

HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#723H

OH

Design: OH

Midland PVA

23 September, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #723H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #723H
 TVD Reference: KB = 25 @ 3483.0usft
 MD Reference: KB = 25 @ 3483.0usft
 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	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Valiant 24 Fed Com		
Site Position:		Northing:	408,151.00 usft
From:	Map	Easting:	760,107.00 usft
Position Uncertainty:	0.0 usft	Grid Convergence:	0.38 °
		Latitude:	32° 8' 52.620 N
		Longitude:	103° 37' 36.212 W
		Slot Radius:	13-3/16 "

Well	#723H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 8' 52.603 N
		Longitude:	103° 37' 36.598 W
		Ground Level:	3,458.0 usft

Wellbore	OH		
Magnetica	Model Name	Sample Date	Declination (°)
	IGRF2015	1/7/2019	6.80
			Dip Angle (°)
			59.93
			Field Strength (nT)
			47,707.01215353

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°)
			178.36

Survey Program	Date 9/23/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
169.0	20,059.0	Prodirection MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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MD (usft)	Inc (°)	Ad (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulid (°/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
169.0	0.70	285.80	169.0	0.4	-0.9	0.41	0.41	0.00	-1.0	0.0	
314.0	0.80	299.00	314.0	1.3	-2.6	0.07	0.07	2.21	-2.9	0.1	
485.0	0.80	270.00	485.0	1.9	-4.6	0.23	-0.12	-16.96	-4.6	-1.8	
674.0	0.60	256.10	674.0	1.7	-6.5	0.08	0.00	-7.35	-5.9	-3.2	
862.0	0.70	247.10	861.9	1.0	-8.5	0.08	0.05	-4.79	-7.5	-4.2	
1,041.0	0.70	246.80	1,040.9	0.1	-10.5	0.00	0.00	-0.17	-9.6	-4.3	
1,229.0	0.70	243.50	1,228.9	-0.8	-12.6	0.02	0.00	-1.76	-11.7	-4.9	
1,418.0	0.50	250.40	1,417.9	-1.6	-14.4	0.11	-0.11	3.65	-14.1	-3.3	
1,605.0	0.50	227.70	1,604.9	-2.5	-15.8	0.11	0.00	-12.14	-13.3	-8.8	
1,794.0	0.40	268.30	1,793.9	-3.0	-17.1	0.17	-0.05	21.48	-17.1	2.5	
1,981.0	0.40	265.10	1,980.9	-3.1	-18.4	0.01	0.00	-1.71	-18.6	1.5	
2,170.0	0.60	297.60	2,169.9	-2.7	-19.9	0.18	0.11	17.20	-16.4	11.6	
2,357.0	0.70	324.10	2,356.9	-1.3	-21.4	0.17	0.05	14.17	-11.5	18.1	
2,544.0	3.60	5.80	2,543.7	5.4	-21.5	1.66	1.55	22.30	-2.9	22.0	
2,731.0	5.50	14.60	2,730.1	20.0	-18.7	1.08	1.02	4.71	-5.4	23.7	
2,918.0	6.50	19.50	2,916.1	38.6	-12.9	0.60	0.53	2.62	-4.1	24.6	
3,105.0	6.30	22.50	3,101.9	58.1	-5.4	0.21	-0.11	1.60	-4.2	24.0	
3,293.0	5.70	25.70	3,288.9	76.0	2.6	0.37	-0.32	1.70	-3.0	22.4	
3,481.0	8.30	24.60	3,475.5	96.8	12.3	1.38	1.38	-0.59	-6.8	20.1	
3,669.0	8.40	29.50	3,660.5	120.9	24.6	0.38	0.05	2.62	-13.0	18.1	
3,857.0	7.70	34.50	3,847.7	143.4	38.6	0.52	-0.37	2.65	-18.8	15.0	
4,045.0	5.90	29.90	4,034.3	162.1	50.6	1.00	-0.88	-2.45	-22.9	8.8	
4,232.0	5.50	44.50	4,220.4	176.9	61.6	0.80	-0.21	7.81	-20.7	7.9	
4,419.0	4.70	40.00	4,406.7	189.1	72.8	0.48	-0.43	-2.41	-19.6	-1.5	
4,605.0	3.60	46.20	4,592.2	199.0	81.9	0.64	-0.59	3.33	-15.8	-7.6	
4,792.0	4.70	13.10	4,778.7	210.5	87.9	1.38	0.59	-17.70	-2.3	-16.3	



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,980.0	3.80	13.60	4,986.2	224.1	91.1	0.48	-0.48	0.27	3.2	-14.5
5,188.0	5.20	13.10	5,153.8	238.4	94.5	0.74	0.74	-0.27	8.2	-12.8
5,357.0	5.50	14.60	5,341.8	255.5	88.8	0.18	0.16	0.79	10.0	-11.2
5,544.0	5.20	16.00	5,528.0	272.4	103.3	0.17	-0.16	0.75	11.8	-10.3
5,731.0	6.00	11.80	5,714.1	290.1	107.7	0.48	0.43	-2.25	13.7	-7.7
5,920.0	5.60	13.10	5,902.1	308.7	111.8	0.22	-0.21	0.69	14.1	-5.9
6,107.0	4.80	12.70	6,088.3	325.2	115.6	0.43	-0.43	-0.21	16.6	-3.8
6,295.0	6.20	16.20	6,275.5	342.7	120.1	0.77	0.74	1.88	18.0	-3.5
6,482.0	6.90	18.90	6,461.2	363.0	126.6	0.41	0.37	1.44	16.1	-3.9
6,669.0	6.10	18.80	6,647.0	383.0	133.4	0.43	-0.43	-0.05	14.4	-4.0
6,857.0	5.00	19.40	6,834.2	400.2	139.4	0.59	-0.59	0.32	15.9	-4.3
7,045.0	4.00	19.40	7,021.6	414.1	144.3	0.53	-0.53	0.00	20.8	-4.5
7,231.0	3.40	20.00	7,207.2	425.4	148.3	0.32	-0.32	0.32	28.2	-5.1
7,419.0	3.90	21.80	7,394.8	436.6	152.6	0.27	0.27	0.96	33.9	-6.8
7,608.0	2.20	27.20	7,581.5	445.7	156.6	0.92	-0.91	2.89	29.8	-10.4
7,793.0	1.70	28.50	7,768.4	451.3	159.6	0.27	-0.27	0.70	23.2	-11.0
7,981.0	1.10	27.80	7,956.4	455.4	161.7	0.32	-0.32	-0.32	18.8	-10.8
8,167.0	0.60	47.10	8,142.4	457.6	163.3	0.31	-0.27	10.32	11.5	-15.8
8,354.0	0.40	68.10	8,329.3	458.5	164.6	0.14	-0.11	11.23	3.5	-16.5
8,541.0	0.30	142.10	8,516.3	458.4	165.5	0.23	-0.05	39.57	-17.5	-7.9
8,727.0	0.60	186.80	8,702.3	457.0	165.7	0.24	0.16	24.03	-19.3	7.0
8,915.0	0.80	203.50	8,890.3	454.8	165.1	0.15	0.11	8.88	-18.7	12.6
9,103.0	1.00	196.80	9,078.3	452.1	164.1	0.12	0.11	-3.51	-23.0	10.2
9,290.0	1.00	153.00	9,265.3	449.1	164.3	0.40	0.00	-23.48	-28.4	-9.7
9,478.0	1.50	136.50	9,454.2	445.8	166.8	0.32	0.26	-8.73	-26.6	-17.3
9,667.0	0.90	156.70	9,642.2	442.7	169.1	0.39	-0.32	10.74	-34.7	-6.2
9,854.0	2.10	135.50	9,829.1	438.9	172.0	0.70	0.64	-11.34	-34.9	-18.9



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MD (usft)	Inc (")	Asd (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
10,041.0	1.00	182.80	10,016.1	434.8	174.1	0.95	-0.59	30.84	-38.2	22.1	
10,228.0	1.20	245.70	10,203.0	432.4	171.9	0.53	0.11	28.29	-8.4	45.1	
10,415.0	0.20	0.50	10,390.0	431.9	170.2	0.89	-0.53	61.39	45.0	-9.5	
10,603.0	2.70	87.10	10,577.9	431.7	174.5	1.45	1.33	51.38	-19.0	-43.3	
10,789.0	1.80	2.80	10,763.8	434.1	179.0	1.80	-0.48	-50.70	42.0	-20.1	
10,976.0	1.10	216.90	10,950.8	435.6	178.1	1.49	-0.37	-78.02	-22.8	38.5	
11,163.0	4.30	222.00	11,137.6	429.0	172.3	1.71	1.71	2.73	-28.1	40.8	
11,351.0	4.30	238.80	11,325.1	420.1	161.6	0.67	0.00	8.94	-28.9	49.0	
11,538.0	3.50	247.90	11,511.6	414.3	150.3	0.54	-0.43	4.87	-33.5	54.1	
11,666.0	3.40	227.60	11,639.4	410.3	143.9	0.95	-0.08	-15.86	-57.6	37.8	
11,760.0	3.20	289.40	11,733.3	409.7	139.5	4.12	-0.21	78.38	14.3	69.2	
11,853.0	7.30	338.70	11,825.9	416.5	135.1	5.62	4.41	42.26	46.8	46.3	
11,946.0	6.90	339.90	11,918.2	427.2	131.1	0.46	-0.43	1.29	38.3	45.4	
12,040.0	6.50	335.70	12,011.5	437.4	126.9	0.67	-0.43	-4.47	22.0	47.4	
12,133.0	2.30	272.00	12,104.3	442.2	122.9	6.30	-4.52	-68.49	-37.5	27.5	
12,227.0	24.70	177.90	12,195.4	422.3	121.7	26.56	23.83	-100.11	-17.8	-40.1	
12,321.0	40.50	173.40	12,274.4	372.1	126.0	16.99	16.81	-4.79	-22.2	-37.7	
12,414.0	41.80	176.60	12,344.4	311.1	131.3	2.66	1.40	3.44	-25.2	-31.8	
12,507.0	46.20	187.10	12,411.4	246.8	129.0	9.15	4.73	11.29	-15.9	-32.3	
12,601.0	68.30	179.80	12,461.9	168.4	124.9	24.38	23.51	-7.77	-2.9	-38.0	
12,694.0	80.60	170.80	12,486.9	79.4	132.4	16.17	13.23	-9.68	-1.5	-31.1	
12,750.0	79.60	170.30	12,496.5	25.0	141.5	1.99	-1.79	-0.89	1.9	-22.3	
12,880.0	88.00	175.40	12,510.5	-103.1	157.5	7.55	6.48	3.92	14.3	-7.1	
12,974.0	88.90	176.00	12,513.1	-196.8	164.5	1.15	0.98	0.64	16.6	-0.6	
13,069.0	89.50	178.50	12,514.4	-291.6	170.7	0.82	0.63	0.53	17.6	5.0	
13,162.0	91.30	179.00	12,513.6	-384.5	174.4	3.31	1.94	2.69	16.7	8.1	
13,256.0	89.60	179.60	12,513.0	-478.5	175.5	1.92	-1.81	0.64	15.7	8.8	



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13,351.0	90.40	181.80	12,513.0	-573.5	174.5	2.27	0.84	2.11	15.5	7.0
13,445.0	90.70	182.30	12,512.1	-687.4	171.3	0.81	0.32	0.74	14.3	3.3
13,539.0	91.40	184.00	12,510.4	-781.3	168.2	1.98	0.74	1.81	12.3	-2.5
13,634.0	89.20	181.00	12,509.9	-858.2	182.0	3.92	-2.32	-3.16	11.6	-7.2
13,728.0	88.70	180.40	12,511.6	-950.1	180.9	0.83	-0.53	-0.64	13.1	-8.8
13,821.0	88.20	180.70	12,514.1	-1,043.1	180.0	0.83	-0.54	0.32	15.3	-10.4
13,915.0	87.60	180.40	12,517.6	-1,137.0	159.1	0.71	-0.64	-0.32	18.5	-11.9
14,009.0	90.80	179.60	12,519.1	-1,231.0	159.1	3.30	3.19	-0.85	19.7	-12.5
14,103.0	92.20	180.20	12,516.8	-1,325.0	159.3	1.82	1.70	0.64	17.2	-12.9
14,197.0	92.40	180.50	12,513.0	-1,418.9	158.7	0.38	0.21	0.32	13.1	-14.0
14,290.0	91.00	179.90	12,510.2	-1,511.9	158.4	1.64	-1.51	-0.65	10.1	-14.8
14,384.0	90.10	179.30	12,509.3	-1,605.8	159.0	1.15	-0.98	-0.64	9.0	-14.9
14,477.0	90.20	180.40	12,509.1	-1,698.8	159.3	1.19	0.11	1.18	8.5	-15.2
14,571.0	88.70	180.20	12,510.0	-1,792.8	158.8	1.81	-1.60	-0.21	9.1	-16.3
14,665.0	89.40	180.40	12,511.5	-1,886.8	158.3	0.77	0.74	0.21	10.4	-17.4
14,758.0	89.50	179.30	12,512.4	-1,979.8	158.5	1.19	0.11	-1.18	11.1	-17.7
14,852.0	91.40	179.30	12,511.7	-2,073.8	159.7	2.02	2.02	0.00	10.1	-17.1
14,946.0	91.80	179.20	12,509.1	-2,167.8	160.9	0.44	0.43	-0.11	7.2	-16.5
15,040.0	90.60	178.40	12,507.1	-2,261.7	162.9	1.53	-1.28	-0.85	5.0	-15.1
15,133.0	91.60	178.20	12,505.3	-2,354.7	165.6	1.10	1.08	-0.22	2.9	-12.9
15,227.0	91.30	177.80	12,502.9	-2,448.6	169.1	0.71	-0.32	-0.64	0.3	-10.0
15,319.0	92.20	177.80	12,500.1	-2,540.4	172.8	1.00	0.98	0.22	-2.8	-8.9
15,413.0	92.40	177.90	12,498.4	-2,634.3	176.3	0.24	0.21	0.11	-6.8	-4.0
15,506.0	89.60	174.40	12,494.7	-2,727.1	182.5	4.82	-3.01	-3.78	-8.7	1.7
15,600.0	90.40	175.60	12,494.7	-2,820.7	190.7	1.53	0.85	1.28	-8.0	9.3
15,694.0	90.00	175.80	12,494.4	-2,914.4	197.8	0.48	-0.43	0.21	-9.5	15.8
15,787.0	91.00	178.00	12,493.6	-3,007.3	202.8	2.60	1.08	2.37	-10.6	20.2



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15,880.0	92.00	178.20	12,491.2	-3,100.2	205.9	1.10	1.08	0.22	-13.3	22.8	
15,973.0	87.20	175.00	12,491.8	-3,193.0	211.4	6.20	-5.16	-3.44	-13.0	27.6	
16,068.0	89.20	176.10	12,494.8	-3,287.7	218.7	2.40	2.11	1.16	-10.2	34.5	
16,161.0	91.80	177.40	12,494.0	-3,380.5	224.0	3.13	2.80	1.40	-11.2	39.2	
16,255.0	93.50	180.90	12,489.6	-3,474.4	225.4	4.14	1.81	3.72	-15.9	40.0	
16,349.0	94.00	181.80	12,483.5	-3,568.1	223.2	1.09	0.53	0.96	-22.3	37.2	
16,442.0	94.50	181.80	12,476.6	-3,660.8	220.3	0.54	0.54	0.00	-29.4	33.7	
16,536.0	92.10	181.80	12,471.2	-3,754.6	217.3	2.55	-2.55	0.00	-35.3	30.2	
16,628.0	88.60	181.60	12,470.6	-3,847.6	214.6	3.77	-3.76	-0.22	-36.5	26.8	
16,723.0	87.50	181.70	12,473.8	-3,941.5	211.9	1.16	-1.17	0.11	-33.8	23.6	
16,816.0	86.60	181.60	12,478.6	-4,034.3	209.2	0.97	-0.97	-0.11	-29.6	20.3	
16,910.0	85.80	181.90	12,484.8	-4,128.1	208.3	0.91	-0.85	0.32	-24.0	16.8	
17,003.0	86.80	181.60	12,490.8	-4,220.8	203.5	1.12	1.08	-0.32	-18.5	13.5	
17,096.0	88.40	180.60	12,494.7	-4,313.7	201.7	2.03	1.72	-1.08	-15.2	11.1	
17,189.0	87.10	180.40	12,498.4	-4,406.6	200.9	1.41	-1.40	-0.22	-12.1	9.7	
17,283.0	89.10	181.10	12,501.5	-4,500.6	199.7	2.25	2.13	0.74	-9.6	7.9	
17,377.0	90.20	181.40	12,502.1	-4,594.5	197.6	1.21	1.17	0.32	-9.6	5.3	
17,470.0	90.60	181.20	12,501.4	-4,687.5	195.5	0.48	0.43	-0.22	-10.8	2.6	
17,563.0	90.50	181.50	12,500.5	-4,780.5	193.3	0.34	-0.11	0.32	-12.3	-0.2	
17,657.0	90.90	181.70	12,499.4	-4,874.4	190.7	0.48	0.43	0.21	-14.0	-3.4	
17,750.0	92.00	181.80	12,497.0	-4,967.4	187.9	1.19	1.18	0.11	-17.0	-6.8	
17,844.0	90.80	181.20	12,494.7	-5,061.3	185.4	1.43	-1.26	-0.64	-19.8	-9.8	
17,937.0	89.60	182.40	12,494.4	-5,154.3	182.5	1.82	-1.28	1.29	-20.8	-13.3	
18,030.0	88.50	182.50	12,495.9	-5,247.2	178.5	1.19	-1.18	0.11	-18.8	-17.9	
18,123.0	91.10	184.70	12,496.3	-5,340.0	172.7	3.66	2.80	2.37	-20.2	-24.3	
18,217.0	89.50	180.40	12,495.8	-5,433.8	168.5	4.88	-1.70	-4.57	-21.7	-29.1	
18,310.0	87.30	179.80	12,498.4	-5,526.8	168.3	2.45	-2.37	-0.65	-20.0	-28.8	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Corn
 Well: #723H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #723H
 TVD Reference: KB = 25 @ 3483.0usft
 MD Reference: KB = 25 @ 3483.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,404.0	87.80	179.90	12,502.8	-5,620.7	168.6	0.34	0.32	0.11	-16.9	-30.1
18,497.0	88.10	179.90	12,506.0	-5,713.6	168.7	0.54	0.54	0.00	-14.3	-30.5
18,591.0	86.60	178.90	12,510.4	-5,807.5	169.7	1.92	-1.60	-1.06	-10.9	-30.2
18,685.0	86.50	178.70	12,516.0	-5,901.3	171.7	0.24	-0.11	-0.21	-6.3	-28.8
18,778.0	86.20	178.90	12,522.0	-5,994.1	173.6	0.39	-0.32	0.22	-1.3	-27.4
18,871.0	91.00	178.40	12,524.2	-6,087.1	175.8	5.19	5.16	-0.54	-0.1	-25.8
18,965.0	91.40	178.90	12,522.3	-6,181.0	178.0	0.68	0.43	0.53	-3.0	-24.1
19,058.0	92.80	179.10	12,519.0	-6,273.9	179.7	1.31	1.29	0.22	-7.3	-23.1
19,151.0	91.70	178.90	12,515.5	-6,366.8	181.3	0.99	-0.97	-0.22	-12.5	-22.0
19,244.0	89.40	178.90	12,514.6	-6,459.8	183.1	2.47	-2.47	0.00	-15.1	-20.8
19,337.0	86.60	178.90	12,517.9	-6,552.7	184.9	3.01	-3.01	0.00	-13.6	-19.6
19,430.0	87.30	179.00	12,522.8	-6,645.6	186.6	0.78	0.75	0.11	-10.4	-18.5
19,524.0	88.00	178.50	12,526.7	-6,739.5	188.6	0.91	0.74	-0.53	-8.3	-17.0
19,617.0	88.70	178.30	12,529.4	-6,832.4	191.2	0.78	0.75	-0.22	-7.3	-15.0
19,711.0	87.40	177.30	12,532.6	-6,926.3	194.8	1.74	-1.38	-1.06	-5.8	-12.0
19,804.0	88.80	177.40	12,537.3	-7,019.1	199.1	0.65	-0.65	0.11	-2.8	-8.3
19,897.0	86.20	176.70	12,543.0	-7,111.8	203.9	0.99	-0.65	-0.75	1.1	-4.1
20,001.0	85.60	175.90	12,550.4	-7,215.3	210.6	0.96	-0.58	-0.77	6.7	2.0
20,059.0	85.60	175.90	12,554.8	-7,273.0	214.7	0.00	0.00	0.00	10.0	5.8

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		→N/S (usft)	→E/W (usft)	
12,095.0	12,066.3	441.4	124.5	KOP, MD:12095.0', TVD:12066.3', N/S:441.4', E/W:124.5', INC:3.48
12,215.8	12,185.1	426.8	121.8	FTP Crossing, MD:12215.8', TVD:12185.1', N/S:426.8', E/W:121.8', INC:21.74
20,001.0	12,550.4	-7,215.3	210.6	Last MWD Survey (MD=20001.0')
20,059.0	12,554.8	-7,273.0	214.7	Projection to Bit (MD=20059.0')



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #723H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #723H
TVD Reference: KB = 25 @ 3483.0ust
MD Reference: KB = 25 @ 3483.0ust
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 2/19/2020
Signed Date



Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#723H

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

To convert a Magnetic Direction to a Grid Direction, Add 8.43°
To convert a Magnetic Direction to a True Direction, Add 8.00° East
To convert a True Direction to a Grid Direction, Subtract 0.30°

WELL DETAILS: #723H

KB = 25 @ 3483.0' East
Northing 408148.00 Easting 760074.00 32° 47' 52.803 N Longitude 103° 37' 38.588 W Cst

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2800.0	6.00	18.85	2799.5	14.9	5.0	2.00	18.85	-14.7	
4	7315.8	6.00	18.85	7299.5	462.1	158.0	0.00	0.00	-457.5	
5	7815.8	0.00	0.00	7599.0	477.0	161.0	2.00	180.00	-472.2	
6	12044.3	0.00	0.00	12018.5	477.0	161.0	0.00	0.00	-472.2	
7	12793.0	89.84	179.65	12496.0	0.9	163.9	12.00	179.65	3.9	TGT#1 (VAL 24 FC #723H)
8	15483.2	89.84	179.65	12506.0	-3669.2	188.6	0.00	0.00	3673.0	TGT#2 (VAL 24 FC #723H)
9	16473.0	89.85	179.65	12506.0	-3679.0	188.7	2.00	180.00	3682.9	TGT#3 (VAL 24 FC #723H)
10	16089.5	89.65	179.65	12518.0	-5292.5	196.7	0.00	0.00	5298.0	
11	16089.9	89.40	179.65	12516.1	-5304.9	196.8	2.00	-180.00	5309.3	
12	19042.9	89.40	179.65	12526.0	-6248.8	202.8	0.00	0.00	6252.0	
13	19065.7	88.94	179.65	12526.3	-6271.6	202.7	2.00	180.00	6274.8	
14	20078.3	88.94	179.65	12545.0	-7284.0	209.0	0.00	0.00	7287.0	PBHL (VAL 24 FC #723H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Brushy Top (VAL 24 FC #723H)	7674.0	477.0	181.0	408628.00	760233.00	Polygon
PTP (VAL 24 FC #723H)	12496.0	427.0	181.0	408578.00	760233.00	Point
TGT#1 (VAL 24 FC #723H)	12506.0	-3669.2	188.6	408478.90	760230.84	Point
TGT#2 (VAL 24 FC #723H)	12518.0	-5292.5	196.7	408588.60	760270.88	Point
TGT#3 (VAL 24 FC #723H)	12526.0	-6248.8	202.8	389900.20	760278.60	Point
PBHL (VAL 24 FC #723H)	12545.0	-7284.0	209.0	389953.00	760293.00	Rectangle (Sides: L.O.D. W60.0)

