

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 2 2015

RECEIVED

OCCIDENTAL PERMIAN LTD.

Culebra Bluff Bone Spring

Eddy County, NM (Grid North)

Villa A Fee Com #2H

DH - Job #321014-MPH-1209

30-015-42284

Survey: MWD

Regulatory Report (Grid North)

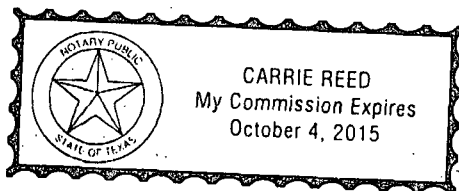
This survey is correct to the best of my knowledge and is supported by actual field data.

K. Harth

Notarized this date 23rd of December, 2014.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Regulatory Report (Grid North)

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Villa A Fee Com #2H
Project:	Culebra Bluff Bone Spring	TVD Reference:	Mean Sea Level (System)
Site:	Eddy County, NM (Grid North)	MD Reference:	Mean Sea Level (System)
Well:	Villa A Fee Com #2H	North Reference:	Grid
Wellbore:	DH - Job #321014-MPH-1209	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #321014-MPH-1209	Database:	MID_Regulatory

Project	Culebra Bluff Bone Spring		
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	Eddy County, NM (Grid North)				
Site Position:		Northing:	477,147.85 usft	Latitude:	32° 18' 41.768 N
From:	Lat/Long	Easting:	568,288.54 usft	Longitude:	104° 6' 44.256 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.12 °

Well:	Villa A Fee Com #2H, Horizontal					
Well Position	+N/-S	0.0 usft	Northing:	479,736.52 usft	Latitude:	32° 19' 7.414 N
	+E/-W	0.0 usft	Easting:	566,877.28 usft	Longitude:	104° 7' 0.640 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	0.0 usft

Wellbore	DH - Job #321014-MPH-1209				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/19/2014	7.44	60.10	48,305

Design		DH - Job #321014-MPH-1209		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	137.46

Survey Program	Date 12/22/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
448.0	13,820.0	MWD (DH - Job #321014-MPH-1209)	MWD	MWD	

Survey	MD (usft)	Inc. (°)	Azi (grid north azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
	448.0	1.03	260.74	448.0	-0.6	-4.0	260.74	4.0
	509.0	1.06	266.45	509.0	-0.8	-5.1	261.37	5.1
	601.0	1.09	270.64	600.9	-0.8	-6.8	263.18	6.9
	694.0	1.09	267.21	693.9	-0.8	-8.6	264.35	8.6
	786.0	1.13	282.73	785.9	-0.7	-10.3	266.18	10.4
	879.0	0.97	274.35	878.9	-0.4	-12.0	267.96	12.0
	971.0	0.81	277.20	970.9	-0.3	-13.4	268.77	13.4
	1,066.0	0.92	288.09	1,065.9	0.0	-14.8	270.13	14.8
	1,160.0	1.34	271.40	1,159.9	0.3	-16.6	271.01	16.6
	1,254.0	1.11	259.95	1,253.8	0.2	-18.6	270.50	18.6
	1,349.0	1.00	274.79	1,348.8	0.1	-20.4	270.20	20.4

Regulatory Report (Grid North)

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 Project: Culebra Bluff Bone Spring
 Site: Eddy County, NM (Grid North)
 Well: Villa A Fee Com #2H
 Wellbore: DH - Job #321014-MPH-1209
 Design: DH - Job #321014-MPH-1209

Local Co-ordinate Reference: Well Villa A Fee Com #2H
 TVD Reference: Mean Sea Level (System)
 MD Reference: Mean Sea Level (System)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,443.0	1.10	278.78	1,442.8	0.3	-22.1	270.72	22.1	
1,538.0	0.23	73.71	1,537.8	0.5	-22.8	271.18	22.8	
1,632.0	0.64	87.99	1,631.8	0.5	-22.1	271.40	22.1	
1,727.0	1.52	95.93	1,726.8	0.4	-20.3	271.21	20.3	
1,821.0	2.29	98.77	1,820.7	0.0	-17.2	270.05	17.2	
1,916.0	2.40	105.59	1,915.6	-0.8	-13.4	266.55	13.4	
2,010.0	2.07	117.71	2,009.6	-2.1	-10.0	258.01	10.2	
2,105.0	2.51	105.81	2,104.5	-3.5	-6.5	241.74	7.4	
2,199.0	2.77	111.24	2,198.4	-4.9	-2.4	206.20	5.4	
2,294.0	2.99	113.61	2,293.3	-6.7	2.0	163.29	7.0	
2,388.0	2.73	112.42	2,387.2	-8.5	6.3	143.45	10.6	
2,479.0	1.97	107.51	2,478.1	-9.8	9.8	135.03	13.9	
2,573.0	1.14	13.85	2,572.1	-9.4	11.6	129.08	14.9	
2,668.0	1.17	9.82	2,667.0	-7.5	12.0	122.18	14.2	
2,762.0	1.12	1.50	2,761.0	-5.7	12.2	115.00	13.4	
2,856.0	1.22	12.60	2,855.0	-3.8	12.4	106.94	13.0	
2,951.0	1.08	10.72	2,950.0	-1.9	12.8	98.50	12.9	
3,045.0	1.29	3.28	3,044.0	0.0	13.0	89.93	13.0	
3,140.0	1.41	10.61	3,138.9	2.2	13.3	80.47	13.5	
3,234.0	1.10	1.90	3,232.9	4.3	13.5	72.50	14.2	
3,329.0	1.15	356.19	3,327.9	6.1	13.5	65.58	14.8	
3,423.0	0.93	354.88	3,421.9	7.8	13.4	59.65	15.5	
3,517.0	1.21	358.26	3,515.9	-9.6	13.3	54.17	16.4	
3,612.0	0.98	354.85	3,610.8	11.4	13.2	49.14	17.4	
3,706.0	1.12	355.61	3,704.8	13.1	13.0	44.82	18.5	
3,801.0	1.18	351.33	3,799.8	15.0	12.8	40.49	19.7	
3,895.0	1.19	338.06	3,893.8	16.9	12.3	36.10	20.9	
3,990.0	0.95	340.59	3,988.8	18.5	11.7	32.21	21.9	
4,084.0	0.98	341.77	4,082.8	20.0	11.2	29.14	22.9	
4,179.0	1.30	342.65	4,177.7	21.8	10.6	25.88	24.3	
4,273.0	1.16	333.43	4,271.7	23.7	9.8	22.56	25.7	
4,367.0	1.20	349.54	4,365.7	25.5	9.2	19.91	27.1	
4,462.0	0.52	223.98	4,460.7	26.2	8.8	18.50	27.6	
4,556.0	0.50	206.43	4,554.7	25.5	8.3	17.98	26.8	
4,651.0	0.85	214.42	4,649.7	24.6	7.7	17.41	25.7	
4,746.0	1.23	216.44	4,744.7	23.2	6.7	16.12	24.1	
4,840.0	1.24	231.39	4,838.6	21.7	5.3	13.72	22.3	
4,935.0	1.31	236.08	4,933.6	20.5	3.6	9.97	20.8	
5,029.0	1.29	226.30	5,027.6	19.1	1.9	5.79	19.2	
5,124.0	1.35	232.80	5,122.6	17.7	0.3	0.89	17.7	
5,218.0	1.41	234.26	5,216.5	16.4	-1.5	354.60	16.4	
5,313.0	1.40	235.13	5,311.5	15.0	-3.4	347.07	15.4	
5,407.0	1.38	232.91	5,405.5	13.7	-5.3	338.85	14.7	
5,502.0	1.19	236.14	5,500.5	12.4	-7.0	330.55	14.3	

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Site: Eddy County, NM (Grid North)
Well: Villa A Fee Com #2H
Wellbore: DH - Job #321014-MPH-1209
Design: DH - Job #321014-MPH-1209

Local Co-ordinate Reference: Well Villa A Fee Com #2H
TVD Reference: Mean Sea Level (System)
MD Reference: Mean Sea Level (System)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
5,596.0	1.35	233.41	5,594.4	11.2	-8.7	322.18	14.2	
5,690.0	1.34	240.53	5,688.4	10.0	-10.6	313.52	14.6	
5,785.0	1.53	233.33	5,783.4	8.7	-12.6	304.83	15.3	
5,880.0	1.29	233.74	5,878.4	7.3	-14.4	296.97	16.2	
5,974.0	1.55	228.60	5,972.3	5.9	-16.2	289.90	17.3	
6,068.0	1.95	220.43	6,066.3	3.8	-18.2	281.83	18.6	
6,163.0	2.06	269.20	6,161.2	2.6	-21.0	276.97	21.1	
6,257.0	1.98	279.45	6,255.2	2.8	-24.3	276.60	24.4	
6,352.0	1.71	262.39	6,350.1	2.9	-27.3	276.04	27.5	
6,446.0	0.17	203.31	6,444.1	2.6	-28.7	275.12	28.9	
6,541.0	1.42	171.53	6,539.1	1.3	-28.6	272.57	28.7	
6,635.0	1.79	128.55	6,633.1	-0.8	-27.3	268.36	27.3	
6,729.0	1.95	134.53	6,727.0	-2.8	-25.0	263.57	25.2	
6,824.0	2.25	136.36	6,821.9	-5.3	-22.6	256.78	23.2	
6,918.0	2.75	143.64	6,915.9	-8.5	-20.0	247.06	21.7	
7,013.0	2.64	142.39	7,010.8	-12.0	-17.3	235.18	21.1	
7,107.0	1.96	131.78	7,104.7	-14.8	-14.8	224.92	20.9	
7,201.0	2.01	130.01	7,198.6	-16.9	-12.3	215.99	20.9	
7,296.0	1.64	126.40	7,293.6	-18.8	-9.9	207.83	21.3	
7,390.0	1.40	127.56	7,387.5	-20.3	-7.9	201.35	21.8	
7,485.0	0.69	147.48	7,482.5	-21.5	-6.7	197.34	22.5	
7,579.0	0.36	127.98	7,576.5	-22.2	-6.2	195.57	23.0	
7,674.0	1.13	188.73	7,671.5	-23.3	-6.1	194.65	24.1	
7,768.0	0.08	144.06	7,765.5	-24.2	-6.2	194.31	25.0	
7,863.0	0.15	191.86	7,860.5	-24.4	-6.2	194.19	25.2	
7,957.0	0.99	63.82	7,954.5	-24.2	-5.5	192.75	24.8	
8,052.0	0.66	107.06	8,049.5	-24.0	-4.2	189.96	24.3	
8,146.0	1.42	158.86	8,143.5	-25.2	-3.3	187.39	25.4	
8,241.0	3.30	153.45	8,238.4	-28.8	-1.6	183.23	28.8	
8,335.0	1.55	106.11	8,332.3	-31.5	0.8	178.54	31.6	
8,430.0	1.70	86.39	8,427.3	-31.8	3.4	173.82	32.0	
8,524.0	1.01	136.18	8,521.2	-32.3	5.4	170.49	32.8	
8,577.0	1.04	144.30	8,574.2	-33.0	6.0	169.68	33.6	
8,624.0	0.86	114.68	8,621.2	-33.5	6.6	168.89	34.2	
8,656.0	2.80	87.76	8,653.2	-33.6	7.6	167.28	34.5	
8,687.0	7.52	89.28	8,684.1	-33.6	10.4	162.83	35.1	
8,719.0	12.56	85.95	8,715.6	-33.3	15.9	154.41	36.9	
8,750.0	15.03	85.26	8,745.7	-32.7	23.3	144.53	40.2	
8,782.0	17.07	85.77	8,776.4	-32.0	32.1	134.91	45.4	
8,813.0	18.56	90.91	8,805.9	-31.8	41.6	127.37	52.3	
8,844.0	19.70	93.80	8,835.2	-32.2	51.7	121.89	60.9	
8,876.0	21.46	95.34	8,865.2	-33.1	63.0	117.73	71.1	
8,907.0	23.85	92.52	8,893.8	-33.9	74.9	114.36	82.2	
8,918.7	25.08	90.60	8,904.4	-34.0	79.7	113.12	86.7	

Regulatory Report (Grid North)

Company: OCCIDENTAL PERMIAN LTD.
 Project: Culebra Bluff Bone Spring
 Site: Eddy County, NM (Grid North)
 Well: Villa A Fee Com #2H
 Wellbore: DH - Job #321014-MPH-1209
 Design: DH - Job #321014-MPH-1209

Local Co-ordinate Reference: Well Villa A Fee Com #2H
 TVD Reference: Mean Sea Level (System)
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 Survey Calculation Method: Minimum Curvature
 Database: MID_Regulatory

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
8,939.0	27.26	87.67	8,922.7	-33.9	88.7	110.92	94.9
8,970.0	31.28	88.63	8,949.7	-33.4	103.8	107.84	109.0
9,002.0	34.26	88.48	8,976.6	-33.0	121.1	105.23	125.5
9,033.0	35.81	92.42	9,002.0	-33.1	138.9	103.41	142.8
9,065.0	36.12	94.97	9,027.9	-34.3	157.7	102.28	161.3
9,096.0	38.69	95.76	9,052.5	-36.1	176.4	101.56	180.1
9,127.0	42.45	98.65	9,076.1	-38.6	196.4	101.13	200.2
9,190.0	51.34	94.10	9,119.1	-43.6	242.1	100.21	245.9
9,253.0	60.58	90.06	9,154.3	-45.4	294.1	98.77	297.6
9,285.0	64.84	89.12	9,169.0	-45.2	322.6	97.97	325.7
9,316.0	68.73	88.42	9,181.2	-44.6	351.1	97.24	353.9
9,348.0	70.91	90.54	9,192.2	-44.3	381.1	96.63	383.7
9,379.0	75.37	91.97	9,201.2	-45.0	410.7	96.25	413.2
9,405.0	79.08	95.21	9,207.0	-46.6	436.0	96.09	438.5
9,437.0	83.16	96.23	9,211.9	-49.7	467.5	96.07	470.1
9,457.8	83.48	96.36	9,214.3	-52.0	488.0	96.08	490.8
9,468.0	83.64	96.42	9,215.5	-53.1	498.1	96.09	500.9
9,500.0	83.10	95.60	9,219.2	-56.4	529.7	96.08	532.7
9,531.0	83.50	95.69	9,222.8	-59.5	560.3	96.06	563.5
9,563.0	84.66	95.94	9,226.1	-62.7	592.0	96.04	595.3
9,594.0	86.17	97.02	9,228.6	-66.2	622.7	96.07	626.2
9,626.0	87.92	98.13	9,230.2	-70.4	654.4	96.14	658.2
9,657.0	88.29	98.50	9,231.3	-74.9	685.0	96.24	689.1
9,751.0	88.52	98.62	9,233.9	-88.8	778.0	96.52	783.0
9,846.0	88.72	98.57	9,236.2	-103.0	871.9	96.74	877.9
9,940.0	88.69	98.84	9,238.3	-117.3	964.8	96.93	971.9
10,035.0	90.03	99.42	9,239.3	-132.3	1,058.6	97.13	1,066.8
10,129.0	88.86	98.53	9,240.3	-147.0	1,151.4	97.28	1,160.7
10,224.0	88.05	97.98	9,242.8	-160.6	1,245.4	97.35	1,255.7
10,318.0	87.88	95.90	9,246.2	-172.0	1,338.6	97.32	1,349.6
10,412.0	88.45	96.68	9,249.2	-182.3	1,432.0	97.25	1,443.6
10,507.0	86.94	95.03	9,253.0	-192.0	1,526.4	97.17	1,538.4
10,601.0	86.27	94.60	9,258.5	-199.8	1,619.9	97.03	1,632.2
10,696.0	86.33	94.27	9,264.7	-207.2	1,714.4	96.89	1,726.9
10,790.0	87.72	95.04	9,269.6	-214.8	1,808.0	96.77	1,820.7
10,885.0	88.05	95.07	9,273.1	-223.2	1,902.6	96.69	1,915.6
10,979.0	89.16	95.10	9,275.4	-231.5	1,996.2	96.61	2,009.6
11,074.0	89.50	95.08	9,276.5	-239.9	2,090.8	96.55	2,104.5
11,168.0	89.03	94.60	9,277.7	-247.8	2,184.4	96.47	2,198.5
11,262.0	88.82	94.38	9,279.4	-255.2	2,278.1	96.39	2,292.4
11,357.0	87.82	95.21	9,282.2	-263.1	2,372.8	96.33	2,387.3
11,451.0	88.62	96.21	9,285.1	-272.5	2,466.3	96.30	2,481.3
11,546.0	88.93	95.72	9,287.2	-282.4	2,560.7	96.29	2,576.2
11,640.0	90.20	96.95	9,287.9	-292.7	2,654.1	96.29	2,670.2
11,735.0	89.46	98.80	9,288.2	-305.7	2,748.2	96.35	2,765.2

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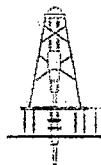
Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
11,829.0	89.23	98.27	9,289.2	-319.7	2,841.2	96.42	2,859.1	
11,924.0	89.40	97.95	9,290.4	-333.1	2,935.2	96.47	2,954.1	
12,018.0	89.60	98.04	9,291.2	-346.2	3,028.3	96.52	3,048.0	
12,113.0	89.60	98.05	9,291.9	-359.5	3,122.4	96.57	3,143.0	
12,207.0	89.43	97.78	9,292.7	-372.4	3,215.5	96.61	3,237.0	
12,302.0	89.43	97.60	9,293.6	-385.1	3,309.6	96.64	3,331.9	
12,396.0	89.50	97.50	9,294.5	-397.5	3,402.8	96.66	3,425.9	
12,490.0	89.56	97.06	9,295.2	-409.4	3,496.0	96.68	3,519.9	
12,584.0	89.46	96.69	9,296.1	-420.6	3,589.4	96.68	3,613.9	
12,678.0	89.43	96.50	9,297.0	-431.4	3,682.7	96.68	3,707.9	
12,772.0	89.46	96.02	9,297.9	-441.7	3,776.2	96.67	3,801.9	
12,866.0	89.46	95.50	9,298.8	-451.1	3,869.7	96.65	3,895.9	
12,960.0	89.66	95.35	9,299.5	-460.0	3,963.3	96.62	3,989.9	
13,054.0	90.00	95.20	9,299.8	-468.6	4,056.9	96.59	4,083.8	
13,149.0	90.57	96.91	9,299.3	-478.7	4,151.3	96.58	4,178.8	
13,243.0	91.07	96.73	9,297.9	-489.8	4,244.7	96.58	4,272.8	
13,338.0	91.21	96.52	9,296.1	-500.8	4,339.0	96.58	4,367.8	
13,432.0	91.34	96.08	9,294.0	-511.1	4,432.4	96.58	4,461.8	
13,527.0	91.68	95.71	9,291.5	-520.8	4,526.9	96.56	4,556.7	
13,621.0	89.97	95.94	9,290.1	-530.4	4,620.4	96.55	4,650.7	
13,687.1	89.90	95.93	9,290.2	-537.2	4,686.1	96.54	4,716.8	
13,716.0	89.87	95.93	9,290.2	-540.2	4,714.9	96.54	4,745.7	
13,752.0	89.97	95.82	9,290.3	-543.9	4,750.7	96.53	4,781.7	
Last MWD Survey								
13,820.0	89.97	95.82	9,290.3	-550.8	4,818.3	96.52	4,849.7	
Projection to Bit								

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,752.0	9,290.3	-543.9	4,750.7	Last MWD Survey
13,820.0	9,290.3	-550.8	4,818.3	Projection to Bit

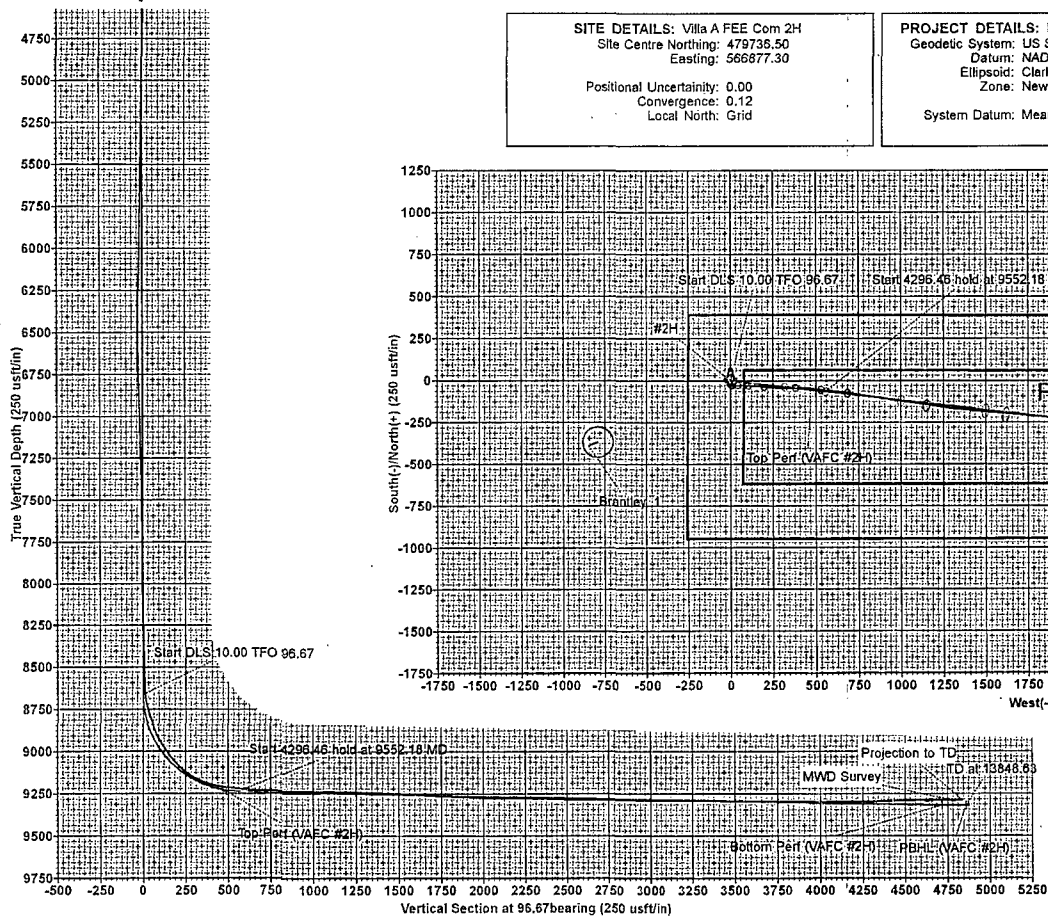
Checked By: _____ Approved By: _____ Date: _____



Villa A FEE Com 2H #2H
Eddy County, NM (NAD 27 NME)
Northing: (Y) 479736.50
Easting: (X) 566877.30
Plan #2



KB=25' @ 3057.40usft (TBD)
Ground Level: 3032.40



WELL DETAILS:					
Ground Level: 3032.40					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	479736.50	566877.30	32° 19' 7.414 N	104° 7' 0.640 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8663.40	0.00	0.00	8663.40	0.00	0.00	0.00	0.00	0.00	
9552.18	88.88	96.67	9236.25	-65.24	557.93	10.00	96.67	561.74	
13848.63	88.88	96.67	9320.40	-564.10	4824.50	0.00	0.00	4857.37	PBHL (VAFC #2H)

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
Top Perf (VAFC #2H)	9236.40	-248.40	463.70	479488.10	567341.00
Bottom Perf (VAFC #2H)	9317.56	-547.79	4685.00	479188.71	571562.30
PBHL (VAFC #2H)	9320.40	-564.10	4824.50	479172.40	571701.80

SITE DETAILS: Villa A FEE Com 2H
Site Centre Northing: 479736.50
Easting: 566877.30
Positional Uncertainty: 0.00
Convergence: 0.12
Local North: Grid

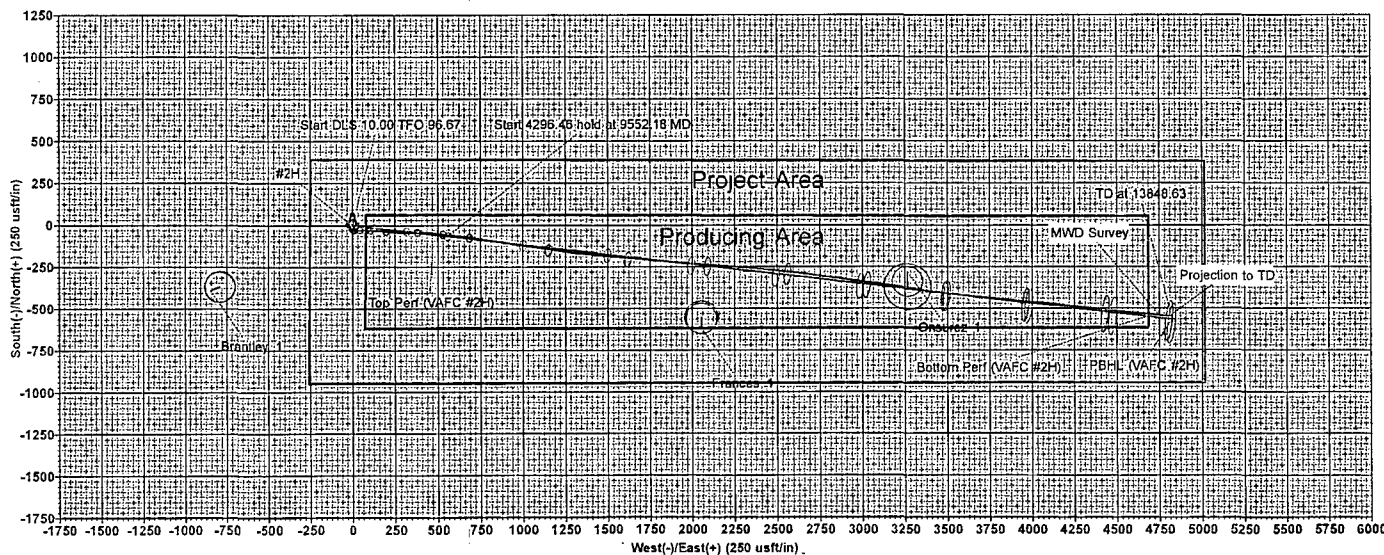
PROJECT DETAILS: Eddy County, NM (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



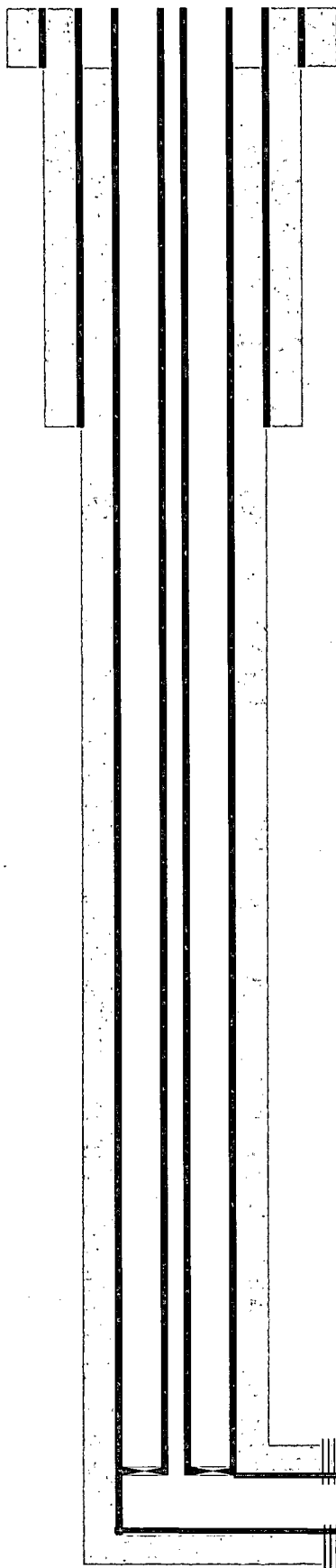
To convert Magnetic North to Grid, Add 7.50°
To convert True North to Grid, Subtract 0.12°

- LEGEND**
- Villa A Com #2, #2, OH V0
 - Onseure 1, O1, OH V0
 - Frances 1, F1, OH V0
 - Brantley 1, B1, OH V0
 - #2H, OH, OH V0
 - Plan #2

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #2H, Grid North
Latitude: 32° 19' 7.414 N
Longitude: 104° 7' 0.640 W
Grid East: 566877.30
Grid North: 479736.50
Scale Factor: 1.000
Geomagnetic Model: BGGM2014
Sample Date: 12-Sep-14
Magnetic Declination: 7.61°
Dip Angle from Horizontal: 60.09°
Magnetic Field Strength: 48246
To convert Magnetic North to Grid, Add 7.50°
To convert Magnetic North to True, Add 7.61° East
To convert True North to Grid, Subtract 0.12°



OXY USA WTP LP
Villa A Fee Com 2H
API No. 30-015-42284



14-3/4" hole @ 397'
11-3/4" csg @ 397'
w/ 400sx-TOC-Surf-Circ.

10-5/8" hole @ 2481'
8-5/8" csg @ 2439'
w/ 790sx-TOC-Surf-Circ.

7-7/8" hole @ 13820'
5-1/2" csg @ 13820'
w/ 1510sx-TOC-390'

2-7/8" tbg & pkr @ 8582'

Perfs @ 9456-13679'

TD- 13820'M 9290'V