



HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Taipan 31 State

#503H

OH

Design: OH

Midland PVA

29 August, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Talpan 31 State
 Well: #503H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #503H
 TVD Reference: KB=25 @ 3540.0usft
 MD Reference: KB=25 @ 3540.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Talpan 31 State

Site Position:	From: Map	Northing:	425,864.00 usft	Latitude:	32° 10' 7.514 N
		Easting:	762,787.00 usft	Longitude:	103° 37' 3.528 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well #503H

Well Position	+N-S	0.0 usft	Northing:	425,864.00 usft	Latitude:	32° 10' 7.509 N
	+E-W	0.0 usft	Easting:	762,853.00 usft	Longitude:	103° 37' 2.761 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,515.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/8/2019	6.76	59.98	47,697.45506919

Design OH

Audit Notes:		Phase:	ACTUAL	Tie On Depth:	0.0
Version:	1.0				
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	10.48	

Survey Program Date 8/29/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
183.0	15,687.0	HTMWD (OH)	MWD	OWSG MWD - Standard



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Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/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	0.0
183.0	0.79	180.83	183.0	-1.2	0.4	0.43	0.43	0.00	-1.3	0.0	
242.0	0.97	189.94	242.0	-2.1	0.6	0.39	0.31	15.78	-2.1	0.3	
333.0	0.84	167.22	333.0	-3.5	0.9	0.15	-0.14	-2.99	-3.6	0.1	
422.0	1.05	146.74	422.0	-4.8	1.5	0.44	0.24	-23.01	-4.8	-1.4	
592.0	0.92	180.49	591.9	-7.5	2.4	0.34	-0.08	19.85	-7.4	2.4	
777.0	1.49	223.03	776.9	-10.7	0.7	0.55	0.31	22.99	-7.3	7.8	
869.0	2.37	221.01	868.8	-13.0	-1.4	0.96	0.96	-2.20	-10.7	7.5	
961.0	2.88	215.74	960.8	-16.3	-4.0	0.59	0.53	-5.73	-15.5	6.3	
1,133.0	2.02	183.39	1,132.6	-22.8	-6.6	0.92	-0.49	-18.81	-23.2	-5.3	
1,241.0	1.98	171.26	1,240.5	-26.6	-6.5	0.39	-0.04	-11.23	-25.1	-10.5	
1,334.0	2.37	160.80	1,333.5	-30.0	-5.6	0.60	0.42	-11.25	-23.9	-16.3	
1,425.0	4.84	135.32	1,424.3	-34.5	-2.3	3.17	2.71	-28.00	-14.6	-25.6	
1,517.0	8.26	129.69	1,515.7	-41.5	5.5	3.78	3.72	-6.12	-14.0	-26.2	
1,612.0	10.02	130.83	1,609.5	-51.2	17.1	1.86	1.85	1.20	-17.8	-24.6	
1,707.0	9.67	131.80	1,703.1	-61.9	29.3	0.41	-0.37	1.02	-20.6	-22.9	
1,801.0	9.32	130.92	1,795.8	-72.2	40.9	0.40	-0.37	-0.94	-22.1	-21.9	
1,898.0	9.10	131.80	1,889.6	-82.2	52.3	0.27	-0.23	0.93	-23.7	-20.2	
1,991.0	8.62	132.08	1,983.4	-92.0	63.2	0.51	-0.51	0.27	-24.5	-18.9	
2,086.0	8.00	133.38	2,077.4	-101.3	73.3	0.68	-0.65	1.39	-24.7	-17.3	
2,181.0	7.38	131.89	2,171.6	-109.9	82.6	0.69	-0.65	-1.57	-23.0	-16.9	
2,275.0	6.73	131.10	2,264.9	-117.6	91.3	0.70	-0.69	-0.84	-20.6	-15.9	
2,370.0	7.03	127.14	2,359.2	-124.8	100.1	0.59	0.32	-4.17	-17.0	-15.3	
2,465.0	8.53	120.64	2,453.3	-131.9	110.8	1.83	1.58	-6.84	-14.6	-13.8	
2,560.0	8.26	122.75	2,547.3	-139.1	122.6	0.43	-0.28	2.22	-15.4	-9.6	
2,655.0	7.91	122.04	2,641.3	-146.3	133.9	0.38	-0.37	-0.75	-15.1	-6.3	
2,750.0	7.60	123.80	2,735.5	-153.3	144.6	0.41	-0.33	1.85	-14.5	-2.5	



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Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,846.0	6.99	121.78	2,830.7	-159.9	154.9	0.69	-0.64	-2.10	-12.9	0.5	
2,941.0	6.95	123.54	2,925.0	-166.1	184.6	0.23	-0.04	1.85	-10.8	4.3	
3,035.0	7.08	127.41	3,018.3	-172.8	173.9	0.52	0.14	4.12	-8.3	7.6	
3,130.0	6.88	127.23	3,112.6	-179.7	183.0	0.42	-0.42	-0.19	-5.9	9.9	
3,225.0	6.68	129.34	3,207.0	-186.5	191.7	0.26	0.00	2.22	-2.7	12.2	
3,320.0	7.74	131.71	3,301.2	-194.3	200.7	1.16	1.12	2.49	-0.2	13.8	
3,414.0	7.25	130.48	3,394.4	-202.3	209.9	0.55	-0.52	-1.31	1.0	15.2	
3,509.0	6.33	130.57	3,488.7	-209.6	218.5	0.97	-0.97	0.09	3.7	16.7	
3,604.0	7.65	132.06	3,583.0	-217.3	227.1	-1.40	1.39	1.57	6.5	17.9	
3,699.0	9.05	132.94	3,677.0	-226.6	237.3	1.48	1.47	0.93	6.9	18.9	
3,794.0	8.48	126.70	3,770.9	-235.9	248.4	1.17	-0.60	-6.57	4.2	21.2	
3,889.0	9.49	126.70	3,864.7	-244.7	260.3	1.06	1.06	0.00	3.1	23.6	
3,984.0	9.23	130.75	3,958.5	-254.4	272.3	0.75	-0.27	4.26	3.2	25.4	
4,079.0	8.53	131.80	4,052.3	-264.1	283.4	0.76	-0.74	1.11	2.9	26.7	
4,173.0	7.16	127.76	4,145.5	-272.3	293.2	1.57	-1.46	-4.30	1.8	28.6	
4,268.0	7.69	132.06	4,239.7	-280.2	302.6	0.81	0.56	4.53	5.6	30.0	
4,363.0	8.79	136.90	4,333.7	-289.7	312.3	1.37	1.16	5.09	8.5	29.9	
4,458.0	8.75	133.29	4,427.6	-300.0	322.5	0.58	-0.04	-3.80	6.1	30.8	
4,553.0	9.32	132.42	4,521.4	-310.1	333.4	0.62	0.60	-0.92	4.6	31.9	
4,648.0	9.49	132.06	4,615.1	-320.6	344.9	0.19	0.18	-0.38	2.6	33.0	
4,743.0	9.85	131.54	4,708.8	-331.2	356.8	0.39	0.38	-0.55	0.5	34.3	
4,872.0	8.26	129.69	4,836.2	-344.4	372.2	1.25	-1.23	-1.43	-2.1	36.3	
5,017.0	6.99	128.02	4,979.9	-356.5	387.2	0.89	-0.88	-1.15	-1.3	39.2	
5,112.0	7.43	135.40	5,074.1	-364.5	396.1	1.08	0.46	7.77	5.8	40.2	
5,207.0	9.23	140.41	5,168.1	-374.7	405.2	2.04	1.89	5.27	9.4	39.2	
5,302.0	11.12	139.01	5,261.6	-387.5	416.1	2.01	1.99	-1.47	5.6	38.7	
5,396.0	11.03	140.33	5,353.9	-401.3	427.6	0.29	-0.10	1.40	2.2	38.0	



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,491.0	11.25	140.50	5,447.1	-415.4	439.5	0.23	0.23	0.18	-2.2	37.1
5,588.0	10.81	139.45	5,540.3	-429.3	451.2	0.51	-0.48	-1.11	-7.1	38.2
5,681.0	11.12	139.62	5,633.6	-443.1	462.9	0.33	0.33	0.18	-11.2	35.6
5,778.0	11.12	139.53	5,726.8	-457.0	474.8	0.02	0.00	-0.09	-15.7	35.0
5,871.0	10.59	140.24	5,820.1	-470.7	486.3	0.58	-0.56	0.75	-19.2	34.4
5,966.0	10.73	139.36	5,913.5	-484.1	497.6	0.23	0.15	-0.93	-23.4	33.4
6,061.0	10.42	140.85	6,006.8	-497.5	508.8	0.44	-0.33	1.57	-26.1	33.3
6,158.0	10.15	139.45	6,100.3	-510.5	519.7	0.39	-0.28	-1.47	-29.9	31.8
6,251.0	9.98	139.18	6,193.9	-523.1	530.5	0.19	-0.18	-0.28	-32.8	31.1
6,346.0	9.98	139.71	6,287.4	-535.6	541.2	0.10	0.00	0.56	-35.0	30.7
6,441.0	10.07	139.80	6,381.0	-548.2	551.9	0.10	0.09	0.09	-37.6	30.1
6,536.0	9.76	141.56	6,474.6	-560.9	562.3	0.48	-0.33	1.85	-39.1	30.3
6,631.0	7.60	137.60	6,568.5	-571.8	571.5	2.36	-2.27	-4.17	-41.5	26.9
6,726.0	6.55	135.23	6,662.7	-580.3	579.6	1.15	-1.11	-2.49	-40.2	25.3
6,820.0	6.11	137.51	6,756.2	-587.8	586.7	0.54	-0.47	2.43	-35.7	26.9
6,915.0	5.93	138.39	6,850.6	-595.2	593.4	0.21	-0.19	0.93	-31.3	27.2
7,010.0	5.76	139.45	6,945.1	-602.5	599.7	0.21	-0.18	1.12	-28.4	27.2
7,105.0	5.93	134.79	7,039.6	-609.6	606.3	0.53	0.18	-4.91	-24.6	25.1
7,200.0	4.62	128.81	7,134.2	-615.4	612.8	1.49	-1.38	-6.29	-25.1	23.4
7,295.0	3.30	119.41	7,229.0	-619.2	618.2	1.54	-1.39	-9.89	-27.7	20.7
7,390.0	2.02	97.43	7,323.9	-620.7	622.2	1.70	-1.35	-23.14	-34.1	10.7
7,485.0	1.98	79.42	7,418.9	-620.7	625.5	0.66	-0.04	-18.96	-38.2	0.3
7,580.0	2.07	84.51	7,513.8	-620.2	628.8	0.21	0.09	5.36	-41.4	3.9
7,675.0	2.11	88.47	7,608.7	-620.0	632.2	0.16	0.04	4.17	-44.4	6.8
7,770.0	0.44	259.68	7,703.7	-620.0	633.6	2.68	-1.76	180.22	46.3	0.3
7,864.0	1.58	274.53	7,797.7	-620.0	632.0	1.23	1.21	15.80	43.2	-11.5
7,959.0	1.41	275.33	7,892.7	-619.7	629.5	0.18	-0.18	0.84	40.6	-12.1



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8,054.0	1.27	272.85	7,987.8	-619.8	827.3	0.16	-0.15	-2.51	38.8	-10.4	
8,149.0	1.19	260.12	8,082.6	-619.7	825.3	0.30	-0.08	-13.51	38.2	-1.8	
8,244.0	1.05	250.01	8,177.6	-620.2	823.5	0.25	-0.15	-10.64	36.0	4.8	
8,339.0	1.05	243.42	8,272.6	-620.9	821.9	0.13	0.00	-8.94	33.5	8.8	
8,434.0	1.01	226.81	8,367.6	-621.8	820.5	0.32	-0.04	-17.48	27.9	17.7	
8,529.0	1.14	221.18	8,462.6	-623.1	819.3	0.18	-0.14	-5.93	24.3	20.3	
8,624.0	1.38	209.58	8,557.5	-624.8	818.1	0.35	0.23	-12.21	17.8	24.6	
8,719.0	1.49	205.80	8,652.5	-628.9	817.0	0.17	0.14	-3.98	13.6	25.6	
8,814.0	1.49	203.87	8,747.5	-629.1	816.0	0.05	0.00	-2.03	10.3	26.0	
8,909.0	1.76	203.43	8,842.4	-631.6	814.9	0.28	0.28	-0.46	7.4	26.1	
9,004.0	1.88	207.39	8,937.4	-634.4	813.5	0.27	0.23	4.17	6.1	25.6	
9,099.0	1.89	214.15	9,032.3	-637.1	811.9	0.26	-0.09	7.12	5.9	24.9	
9,194.0	2.20	214.24	9,127.3	-639.9	810.0	0.33	0.33	0.09	2.5	24.9	
9,288.0	2.15	209.76	9,221.2	-643.0	808.1	0.19	-0.05	-4.77	-3.0	24.9	
9,383.0	1.98	202.11	9,316.1	-646.0	806.6	0.34	-0.18	-8.05	-9.7	24.0	
9,478.0	1.98	212.31	9,411.1	-648.9	805.1	0.37	0.00	10.74	-8.5	25.7	
9,573.0	2.33	238.41	9,506.0	-651.3	802.6	1.09	0.37	27.47	0.2	27.5	
9,668.0	3.52	241.05	9,600.9	-653.8	598.4	1.28	1.25	2.78	-3.4	27.6	
9,763.0	3.78	236.30	9,695.7	-656.9	593.2	0.42	0.27	-5.00	-11.7	27.0	
9,858.0	3.47	239.73	9,790.5	-660.1	588.2	0.40	-0.33	3.61	-16.0	27.8	
9,952.0	2.68	311.80	9,824.4	-660.1	582.3	2.74	-0.59	53.78	17.1	27.7	
10,047.0	2.46	284.92	10,019.3	-657.7	578.8	0.83	-0.23	-17.77	4.2	30.8	
10,141.0	2.64	294.40	10,113.2	-656.0	575.0	0.19	0.19	-0.55	-0.3	30.8	
10,236.0	11.38	352.32	10,207.4	-645.8	571.8	10.76	9.20	60.97	15.5	18.6	
10,331.0	21.19	352.32	10,298.5	-619.4	568.2	10.33	10.33	0.00	-1.1	19.7	
10,426.0	25.32	356.36	10,385.8	-582.1	564.6	4.66	4.35	4.25	-12.7	22.4	
10,521.0	34.59	2.25	10,468.0	-534.7	564.4	10.23	9.76	6.20	-18.7	23.7	



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10,658.0	38.74	0.84	10,543.7	-477.4	565.9	5.49	5.42	-1.48	-23.1	21.4
10,751.0	48.62	359.79	10,611.8	-411.3	566.2	9.38	9.35	-1.11	-22.5	20.2
10,845.0	58.73	358.91	10,667.4	-335.6	565.3	10.78	10.76	-0.94	-21.2	20.4
10,940.0	70.88	359.35	10,707.8	-249.8	564.0	12.78	12.77	0.46	-21.7	21.1
11,035.0	77.19	359.79	10,733.9	-158.6	563.3	6.68	6.66	0.46	-21.3	21.2
11,130.0	86.90	359.09	10,747.0	-84.6	562.4	10.25	10.22	-0.74	-17.9	21.4
11,224.0	88.00	359.28	10,751.2	29.3	561.1	1.18	1.17	0.18	-14.6	22.1
11,319.0	88.51	359.70	10,755.8	124.2	560.2	1.64	-1.57	0.46	-10.9	22.2
11,414.0	87.03	359.88	10,761.1	219.0	559.9	0.58	0.55	0.19	-8.4	21.9
11,509.0	88.00	359.52	10,765.2	313.9	559.4	1.09	1.02	-0.38	-3.2	21.7
11,604.0	88.26	359.44	10,768.3	408.9	558.5	0.29	0.27	-0.08	-1.0	21.8
11,698.0	88.66	359.35	10,770.9	502.8	557.5	0.44	0.43	-0.10	0.7	22.1
11,793.0	89.10	358.38	10,772.7	597.8	555.8	1.12	0.46	-1.02	1.6	23.3
11,888.0	88.70	358.56	10,774.5	692.8	553.1	0.46	-0.42	0.19	2.6	25.1
11,983.0	88.70	357.94	10,776.7	787.7	550.2	0.65	0.00	-0.65	3.8	27.3
12,078.0	89.83	359.79	10,778.1	882.7	548.3	2.18	0.88	1.95	4.3	28.5
12,173.0	90.77	0.40	10,777.7	977.7	548.5	1.36	1.20	0.64	3.4	27.6
12,268.0	92.22	0.84	10,775.3	1,072.8	549.5	1.59	1.53	0.46	0.6	25.9
12,362.0	90.46	0.05	10,773.1	1,166.6	550.2	2.05	-1.87	-0.84	-2.0	24.5
12,457.0	91.34	0.23	10,771.8	1,261.6	550.5	0.95	0.93	0.19	-3.9	23.5
12,552.0	89.36	359.70	10,771.0	1,356.6	550.4	2.16	-2.08	-0.58	-4.8	22.9
12,647.0	89.67	359.88	10,771.8	1,451.6	550.0	0.38	0.33	0.19	-4.4	22.5
12,742.0	90.73	0.05	10,771.5	1,546.6	550.0	1.13	1.12	0.18	-5.1	21.9
12,836.0	89.14	0.32	10,771.6	1,640.5	550.3	1.72	-1.69	0.29	-5.3	20.9
12,931.0	89.78	0.40	10,772.5	1,735.5	550.9	0.66	0.65	0.08	-4.8	19.6
13,026.0	90.68	0.49	10,772.1	1,830.5	551.6	0.97	0.97	0.09	-5.5	18.1
13,121.0	89.10	0.14	10,772.3	1,925.5	552.1	1.70	-1.66	-0.37	-5.7	16.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #503H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3540.0usft
Site:	Talpan 31 State	MD Reference:	KB=25 @ 3540.0usft
Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,216.0	89.23	359.88	10,773.7	2,020.5	552.2	0.31	0.14	-0.27	-4.7		16.2
13,311.0	89.85	0.76	10,774.4	2,115.5	552.7	1.13	0.65	0.93	-4.3		15.0
13,405.0	90.51	1.11	10,774.2	2,209.5	554.2	0.79	0.70	0.37	-5.0		12.7
13,501.0	90.95	1.02	10,772.9	2,305.5	556.0	0.47	0.46	-0.09	-8.6		10.2
13,595.0	90.51	0.84	10,771.7	2,399.5	557.5	0.51	-0.47	-0.19	-8.1		8.0
13,690.0	89.58	0.84	10,771.7	2,494.4	558.9	0.98	-0.98	0.00	-8.6		5.9
13,785.0	90.95	1.02	10,771.2	2,589.4	560.5	1.45	1.44	0.19	-9.4		3.7
13,880.0	89.54	1.19	10,770.8	2,684.4	562.3	1.49	-1.48	0.18	-10.2		1.1
13,975.0	89.23	1.55	10,771.8	2,779.4	564.6	0.50	-0.33	0.38	-9.5		-1.8
14,070.0	88.13	358.73	10,774.0	2,874.3	564.8	3.19	-1.16	-2.97	-7.7		-2.8
14,165.0	89.01	358.73	10,776.4	2,969.3	562.7	0.93	0.93	0.00	-5.7		-1.4
14,259.0	89.71	358.29	10,777.4	3,063.2	560.3	0.88	0.74	-0.47	-5.0		0.4
14,354.0	90.55	358.47	10,777.2	3,158.2	557.6	0.90	0.88	0.19	-5.6		2.3
14,449.0	91.91	358.91	10,775.2	3,253.2	555.4	1.50	1.43	0.46	-8.0		3.8
14,544.0	88.84	358.65	10,774.6	3,348.1	553.4	3.24	-3.23	-0.27	-9.0		5.1
14,639.0	89.58	358.56	10,775.9	3,443.1	551.1	0.78	0.78	-0.09	-8.1		6.7
14,734.0	90.37	357.15	10,775.9	3,538.0	547.5	1.70	0.83	-1.48	-8.4		9.6
14,829.0	91.78	358.91	10,774.1	3,632.9	544.2	2.37	1.48	1.85	-10.6		12.2
14,924.0	89.80	356.62	10,772.8	3,727.8	540.5	3.19	-2.08	-2.41	-12.3		15.1
15,019.0	89.49	358.47	10,773.4	3,822.8	536.5	1.97	-0.33	1.95	-12.0		18.5
15,113.0	87.16	359.52	10,776.2	3,916.7	534.8	2.72	-2.48	1.12	-9.6		19.5
15,208.0	87.34	0.32	10,780.7	4,011.6	534.7	0.86	0.19	0.84	-5.5		18.9
15,303.0	88.40	0.32	10,784.2	4,106.5	535.2	1.12	1.12	0.00	-2.5		17.7
15,398.0	88.75	1.19	10,786.6	4,201.5	536.5	0.99	0.37	0.92	-0.7		15.7
15,493.0	90.42	1.55	10,787.3	4,296.4	538.7	1.80	1.76	0.38	-0.6		12.7
15,587.0	90.42	1.55	10,785.9	4,490.4	544.0	0.00	0.00	0.00	-3.1		6.0



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Talpan 31 State
Well: #503H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #503H
TVD Reference: KB=25 @ 3540.0usft
MD Reference: KB=25 @ 3540.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+NLS (usft)	+EAW (usft)	
10,190.0	10,122.2	-655.7	574.6	KOP, MD:10190.0', TVD:10122.2', N/S:-655.7', E/W:574.6', INC:3.10
10,483.4	10,401.4	-574.4	564.2	FTP Crossing, MD:10483.4', TVD:10401.4', N/S:-574.4', E/W:564.2', INC:27.00
15,493.0	10,787.3	4,296.4	538.7	Last MWD Survey (MD=15493.0')
15,687.0	10,785.9	4,490.4	544.0	Projection to Bit (MD=15687.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Signed Kay Maddox Date 11/15/2019



Lea County, NM (NAD 83 NME)

Taipan 31 State #503H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #503H

KB = 25 @ 3534.0usft
Northing 425884.00 Easting 782853.00
Latitude 32° 10' 7.509 N Longitude 103° 37' 2.781 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1622.8	8.46	138.88	1621.3	-22.7	21.3	2.00	138.88	-18.5	
4	7049.2	8.46	138.88	6988.7	-605.3	566.7	0.00	0.00	-492.1	
5	7472.1	0.00	0.00	7410.0	-628.0	588.0	2.00	180.00	-510.6	Brushy Top(Taipan 31 State #503H)
6	10248.1	0.00	0.00	10186.0	-628.0	588.0	0.00	0.00	-510.6	
7	11142.7	89.46	359.58	10758.9	-60.4	563.8	10.00	359.58	46.8	TGT#1(Taipan 31 State #503H)
8	12113.5	89.46	359.58	10768.0	910.3	576.6	0.00	1000.0	0.0	TGT#2(Taipan 31 State #503H)
9	12129.0	89.78	359.58	10768.1	925.8	576.5	2.00	0.00	1015.3	
10	15168.7	89.78	359.58	10780.0	3965.4	553.9	0.00	0.00	4000.0	
11	15173.7	89.68	359.58	10780.0	3970.4	553.9	2.00	180.00	4004.9	
12	15699.3	89.68	359.58	10783.0	4496.0	550.0	0.00	0.00	4521.0	PBHL(Taipan 31 State #503H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Taipan 31 State #503H)	7410.0	-628.0	588.0	425298.00	783441.00
TGT#1(Taipan 31 State #503H)	10758.0	910.3	576.6	428774.30	783429.59
TGT#2(Taipan 31 State #503H)	10760.0	3965.4	553.9	428526.40	783406.83
PBHL(Taipan 31 State #503H)	10783.0	4496.0	550.0	427340.00	783423.00
PTP(Taipan 31 State #503H)	10783.0	-574.0	528.0	428290.00	783441.00

