

To convert a Magnetic Direction to a Grid Direction, Add 6.62°
 To convert a Magnetic Direction to a True Direction, Add 7.01° East
 To convert a True Direction to a Grid Direction, Subtract 0.39°

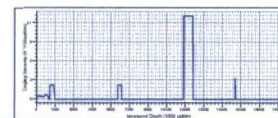
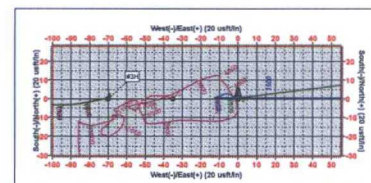
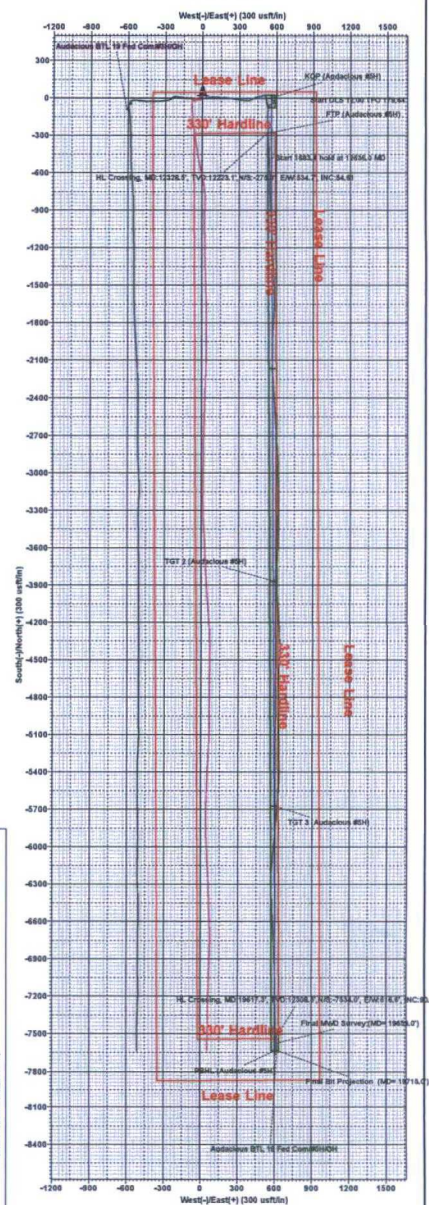
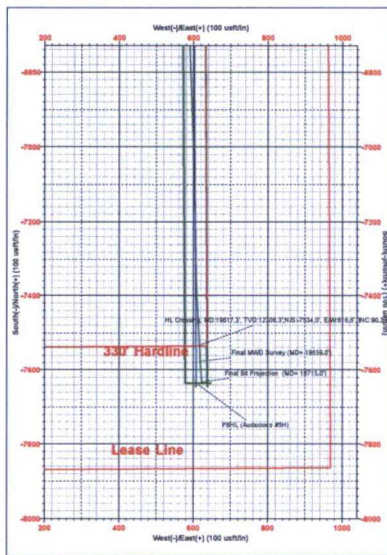
Plan #1

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Ground Level:		3435.0	
KB = 25' @ 3460.0usft			
Northing	Easting	Latitude	Longitude
406621.00	725392.00	32° 6' 56.969 N	103° 36' 19.231 W

CASING DETAILS	
No casing data is available	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Audacious #5H)	11854.5	1.9	606.0	408627.83	725952.16
PB1 (Audacious #5H)	12305.0	-7634.4	573.0	408705.20	724500.00
TGT 3 (Audacious #5H)	12312.0	-5671.0	595.3	409059.00	723987.87
TGT 2 (Audacious #5H)	12319.0	-3865.8	594.0	407759.20	723876.32
TGT 1 (Audacious #5H)	12326.0	-2162.0	572.0	404459.00	723945.62
TPT (Audacious #5H)	12332.0	-275.0	562.0	405346.00	723954.00



Lee County, MS 39423-2748
 Natchez, MS 39124
 601
 204
 P.O. Box 81
 13-08, December 21, 2017
 Jackson, MS



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Audacious BTL 19 Fed Com

#5H

OH

Design: OH

PVA Report

21 December, 2017

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #5H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3460.0usft
Site:	Audacious BTL 19 Fed Com	MD Reference:	KB = 25' @ 3460.0usft
Well:	#5H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 27 NME)		
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	Audacious BTL 19 Fed Com		
Site Position:		Northing:	406,621.00 usft
From:	Map	Easting:	725,322.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 56.974 N
		Longitude:	103° 36' 20.045 W
		Grid Convergence:	0.39 °

Well		#5H				
Well Position	+N/-S	0.0 usft	Northing:	406,621.00 usft	Latitude:	32° 6' 56.969 N
	+E/-W	0.0 usft	Easting:	725,392.00 usft	Longitude:	103° 36' 19.231 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,435.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/13/2017	7.01	59.96	47,913.78070604

Design		OH		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	175.45

Survey Program		Date 12/21/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
117.0	19,715.0	Intrepid MWD (OH)	MWD	MWD - Standard

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3460.0usft
MD Reference: KB = 25' @ 3460.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
117.0	0.50	255.40	117.0	-0.1	-0.5	0.43	0.43	0.00	0.0	0.0
306.0	0.80	332.90	306.0	0.8	-1.9	0.45	0.16	41.01	0.0	0.0
491.0	1.00	293.60	491.0	2.6	-4.0	0.34	0.11	-21.24	0.0	0.0
613.0	1.20	269.20	612.9	3.0	-6.2	0.41	0.16	-20.00	0.0	0.0
770.0	0.40	200.90	769.9	2.5	-8.1	0.71	-0.51	-43.50	0.0	0.0
956.0	0.90	258.30	955.9	1.6	-9.7	0.41	0.27	30.86	0.0	0.0
1,154.0	0.80	260.00	1,153.9	1.0	-12.6	0.05	-0.05	0.86	-1.5	-0.3
1,339.0	1.70	98.10	1,338.9	0.4	-11.2	1.34	0.49	-87.51	9.4	-1.7
1,525.0	5.30	84.40	1,524.5	0.9	0.1	1.97	1.94	-7.37	16.9	1.8
1,713.0	7.70	82.60	1,711.3	3.4	21.3	1.28	1.28	-0.96	15.1	4.6
1,902.0	7.90	83.30	1,898.5	6.5	46.7	0.12	0.11	0.37	9.0	6.9
2,092.0	8.10	81.10	2,086.7	10.1	72.9	0.19	0.11	-1.16	1.9	9.8
2,282.0	8.70	94.20	2,274.7	11.1	100.5	1.05	0.32	6.89	-3.6	10.7
2,472.0	5.50	98.60	2,463.2	8.7	123.8	1.71	-1.68	2.32	-6.6	9.0
2,662.0	5.30	93.40	2,652.3	6.8	141.6	0.28	-0.11	-2.74	-5.4	6.4
2,852.0	5.40	89.40	2,841.5	6.4	159.3	0.20	0.05	-2.11	-3.6	5.6
3,042.0	6.20	85.00	3,030.5	7.4	178.4	0.48	0.42	-2.32	-3.5	6.4
3,232.0	6.90	100.60	3,219.3	6.2	199.9	1.00	0.37	8.21	-3.4	6.2
3,422.0	5.20	100.60	3,408.2	2.5	219.6	0.89	-0.89	0.00	-3.9	2.5
3,612.0	4.40	106.10	3,597.6	-1.1	235.0	0.49	-0.42	2.89	-0.4	-1.8
3,802.0	6.90	101.20	3,786.6	-5.4	253.2	1.34	1.32	-2.58	0.6	-6.3
3,992.0	6.20	98.30	3,975.4	-9.0	274.6	0.41	-0.37	-1.53	-1.1	-9.7
4,182.0	5.80	94.30	4,164.4	-11.3	294.3	0.30	-0.21	-2.11	-0.5	-12.0
4,372.0	7.60	97.40	4,353.1	-13.6	316.3	0.97	0.95	1.63	-3.6	-14.0
4,562.0	6.40	96.90	4,541.6	-16.5	339.3	0.63	-0.63	-0.26	-6.9	-16.5
4,752.0	5.30	101.60	4,730.6	-19.5	358.4	0.63	-0.58	2.47	-8.1	-19.0

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Audacious BTL 19 Fed Com
 Well: #5H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #5H
 TVD Reference: KB = 25' @ 3460.0usft
 MD Reference: KB = 25' @ 3460.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,942.0	4.40	79.50	4,920.0	-20.0	374.2	1.08	-0.47	-11.63	3.7	-20.4
5,132.0	8.00	63.80	5,108.9	-12.8	393.2	2.08	1.89	-8.26	6.6	-11.8
5,322.0	7.70	61.80	5,297.1	-0.9	416.3	0.21	-0.16	-1.05	-1.5	-2.7
5,512.0	6.50	66.10	5,485.6	9.4	437.4	0.69	-0.63	2.26	-7.0	6.4
5,702.0	6.30	78.50	5,674.4	15.9	457.4	0.73	-0.11	6.53	-6.9	14.1
5,892.0	6.10	81.80	5,863.3	19.4	477.6	0.22	-0.11	1.74	-6.9	17.9
6,082.0	5.50	83.30	6,052.4	21.9	496.6	0.33	-0.32	0.79	-5.9	20.6
6,271.0	5.60	89.70	6,240.5	23.0	514.9	0.33	0.05	3.39	-2.1	22.3
6,461.0	5.10	88.20	6,429.6	23.3	532.6	0.27	-0.26	-0.79	-0.5	22.6
6,651.0	4.40	87.00	6,619.0	24.0	548.3	0.37	-0.37	-0.63	2.0	23.4
6,841.0	4.30	112.90	6,808.5	21.6	562.1	1.03	-0.05	13.63	5.9	20.1
7,031.0	3.50	169.20	6,998.1	13.1	569.8	1.97	-0.42	29.63	10.3	12.1
7,221.0	2.40	191.20	7,187.8	3.5	570.1	0.82	-0.58	11.58	4.7	9.5
7,411.0	1.80	213.10	7,377.7	-2.9	567.7	0.52	-0.32	11.53	1.2	8.5
7,601.0	1.40	205.40	7,567.6	-7.5	565.1	0.24	-0.21	-4.05	-5.2	8.2
7,791.0	1.20	192.60	7,757.6	-11.5	563.6	0.18	-0.11	-6.74	-11.2	6.4
7,981.0	1.00	184.50	7,947.5	-15.1	563.1	0.13	-0.11	-4.26	-15.6	4.4
8,171.0	1.00	180.60	8,137.5	-18.4	562.9	0.04	0.00	-2.05	-19.1	3.3
8,361.0	0.80	92.70	8,327.5	-20.2	564.2	0.66	-0.11	-46.26	-5.3	-20.7
8,541.0	1.40	76.60	8,507.5	-19.7	567.6	0.37	0.33	-8.94	-2.8	-21.7
8,731.0	0.90	59.90	8,697.4	-18.4	571.2	0.31	-0.26	-8.79	-0.2	-22.2
8,921.0	0.50	118.70	8,887.4	-18.1	573.2	0.41	-0.21	30.95	-20.7	-10.1
9,110.0	2.20	68.10	9,076.4	-17.1	577.3	1.02	0.90	-26.77	-9.5	-23.1
9,300.0	0.50	201.60	9,266.3	-16.5	580.4	1.35	-0.89	70.26	-8.5	25.4
9,491.0	2.10	195.50	9,457.3	-20.7	579.1	0.84	0.84	-3.19	-15.5	24.3
9,681.0	0.20	70.60	9,647.2	-23.9	578.5	1.17	-1.00	-65.74	-9.4	-29.4
9,871.0	1.00	174.50	9,837.2	-25.5	579.0	0.56	0.42	54.68	-27.9	16.5

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3460.0usft
MD Reference: KB = 25' @ 3460.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,060.0	2.20	147.20	10,026.1	-30.2	581.1	0.74	0.63	-14.44	-37.5	1.1
10,251.0	2.30	212.00	10,217.0	-36.5	581.1	1.26	0.05	33.93	-20.3	37.7
10,440.0	1.90	266.70	10,405.9	-39.9	575.9	1.04	-0.21	28.94	13.7	41.5
10,630.0	1.50	259.40	10,595.8	-40.5	570.3	0.24	-0.21	-3.84	2.7	42.5
10,820.0	1.70	252.30	10,785.8	-41.8	565.2	0.15	0.11	-3.74	-7.9	42.2
11,010.0	0.60	231.90	10,975.7	-43.3	561.7	0.61	-0.58	-10.74	-25.7	35.8
11,201.0	1.80	195.10	11,166.7	-46.8	560.2	0.72	0.63	-19.27	-45.8	12.7
11,391.0	2.10	266.90	11,356.6	-49.9	555.9	1.21	0.16	37.79	-6.7	50.3
11,580.0	2.20	248.30	11,545.5	-51.4	549.1	0.37	0.05	-9.84	-29.3	44.5
11,617.0	2.30	248.00	11,582.4	-52.0	547.7	0.27	0.27	-0.81	-31.0	44.3
11,709.0	2.10	248.90	11,674.4	-53.3	544.4	0.22	-0.22	0.98	-33.8	44.8
11,804.0	1.80	251.70	11,769.3	-54.4	541.4	0.33	-0.32	2.95	-34.8	46.5
11,886.1	4.31	205.84	11,851.3	-57.5	538.8	4.05	3.06	-55.89	-61.6	6.5
KOP (Audacious #5H)										
11,899.0	4.80	203.40	11,864.1	-58.5	538.4	4.05	3.76	-18.83	-62.8	3.8
11,947.0	15.20	188.10	11,911.4	-66.6	536.7	22.17	21.67	-31.87	-66.0	-14.2
11,994.0	22.10	188.50	11,955.9	-81.4	534.5	14.68	14.68	0.85	-72.3	-15.4
12,042.0	25.00	188.40	11,999.9	-100.4	531.7	6.04	6.04	-0.21	-77.2	-18.0
12,089.0	30.10	185.10	12,041.5	-122.0	529.2	11.32	10.85	-7.02	-78.6	-24.9
12,137.0	33.60	178.90	12,082.3	-147.3	528.4	9.97	7.29	-12.92	-76.4	-33.2
12,184.0	36.60	175.10	12,120.8	-174.2	529.9	7.89	6.38	-8.09	-72.3	-35.6
12,232.0	39.80	174.50	12,158.5	-203.8	532.6	6.71	6.67	-1.25	-66.8	-33.0
12,279.0	48.20	178.00	12,192.3	-236.3	534.6	18.60	17.87	7.45	-62.3	-28.0
12,327.0	54.50	181.50	12,222.2	-273.8	534.7	14.30	13.12	7.29	-57.7	-26.1
12,328.5	54.61	181.42	12,223.1	-275.0	534.7	8.57	7.40	-5.31	-57.6	-26.2
HL Crossing, MD:12328.5', TVD:12223.1', N/S:-275.0', E/W:534.7', INC:54.61										
12,374.0	58.00	179.10	12,248.3	-312.9	534.5	8.57	7.45	-5.10	-50.6	-27.8

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12,382.2	59.15	178.32	12,252.6	-319.9	534.7	16.20	14.04	-9.46	-49.1	-27.9
FTP (Audacious #5H)										
12,422.0	64.80	174.80	12,271.3	-354.9	536.8	16.20	14.19	-8.85	-42.4	-26.6
12,469.0	70.90	175.50	12,289.0	-398.3	540.5	13.05	12.98	1.49	-35.4	-22.6
12,517.0	76.20	177.20	12,302.6	-444.2	543.4	11.55	11.04	3.54	-27.9	-19.6
12,564.0	79.60	178.20	12,312.5	-490.1	545.3	7.53	7.23	2.13	-19.3	-17.9
12,611.0	85.50	178.10	12,318.5	-536.6	546.8	12.55	12.55	-0.21	-13.1	-16.6
12,659.0	87.70	177.90	12,321.4	-584.5	548.4	4.60	4.58	-0.42	-10.1	-15.2
12,742.0	91.50	179.80	12,322.0	-667.5	550.1	5.12	4.58	2.29	-9.2	-14.0
12,837.0	91.40	179.10	12,319.6	-762.5	551.0	0.74	-0.11	-0.74	-11.2	-13.7
12,932.0	89.80	176.90	12,318.6	-857.4	554.3	2.86	-1.68	-2.32	-11.8	-11.0
13,027.0	86.40	175.60	12,321.7	-952.1	560.5	3.83	-3.58	-1.37	-8.3	-5.4
13,122.0	88.10	177.20	12,326.3	-1,046.8	566.5	2.46	1.79	1.68	-3.3	0.0
13,217.0	91.60	179.10	12,326.5	-1,141.7	569.6	4.19	3.68	2.00	-2.7	2.4
13,312.0	90.90	177.50	12,324.5	-1,236.7	572.4	1.84	-0.74	-1.68	-4.4	4.6
13,407.0	91.40	177.10	12,322.6	-1,331.5	576.9	0.67	0.53	-0.42	-5.9	8.5
13,502.0	91.60	176.40	12,320.1	-1,426.4	582.2	0.77	0.21	-0.74	-8.0	13.3
13,597.0	90.00	178.50	12,318.7	-1,521.3	586.5	2.78	-1.68	2.21	-8.9	16.9
13,692.0	90.60	181.10	12,318.2	-1,616.2	586.8	2.81	0.63	2.74	-9.0	16.6
13,787.0	88.00	182.00	12,319.4	-1,711.2	584.2	2.90	-2.74	0.95	-7.4	13.5
13,882.0	91.20	183.20	12,320.1	-1,806.1	579.9	3.60	3.37	1.26	-6.4	8.5
13,977.0	90.50	181.80	12,318.7	-1,901.0	575.8	1.65	-0.74	-1.47	-7.4	3.8
14,072.0	91.60	181.40	12,316.9	-1,995.9	573.1	1.23	1.16	-0.42	-8.8	0.6
14,167.0	89.20	178.60	12,316.3	-2,090.9	573.1	3.88	-2.53	-2.95	-9.0	0.0
14,238.3	88.00	178.45	12,318.0	-2,162.2	575.0	1.70	-1.68	-0.21	-7.0	1.3
TGT 1 (Audacious #5H)										
14,262.0	87.60	178.40	12,318.9	-2,185.8	575.6	1.70	-1.68	-0.21	-6.0	1.8

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Database: EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,357.0	89.00	177.50	12,321.7	-2,280.7	579.0	1.75	1.47	-0.95	-2.8	4.6
14,451.0	90.10	176.00	12,322.5	-2,374.6	584.3	1.98	1.17	-1.60	-1.7	9.4
14,547.0	89.30	176.60	12,323.0	-2,470.4	590.5	1.04	-0.83	0.62	-0.8	15.0
14,641.0	89.20	175.90	12,324.2	-2,564.1	596.7	0.75	-0.11	-0.74	0.8	20.5
14,736.0	90.80	176.90	12,324.2	-2,659.0	602.6	1.99	1.68	1.05	1.2	25.9
14,831.0	87.90	175.00	12,325.3	-2,753.7	609.3	3.65	-3.05	-2.00	2.5	32.0
14,926.0	88.70	176.90	12,328.1	-2,848.4	616.1	2.17	0.84	2.00	5.7	38.1
15,021.0	90.20	179.20	12,329.0	-2,943.3	619.3	2.89	1.58	2.42	7.0	40.7
15,116.0	90.30	179.80	12,328.6	-3,038.3	620.1	0.64	0.11	0.63	6.9	41.0
15,212.0	89.00	179.30	12,329.2	-3,134.3	620.9	1.45	-1.35	-0.52	7.9	41.1
15,307.0	89.30	180.00	12,330.6	-3,229.3	621.4	0.80	0.32	0.74	9.6	41.1
15,402.0	91.10	180.30	12,330.3	-3,324.3	621.2	1.92	1.89	0.32	9.6	40.3
15,497.0	88.50	178.90	12,330.6	-3,419.3	621.9	3.11	-2.74	-1.47	10.2	40.3
15,591.0	90.50	181.40	12,331.4	-3,513.3	621.6	3.41	2.13	2.66	11.3	39.5
15,686.0	90.80	182.90	12,330.3	-3,608.2	618.1	1.61	0.32	1.58	10.5	35.3
15,781.0	90.00	182.10	12,329.7	-3,703.1	613.9	1.19	-0.84	-0.84	10.2	30.6
15,876.0	88.80	180.10	12,330.7	-3,798.1	612.1	2.46	-1.26	-2.11	11.5	28.2
15,943.5	90.49	179.40	12,331.1	-3,865.6	612.4	2.71	2.50	-1.04	12.1	28.1
TGT 2 (Audacious #5H)										
15,972.0	91.20	179.10	12,330.7	-3,894.1	612.8	2.71	2.50	-1.04	11.8	28.3
16,066.0	90.20	176.50	12,329.5	-3,988.0	616.4	2.96	-1.06	-2.77	11.0	31.3
16,161.0	90.20	176.00	12,329.2	-4,082.8	622.6	0.53	0.00	-0.53	11.0	36.9
16,256.0	91.00	175.90	12,328.2	-4,177.5	629.3	0.85	0.84	-0.11	10.5	43.0
16,351.0	90.50	177.40	12,326.9	-4,272.4	634.8	1.66	-0.53	1.58	9.5	48.0
16,446.0	92.10	179.10	12,324.8	-4,367.3	637.7	2.46	1.68	1.79	7.7	50.3
16,541.0	89.50	182.40	12,323.5	-4,462.3	636.5	4.42	-2.74	3.47	6.8	48.4
16,636.0	90.10	182.40	12,323.8	-4,557.2	632.5	0.63	0.63	0.00	7.5	43.8

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3460.0usft
MD Reference: KB = 25' @ 3460.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,731.0	89.70	181.30	12,324.0	-4,652.1	629.4	1.23	-0.42	-1.16	8.0	40.2
16,826.0	90.40	180.30	12,323.9	-4,747.1	628.1	1.28	0.74	-1.05	8.3	38.3
16,921.0	89.10	179.10	12,324.3	-4,842.1	628.6	1.86	-1.37	-1.26	9.1	38.2
17,016.0	89.50	179.60	12,325.4	-4,937.1	629.7	0.67	0.42	0.53	10.6	38.6
17,111.0	90.20	180.20	12,325.7	-5,032.1	629.9	0.97	0.74	0.63	11.2	38.2
17,206.0	89.50	178.90	12,325.9	-5,127.1	630.6	1.55	-0.74	-1.37	11.8	38.4
17,302.0	89.10	178.60	12,327.1	-5,223.1	632.7	0.52	-0.42	-0.31	13.4	39.9
17,397.0	90.40	178.40	12,327.5	-5,318.0	635.2	1.38	1.37	-0.21	14.2	41.7
17,451.0	90.50	181.30	12,327.1	-5,372.0	635.3	5.37	0.19	5.37	13.9	41.5
17,546.0	89.40	181.50	12,327.2	-5,467.0	633.0	1.18	-1.16	0.21	14.4	38.6
17,641.0	90.90	185.30	12,326.9	-5,561.8	627.4	4.30	1.58	4.00	14.5	32.4
17,735.0	88.10	185.80	12,327.8	-5,655.3	618.3	3.03	-2.98	0.53	15.8	22.6
17,751.9	87.92	185.52	12,328.3	-5,672.1	616.6	1.96	-1.04	-1.67	16.4	20.9
TGT 3 (Audacious #5H)										
17,831.0	87.10	184.20	12,331.8	-5,750.9	609.9	1.96	-1.04	-1.67	20.1	13.7
17,926.0	89.80	185.30	12,334.4	-5,845.5	602.1	3.07	2.84	1.16	23.0	5.3
18,021.0	90.10	184.30	12,334.4	-5,940.2	594.1	1.10	0.32	-1.05	23.5	-3.2
18,116.0	90.20	185.60	12,334.2	-6,034.8	585.9	1.37	0.11	1.37	23.6	-12.0
18,211.0	90.20	185.50	12,333.9	-6,129.4	576.7	0.11	0.00	-0.11	23.7	-21.7
18,306.0	92.10	181.50	12,331.9	-6,224.2	570.9	4.66	2.00	-4.21	22.1	-28.2
18,401.0	94.00	178.10	12,326.9	-6,319.0	571.3	4.10	2.00	-3.58	17.3	-28.5
18,495.0	91.40	178.10	12,322.5	-6,412.8	574.4	2.77	-2.77	0.00	13.2	-26.0
18,590.0	91.60	177.50	12,320.0	-6,507.7	578.0	0.67	0.21	-0.63	11.1	-22.9
18,685.0	89.70	176.20	12,318.9	-6,602.6	583.2	2.42	-2.00	-1.37	10.4	-18.3
18,780.0	90.30	177.30	12,318.9	-6,697.4	588.6	1.32	0.63	1.16	10.7	-13.5
18,875.0	91.80	177.50	12,317.2	-6,792.3	592.9	1.59	1.58	0.21	9.3	-9.8
18,970.0	90.40	178.10	12,315.3	-6,887.2	596.6	1.60	-1.47	0.63	7.8	-6.7

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: KB = 25' @ 3460.0usft
MD Reference: KB = 25' @ 3460.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,065.0	88.30	177.40	12,316.4	-6,982.1	600.3	2.33	-2.21	-0.74	9.2	-3.6
19,160.0	91.60	179.60	12,316.5	-7,077.1	602.8	4.17	3.47	2.32	9.6	-1.7
19,255.0	89.20	178.10	12,315.8	-7,172.1	604.7	2.98	-2.53	-1.58	9.3	-0.4
19,350.0	91.90	179.10	12,314.9	-7,267.0	607.0	3.03	2.84	1.05	8.7	1.3
19,445.0	91.90	178.70	12,311.8	-7,361.9	608.8	0.42	0.00	-0.42	5.9	2.6
19,540.0	91.10	177.00	12,309.3	-7,456.8	612.4	1.98	-0.84	-1.79	3.7	5.5
19,617.3	90.37	176.84	12,308.3	-7,534.0	616.6	0.97	-0.95	-0.21	3.0	9.2
HL Crossing, MD:19617.3', TVD:12308.3', N/S:-7534.0', E/W:616.6', INC:90.37										
19,635.0	90.20	176.80	12,308.2	-7,551.7	617.5	0.97	-0.95	-0.21	2.9	10.1
19,659.0	89.90	176.20	12,308.2	-7,575.6	619.0	2.80	-1.25	-2.50	3.0	11.4
Final MWD Survey (MD= 19659.0')										
19,715.0	89.90	176.20	12,308.3	-7,631.5	622.7	0.00	0.00	0.00	3.3	14.7
Final Bit Projection (MD= 19715.0') - PBHL (Audacious #5H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,328.5	12,223.1	-275.0	534.7	HL Crossing, MD:12328.5', TVD:12223.1', N/S:-275.0', E/W:534.7', INC:54.61
19,617.3	12,308.3	-7,534.0	616.6	HL Crossing, MD:19617.3', TVD:12308.3', N/S:-7534.0', E/W:616.6', INC:90.37
19,659.0	12,308.2	-7,575.6	619.0	Final MWD Survey (MD= 19659.0')
19,715.0	12,308.3	-7,631.5	622.7	Final Bit Projection (MD= 19715.0')

Checked By: _____ Approved By: _____ Date: _____

Bureau of Land Management
WATER PRODUCTION & DISPOSAL INFORMATION

LEASE: AUDACIOUS BTL 19 FEDERAL COM

Lease no NMNM 110838

SECTION 19, T25S, R33E

Wells: Audacious BTL 19 Federal Com #3H 30-025-43864
Audacious BTL 19 Federal Com #4H 30-025-43865
Audacious BTL 19 Federal Com #5H 30-025-43866

1. Name of formation producing water on lease: **WOLFCAMP**
2. Amount of water produced from all formations in barrels per day **3000-5000 BWPD**
3. How water is stored on lease **4 - 400 BBL Tanks**
4. How water is moved to disposal facility **Pipeline/Trucked**
5. Disposal Facility:
EOG Red Hills Gathering System - 97% of water, 3% water

- a. Name of Operator/facility well name & number

MESQUITE SWD, INC

OWL SWD OPERATING, LLC

Cotton Draw SWD #66

Maralo Sholes B #2

30-025-22024

30-025-09806

E-10-25S-32E

P-25-25S-36E

Permit No SWD 1306-0

Permit No SWD 1127-0

DACO OPERATING, LLC

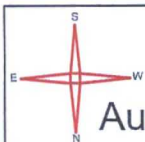
Challenger Fortress

42-301-32997

Loving County, Texas

UIC NO 114148

Type of facility or wells **SWD**



EOG Resources, Inc.

Audacious BTL Federal Com #2H

Sec. 19-T25S-R33E Unit J

2.9.2018

LEGEND

	Valve Open		Turbine/ Coriolis Meter
	Valve Closed		Oil
	Valve Sealed		Gas
	Orifice Meter		Water

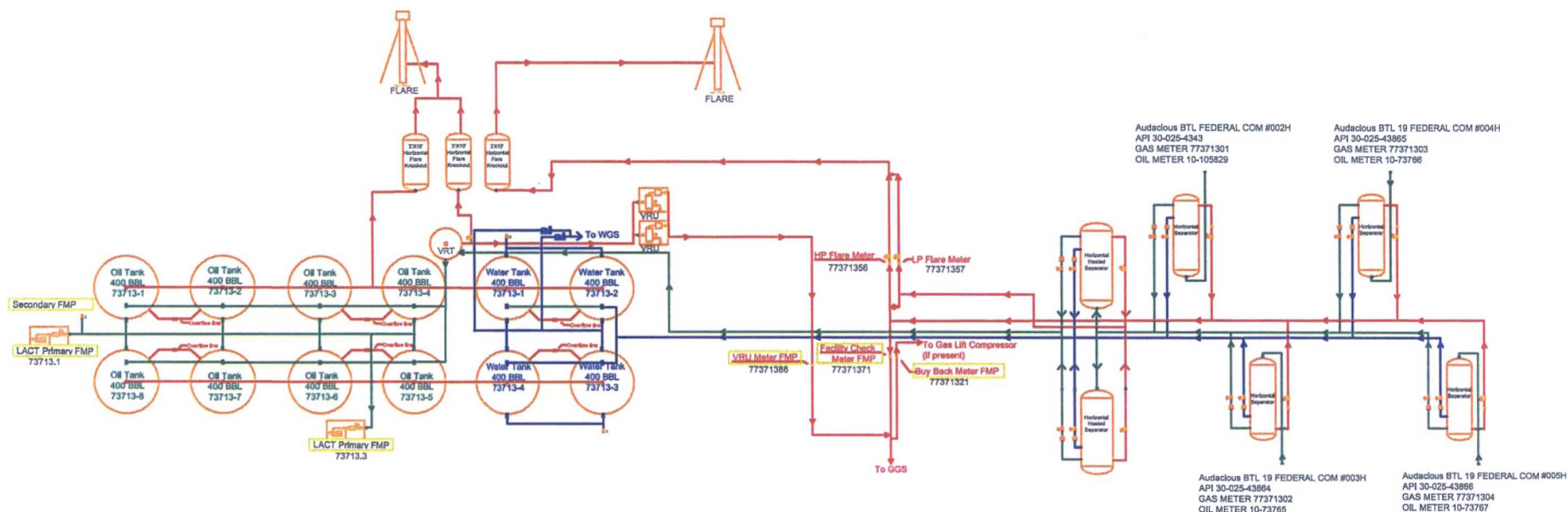
FACILITY DIAGRAM

Shown: Major equipment, vessels, process piping, and valves
Not shown: Auxiliary process systems such as fuel/ pilot gas system, gas lift system, roll lines, recirculating lines, vent lines, and small drain lines

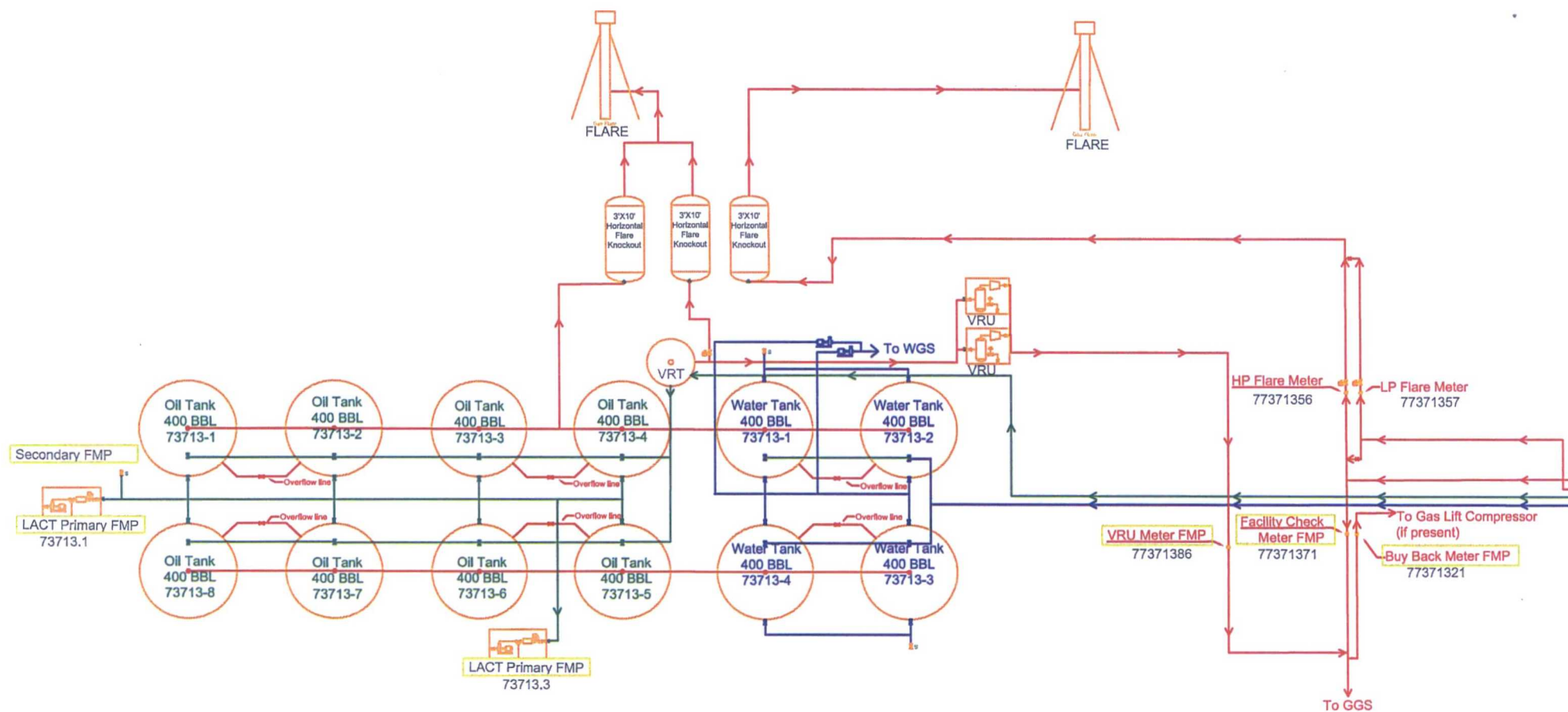
PRODUCTION PHASE: All valves that provide access to production are effectively sealed in the closed position.

SALES THROUGH LACT UNITS: Sale is measured through LACT units. All other valves that provide access to production (load-out valves) are effectively sealed in the closed position.

WATER TANKS: If the possibility for oil to enter water tanks exists through common recirculating or equalizing lines, oil tanks are isolated from water tanks by valves effectively sealed in the closed position.

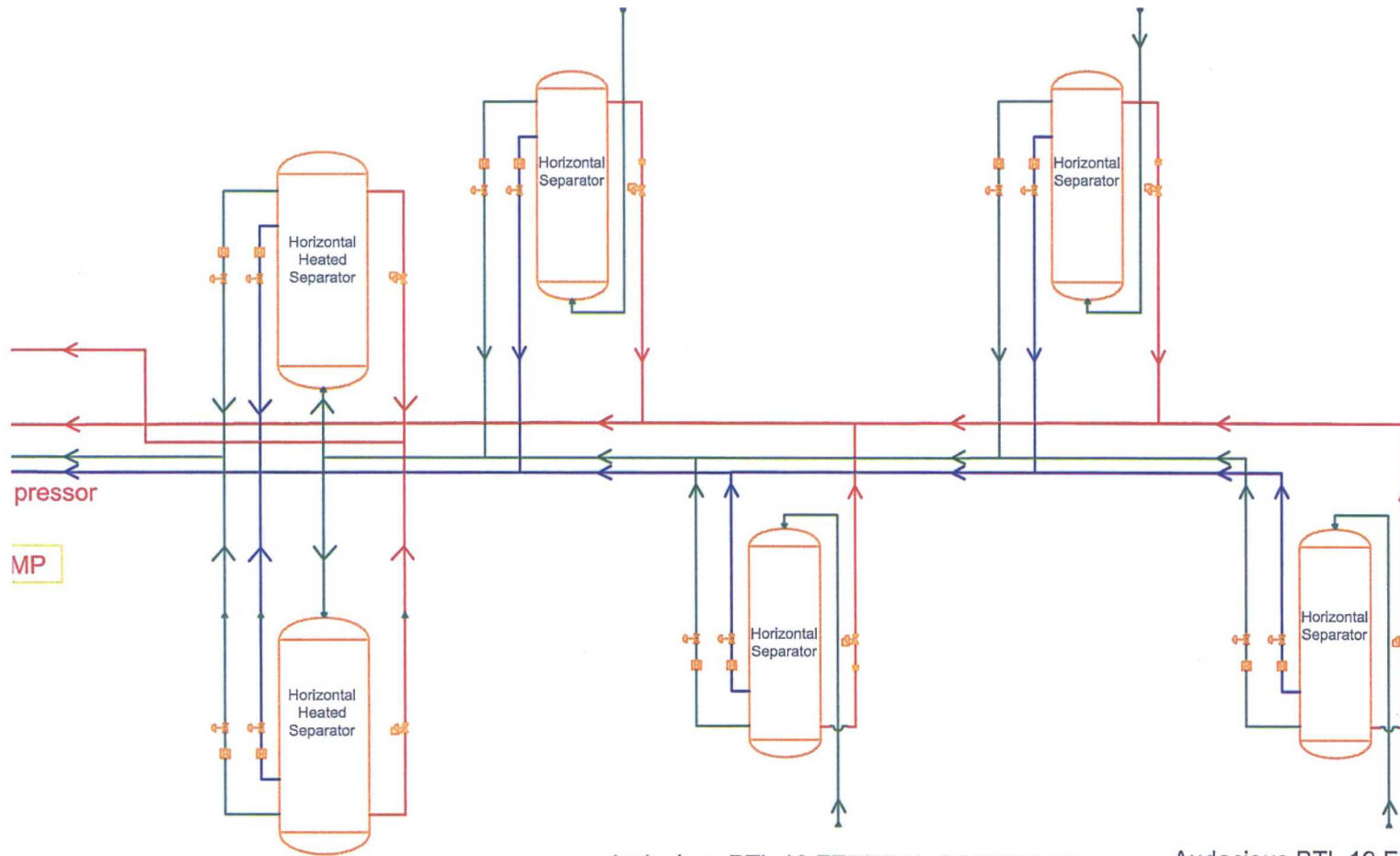


Facility Overview: Please see pages 2 and 3 for details.



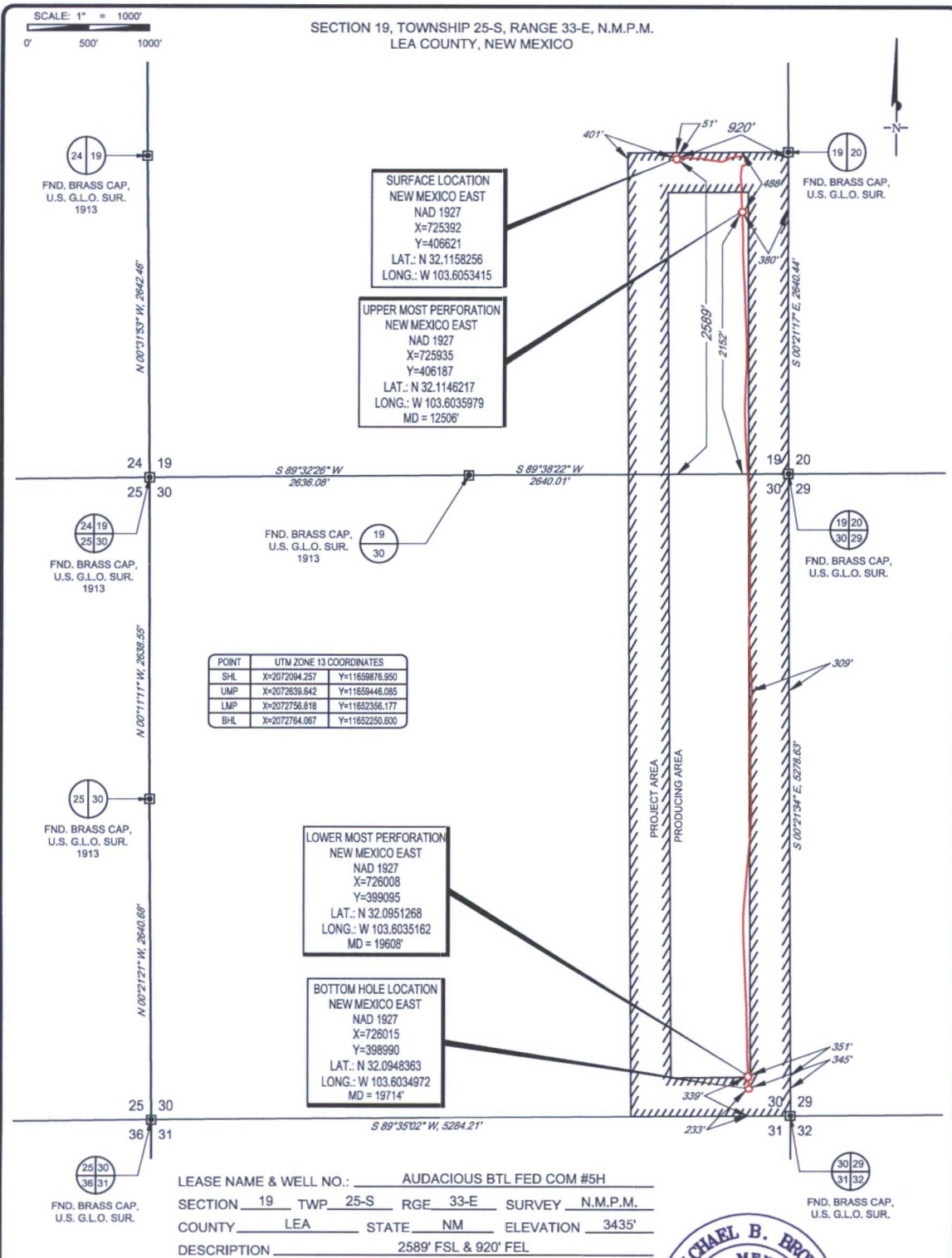
Audacious BTL FEDERAL COM #002H
 API 30-025-4343
 GAS METER 77371301
 OIL METER 10-105829

Audacious BTL 19 FEDERAL COM #004H
 API 30-025-43865
 GAS METER 77371303
 OIL METER 10-73766



Audacious BTL 19 FEDERAL COM #003H
 API 30-025-43864
 GAS METER 77371302
 OIL METER 10-73765

Audacious BTL 19 FEDERAL COM #005H
 API 30-025-43866
 GAS METER 77371304
 OIL METER 10-73767



EOG resources, Inc.

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MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Michael Blake Brown, P.S. No. 18329
JANUARY 29, 2018

AUDACIOUS BTL FED COM #5H AS-COMPLETED	REVISION:
DATE: 01/29/2018	
FILE: AD_AUDACIOUS_BTL_FED_COM_5H	
DRAWN BY: GJU	
SHEET: 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.