



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Quijote 2 State Com

#715H

OH

Design: OH

Midland PVA

24 July, 2019

HOBBS OCD

MAR 03 2020

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Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #715H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3362.0usft	
Site: Quijote 2 State Com		MD Reference: KB = 25 @ 3362.0usft	
Well: #715H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		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 Quijote 2 State Com			
Site Position:		Northing:	393,066.99 usft
From: Map		Easting:	756,153.00 usft
Position Uncertainty:	0.0 usft	Grid Radius:	13-3/16 "
		Latitude:	32° 4' 43.401 N
		Longitude:	103° 38' 23.163 W
		Grid Convergence:	0.37 °

Well #715H			
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			usft
			Latitude:
			Longitude:
			Ground Level:
			3,337.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	5/29/2019	6.77	59.89	47,845.12574226

Design OH					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	178.97	

Survey Program		Date	7/24/2019
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
151.0	17,348.0	Intrepid MWD (OH)	MWD
			OWSG MWD - Standard



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 Survey Calculation Method: Minimum Curvature
 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
151.0	0.70	1.74	151.0	0.8	0.0	0.48	0.48	0.00	0.0	0.0	0.0
238.0	0.75	341.53	238.0	2.0	-0.1	0.30	0.08	-23.23	0.0	0.0	0.0
323.0	0.79	354.80	323.0	3.1	-0.4	0.21	0.05	15.61	0.0	0.0	0.0
412.0	0.70	341.53	412.0	4.2	-0.6	0.22	-0.10	-14.91	0.0	0.0	0.0
588.0	0.35	324.30	588.0	5.7	-1.2	0.22	-0.20	-9.79	0.0	0.0	0.0
684.0	0.09	333.88	684.0	6.0	-1.5	0.27	-0.27	9.88	0.0	0.0	0.0
777.0	0.09	239.57	777.0	6.0	-1.5	0.14	0.00	-101.41	0.0	0.0	0.0
920.0	0.18	197.65	920.0	5.6	-1.7	0.09	0.08	-29.31	0.0	0.0	0.0
983.0	0.18	197.65	983.0	5.6	-1.8	0.00	0.00	0.00	0.0	0.0	0.0
1,034.0	0.13	262.78	1,034.0	5.5	-1.9	0.34	-0.10	127.71	0.0	0.0	0.0
1,127.0	0.53	267.08	1,127.0	5.4	-2.4	0.43	0.43	4.62	0.0	0.0	0.0
1,219.0	0.44	250.65	1,219.0	5.3	-3.1	0.18	-0.10	-17.88	0.0	0.0	0.0
1,311.0	0.53	241.60	1,311.0	5.0	-3.9	0.13	0.10	-8.84	0.0	0.0	0.0
1,402.0	0.57	237.89	1,402.0	4.5	-4.6	0.06	0.04	-3.97	0.0	0.0	0.0
1,494.0	0.53	237.11	1,493.9	4.1	-5.4	0.04	-0.04	-0.96	0.0	0.0	0.0
1,589.0	0.84	245.20	1,588.9	3.5	-6.4	0.34	0.33	8.52	0.0	0.0	0.0
1,684.0	1.01	231.40	1,683.9	2.7	-7.6	0.29	0.18	-14.53	0.0	0.0	0.0
1,779.0	0.97	227.09	1,778.9	1.7	-8.9	0.09	-0.04	-4.54	0.0	0.0	0.0
1,875.0	0.97	230.96	1,874.9	0.6	-10.1	0.07	0.00	4.03	0.0	0.0	0.0
1,970.0	1.36	219.27	1,969.9	-0.8	-11.4	0.48	0.41	-12.31	0.0	0.0	0.0
2,065.0	0.92	257.15	2,064.9	-1.6	-12.9	0.89	-0.46	39.87	0.0	0.0	0.0
2,160.0	1.98	355.15	2,159.8	-0.4	-13.8	2.42	1.12	103.16	0.0	0.0	0.0
2,255.0	1.89	343.55	2,254.8	2.8	-14.4	0.42	-0.09	-12.21	0.0	0.0	0.0
2,350.0	1.71	337.40	2,349.7	5.6	-15.4	0.28	-0.16	-8.47	0.0	0.0	0.0
2,445.0	1.54	327.64	2,444.7	8.0	-16.6	0.34	-0.18	-10.27	0.0	0.0	0.0
2,540.0	1.41	321.56	2,539.7	10.0	-18.0	0.21	-0.14	-6.38	0.0	0.0	0.0



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 Wellbore: OH
 Design: OH

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 TVD Reference: KB = 25 @ 3362.0usft
 MD Reference: KB = 25 @ 3362.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,635.0	1.32	317.88	2,634.6	11.7	-19.5	0.13	-0.09	-3.89	0.0	0.0
2,731.0	1.54	295.30	2,730.6	13.1	-21.4	0.62	0.23	-23.52	0.0	0.0
2,826.0	1.54	286.16	2,825.6	14.0	-23.7	0.20	0.00	-7.49	0.0	0.0
2,921.0	1.76	288.27	2,920.5	14.9	-26.3	0.23	0.23	0.09	0.0	0.0
3,016.0	1.76	285.10	3,015.5	15.7	-29.1	0.10	0.00	-3.34	0.0	0.0
3,111.0	1.67	277.81	3,110.5	16.3	-31.9	0.25	-0.09	-7.67	0.0	0.0
3,207.0	0.88	266.73	3,206.4	16.4	-34.0	0.88	-0.82	-11.54	0.0	0.0
3,302.0	0.22	258.21	3,301.4	16.3	-34.9	0.70	-0.69	-8.97	0.0	0.0
3,397.0	0.40	69.77	3,396.4	16.4	-34.8	0.65	0.19	180.59	0.0	0.0
3,492.0	0.82	49.99	3,491.4	17.0	-33.9	0.59	0.55	-20.82	0.0	0.0
3,588.0	1.87	63.27	3,587.4	18.1	-32.1	0.84	0.78	13.83	0.0	0.0
3,683.0	2.29	60.45	3,682.3	19.7	-29.2	0.66	0.65	-2.97	0.0	0.0
3,778.0	2.11	64.14	3,777.3	21.4	-26.0	0.24	-0.19	3.88	0.0	0.0
3,874.0	1.93	68.01	3,873.2	22.8	-22.9	0.24	-0.19	4.03	0.0	0.0
3,969.0	2.02	70.56	3,968.2	23.9	-19.8	0.13	0.09	2.68	0.0	0.0
4,064.0	2.81	85.52	4,063.1	24.3	-15.9	1.37	0.83	26.27	0.0	0.0
4,159.0	2.84	89.75	4,158.0	25.1	-11.7	1.77	-0.18	-37.65	0.0	0.0
4,255.0	2.46	14.75	4,253.9	28.3	-8.3	2.04	-0.19	-46.87	0.0	0.0
4,350.0	2.77	20.90	4,348.8	32.4	-7.9	0.44	0.33	6.47	0.0	0.0
4,445.0	2.24	48.94	4,443.7	35.7	-5.7	1.39	-0.56	29.52	0.0	0.0
4,539.0	4.35	355.41	4,537.6	40.5	-4.8	3.74	2.24	-56.95	0.0	0.0
4,634.0	5.54	333.35	4,632.2	48.2	-8.9	2.34	1.25	-23.22	0.0	0.0
4,729.0	5.58	326.76	4,726.8	56.1	-11.5	0.67	0.04	-8.94	0.3	1.6
4,824.0	5.45	326.50	4,821.3	63.8	-16.6	0.14	-0.14	-0.27	0.8	4.2
4,919.0	5.23	329.22	4,915.9	71.3	-21.3	0.35	-0.23	2.86	1.8	6.5
5,014.0	5.05	327.99	5,010.5	78.5	-25.7	0.22	-0.19	-1.29	2.8	8.7
5,109.0	4.66	329.13	5,105.2	85.4	-29.9	0.42	-0.41	1.20	4.7	10.9



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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)	
5,204.0	5.49	328.17	5,199.8	92.6	-34.3	0.88	0.87	-1.01	5.8	13.2	
5,299.0	7.78	338.98	5,294.2	102.4	-39.0	2.74	2.41	11.38	7.1	13.1	
5,394.0	9.19	343.55	5,388.1	115.7	-43.4	1.84	1.48	4.81	4.0	12.7	
5,489.0	9.10	345.22	5,481.9	130.2	-47.5	0.30	-0.09	1.76	-0.8	12.1	
5,584.0	8.79	345.31	5,575.8	144.5	-51.3	0.33	-0.33	0.09	-5.7	11.5	
5,679.0	8.62	345.75	5,669.7	158.4	-54.8	0.19	-0.18	0.46	-10.1	10.8	
5,775.0	8.26	344.43	5,764.6	172.1	-58.5	0.43	-0.37	-1.37	-14.5	9.9	
5,870.0	7.96	344.43	5,858.7	185.0	-62.1	0.32	-0.32	0.00	-18.0	9.4	
5,965.0	7.65	342.76	5,952.6	197.3	-65.7	0.40	-0.33	-1.76	-21.3	8.5	
6,060.0	7.52	341.79	6,047.0	209.3	-69.5	0.19	-0.14	-1.02	-24.0	8.0	
6,155.0	6.07	351.72	6,141.3	220.2	-72.2	1.96	-1.53	10.45	-23.7	11.3	
6,250.0	6.55	359.46	6,235.7	230.6	-73.0	1.03	0.51	8.15	-22.9	11.9	
6,346.0	5.98	356.82	6,331.2	241.0	-73.3	0.67	-0.59	-2.75	-24.3	8.0	
6,441.0	4.62	15.36	6,425.8	249.7	-72.6	2.28	-1.43	19.52	-20.8	11.3	
6,536.0	2.90	48.32	6,520.6	254.9	-69.7	2.84	-1.81	34.69	-13.0	13.8	
6,631.0	2.33	65.20	6,615.5	257.3	-66.2	1.00	-0.60	17.77	-11.8	10.0	
6,726.0	1.98	61.51	6,710.4	258.9	-63.0	0.40	-0.37	-3.88	-15.2	4.6	
6,821.0	1.93	57.20	6,805.3	260.6	-60.2	0.16	-0.05	-4.54	-18.4	2.0	
6,916.0	1.49	107.56	6,900.3	261.1	-57.7	1.59	-0.46	53.01	-12.4	16.6	
7,011.0	1.45	112.57	6,995.3	260.3	-55.4	0.14	-0.04	5.27	-13.4	17.8	
7,106.0	1.01	112.57	7,090.2	259.5	-53.5	0.46	-0.46	0.00	-15.4	17.8	
7,201.0	0.84	129.01	7,185.2	258.7	-52.2	0.33	-0.18	17.31	-11.3	21.8	
7,296.0	0.84	138.76	7,280.2	257.7	-51.2	0.15	0.00	10.26	-8.8	23.4	
7,391.0	2.24	161.53	7,375.2	255.5	-50.2	1.56	1.47	23.97	-1.6	25.2	
7,486.0	0.84	151.07	7,470.2	253.1	-49.2	1.50	-1.47	-11.01	-6.7	24.2	
7,581.0	0.48	141.66	7,565.1	252.2	-48.6	0.39	-0.38	-8.91	-13.6	22.3	
7,676.0	0.40	139.73	7,660.1	251.6	-48.2	0.09	-0.08	-2.03	-15.0	21.8	



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7,770.0	0.35	175.59	7,754.1	251.1	-48.0	0.25	-0.05	38.15	0.0	26.7
7,865.0	0.26	94.99	7,849.1	250.8	-47.7	0.42	-0.09	-84.84	-26.6	4.1
7,960.0	0.57	242.56	7,944.1	250.5	-47.9	0.84	0.33	155.34	24.4	10.9
8,055.0	0.53	229.55	8,039.1	250.0	-48.7	0.14	-0.04	-13.69	20.4	16.0
8,150.0	0.84	234.21	8,134.1	249.3	-49.6	0.33	0.33	4.91	20.5	14.3
8,245.0	0.70	245.20	8,229.1	248.7	-50.7	0.21	-0.15	11.57	21.6	10.3
8,340.0	0.88	247.48	8,324.1	248.2	-51.9	0.19	0.19	2.40	20.7	9.5
8,435.0	1.05	243.44	8,419.1	247.5	-53.3	0.19	0.18	-4.25	18.3	10.8
8,529.0	1.05	245.99	8,513.1	246.8	-54.9	0.05	0.00	2.71	17.1	10.0
8,624.0	1.23	239.57	8,608.1	245.9	-56.6	0.23	0.19	-6.76	14.0	11.8
8,719.0	1.36	234.12	8,703.0	244.7	-58.3	0.19	0.14	-5.74	10.6	13.0
8,814.0	1.71	234.21	8,798.0	243.2	-60.4	0.37	0.37	0.09	8.1	13.0
8,909.0	1.93	232.81	8,893.0	241.4	-62.8	0.24	0.23	-1.47	4.8	13.1
9,004.0	2.07	248.98	8,987.9	239.8	-65.7	0.61	0.15	17.02	5.0	11.7
9,099.0	1.71	28.55	9,082.9	240.5	-66.6	3.74	-0.38	146.92	3.7	-11.0
9,194.0	1.19	13.34	9,177.8	242.7	-65.7	0.68	-0.55	-18.01	4.1	-10.1
9,289.0	0.92	7.37	9,272.8	244.4	-65.4	0.31	-0.28	-6.28	3.4	-8.7
9,383.0	1.36	334.14	9,368.8	246.1	-65.8	0.83	0.47	-35.35	6.4	-6.7
9,478.0	1.49	317.88	9,461.8	248.1	-67.1	0.45	0.14	-17.12	5.7	-4.8
9,573.0	2.29	319.38	9,556.7	250.4	-69.2	0.84	0.84	1.58	2.4	-5.0
9,668.0	1.36	343.64	9,651.7	252.9	-70.7	1.25	-0.98	25.54	-2.7	-4.8
9,763.0	0.75	336.17	9,746.7	254.6	-71.3	0.66	-0.64	-7.86	-3.8	-5.3
9,858.0	0.70	316.92	9,841.7	255.6	-71.9	0.26	-0.05	-20.26	-3.0	-6.4
9,953.0	0.70	317.97	9,936.7	256.4	-72.7	0.01	0.00	1.11	-4.3	-6.4
10,048.0	0.35	271.30	10,031.6	256.9	-73.4	0.55	-0.37	-49.13	1.0	-7.9
10,143.0	0.75	291.96	10,126.6	257.1	-74.3	0.46	0.42	21.75	-2.8	-7.7
10,238.0	1.01	297.41	10,221.6	257.7	-75.6	0.29	0.27	5.74	-4.9	-7.3



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10,333.0	2.02	281.48	10,316.6	257.9	-78.0	1.41	1.08	-37.84	-2.1	-8.3
10,428.0	2.89	284.18	10,411.5	257.4	-82.1	1.03	1.02	2.88	-8.6	-9.1
10,522.0	1.67	271.04	10,505.4	257.2	-85.9	1.43	-1.40	7.30	-11.5	-8.0
10,617.0	1.14	252.87	10,600.4	256.9	-88.2	0.73	-0.56	-19.34	-10.7	-11.6
10,712.0	2.02	256.19	10,695.4	256.2	-90.7	0.93	0.83	3.71	-14.0	-10.8
10,807.0	0.88	288.88	10,790.3	256.1	-93.1	1.44	-1.20	34.41	-19.8	-0.7
10,902.0	0.84	347.15	10,885.3	257.0	-93.9	0.88	-0.04	61.34	-12.1	17.1
10,997.0	0.66	277.98	10,980.3	257.7	-94.6	0.91	-0.19	-72.81	-21.0	-3.9
11,092.0	0.57	266.47	11,075.3	257.8	-95.6	0.18	-0.09	-12.12	-20.5	-10.1
11,187.0	1.38	273.68	11,170.3	257.8	-97.2	0.84	0.83	7.59	-23.2	-7.4
11,282.0	1.49	254.87	11,265.3	257.6	-99.5	0.51	0.14	-19.80	-21.8	-14.8
11,377.0	1.63	259.44	11,360.2	257.0	-102.0	0.20	0.15	4.81	-25.5	-12.9
11,472.0	1.89	260.84	11,455.2	256.5	-104.9	0.28	0.27	1.47	-28.8	-12.3
11,570.0	1.63	248.71	11,553.1	255.7	-107.8	0.46	-0.27	-12.38	-28.5	-18.4
11,703.0	1.45	252.49	11,688.1	254.5	-111.2	0.16	-0.14	2.84	-33.2	-16.3
11,788.0	1.85	254.34	11,781.1	253.8	-113.8	0.42	0.42	1.95	-36.5	-15.2
11,894.0	2.51	186.62	11,877.0	251.3	-114.8	3.19	0.89	-91.37	12.8	-38.4
11,989.0	6.37	183.11	11,971.7	244.2	-112.8	4.07	4.06	-3.69	23.1	-33.6
12,084.0	21.36	181.44	12,063.7	222.7	-105.7	15.78	15.78	-1.78	33.5	-24.0
12,179.0	38.24	159.59	12,145.8	178.4	-89.8	17.79	17.77	-1.95	34.0	-8.9
12,273.0	53.14	166.54	12,211.3	114.1	-70.8	18.69	15.85	7.39	25.8	2.9
12,368.0	65.93	173.13	12,259.4	33.7	-56.7	14.72	13.48	6.94	14.3	11.5
12,463.0	76.57	173.74	12,289.9	-55.5	-48.5	11.22	11.20	0.64	1.6	18.2
12,559.0	86.95	178.58	12,303.7	-150.2	-40.2	11.91	10.81	5.04	-9.8	21.5
12,653.0	90.15	179.98	12,306.1	-244.1	-39.0	3.72	3.40	1.49	-14.0	19.6
12,748.0	89.98	181.74	12,306.0	-339.1	-40.4	1.86	-0.18	1.85	-14.8	15.0
12,843.0	90.24	183.06	12,305.8	-434.0	-44.4	1.42	0.27	1.39	-15.6	8.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Quijote 2 State Com
 Well: #715H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #715H
 TVD Reference: KB = 25 @ 3362.0usft
 MD Reference: KB = 25 @ 3362.0usft
 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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,938.0	87.85	182.18	12,307.5	-528.9	-48.7	2.88	-2.73	-0.93	-14.4	0.8
13,033.0	86.29	180.78	12,312.5	-623.7	-51.2	2.05	-1.43	-1.47	-10.0	-4.9
13,127.0	87.21	180.25	12,317.9	-717.6	-52.0	1.13	0.98	-0.56	-5.3	-8.6
13,222.0	87.43	180.69	12,322.3	-812.4	-52.8	0.52	0.23	0.46	-1.5	-12.7
13,317.0	88.79	179.98	12,325.4	-907.4	-53.4	1.61	1.43	-0.75	1.0	-16.3
13,412.0	89.14	179.46	12,327.2	-1,002.4	-52.9	0.66	0.37	-0.55	2.1	-18.9
13,506.0	89.58	179.90	12,328.2	-1,096.4	-52.4	0.66	0.47	0.47	3.3	-21.4
13,601.0	90.24	179.98	12,328.4	-1,191.4	-52.3	0.70	0.69	0.08	3.6	-24.2
13,696.0	91.47	180.25	12,328.9	-1,286.3	-52.5	1.33	1.29	0.28	2.4	-27.4
13,791.0	90.51	178.75	12,325.3	-1,381.3	-51.6	1.87	-1.01	-1.58	0.9	-29.5
13,886.0	90.33	178.23	12,324.6	-1,476.3	-49.1	0.58	-0.19	-0.55	0.3	-30.0
13,981.0	91.60	177.44	12,323.0	-1,571.2	-45.5	1.57	1.34	-0.83	-1.1	-29.4
14,075.0	92.70	177.79	12,319.5	-1,665.1	-41.6	1.23	1.17	0.37	-4.5	-28.4
14,170.0	89.19	176.82	12,317.9	-1,759.9	-37.2	3.83	-3.69	-1.02	-5.9	-26.9
14,265.0	88.95	175.41	12,321.1	-1,854.6	-30.7	2.79	-2.36	-1.48	-2.5	-23.4
14,360.0	89.27	175.15	12,324.2	-1,949.3	-22.9	2.46	2.44	-0.27	0.6	-18.5
14,455.0	90.84	175.68	12,324.3	-2,044.0	-15.3	1.55	1.44	0.56	1.0	-13.9
14,550.0	92.40	176.56	12,321.8	-2,138.7	-8.9	2.07	1.85	0.93	-1.4	-10.4
14,644.0	91.65	176.82	12,318.5	-2,232.5	-3.5	0.84	-0.80	0.28	-4.5	-7.9
14,739.0	93.05	177.08	12,314.6	-2,327.3	1.6	1.50	1.47	0.27	-6.3	-5.8
14,834.0	90.73	177.17	12,311.4	-2,422.1	6.3	2.44	-2.44	0.09	-11.2	-4.0
14,929.0	89.19	179.28	12,311.5	-2,517.0	9.3	2.75	-1.82	2.22	-11.0	-4.1
15,024.0	87.52	172.25	12,314.2	-2,611.7	16.3	7.60	-1.76	-7.40	-8.1	0.0
15,119.0	88.68	174.01	12,317.4	-2,705.9	27.6	2.21	1.20	1.85	-4.8	8.4
15,214.0	89.54	174.97	12,318.9	-2,800.5	38.8	1.37	0.93	1.01	-3.1	14.6
15,309.0	93.27	177.96	12,316.6	-2,895.2	42.6	5.03	3.93	3.15	-5.3	17.5
15,404.0	94.07	180.78	12,310.5	-2,990.0	43.7	3.08	0.84	2.97	-11.2	15.5



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 Survey Calculation Method: Minimum Curvature
 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)
15,489.0	91.82	180.34	12,305.6	-3,084.9	42.7	2.41	-2.37	-0.46	-15.9	11.6
15,594.0	90.59	179.02	12,303.6	-3,179.9	43.3	1.90	-1.29	-1.39	-17.6	9.2
15,688.0	89.89	176.56	12,303.2	-3,273.8	46.9	2.72	-0.74	-2.62	-18.0	9.9
15,763.0	91.65	177.17	12,301.9	-3,368.6	52.1	1.96	1.85	0.64	-19.1	12.2
15,878.0	91.21	179.11	12,299.6	-3,463.6	55.2	2.09	-0.46	2.04	-21.3	12.3
15,973.0	91.16	179.11	12,297.6	-3,558.5	56.6	0.05	-0.05	0.00	-23.1	10.8
16,163.0	91.96	179.98	12,292.4	-3,748.4	58.1	0.62	0.42	0.46	-28.0	6.4
16,258.0	91.03	179.37	12,290.0	-3,843.4	58.7	1.17	-0.98	-0.64	-30.3	3.9
16,352.0	90.24	178.31	12,288.9	-3,937.4	60.6	1.41	-0.84	-1.13	-31.2	2.9
16,447.0	89.19	177.26	12,289.4	-4,032.3	64.3	1.56	-1.11	-1.11	-30.4	3.6
16,542.0	89.10	178.40	12,290.8	-4,127.2	67.9	1.20	-0.09	1.20	-28.2	4.3
16,637.0	84.62	179.11	12,296.0	-4,222.0	69.9	4.77	-4.72	0.75	-22.2	3.4
16,732.0	90.55	178.05	12,300.0	-4,316.9	72.3	6.34	6.24	-1.12	-17.3	2.6
16,827.0	91.03	176.91	12,298.7	-4,411.8	76.4	1.30	0.51	-1.20	-17.8	4.0
16,921.0	89.67	175.94	12,298.1	-4,505.6	82.3	1.78	-1.45	-1.03	-17.6	6.9
17,016.0	91.65	175.33	12,297.0	-4,600.3	89.5	2.18	2.08	-0.64	-17.9	11.2
17,160.0	89.19	171.81	12,298.0	-4,743.4	105.7	2.98	-1.71	-2.44	-17.8	22.8
17,348.0	89.19	171.81	12,298.6	-4,929.4	132.4	0.00	0.00	0.00	-13.6	43.7

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,882.0	11,865.0	251.8	-114.9	KOP, MD:11882.0', TVD:11865.0', N/S:251.8', E/W:-114.9', INC:2.22
12,140.6	12,114.3	199.0	-97.4	FTP Crossing, MD:12140.6', TVD:12114.3', N/S:199.0', E/W:-97.4', INC:31.41
17,160.0	12,298.0	-4,743.4	105.7	Last MWD Survey (MD=17160.0')
17,348.0	12,298.6	-4,929.4	132.4	Projection to Bit (MD=17348.0')

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

Kay Maddox 03/02/2020
 Signed Date



Lea County, NM (NAD 83 NME)

Quijote 2 State Com #715H

Plan #2

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: #715H

KB = 25 @ 3382.0m
Northing 333120.00 Easting 765067.50
Latitude 32° 4' 43.995 N Longitude 103° 39' 35.781 W

Admiralty to Grid North
True North: -0.37°
Magnetic North: 6.40°
Magnetic Field
Strength: 47845.1nT
Dip Angle: 89.89°
Date: 5/29/2016
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.40°
To convert a Magnetic Direction to a True Direction, Add 6.77° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSeet	Target
1	4634.0	5.54	333.35	4632.2	48.2	-8.9	0.00	0.00	-48.3	
2	4680.7	6.00	341.47	4678.7	52.6	-8.7	2.00	64.83	-52.7	
3	6513.7	6.00	341.47	6501.7	234.1	-69.6	0.00	0.00	-235.3	
4	6816.6	0.00	0.00	6801.0	249.0	-74.6	2.00	180.00	-250.3	
5	11855.1	0.00	0.00	11842.5	249.0	-74.6	0.00	0.00	-250.3	KOP(Quijote 2 State Com #715H)
6	12602.0	89.63	178.14	12320.0	-225.1	-59.2	12.00	178.14	224.0	TGT 1(Quijote 2 State Com #715H)
7	13378.1	89.63	178.14	12325.0	-1000.8	-34.0	0.00	0.00	1000.0	TGT 2(Quijote 2 State Com #715H)
8	13401.9	90.10	178.21	12325.1	-1024.6	-33.2	2.00	8.78	1023.8	
9	16378.4	90.10	178.21	12320.0	-3999.6	69.6	0.00	0.00	4000.0	
10	16398.0	90.49	178.21	12319.9	-4018.3	60.2	2.00	-0.04	4019.7	
11	17320.3	90.49	178.21	12312.0	-4941.0	89.0	0.00	0.00	4941.8	PBHL(Quijote 2 State Com #715H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(Quijote 2 State Com #715H)	11842.5	249.0	-74.6	333120.00	765067.50
TGT 1(Quijote 2 State Com #715H)	12325.0	-1000.8	-34.0	333120.00	765067.50
TGT 2(Quijote 2 State Com #715H)	12320.0	-3999.6	69.6	333120.00	765067.50
PBHL(Quijote 2 State Com #715H)	12312.0	-4941.0	89.0	333120.00	765067.50

