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DISTRICT II-ARTESIA O.C.D.

EOG Resources - Midland

Eddy County, NM (NAD 27 NME)

Secretariat 3 Fed Com

#501H

OH

30-015-44291

Survey: Intrepid MWD

Midland PVA

06 September, 2017



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #501H	
Project: Eddy County, NM (NAD 27 NME)		TVD Reference: KB = 25' @ 3485.0usft (HP 473)	
Site: Secretariat 3 Fed Com		MD Reference: KB = 25' @ 3485.0usft (HP 473)	
Well: #501H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		Database: EDM 5000.14	

Project Eddy 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 Secretariat 3 Fed Com			
Site Position:	Northing:	614,453.00 usft	Latitude:
From: Map	Easting:	522,526.00 usft	Longitude:
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:
			0.04 °

Well #501H			
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			0.0 usft
			Ground Level:
			3,460.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	2/10/2017	(°)	(°)	(nT)
			7.35	60.38	48,175.25884112

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	176.92	



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Design:	OH	Database:	EDM 5000.14

Survey Program		Date	9/6/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
124.0	379.0	Invictus MWD (OH)	MWD	MWD - Standard	
428.0	14,000.0	Intrepid MWD (OH)	MWD	MWD - Standard	

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)
379.0	1.80	284.73	378.8	-0.3	-6.0	0.00	0.00	0.00	-5.8	1.8
428.0	2.10	284.10	427.8	0.3	-7.6	0.89	0.61	19.12	-7.1	2.9
616.0	0.10	238.70	615.8	1.6	-10.9	1.09	-1.06	-29.47	-8.5	-7.0
797.0	0.20	257.70	796.8	1.4	-11.3	0.06	0.06	10.50	-10.8	-3.8
981.0	0.40	268.60	980.8	1.4	-12.3	0.11	0.11	5.92	-12.3	-1.7
1,166.0	0.40	271.20	1,165.8	1.4	-13.6	0.01	0.00	1.41	-13.6	-1.1
1,351.0	1.00	72.90	1,350.7	1.8	-12.7	0.75	0.32	87.41	11.6	5.5
1,536.0	5.80	78.40	1,535.4	4.2	-2.0	2.60	2.59	2.97	4.3	4.3
1,724.0	6.00	77.80	1,722.4	8.2	16.9	0.11	0.11	-0.32	-0.2	3.2
1,913.0	6.00	77.30	1,910.3	12.5	36.2	0.03	0.00	-0.26	-0.3	2.0
2,101.0	5.80	80.40	2,097.3	16.2	55.2	0.20	-0.11	1.65	0.1	0.4
2,291.0	6.00	81.70	2,286.3	19.2	74.5	0.13	0.11	0.68	0.2	-2.1
2,480.0	5.90	82.40	2,474.3	21.9	93.9	0.07	-0.05	0.37	0.2	-4.9
2,668.0	5.50	84.80	2,661.4	24.0	112.4	0.25	-0.21	1.28	0.6	-8.1
2,857.0	5.70	87.70	2,849.5	25.2	130.8	0.18	0.11	1.53	1.0	-12.4
3,030.0	5.40	86.80	3,021.7	26.0	147.5	0.18	-0.17	-0.52	2.1	-16.5
3,218.0	7.20	72.20	3,208.5	30.1	167.6	1.27	0.96	-7.77	5.4	-17.1
3,407.0	7.50	70.90	3,396.0	37.8	190.5	0.18	0.16	-0.69	1.3	-16.1
3,596.0	7.40	74.20	3,583.4	45.1	213.9	0.23	-0.05	1.75	-4.4	-15.6
3,784.0	7.50	76.90	3,769.8	51.2	237.5	0.19	0.05	1.44	-9.8	-15.8
3,972.0	7.20	77.30	3,956.3	56.6	260.9	0.16	-0.16	0.21	-14.4	-16.7



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Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25 @ 3485.0ust (HP 473)
MD Reference: KB = 25 @ 3485.0ust (HP 473)
North Reference: GHD
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey	MD (ust)	bnc (°)	Azi (azimuth) (°)	TVD (ust)	NS (ust)	EW (ust)	Dleg (°100ust)	Build (°100ust)	Turn (°100ust)	High to Plan (ust)	Right to Plan (ust)
	4,162.0	6.30	72.50	4,144.9	62.3	262.5	0.56	-0.47	-2.63	-15.4	-16.3
	4,350.0	6.30	74.80	4,331.8	68.1	302.3	0.13	0.00	1.22	-17.1	-17.6
	4,538.0	5.40	76.20	4,519.8	73.0	320.9	0.48	-0.48	0.74	-17.1	-17.7
	4,728.0	4.10	75.60	4,708.2	76.8	336.1	0.69	-0.69	-0.32	-12.8	-16.5
	4,916.0	4.90	64.80	4,895.6	81.9	349.9	0.62	0.43	-5.69	-4.3	-16.7
	5,105.0	4.40	55.20	5,084.0	89.4	363.1	0.49	-0.26	-5.13	2.4	-14.1
	5,294.0	4.90	64.50	5,272.4	97.0	376.4	0.48	0.26	4.92	4.3	-9.9
	5,481.0	7.70	65.30	5,458.2	105.7	396.0	1.50	1.50	0.43	3.0	-6.9
	5,670.0	4.50	55.30	5,646.1	115.2	412.6	1.78	-1.69	-5.28	3.0	-2.1
	5,858.0	4.80	59.60	5,833.5	123.4	425.4	0.24	0.16	2.29	6.6	3.1
	6,007.0	5.30	149.50	5,982.1	120.6	434.3	4.79	0.34	60.34	0.7	-15.3
	6,055.0	8.90	158.90	6,029.7	115.3	436.8	7.86	7.50	19.58	-2.8	-16.8
	6,102.0	13.30	162.50	6,075.8	106.7	439.7	9.47	9.36	7.66	-3.7	-21.8
	6,149.0	18.40	162.30	6,121.0	94.5	443.6	10.85	10.85	-0.43	-2.7	-24.4
	6,196.0	23.60	160.90	6,164.9	78.5	448.9	11.11	11.06	-2.88	-0.8	-25.8
	6,244.0	28.80	161.80	6,208.0	58.4	455.7	10.86	10.83	1.87	0.5	-26.2
	6,291.0	33.70	164.10	6,248.1	35.1	462.8	10.73	10.43	4.89	1.7	-26.4
	6,338.0	39.10	164.30	6,286.0	8.3	470.4	11.49	11.49	0.43	4.1	-26.3
	6,386.0	44.50	164.80	6,321.7	-22.5	478.9	11.27	11.25	1.04	6.6	-26.7
	6,433.0	50.20	165.00	6,353.6	-55.9	487.9	12.13	12.13	0.43	9.2	-24.6
	6,480.0	55.70	166.60	6,381.9	-82.3	497.1	12.01	11.70	3.40	11.3	-23.5
	6,527.0	61.10	168.50	6,406.5	-131.3	505.7	11.99	11.49	4.04	13.5	-23.2
	6,545.1	63.29	169.04	6,414.9	-147.0	508.8	12.36	12.07	3.01	14.4	-23.2
1 HL Crossing 6345.1 MD; 6414.9 TVD; -147.0°; 508.8°; 63.29	6,575.0	66.90	169.90	6,427.5	-173.7	513.8	12.36	12.09	2.88	15.9	-23.4
	6,621.0	72.00	170.10	6,443.7	-216.1	521.2	11.09	11.09	0.43	16.8	-23.2
	6,669.0	76.10	170.80	6,456.8	-261.6	528.9	8.66	8.54	1.46	16.0	-22.4



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 Site: Secretariat 3 Fed Com
 Well: #501H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25' @ 3485.0usft (HP 473)
 MD Reference: KB = 25' @ 3485.0usft (HP 473)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (*100usft)	Build (*100usft)	Turn (*100usft)	High to Plan (usft)	Right to Plan (usft)	
6,716.0	80.20	173.80	6,486.5	-307.2	535.0	10.73	8.72	6.38	13.6	-22.1	
6,763.0	83.70	176.70	6,473.1	-353.5	538.9	9.63	7.45	6.17	10.4	-23.0	
6,811.0	84.60	177.80	6,478.0	-401.2	541.2	2.95	1.87	2.29	7.5	-24.5	
6,858.0	86.20	177.00	6,481.7	-448.0	543.3	3.80	3.40	-1.70	5.8	-25.0	
6,905.0	88.30	178.00	6,484.0	-494.9	545.3	4.95	4.47	2.13	4.6	-24.5	
6,999.0	88.60	178.00	6,486.5	-588.8	548.6	0.32	0.32	0.00	5.4	-22.1	
7,094.0	89.10	178.10	6,488.4	-683.8	551.9	0.54	0.53	0.11	6.3	-19.3	
7,188.0	89.70	177.40	6,489.4	-777.7	555.5	0.98	0.64	-0.74	6.4	-18.0	
7,329.0	90.90	176.50	6,488.7	-918.5	563.0	1.06	0.85	-0.64	4.2	-9.2	
7,424.0	90.90	176.40	6,487.2	-1,013.3	568.9	0.11	0.00	-0.11	1.8	-3.7	
7,518.0	89.70	177.80	6,486.7	-1,107.2	573.7	1.96	-1.28	1.49	0.3	0.6	
7,612.0	89.80	177.80	6,487.1	-1,201.1	577.3	0.11	0.11	0.00	-0.2	3.8	
7,707.0	90.40	178.00	6,486.9	-1,296.0	580.8	0.67	0.63	0.21	-1.3	6.8	
7,801.0	89.40	179.50	6,487.1	-1,390.0	582.8	1.92	-1.06	1.60	-2.1	8.5	
7,895.0	89.10	179.70	6,488.3	-1,484.0	583.5	0.38	-0.32	0.21	-1.8	8.7	
7,989.0	89.10	180.00	6,489.8	-1,578.0	583.7	0.32	0.00	0.32	-1.2	8.5	
8,081.0	89.70	179.70	6,490.8	-1,670.0	584.0	0.73	0.65	-0.33	-1.2	8.3	
8,171.0	90.10	180.40	6,490.9	-1,760.0	583.9	0.90	0.44	0.78	-1.9	7.8	
8,262.0	90.60	180.70	6,490.4	-1,851.0	583.0	0.64	0.55	0.33	-3.4	6.6	
8,355.0	90.90	180.50	6,489.2	-1,943.9	582.0	0.39	0.32	-0.22	-5.6	5.2	
8,446.0	90.80	180.60	6,487.8	-2,034.9	581.2	0.16	-0.11	0.11	-7.8	3.9	
8,539.0	91.30	180.70	6,486.1	-2,127.9	580.1	0.55	0.54	0.11	-10.4	2.4	
8,630.0	91.20	180.50	6,484.1	-2,218.9	579.2	0.25	-0.11	-0.22	-13.3	1.0	
8,723.0	90.90	180.00	6,482.4	-2,311.9	578.8	0.63	-0.32	-0.54	-16.0	0.2	
8,815.0	91.10	180.00	6,480.8	-2,403.9	578.8	0.22	0.22	0.00	-18.5	-0.2	
8,905.0	91.60	180.00	6,478.7	-2,493.8	578.8	0.56	0.56	0.00	-21.5	0.5	
9,000.0	90.60	181.50	6,476.9	-2,588.8	577.5	1.90	-1.05	1.58	-24.3	2.6	



Midland PVA

Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 27 NME)
Site: Secretarial 3 Fed Con
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #501H
KB = 25' @ 3485 Duff (HP 473)
KB = 25' @ 3485 Duff (HP 473)
Ghd
Minimum Curvature
EDM 5000.14

Survey	MD (usft)	Inc (")	Asl (eazimuth) (")	TVD (usft)	NIS (usft)	EW (usft)	DL-eg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	8,094.0	89.30	182.30	6,477.0	-2,882.7	574.4	1.62	-1.38	0.85	-25.1	2.9
	9,189.0	85.80	182.40	6,481.0	-2,777.6	570.5	3.69	-3.68	0.11	-22.0	2.5
	9,283.0	85.00	182.00	6,488.6	-2,871.2	568.9	0.95	-0.85	-0.43	-15.4	2.3
	9,377.0	84.80	181.40	6,496.9	-2,864.8	564.1	0.67	-0.21	-0.64	-8.0	3.0
	9,471.0	86.50	181.40	6,504.0	-3,058.5	561.8	1.81	1.81	0.00	-1.8	4.1
	9,566.0	89.00	181.80	6,507.8	-3,153.4	559.2	2.66	2.63	0.42	1.0	5.0
	9,660.0	88.40	181.70	6,509.9	-3,247.3	556.3	0.65	-0.64	-0.11	2.2	5.6
	9,754.0	86.70	181.70	6,513.9	-3,341.2	553.5	1.81	-1.81	0.00	5.3	6.2
	9,848.0	86.90	182.00	6,519.2	-3,435.0	550.5	0.38	0.21	0.32	9.6	6.6
	9,943.0	86.60	181.50	6,524.6	-3,528.8	547.6	0.61	-0.32	-0.53	14.0	7.2
	10,037.0	85.90	181.40	6,530.7	-3,623.5	545.2	0.75	-0.74	-0.11	19.2	8.3
	10,132.0	87.60	181.40	6,536.1	-3,718.3	542.9	1.79	1.79	0.00	23.7	9.5
	10,226.0	89.60	181.80	6,539.4	-3,812.3	540.3	2.17	2.13	0.43	26.0	10.3
	10,320.0	89.70	180.80	6,539.0	-3,906.3	538.2	1.07	0.11	-1.06	24.7	11.6
	10,414.0	89.90	180.90	6,539.3	-4,000.2	536.8	0.24	0.21	0.11	24.1	13.6
	10,509.0	90.20	180.90	6,539.2	-4,095.2	535.3	0.32	0.32	0.00	23.2	15.3
	10,603.0	90.50	180.30	6,538.6	-4,189.2	534.3	0.71	0.32	-0.64	21.8	17.5
	10,698.0	88.20	181.50	6,539.7	-4,284.2	532.8	2.73	-2.42	1.26	22.1	19.3
	10,792.0	88.20	181.00	6,542.7	-4,378.1	530.7	0.53	0.00	-0.53	24.3	20.4
	10,887.0	88.60	180.80	6,545.3	-4,473.1	529.3	0.47	0.42	-0.21	26.1	22.2
	10,981.0	89.60	182.20	6,546.8	-4,567.0	526.8	1.83	1.06	1.49	26.8	22.9
	11,075.0	91.20	182.90	6,546.1	-4,660.9	522.6	1.86	1.70	0.74	25.3	21.9
	11,170.0	91.50	182.50	6,543.9	-4,755.8	518.1	0.53	0.32	-0.42	22.3	20.6
	11,264.0	91.40	182.20	6,541.5	-4,849.7	514.3	0.34	-0.11	-0.32	19.1	20.0
	11,359.0	91.40	181.80	6,539.2	-4,944.6	511.0	0.42	0.00	-0.42	16.0	19.9
	11,453.0	90.90	182.20	6,537.3	-5,039.5	507.7	0.68	-0.53	0.43	13.3	19.8
	11,547.0	90.20	181.40	6,536.4	-5,132.5	504.7	1.13	-0.74	-0.85	11.6	20.0



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Wellbore: OH
Design: OH

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MD Reference: KB = 25' @ 3485.0usft (HP 473)
North Reference: Gld
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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	11,642.0	89.70	179.10	6,536.5	-5,227.5	504.3	2.48	-0.53	-2.42	10.9	22.8
	11,736.0	89.90	180.70	6,536.8	-5,321.5	504.5	1.72	0.21	1.70	10.4	26.2
	11,831.0	89.80	182.90	6,537.1	-5,416.4	501.5	2.32	-0.11	2.32	9.9	26.4
	11,925.0	89.70	182.40	6,537.5	-5,510.3	497.2	0.54	-0.11	-0.53	9.5	25.3
	12,019.0	89.50	182.10	6,538.1	-5,604.2	493.5	0.38	-0.21	-0.32	9.4	24.8
	12,114.0	89.00	180.00	6,539.4	-5,699.2	491.7	2.27	-0.53	-2.21	9.8	26.3
	12,208.0	88.80	179.00	6,541.2	-5,794.2	492.6	1.07	-0.21	-1.05	10.8	30.3
	12,303.0	89.50	181.40	6,542.6	-5,889.2	492.2	2.66	0.74	2.55	11.4	33.2
	12,397.0	90.50	181.60	6,542.6	-5,982.1	489.8	1.08	1.06	0.21	10.6	33.9
	12,491.0	90.90	183.10	6,541.4	-6,076.0	485.9	1.65	0.43	1.60	8.7	33.3
	12,586.0	90.30	182.70	6,540.4	-6,170.9	481.1	0.76	-0.63	-0.42	6.9	31.7
	12,680.0	90.60	182.00	6,539.7	-6,264.8	477.3	0.81	0.32	-0.74	5.3	31.0
	12,774.0	90.90	181.70	6,538.5	-6,358.8	474.2	0.45	0.32	-0.32	3.3	31.2
	12,869.0	91.10	181.40	6,536.8	-6,453.7	471.7	0.38	0.21	-0.32	0.8	31.9
	12,963.0	89.60	183.60	6,536.2	-6,547.6	467.6	2.83	-1.60	2.34	-0.5	31.0
	13,056.0	89.50	183.40	6,537.0	-6,640.4	461.9	0.24	-0.11	-0.22	-0.6	28.4
	13,151.0	89.50	182.70	6,537.8	-6,735.3	456.8	0.74	0.00	-0.74	-0.6	26.6
	13,246.0	89.50	182.20	6,538.6	-6,830.2	452.8	0.53	0.00	-0.53	-0.6	25.8
	13,340.0	89.80	181.80	6,539.2	-6,924.2	449.5	0.53	0.32	-0.43	-0.8	25.7
	13,434.0	90.80	182.20	6,538.7	-7,018.1	446.2	1.15	1.06	0.43	-2.1	25.7
	13,528.0	90.50	183.70	6,537.7	-7,112.0	441.4	1.63	-0.32	1.60	-4.0	24.1
	13,622.0	90.70	183.50	6,536.7	-7,205.8	435.5	0.30	0.21	-0.21	-5.8	21.4
	13,716.0	90.20	182.50	6,535.9	-7,299.6	430.5	1.19	-0.53	-1.06	-7.3	19.7
	13,810.0	90.30	182.60	6,535.5	-7,393.5	426.4	0.15	0.11	0.11	-8.6	18.7
	13,815.6	90.29	182.56	6,535.5	-7,399.1	426.1	0.75	-0.11	-0.74	-8.6	18.7
HL Crossing 13815.6' MD; 6535.5' TVD; -7399.1'; 426.1'; 90.29											
13,904.0	90.20	181.90	6,535.1	-7,487.5	422.7	0.75	-0.11	-0.74	-8.8	18.3	18.3



Midland PVA

Company: EOG Resources - Midland
 Project: Eddy County, NM (NAD 27 NME)
 Site: Secretariat 3 Fed Com
 Well: #501H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #501H
 TVD Reference: KB = 25' @ 3485.0usft (HP 473)
 MD Reference: KB = 25' @ 3485.0usft (HP 473)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
13,941.0	90.10	181.60	6,535.0	-7,524.5	421.5	0.85	-0.27	-0.81	-15.5	28.5
Last MWD Survey (MD = 13941.0)										
14,000.0	90.10	181.60	6,534.9	-7,583.4	419.9	0.00	0.00	0.00	-41.4	76.0
Projection to Bit (MD = 14000.0)										

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
6,545.1	6,414.9	-147.0	508.8	HL Crossing 6545.1' MD; 6414.9' TVD; -147.0'; 508.8'; 63.29
13,815.6	6,535.5	-7,399.1	426.1	HL Crossing 13815.6' MD; 6535.5' TVD; -7399.1'; 426.1'; 90.29
13,941.0	6,535.0	-7,524.5	421.5	Last MWD Survey (MD = 13941.0)
14,000.0	6,534.9	-7,583.4	419.9	Projection to Bit (MD = 14000.0)

Checked By: _____ Approved By: _____ Date: _____



Eddy County, NM (NAD 27 NME)

Secretariat 3 Fed Com #501H

HP 473

Plan #2



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.39°
Magnetic Field
Strength: 49118.3 nT
Dip Angle: 60.33°
Date: 3/10/2017
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 7.31°
To convert a Magnetic Direction to a True Direction, Add 7.35° East
To convert a True Direction to a Grid Direction, Subtract 0.04°

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

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

WELL DETAILS: #501H

Ground Level: 3460.0
KB = 25' @ 3465.0 (HP 473)
Northing: 614453.00 Easting: 622526.00 Latitude: 32° 41' 21.152 N Longitude: 104° 15' 38.413 W

SECTION DETAILS

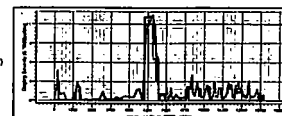
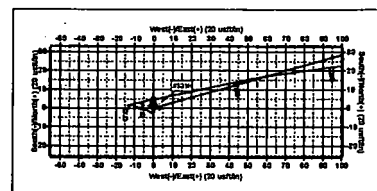
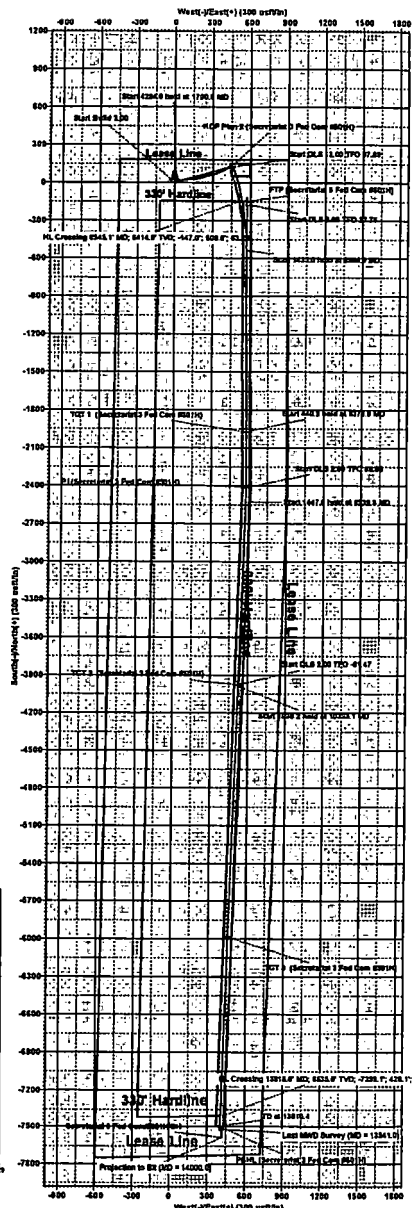
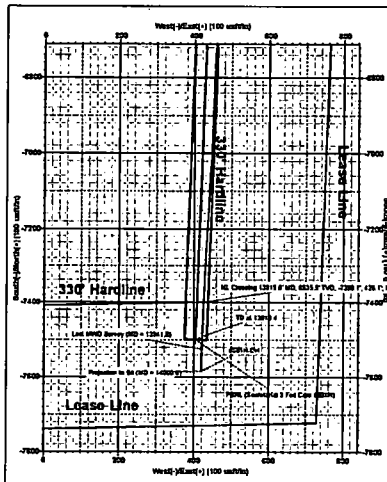
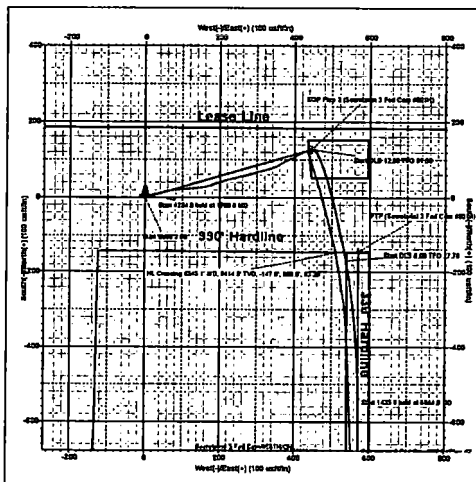
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1700.0	6.00	74.00	1699.5	4.3	15.1	2.00	74.00	-3.5	
4	5984.0	6.00	74.00	5980.0	127.8	445.5	0.00	0.00	-103.8	
5	6565.0	69.01	169.34	6409.8	-187.8	536.4	12.00	97.59	196.4	
6	6944.9	89.43	179.74	6480.7	-536.9	570.5	8.00	27.76	568.8	
7	8379.9	89.43	179.74	6495.0	-1971.8	577.0	0.00	0.00	2000.0	TGT 1 (Secretariat 3 Fed Com #501H)
8	8820.1	89.43	179.74	6499.4	-2412.0	576.0	0.00	0.00	2439.7	PL (Secretariat 3 Fed Com #501H)
9	8938.3	89.43	182.10	6500.6	-2530.1	577.1	2.00	89.96	2557.5	
10	10386.1	89.43	182.10	6515.0	-3976.9	524.0	0.00	0.00	3999.3	TGT 2 (Secretariat 3 Fed Com #501H)
11	10395.1	89.52	181.95	6515.1	-3985.9	523.8	2.00	-61.47	4008.3	
12	12394.3	89.52	181.95	6532.0	-5983.9	455.8	0.00	0.00	5999.8	TGT 3 (Secretariat 3 Fed Com #501H)
13	13910.4	89.50	181.97	6545.0	-7499.0	404.0	0.00	119.80	7509.9	PBHL (Secretariat 3 Fed Com #501H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (Secretariat 3 Fed Com 1700')	1700.0	-7499.0	-358.0	609954.00	622270.00
KOP Plan 2 (Secretariat 3 Fed Com #501H)	5960.0	127.8	445.5	614530.76	622871.54
KOP (Secretariat 3 Fed Com #501H)	6022.5	133.2	587.8	614538.19	623093.82
FTP (Secretariat 3 Fed Com #501H)	6420.0	-147.0	569.0	614308.00	623099.00
TGT 1 (Secretariat 3 Fed Com #501H)	6435.0	-1971.8	577.0	612461.20	623103.00
PL (Secretariat 3 Fed Com #501H)	6499.4	-2412.0	576.0	612941.00	623105.00
TGT 2 (Secretariat 3 Fed Com #501H)	6515.0	-3976.9	524.0	610476.10	623049.98
TGT 3 (Secretariat 3 Fed Com #501H)	6532.0	-5983.9	455.8	608463.10	622851.77
PBHL (Secretariat 3 Fed Com #501H)	6545.0	-7499.0	404.0	608954.00	622930.00



Wellbore Survey Data
Date: 3/10/2017
Surveyor: [Name]
Scale: 1" = 100'

Bureau of Land Management

Carlsbad Field Office

WATER PRODUCTION & DISPOSAL INFORMATION

**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAY 16 2018

RECEIVED

Well: SECRETARIAT 3 FEDERAL COM # 501H

Sec 3 T19S, R27E

30-015-44291

1. Name of formations producing water on lease: **BONE SPRING**
2. Amount of water produced from all formations in barrels per day **2000-4000 BWPD**
3. How water is stored on lease **Tanks 2-400 bbl tanks**
4. How water is moved to disposal facility **Pipeline/Trucked**
5. Disposal Facility:
 - a. Facility Operators name **TRINITY ENVIRONMENTAL SWD 1, LLC**
 - b. Name of facility or well name & number

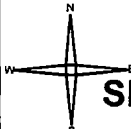
RED LAKE STATE SWD #1

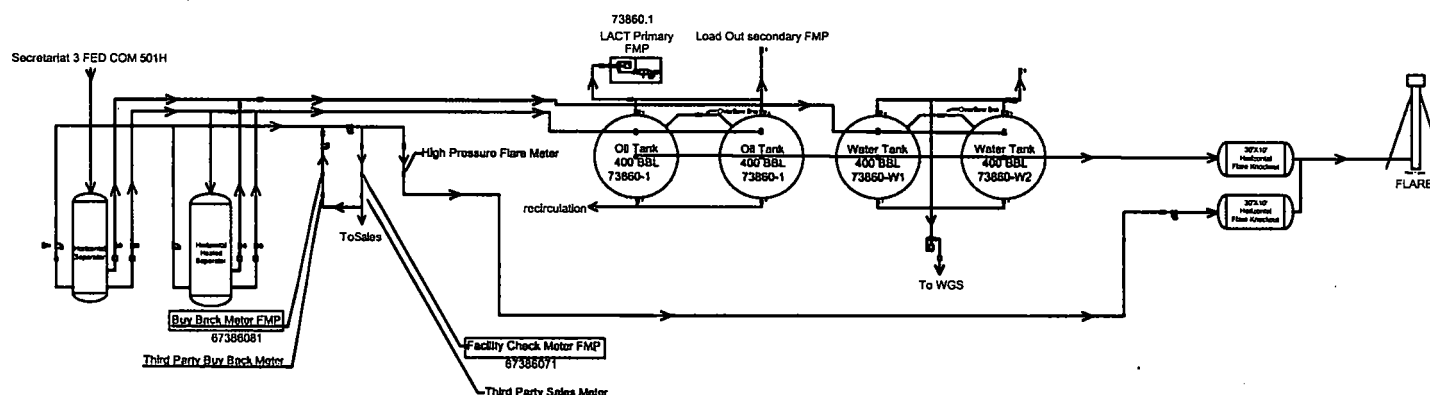
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G-22-17S-28E

Permit No SWD 332-0

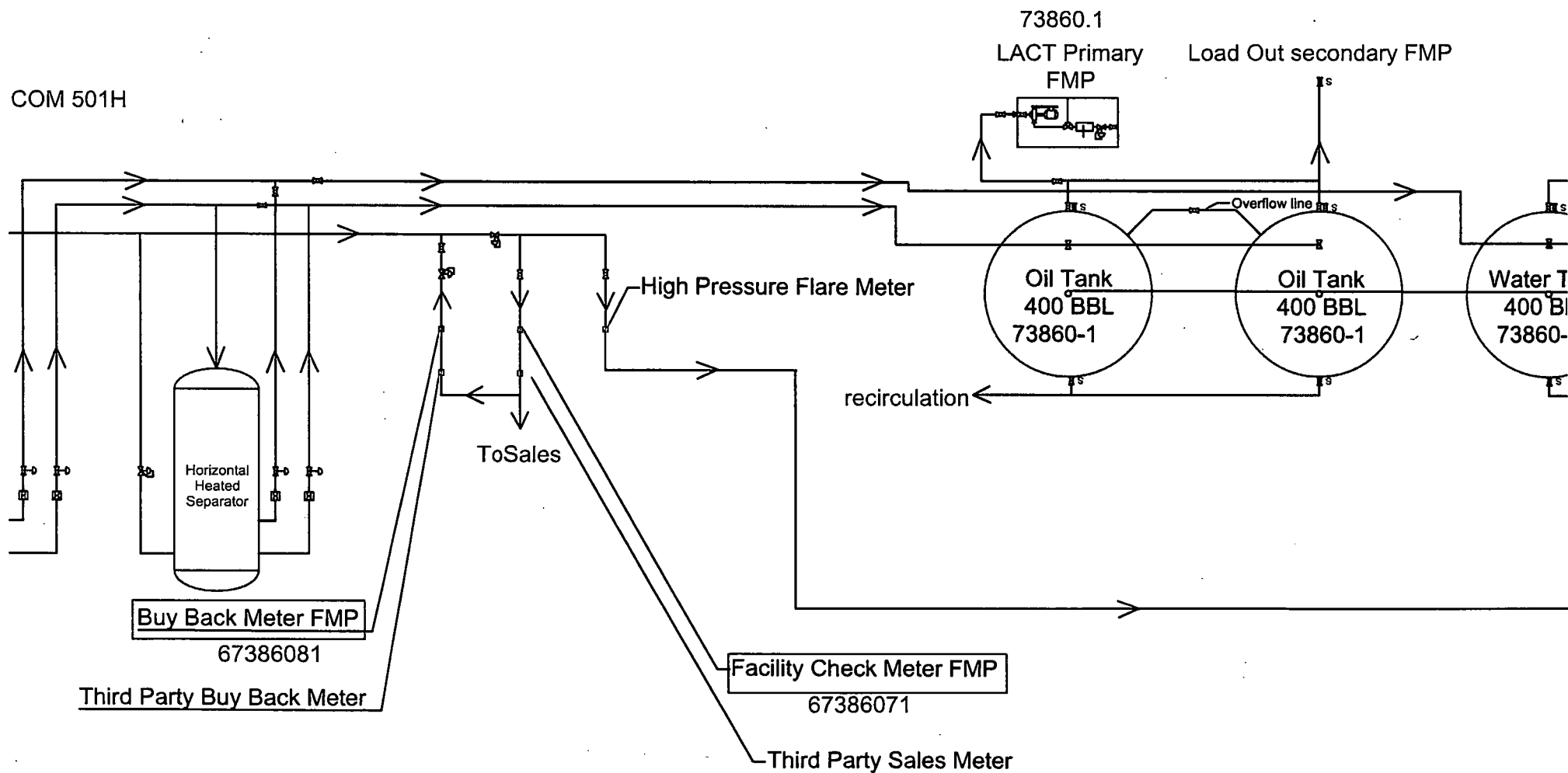
Type of facility or well **SWD**

 EOG Resources, Inc. SECRETARIAT 3 FED COM #501H API 30-015-44291 T19S-R27E 4/27/18	LEGEND  Valve Open  Valve Closed  Valve Sealed  Orifice Meter  Turbine/ Coriolis Meter  Oil  Gas  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.
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Facility Overview: Please see pages 2 and 3 for details.

COM 501H



Load Out secondary FMP

