO OIL & GAS, INC.		
PROPOSED WELL LOCATION BLACK STONE NO. 1		
J.F. PERRY & E. AUSTIN LEAGUE, A-108 ALFRED SWINGLE SURVEY, A-369 BRAZORIA COUNTY, TEXAS		
DATE: 06-01-20	SCALE: 1"= 1000'	JOB No.: 5097-1
DWN. E.S.	REV. 06-29-20 (PBHL)	DWG.No.: KEBO5097-BS1