



COG Operating LLC

Eddy County, NM (NAD-27 2015)

Clydesdale 1 Fee #5H

API #: 30-015-43659

SHL: 2135' FSL, 150' FEL, Sec 1, T19S, R25E, Unit I

PP: 2311' FSL, 330' FEL, Sec 1, T19S, R25E, Unit I

BHL: 2282' FSL, 384' FWL, Sec 1, T19S, R25E, Unit L

Design: BHL: 2290' FSL, 350' FWL, Sec 1, T19S, R25E, Unit L

Standard Survey Report

26 July, 2016

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 30 2016

RECEIVED





TDS
Survey Report



Company: COG Operating LLC
Project: Eddy County, NM (NAD-27 2015)
Site: Clydesdale 1 Fee #5H
Well: SHL: 2135' FSL, 150' FEL, Sec 1, T19S, R25E, Unit I
Wellbore: BHL: 2290' FSL, 350' FWL, Sec 1, T19S, R25E, Unit L
Design: BHL: 2290' FSL, 350' FWL, Sec 1, T19S, R25E, Unit L

Local Co-ordinate Reference: Well SHL: 2135' FSL, 150' FEL, Sec 1, T19S, R25E, Unit I
TVD Reference: KB @ 3419.00usft (Silver Oak 3)
MD Reference: KB @ 3419.00usft (Silver Oak 3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Eddy County, NM (NAD-27 2015)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Clydesdale 1 Fee #5H		
Site Position:		Northing:	614,052.70 usft
From:	Map	Easting:	470,381.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 41' 17.135 N
		Longitude:	104° 25' 46.577 W
		Grid Convergence:	-0.05 °

Well	SHL: 2135' FSL, 150' FEL, Sec 1, T19S, R25E, Unit I		
Well Position	+N/-S	0.00 usft	Northing: 614,052.70 usft
	+E/-W	0.00 usft	Easting: 470,381.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 41' 17.135 N
		Longitude:	104° 25' 46.577 W
		Ground Level:	3,401.00 usft

Wellbore	BHL: 2290' FSL, 350' FWL, Sec 1, T19S, R25E, Unit L				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/10/2016	7.53	60.36	48,259

Design	BHL: 2290' FSL, 350' FWL, Sec 1, T19S, R25E, Unit L				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	272.14	

Survey Program	Date 7/26/2016				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
121.00	7,541.00	TDS MWD #1 (BHL: 2290' FSL, 350' FWL)	MWD	MWD - Standard	

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	
121.00	0.30	282.90	121.00	0.07	-0.31	0.31	0.25	0.25	0.00	
First TDS MWD Survey										
152.00	0.40	287.50	152.00	0.12	-0.49	0.50	0.33	0.32	14.84	
241.00	1.00	359.30	240.99	0.99	-0.80	0.83	1.07	0.67	80.67	
334.00	2.70	16.70	333.94	3.90	-0.18	0.32	1.90	1.83	18.71	
424.00	4.80	25.10	423.74	9.34	2.03	-1.68	2.41	2.33	9.33	



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North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

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)
513.00	6.90	29.50	512.28	17.37	6.24	-5.59	2.41	2.36	4.94
603.00	8.00	39.00	601.52	26.94	12.85	-11.83	1.83	1.22	10.56
692.00	8.10	38.90	689.64	36.63	20.68	-19.30	0.11	0.11	-0.11
781.00	8.50	37.70	777.71	46.72	28.64	-26.88	0.49	0.45	-1.35
841.00	8.80	37.30	837.03	53.88	34.13	-32.10	0.51	0.50	-0.67
903.00	9.40	37.50	898.25	61.67	40.09	-37.76	0.97	0.97	0.32
997.00	8.90	39.00	991.05	73.41	49.34	-46.56	0.59	-0.53	1.60
1,089.00	9.10	39.10	1,081.92	84.58	58.41	-55.21	0.22	0.22	0.11
1,183.00	9.70	40.40	1,174.65	96.38	68.23	-64.58	0.68	0.64	1.38
1,226.00	10.00	40.60	1,217.02	101.98	73.00	-69.15	0.70	0.70	0.47
1,302.00	9.80	42.00	1,291.89	111.79	81.63	-77.39	0.41	-0.26	1.84
1,395.00	8.10	43.90	1,383.75	122.40	91.47	-86.83	1.86	-1.83	2.04
1,488.00	6.60	45.50	1,475.99	130.87	99.82	-94.87	1.63	-1.61	1.72
1,582.00	6.50	46.40	1,569.37	138.32	107.53	-102.29	0.15	-0.11	0.96
1,676.00	6.20	46.80	1,662.80	145.46	115.08	-109.57	0.32	-0.32	0.43
1,768.00	6.10	44.90	1,754.27	152.33	122.15	-116.38	0.25	-0.11	-2.07
1,862.00	4.40	35.50	1,847.87	158.80	127.77	-121.75	2.02	-1.81	-10.00
1,956.00	2.40	44.00	1,941.70	163.15	131.23	-125.05	2.19	-2.13	9.04
2,051.00	0.90	51.30	2,036.66	165.05	133.20	-126.94	1.59	-1.58	7.68
2,145.00	1.10	242.00	2,130.65	165.09	132.98	-126.72	2.12	0.21	-180.11
2,176.00	0.90	243.30	2,161.65	164.84	132.50	-126.25	0.65	-0.65	4.19
2,207.00	1.10	241.20	2,192.65	164.59	132.02	-125.78	0.66	0.65	-6.77
2,238.00	3.40	257.90	2,223.62	164.25	130.86	-124.63	7.64	7.42	53.87
2,269.00	6.10	264.70	2,254.51	163.91	128.32	-122.11	8.88	8.71	21.94
2,300.00	8.90	273.70	2,285.24	163.91	124.29	-118.08	9.77	9.03	29.03
2,331.00	11.60	278.80	2,315.75	164.54	118.81	-112.58	9.18	8.71	16.45
2,362.00	14.50	282.10	2,345.94	165.83	111.94	-105.67	9.66	9.35	10.65
2,394.00	17.70	278.40	2,376.68	167.38	103.20	-96.88	10.50	10.00	-11.56
2,425.00	20.90	274.80	2,405.94	168.53	93.03	-86.67	11.01	10.32	-11.61
2,456.00	24.40	272.00	2,434.55	169.22	81.12	-74.74	11.81	11.29	-9.03
2,488.00	27.80	269.90	2,463.28	169.44	67.04	-60.67	11.01	10.63	-6.56
2,519.00	31.90	268.90	2,490.16	169.27	51.62	-45.26	13.32	13.23	-3.23
2,551.00	34.90	268.50	2,516.87	168.87	34.01	-27.68	9.40	9.38	-1.25
2,582.00	38.60	268.40	2,541.71	168.36	15.47	-9.17	11.94	11.94	-0.32
2,613.00	42.00	269.40	2,565.35	167.98	-4.57	10.84	11.16	10.97	3.23
2,644.00	43.90	272.20	2,588.04	168.29	-25.69	31.95	8.68	6.13	9.03
2,675.00	44.00	272.70	2,610.36	169.21	-47.18	53.47	1.16	0.32	1.61
2,707.00	44.90	272.90	2,633.20	170.30	-69.56	75.87	2.85	2.81	0.63
2,738.00	46.20	273.20	2,654.91	171.48	-91.66	98.00	4.25	4.19	0.97
2,769.00	45.80	273.80	2,676.44	172.84	-113.92	120.29	1.90	-1.29	1.94
2,801.00	45.50	274.00	2,698.81	174.40	-136.75	143.17	1.04	-0.94	0.63



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2,832.00	45.00	273.70	2,720.64	175.88	-158.71	165.17	1.75	-1.61	-0.97
2,859.71	47.77	271.36	2,739.75	176.75	-178.75	185.23	11.71	9.99	-8.43
As-Drilled PP									
2,863.00	48.10	271.10	2,741.95	176.81	-181.19	187.67	11.71	10.08	-8.01
2,894.00	52.10	268.70	2,761.84	176.75	-204.97	211.43	14.20	12.90	-7.74
2,925.00	56.20	267.30	2,779.99	175.87	-230.07	236.48	13.72	13.23	-4.52
2,956.00	59.30	268.70	2,796.53	174.96	-256.27	262.63	10.70	10.00	4.52
2,987.00	62.50	270.50	2,811.61	174.77	-283.35	289.68	11.50	10.32	5.81
3,019.00	66.40	271.30	2,825.40	175.23	-312.21	318.54	12.39	12.19	2.50
3,050.00	69.00	270.80	2,837.17	175.75	-340.89	347.21	8.52	8.39	-1.61
3,081.00	72.70	270.40	2,847.33	176.06	-370.17	376.48	12.00	11.94	-1.29
3,113.00	75.70	269.40	2,856.05	176.00	-400.95	407.25	9.85	9.38	-3.13
3,144.00	80.60	269.10	2,862.41	175.61	-431.28	437.54	15.83	15.81	-0.97
3,175.00	84.80	268.40	2,866.35	174.94	-462.01	468.22	13.73	13.55	-2.26
3,207.00	88.90	268.50	2,868.11	174.07	-493.95	500.10	12.82	12.81	0.31
3,238.00	91.30	269.60	2,868.05	173.56	-524.94	531.06	8.52	7.74	3.55
3,269.00	90.80	269.50	2,867.48	173.31	-555.93	562.02	1.64	-1.61	-0.32
3,362.00	92.60	269.80	2,864.73	172.75	-648.89	654.89	1.96	1.94	0.32
3,455.00	92.10	270.50	2,860.91	172.99	-741.81	747.75	0.92	-0.54	0.75
3,550.00	91.40	270.10	2,858.01	173.49	-836.76	842.66	0.85	-0.74	-0.42
3,643.00	91.80	270.30	2,855.41	173.81	-929.72	935.57	0.48	0.43	0.22
3,737.00	91.60	270.10	2,852.63	174.14	-1,023.68	1,029.47	0.30	-0.21	-0.21
3,830.00	92.00	270.90	2,849.70	174.95	-1,116.63	1,122.39	0.96	0.43	0.86
3,923.00	91.60	271.00	2,846.78	176.49	-1,209.57	1,215.32	0.44	-0.43	0.11
4,017.00	92.40	269.80	2,843.50	177.15	-1,303.51	1,309.22	1.53	0.85	-1.28
4,110.00	91.90	269.80	2,840.01	176.82	-1,396.45	1,402.07	0.54	-0.54	0.00
4,203.00	91.90	270.10	2,836.93	176.74	-1,489.39	1,494.95	0.32	0.00	0.32
4,297.00	91.50	269.80	2,834.14	176.66	-1,583.35	1,588.84	0.53	-0.43	-0.32
4,390.00	92.40	270.50	2,830.98	176.90	-1,676.30	1,681.73	1.23	0.97	0.75
4,484.00	92.00	270.80	2,827.37	177.97	-1,770.22	1,775.63	0.53	-0.43	0.32
4,577.00	91.30	271.20	2,824.69	179.59	-1,863.17	1,868.57	0.87	-0.75	0.43
4,669.00	92.10	269.20	2,821.96	179.91	-1,955.12	1,960.48	2.34	0.87	-2.17
4,763.00	91.60	268.90	2,818.93	178.35	-2,049.06	2,054.29	0.62	-0.53	-0.32
4,856.00	91.50	268.90	2,816.41	176.57	-2,142.01	2,147.11	0.11	-0.11	0.00
4,949.00	91.50	268.80	2,813.98	174.70	-2,234.96	2,239.92	0.11	0.00	-0.11
5,042.00	91.70	269.00	2,811.38	172.92	-2,327.90	2,332.74	0.30	0.22	0.22
5,135.00	91.60	268.50	2,808.70	170.89	-2,420.84	2,425.54	0.55	-0.11	-0.54
5,229.00	91.30	268.60	2,806.32	168.51	-2,514.78	2,519.32	0.34	-0.32	0.11
5,323.00	91.60	270.10	2,803.94	167.45	-2,608.74	2,613.18	1.63	0.32	1.60
5,411.00	92.00	269.60	2,801.18	167.22	-2,696.70	2,701.06	0.73	0.45	-0.57
5,442.00	92.10	269.50	2,800.07	166.97	-2,727.68	2,732.01	0.46	0.32	-0.32



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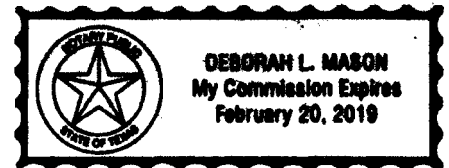
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Survey

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5,535.00	92.20	270.60	2,796.58	167.05	-2,820.61	2,824.88	1.19	0.11	1.18
5,628.00	91.60	270.30	2,793.50	167.78	-2,913.56	2,917.79	0.72	-0.65	-0.32
5,721.00	92.80	270.60	2,789.93	168.51	-3,006.48	3,010.68	1.33	1.29	0.32
5,815.00	92.70	270.30	2,785.42	169.25	-3,100.37	3,104.53	0.34	-0.11	-0.32
5,909.00	92.60	271.60	2,781.07	170.81	-3,194.26	3,198.41	1.39	-0.11	1.38
6,001.00	92.30	271.30	2,777.14	173.13	-3,286.14	3,290.32	0.46	-0.33	-0.33
6,095.00	92.80	271.30	2,772.96	175.27	-3,380.03	3,384.21	0.53	0.53	0.00
6,188.00	91.20	269.80	2,769.71	176.16	-3,472.96	3,477.11	2.36	-1.72	-1.61
6,282.00	91.20	269.10	2,767.74	175.25	-3,566.93	3,570.99	0.74	0.00	-0.74
6,375.00	91.90	269.80	2,765.23	174.36	-3,659.89	3,663.85	1.06	0.75	0.75
6,468.00	91.70	269.40	2,762.31	173.71	-3,752.85	3,756.71	0.48	-0.22	-0.43
6,562.00	91.60	269.30	2,759.60	172.65	-3,846.80	3,850.56	0.15	-0.11	-0.11
6,656.00	91.10	269.10	2,757.39	171.34	-3,940.76	3,944.41	0.57	-0.53	-0.21
6,750.00	91.30	270.20	2,755.42	170.76	-4,034.74	4,038.30	1.19	0.21	1.17
6,844.00	92.10	270.40	2,752.63	171.25	-4,128.70	4,132.21	0.88	0.85	0.21
6,937.00	92.20	270.20	2,749.14	171.74	-4,221.63	4,225.10	0.24	0.11	-0.22
7,030.00	91.80	269.80	2,745.89	171.74	-4,314.57	4,317.98	0.61	-0.43	-0.43
7,124.00	91.40	269.30	2,743.27	171.00	-4,408.53	4,411.84	0.68	-0.43	-0.53
7,217.00	91.90	270.80	2,740.59	171.08	-4,501.49	4,504.74	1.70	0.54	1.61
7,309.00	91.80	270.50	2,737.62	172.13	-4,593.44	4,596.66	0.34	-0.11	-0.33
7,403.00	91.90	270.00	2,734.59	172.54	-4,687.39	4,690.56	0.54	0.11	-0.53
7,465.00	92.00	270.20	2,732.48	172.64	-4,749.35	4,752.49	0.36	0.16	0.32
Final TDS MWD Survey									
7,541.00	92.00	270.20	2,729.82	172.91	-4,825.30	4,828.40	0.00	0.00	0.00
Projection to Bit/TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
121.00	121.00	0.07	-0.31	First TDS MWD Survey
2,859.71	2,739.75	176.75	-178.75	As-Drilled PP
7,465.00	2,732.48	172.64	-4,749.35	Final TDS MWD Survey
7,541.00	2,729.82	172.91	-4,825.30	Projection to Bit/TD



Checked By: Deborah L. Mason Approved By: [Signature] Date: 10/24/2016



10/24/16

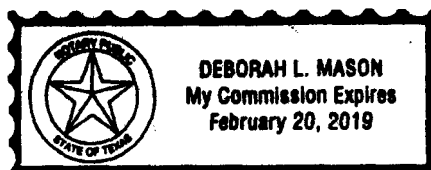
State of New Mexico
County of Eddy

I, Donald D. Mason, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 07/18/2016 through 07/25/2016 conduct or supervise the taking of a MWD survey from a depth of 121 feet to a depth of 7541 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of COG Operating LLC for the Clydesdale 1 Fee #5H Well API 30-015-43659 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.

Donald D. Mason
President

State of Texas
County of Burnet

Before me, a notary public, on this day personally appeared Donald D Mason, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.



Notary Public's Signature



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

July 27, 2016

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: Clydesdale 1 Fee #5H
2135' FSL & 150' FEL
Sec. 1, T19S, R25E
Eddy County, New Mexico

Dear Sir,

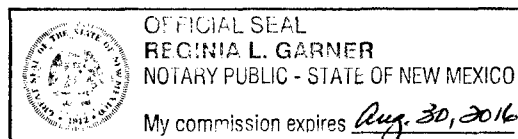
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of July, 2016.

Notary Public

Clydesdale 1 Fee 5H

Date	Depth	Deviation	Direction
7/18/2016	152	0.40	287.50
7/19/2016	241	1.00	359.30
7/19/2016	334	2.70	16.70
7/19/2016	424	4.80	25.10
7/19/2016	603	8.00	38.00
7/19/2016	781	8.50	37.70
7/19/2016	841	8.80	37.30
7/19/2016	903	9.40	37.50
7/19/2016	997	8.90	39.00
7/19/2016	1089	9.10	39.10
7/19/2016	1226	10.00	40.60
7/20/2016	1302	9.80	42.00
7/20/2016	1488	6.60	45.50
7/20/2016	1582	6.50	46.40
7/20/2016	1676	6.20	46.80
7/20/2016	1862	4.40	35.50
7/20/2016	1956	2.40	44.00
7/21/2016	2051	0.90	51.30
7/21/2016	2145	1.10	242.00
7/21/2016	2176	0.90	243.30
7/21/2016	2207	1.10	241.20
7/21/2016	2238	3.40	257.90
7/21/2016	2269	6.10	264.70
7/21/2016	2331	11.60	278.80
7/21/2016	2362	14.50	282.10
7/21/2016	2394	17.70	278.40
7/21/2016	2425	20.90	274.80
7/21/2016	2456	29.40	272.00
7/21/2016	2488	27.80	269.90
7/21/2016	2519	31.90	268.80
7/21/2016	2551	34.90	268.50
7/21/2016	2644	43.90	272.20
7/21/2016	2738	46.20	273.20
7/22/2016	2801	45.50	274.00
7/22/2016	2832	45.00	273.70
7/22/2016	2863	48.10	271.10
7/22/2016	2894	52.10	268.70
7/22/2016	2925	56.20	267.30
7/22/2016	2956	59.30	268.70
7/22/2016	3113	75.70	269.40
7/22/2016	3144	80.60	269.10
7/22/2016	3175	84.80	268.40

Date	Depth	Deviation	Direction
7/22/2016	3207	88.90	268.50
7/22/2016	3238	91.30	269.60
7/22/2016	3269	90.80	269.50
7/22/2016	3362	92.60	269.80
7/22/2016	3455	92.10	270.50
7/22/2016	3550	91.70	270.10
7/22/2016	3643	91.80	270.30
7/22/2016	3737	91.60	270.10
7/22/2016	3830	92.00	270.90
7/22/2016	4017	92.40	269.80
7/23/2016	4110	91.90	269.80
7/23/2016	4203	91.90	270.10
7/23/2016	4297	91.50	269.80
7/23/2016	4390	92.40	270.50
7/23/2016	4577	91.30	271.20
7/23/2016	4669	92.10	269.20
7/23/2016	4763	91.60	268.90
7/23/2016	4856	91.50	268.90
7/23/2016	4949	91.50	268.80
7/23/2016	5042	91.70	269.00
7/23/2016	5135	91.60	268.50
7/23/2016	5229	91.30	268.60
7/23/2016	5323	91.60	270.10
7/24/2016	5411	92.00	269.60
7/24/2016	5442	92.10	269.50
7/24/2016	5535	92.20	270.60
7/24/2016	5628	91.60	270.30
7/24/2016	5721	92.80	272.60
7/24/2016	5815	92.70	270.30
7/24/2016	5909	92.60	271.60
7/24/2016	6001	92.30	271.30
7/24/2016	6188	91.20	269.80
7/24/2016	6282	91.20	269.10
7/24/2016	6375	91.90	269.80
7/24/2016	6468	91.70	269.40
7/25/2016	6656	91.10	269.10
7/25/2016	6750	91.30	270.20
7/25/2016	6844	92.10	270.40
7/25/2016	6937	92.20	270.20
7/25/2016	7030	91.80	269.80
7/25/2016	7124	91.40	269.30
7/25/2016	7217	91.90	270.80
7/25/2016	7309	91.80	270.50
7/25/2016	7403	91.90	270.00
7/25/2016	7465	92.00	270.20