



HOBBS OCD

OCT 31 2018

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#715H

OH

Design: OH

Midland PVA

10 August, 2018





Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB =25' @ 3347.0usft
Site:	Barlow 34 Fed Com	MD Reference:	KB =25' @ 3347.0usft
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	Barlow 34 Fed Com		
Site Position:		Northing:	364,974.00 usft
From:	Map	Easting:	778,981.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.879 N
		Longitude:	103° 34' 0.167 W
		Grid Convergence:	0.41 °

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

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	8/8/2018	6.91
			Dip Angle
			(°)
			59.86
			Field Strength
			(nT)
			47,793,55789663

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.48



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Survey Program	Date	8/10/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
215.0	899.0	Gordon MWD Cartel 18 22'kb + 3' (OH)	MWD	OWSG MWD - Standard	
1,063.0	17,225.0	Gordon MWD (OH)	MWD	OWSG MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
215.0	0.42	342.39	215.0	0.8	-0.2	0.20	0.20	0.00	0.0	0.0
336.0	0.57	356.59	336.0	1.8	-0.4	0.16	0.12	11.74	0.0	0.0
511.0	0.51	312.47	511.0	3.2	-1.0	0.23	-0.03	-25.21	0.0	0.0
685.0	0.28	216.79	685.0	3.4	-1.9	0.35	-0.13	-54.99	0.0	0.0
860.0	0.26	194.75	860.0	2.6	-2.2	0.06	-0.01	-12.59	0.0	0.0
899.0	0.36	281.01	899.0	2.6	-2.4	1.10	0.26	221.18	0.0	0.0
1,063.0	0.37	79.70	1,063.0	2.8	-2.3	0.44	0.01	96.76	-0.1	0.2
1,248.0	0.28	177.05	1,248.0	2.4	-1.7	0.27	-0.05	52.62	-0.2	0.7
1,340.0	0.34	164.27	1,340.0	1.9	-1.6	0.10	0.07	-13.89	-0.8	0.6
1,520.0	1.99	181.38	1,519.9	-1.7	-1.6	0.93	0.92	9.51	-4.3	0.9
1,715.0	1.91	189.42	1,714.8	-8.3	-2.2	0.15	-0.04	4.12	-10.7	2.0
1,903.0	1.95	181.23	1,902.7	-14.6	-2.8	0.15	0.02	-4.36	-17.2	0.0
2,090.0	1.63	178.92	2,089.6	-20.4	-2.8	0.18	-0.17	-1.24	-23.0	-0.8
2,277.0	1.52	152.80	2,276.6	-25.3	-1.6	0.38	-0.06	-13.97	-25.2	-12.0
2,465.0	1.66	145.94	2,464.5	-29.8	1.1	0.13	0.07	-3.65	-28.7	-15.2
2,654.0	1.68	163.47	2,653.4	-34.7	3.4	0.27	0.01	9.28	-37.4	-5.1
2,841.0	2.05	141.55	2,840.3	-39.9	6.2	0.43	0.20	-11.72	-38.7	-19.7
3,028.0	0.44	348.23	3,027.3	-41.9	8.2	1.31	-0.86	-81.99	45.7	-1.3
3,215.0	2.33	49.36	3,214.2	-38.7	10.9	1.15	1.01	32.69	16.7	-40.0
3,402.0	0.51	269.81	3,401.2	-36.2	13.0	1.46	-0.97	-74.63	15.2	38.8



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Well:	#715H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
3,589.0	1.67	27.13	3,588.1	-33.8	13.4	1.05	0.62	62.74	25.2	-30.6
3,775.0	2.97	48.13	3,774.0	-28.2	18.2	0.82	0.70	11.29	5.2	-36.6
3,967.0	5.65	49.89	3,965.4	-18.7	29.1	1.40	1.40	0.92	-10.3	-36.6
4,116.0	2.74	77.44	4,114.0	-13.2	38.2	2.32	-1.95	18.49	-36.2	-24.3
4,248.0	3.01	169.87	4,245.9	-16.0	41.9	3.15	0.20	70.02	-26.0	40.4
4,434.0	2.05	142.19	4,431.7	-23.4	44.8	0.82	-0.52	-14.88	-49.5	21.4
4,529.0	2.26	183.36	4,526.7	-26.6	45.7	1.81	0.22	43.34	-26.3	49.8
4,622.0	1.16	129.88	4,619.6	-29.1	46.4	1.96	-1.18	-57.51	-57.7	7.0
4,810.0	1.94	116.62	4,807.6	-31.7	50.7	0.45	0.41	-7.05	-62.8	-6.9
4,929.0	1.26	123.94	4,926.5	-33.3	53.5	0.60	-0.57	6.15	-66.4	1.5
5,068.0	3.79	166.68	5,065.4	-38.7	55.9	2.15	1.82	30.75	-48.7	46.9
5,161.0	5.74	180.20	5,158.1	-46.3	56.6	2.41	2.10	14.54	-37.5	55.5
5,350.0	5.97	179.20	5,346.1	-65.6	58.7	0.13	0.12	-0.53	-39.5	49.2
5,538.0	6.61	178.53	5,532.9	-86.2	57.1	0.34	0.34	-0.36	-42.4	43.4
5,725.0	5.96	173.77	5,718.8	-106.6	58.4	0.45	-0.35	-2.55	-47.8	35.2
5,912.0	5.98	174.34	5,904.6	-125.9	60.4	0.03	0.01	0.30	-48.4	31.9
6,100.0	5.50	172.19	6,091.9	-144.6	62.6	0.28	-0.26	-1.14	-49.6	26.5
6,288.0	4.71	171.82	6,279.1	-161.2	64.9	0.42	-0.42	-0.20	-47.7	23.1
6,475.0	4.73	167.05	6,465.5	-176.3	67.8	0.21	0.01	-2.55	-46.0	16.9
6,663.0	4.42	164.65	6,652.9	-190.8	71.4	0.19	-0.16	-1.28	-42.6	14.0
6,850.0	4.65	165.86	6,839.3	-205.1	75.2	0.13	0.12	0.65	-38.2	13.9
6,945.0	4.40	158.99	6,934.0	-212.3	77.4	0.63	-0.26	-7.23	-37.5	9.4
7,132.0	3.67	196.46	7,120.6	-224.7	78.3	1.43	-0.39	20.04	-20.1	24.1
7,320.0	3.77	213.03	7,308.2	-235.6	73.2	0.57	0.05	8.81	-12.2	15.8
7,506.0	2.81	265.91	7,493.9	-241.1	65.3	1.64	-0.52	28.43	-7.3	5.9
7,692.0	0.62	341.83	7,679.8	-240.5	60.5	1.47	-1.18	40.82	-11.8	12.8
7,880.0	0.18	262.15	7,867.8	-239.5	59.9	0.33	-0.23	-42.38	-15.5	-12.7



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8,068.0	0.62	150.59	8,055.8	-240.5	60.1	0.38	0.23	-59.34	16.6	-10.1
8,256.0	0.96	154.04	8,243.8	-242.8	61.3	0.18	0.18	1.84	13.4	-11.0
8,443.0	1.31	174.21	8,430.8	-246.3	62.2	0.28	0.19	10.79	5.2	-14.4
8,631.0	2.03	188.79	8,618.7	-251.7	61.9	0.44	0.38	7.76	-4.0	-14.7
8,818.0	2.16	188.48	8,805.5	-258.5	60.8	0.07	0.07	-0.17	-10.8	-14.7
9,006.0	2.32	189.75	8,993.4	-265.7	59.7	0.09	0.09	0.68	-18.4	-14.4
9,194.0	1.18	248.58	9,181.3	-270.2	57.2	1.06	-0.61	31.29	-25.8	11.6
9,382.0	1.83	245.80	9,369.3	-272.1	52.7	0.35	0.35	-1.48	-31.2	10.2
9,569.0	1.59	231.47	9,556.2	-275.0	47.9	0.26	-0.13	-7.66	-38.3	1.4
9,756.0	2.60	232.40	9,743.0	-279.2	42.6	0.54	0.54	0.50	-45.1	2.1
9,944.0	1.40	268.47	9,931.0	-281.8	36.9	0.90	-0.64	19.18	-41.0	30.8
10,100.0	0.93	329.84	10,086.9	-280.8	34.3	0.81	-0.30	39.34	5.2	52.4
10,132.0	2.11	17.27	10,118.9	-280.0	34.4	5.10	3.69	148.22	41.3	31.8
10,226.0	1.96	2.09	10,212.9	-276.8	35.0	0.59	-0.16	-16.15	28.3	41.1
10,413.0	0.48	30.98	10,399.8	-272.9	35.5	0.83	-0.79	15.45	41.0	23.8
10,508.0	0.69	72.09	10,484.8	-272.4	36.2	0.48	0.22	43.27	45.7	-8.7
10,695.0	0.84	100.15	10,681.8	-272.3	38.6	0.21	0.08	15.01	33.8	-28.7
10,882.0	0.69	87.67	10,868.8	-272.5	41.1	0.12	-0.08	-6.67	36.8	-21.0
10,976.0	0.44	81.55	10,962.8	-272.4	42.0	0.27	-0.27	-6.51	37.9	-17.0
11,165.0	0.56	324.74	11,151.8	-271.5	42.2	0.45	0.06	-61.80	-2.5	40.8
11,352.0	0.20	43.20	11,338.8	-270.5	41.9	0.30	-0.19	41.96	39.0	11.5
11,539.0	1.68	216.31	11,525.7	-272.5	40.5	1.00	0.79	92.57	-39.7	-16.1
11,633.0	1.10	219.38	11,619.7	-274.3	39.1	0.62	-0.62	3.27	-42.8	-13.8
11,756.0	2.16	196.23	11,742.6	-277.5	37.7	1.00	0.86	-18.82	-37.3	-30.0
11,847.0	1.86	182.76	11,833.6	-280.6	37.2	0.61	-0.33	-14.80	-32.5	-38.3
11,894.0	0.98	142.26	11,880.6	-281.7	37.4	2.73	-1.87	-86.17	-0.8	-50.7
11,940.0	5.83	28.11	11,926.5	-279.9	38.7	13.68	10.54	-248.15	44.4	19.7



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Survey											
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11,987.0	14.70	23.35	11,972.7	-272.3	42.2	18.94	18.87	-10.13	34.2	23.4	
12,033.0	21.49	27.05	12,016.4	-259.4	48.4	14.96	14.76	8.04	24.0	20.2	
12,127.0	31.93	14.82	12,100.3	-219.9	62.6	12.50	11.11	-13.01	-4.3	15.6	
12,163.4	34.11	11.81	12,130.8	-200.6	67.2	7.50	5.99	-8.28	-13.5	12.4	
FTP Crossing 12163.4' MD; 12130.8' TVD; -200.6'; 67.2'; 34.11											
12,220.0	37.63	7.75	12,176.7	-168.0	72.8	7.50	6.22	-7.17	-24.7	6.8	
12,314.0	47.11	0.88	12,246.1	-104.9	77.2	11.21	10.09	-7.31	-37.3	-0.6	
12,361.0	50.70	358.58	12,277.0	-69.5	77.0	8.48	7.64	-4.89	-41.2	-1.8	
12,407.0	51.24	357.53	12,306.0	-33.8	75.8	2.13	1.17	-2.28	-41.9	-1.3	
12,454.0	52.37	357.82	12,335.0	3.1	74.3	2.45	2.40	0.62	-38.3	0.3	
12,500.0	58.27	359.60	12,361.2	40.9	73.4	13.21	12.83	3.87	-32.8	1.4	
12,547.0	63.85	0.00	12,383.9	82.0	73.3	11.90	11.87	0.85	-26.9	1.3	
12,594.0	67.09	1.10	12,403.4	124.8	73.7	7.21	6.89	2.34	-19.9	0.6	
12,641.0	71.53	1.90	12,420.0	168.7	74.9	9.58	9.45	1.70	-11.2	-0.9	
12,687.0	75.00	1.33	12,433.3	212.7	76.1	7.64	7.54	-1.24	-1.5	-2.5	
12,734.0	79.85	0.10	12,443.5	258.6	76.7	10.63	10.32	-2.62	8.5	-3.5	
12,781.0	88.51	1.71	12,448.3	305.3	77.4	18.74	18.43	3.43	13.3	-4.5	
12,875.0	91.71	0.41	12,448.1	399.3	79.2	3.67	3.40	-1.38	13.0	-7.0	
12,973.0	91.04	359.63	12,445.7	497.2	79.2	1.05	-0.68	-0.80	10.7	-7.7	
13,067.0	89.30	0.26	12,445.5	591.2	79.1	1.97	-1.85	0.67	10.3	-8.3	
13,161.0	87.34	0.01	12,448.2	685.2	79.3	2.10	-2.09	-0.27	13.0	-9.2	
13,255.0	90.14	358.82	12,450.3	779.2	78.4	3.24	2.98	-1.27	15.1	-9.0	
13,349.0	91.23	359.02	12,449.2	873.1	76.6	1.18	1.16	0.21	13.9	-7.9	
13,442.0	90.76	358.81	12,447.5	966.1	74.8	0.55	-0.51	-0.23	12.3	-6.8	
13,536.0	90.84	359.12	12,446.2	1,060.1	73.1	0.34	0.09	0.33	10.9	-5.8	
13,630.0	89.72	359.44	12,445.8	1,154.1	72.0	1.24	-1.19	0.34	10.4	-5.3	
13,723.0	90.22	359.87	12,445.8	1,247.1	71.4	0.71	0.54	0.46	10.4	-5.4	



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13,817.0	88.60	358.88	12,446.8	1,341.0	70.4	2.02	-1.72	-1.05	11.3	-5.1	
13,910.0	89.13	359.13	12,448.6	1,434.0	68.8	0.63	0.57	0.27	13.1	-4.2	
14,004.0	89.52	358.66	12,449.7	1,528.0	66.9	0.65	0.41	-0.50	14.2	-3.1	
14,097.0	91.18	357.38	12,449.2	1,620.9	63.7	2.25	1.78	-1.38	13.6	-0.5	
14,190.0	89.50	359.30	12,448.6	1,713.9	61.0	2.74	-1.81	2.06	13.0	1.5	
14,284.0	88.99	359.87	12,449.9	1,807.9	60.4	0.81	-0.54	0.61	14.2	1.4	
14,376.0	90.17	358.96	12,450.5	1,899.9	59.4	1.62	1.28	-0.99	14.8	1.7	
14,470.0	91.12	357.56	12,449.5	1,993.8	56.6	1.80	1.01	-1.49	13.8	3.9	
14,563.0	90.59	359.00	12,448.1	2,086.7	53.8	1.65	-0.57	1.55	12.3	6.0	
14,657.0	89.61	1.15	12,447.9	2,180.7	53.9	2.51	-1.04	2.29	12.1	5.2	
14,750.0	91.29	1.89	12,447.2	2,273.7	56.4	1.97	1.81	0.80	11.3	2.0	
14,844.0	90.90	2.44	12,445.4	2,367.6	59.9	0.72	-0.41	0.59	9.5	-2.2	
14,899.0	89.75	2.99	12,445.1	2,422.5	62.5	2.32	-2.09	1.00	9.2	-5.2	
15,031.0	88.57	358.66	12,447.0	2,554.5	64.4	3.40	-0.89	-3.28	11.1	-8.1	
15,124.0	90.64	0.61	12,447.7	2,647.5	63.8	3.06	2.23	2.10	11.7	-8.2	
15,217.0	90.25	0.33	12,446.9	2,740.5	64.6	0.52	-0.42	-0.30	10.7	-9.7	
15,311.0	90.14	0.73	12,446.6	2,834.5	65.5	0.44	-0.12	0.43	10.2	-11.2	
15,404.0	89.08	359.02	12,447.2	2,927.5	65.3	2.16	-1.14	-1.84	10.6	-11.7	
15,498.0	88.60	357.93	12,449.1	3,021.4	62.7	1.27	-0.51	-1.16	12.3	-9.9	
15,592.0	90.90	358.21	12,449.6	3,115.3	59.6	2.46	2.45	0.30	12.5	-7.5	
15,686.0	87.98	357.83	12,450.5	3,209.3	56.3	3.13	-3.11	-0.40	13.2	-4.9	
15,781.0	88.40	357.47	12,453.5	3,304.1	52.4	0.58	0.44	-0.38	15.9	-1.7	
15,874.0	88.88	358.01	12,455.7	3,397.0	48.8	0.78	0.52	0.58	17.9	1.3	
15,968.0	90.11	359.24	12,456.5	3,491.0	46.5	1.85	1.31	1.31	18.5	2.8	
16,062.0	90.42	359.13	12,456.1	3,585.0	45.2	0.35	0.33	-0.12	17.9	3.5	
16,156.0	91.01	359.62	12,454.9	3,679.0	44.2	0.82	0.63	0.52	16.5	3.8	
16,249.0	89.97	1.02	12,454.1	3,772.0	44.7	1.88	-1.12	1.51	15.5	2.6	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #715H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB =25' @ 3347.0usft
Site:	Barlow 34 Fed Com	MD Reference:	KB =25' @ 3347.0usft
Well:	#715H	North Reference:	Grid
Wellbore:	.OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
16,343.0	88.99	2.17	12,455.0	3,865.9	47.3	1.61	-1.04	1.22	16.1	-0.7
16,437.0	89.41	2.92	12,456.3	3,959.8	51.5	0.91	0.45	0.80	17.2	-5.6
16,530.0	89.27	359.41	12,457.3	4,052.8	53.4	3.78	-0.15	-3.77	18.0	-8.2
16,624.0	89.64	358.29	12,458.2	4,146.8	51.5	1.25	0.39	-1.19	18.7	-7.0
16,717.0	89.92	358.40	12,458.6	4,239.7	48.8	0.32	0.30	0.12	18.8	-5.0
16,811.0	90.11	358.40	12,458.6	4,333.7	46.2	0.20	0.20	0.00	18.6	-3.1
16,906.0	90.53	359.54	12,458.0	4,428.7	44.5	1.28	0.44	1.20	17.8	-2.1
17,000.0	91.15	0.31	12,456.7	4,522.7	44.3	1.05	0.66	0.82	16.2	-2.7
17,093.0	91.57	0.97	12,454.5	4,615.6	45.4	0.84	0.45	0.71	13.8	-4.4
17,161.0	91.29	359.13	12,452.8	4,683.6	45.4	2.73	-0.41	-2.70	11.9	-4.9
Last MWD Survey (MD = 17161.0)										
17,225.0	91.29	359.13	12,451.3	4,747.6	44.5	0.00	0.00	0.00	10.3	-4.4
Projection to Bit (MD = 17225.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,163.4	12,130.8	-200.6	67.2	FTP Crossing 12163.4' MD; 12130.8' TVD; -200.6'; 67.2'; 34.11
17,161.0	12,452.8	4,683.6	45.4	Last MWD Survey (MD = 17161.0)
17,225.0	12,451.3	4,747.6	44.5	Projection to Bit (MD = 17225.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Barlow 34 Fed Com

#715H

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 6.50°
To convert a Magnetic Direction to a True Direction, Add 6.91° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #715H

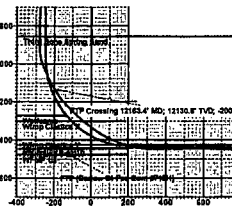
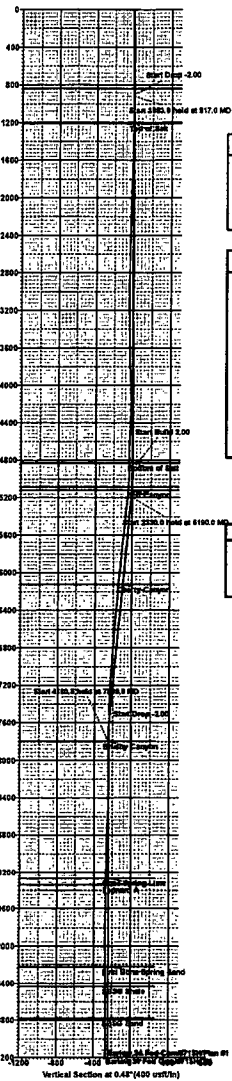
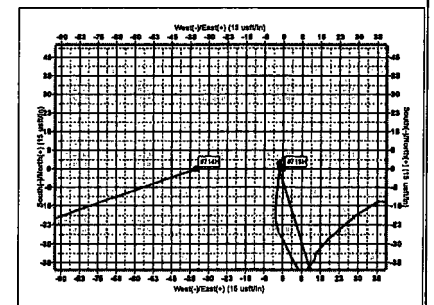
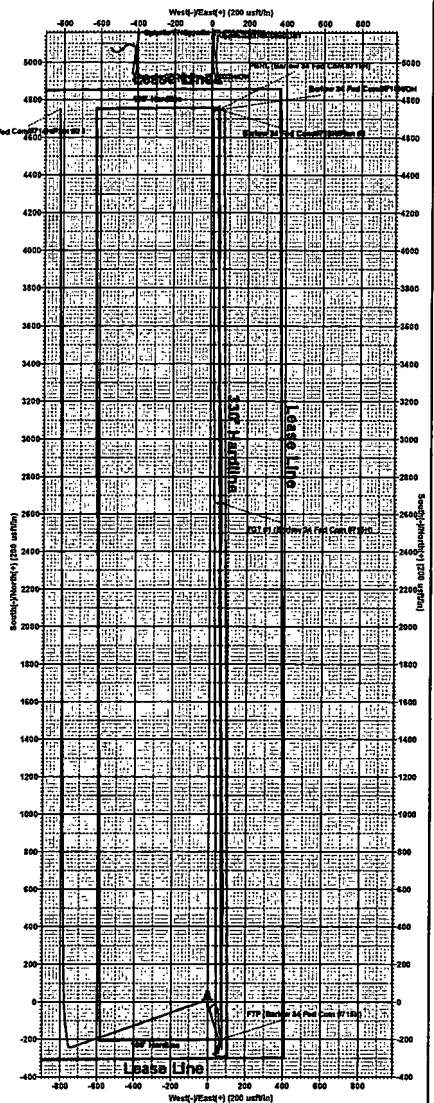
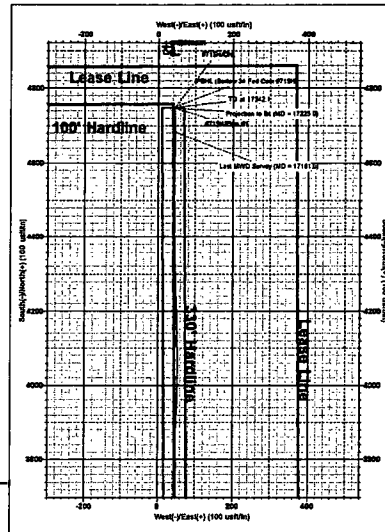
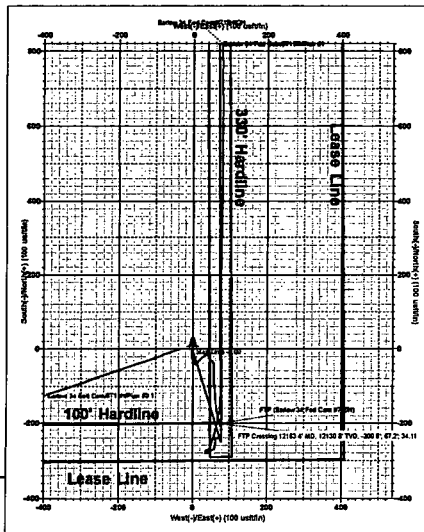
	+N-S	+E-W	North	KB = 25° @ 3347.0' East	Longitude	Slot
	0.0	0.0	355007.00	783250.00	32° 0' 3.903 N	103° 33' 10.5 91 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	Vsect	Target
1	899.0	0.36	281.01	899.0	2.6	-2.4	0.00	0.00	2.5	
2	917.0	0.00	0.00	917.0	2.6	-2.4	2.00	180.00	2.6	
3	4900.0	0.00	0.00	4900.0	2.6	-2.4	0.00	0.00	2.6	
4	5190.0	5.80	162.55	5189.5	-11.4	2.0	2.00	162.55	-11.4	
5	7520.0	5.80	162.55	7507.5	-236.0	72.6	0.00	0.00	-235.4	
6	7809.4	0.00	0.00	7787.0	-250.0	77.0	2.00	180.00	-249.3	
7	11970.4	0.00	0.00	11957.5	-250.0	77.0	0.00	0.00	-249.3	
8	12720.2	89.98	359.58	12435.0	227.2	73.5	12.00	359.58	227.9	
9	15152.6	89.98	359.58	12436.0	2659.6	55.5	0.00	0.00	2660.0	TGT #1 (Barlow 34 Fed Com #715H)
10	15158.3	89.88	359.57	12436.0	2665.2	55.5	2.00	-178.97	2665.6	
11	17242.1	89.88	359.57	12441.0	4749.0	40.0	0.00	0.00	4749.2	PBHL (Barlow 34 Fed Com #715H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	North	East	Shape
FTP (Barlow 34 Fed Com #715H)	12435.0	-260.0	77.0	354887.80	783327.00	Point
TGT #1 (Barlow 34 Fed Com #715H)	12436.0	2659.6	55.5	367666.50	783305.51	Point
PBHL (Barlow 34 Fed Com #715H)	12441.0	4749.0	40.0	369756.00	783290.00	Polygon



U1 12/20/2010 10:00:00 AM
U1 12/20/2010 10:00:00 AM
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Bureau of Land Management
WATER PRODUCTION & DISPOSAL INFORMATION

HOBBS OCD

OCT 31 2018

RECEIVED

LEASE: BARLOW 34 FEDERAL

Lease no NMNM 02965A

SECTION 34, T26S, R33E

Wells: Barlow 34 Federal Com #711H 30-025-44390

Barlow 34 Federal Com #714H 30-025-44393

Barlow 34 Federal Com #715H 30-025-44394

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