

15-41557

OCCIDENTAL PERMIAN LTD.

Cedar Canyon

Eddy County, NM

Cypress 33 Federal Com #6H

DH - Job #321013-MPH-1025

Survey: MWD

SDI Survey Report

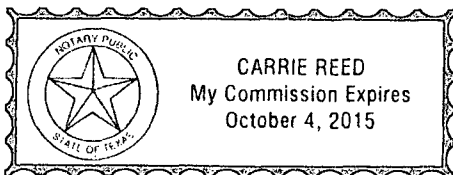
This survey is correct to the best of my knowledge and is supported by actual field data.

Richardson

Notarized this date 31st of October, 2013.

Carrie Reed

Notary Signature
County of Midland
State of Texas



SDI
SDI Survey Report

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Cypress 33 Federal Com #6H
Project:	Cedar Canyon	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cypress 33 Federal Com #6H	North Reference:	True
Wellbore:	DH - Job #321013-MPH-1025	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #321013-MPH-1025	Database:	EDM-Regulatory

Project	Cedar Canyon		
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		
Site Position:	Northing:	442,496.34 usft	Latitude: 32° 12' 57.600 N
From: Lat/Long	Easting:	614,222.51 usft	Longitude: 103° 57' 50.400 W
Position Uncertainty: 0.0 usft	Slot Radius: 0"	Grid Convergence:	0.20 °

Well:	Cypress 33 Federal Com #6H, Directional		
Well Position	+N/-S 0.0 usft	Northing: 461,097.09 usft	Latitude: 32° 16' 1.883 N
	+E/-W 0.0 usft	Easting: 607,961.58 usft	Longitude: 103° 59' 2.575 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 0.0 usft

Wellbore:	DH - Job #321013-MPH-1025		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	10/5/2013	7.50
			Dip Angle (°)
			60.10
			Field Strength (nT)
			48,392

Design	DH - Job #321013-MPH-1025		
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 (°)
			180.00

Survey Program	Date 11/7/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
403.0	13,152.0	MWD (DH - Job #321013-MPH-1025)	MWD	MWD

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	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		
403.0	0.18	223.60	403.0	-0.5	-0.4	223.60	0.6		
493.0	0.00	43.69	493.0	-0.6	-0.5	223.60	0.8		
584.0	0.20	193.53	584.0	-0.7	-0.6	218.61	0.9		
676.0	0.09	284.86	676.0	-0.9	-0.7	218.51	1.1		
767.0	0.09	219.56	767.0	-0.9	-0.8	221.72	1.2		
859.0	0.18	101.52	859.0	-1.0	-0.7	215.61	1.2		
952.0	0.18	218.95	952.0	-1.1	-0.6	210.06	1.3		
1,046.0	0.26	136.77	1,046.0	-1.4	-0.6	203.15	1.5		
1,140.0	0.18	72.61	1,140.0	-1.5	-0.3	191.54	1.5		
1,235.0	0.09	317.21	1,235.0	-1.4	-0.2	188.71	1.4		
1,329.0	0.26	174.12	1,329.0	-1.6	-0.2	188.86	1.6		

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Wellbore:	DH - Job #321013-MPH-1025	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #321013-MPH-1025	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,423.0	0.44	187.48	1,423.0	-2.1	-0.3	187.18	2.1	
1,517.0	0.44	146.44	1,517.0	-2.8	-0.1	182.37	2.8	
1,611.0	0.00	58.81	1,611.0	-3.1	0.1	178.44	3.1	
1,706.0	0.09	251.55	1,706.0	-3.1	0.0	179.75	3.1	
1,800.0	0.55	233.82	1,800.0	-3.4	-0.4	187.05	3.4	
1,895.0	0.93	264.98	1,895.0	-3.7	-1.6	202.62	4.0	
1,989.0	0.88	268.96	1,989.0	-3.8	-3.0	218.53	4.9	
2,083.0	1.29	262.33	2,083.0	-4.0	-4.8	230.45	6.2	
2,178.0	1.58	264.52	2,177.9	-4.2	-7.2	239.42	8.3	
2,272.0	1.49	262.98	2,271.9	-4.5	-9.7	245.00	10.7	
2,366.0	1.08	238.92	2,365.9	-5.1	-11.6	246.28	12.7	
2,461.0	1.33	230.24	2,460.8	-6.3	-13.3	244.64	14.7	
2,555.0	1.67	224.57	2,554.8	-8.0	-15.1	242.15	17.0	
2,650.0	1.67	207.87	2,649.8	-10.2	-16.7	238.63	19.5	
2,744.0	2.40	191.30	2,743.7	-13.3	-17.7	233.07	22.2	
2,839.0	0.85	171.02	2,838.7	-16.0	-18.0	228.42	24.0	
2,933.0	0.60	111.35	2,932.7	-16.8	-17.4	225.99	24.2	
2,996.0	0.66	151.56	2,995.7	-17.3	-16.9	224.45	24.2	
3,123.0	0.53	169.02	3,122.7	-18.5	-16.5	221.72	24.8	
3,217.0	2.64	300.77	3,216.6	-17.8	-18.3	225.72	25.5	
3,311.0	4.13	307.00	3,310.5	-14.7	-22.8	237.29	27.1	
3,406.0	4.04	307.01	3,405.2	-10.6	-28.2	249.44	30.1	
3,500.0	5.19	302.00	3,498.9	-6.3	-34.5	259.58	35.1	
3,595.0	7.12	294.27	3,593.4	-1.6	-43.5	267.84	43.5	
3,689.0	8.35	292.42	3,686.5	3.4	-55.1	273.49	55.2	
3,783.0	10.38	293.21	3,779.2	9.3	-69.2	277.65	69.8	
3,878.0	9.94	293.21	3,872.8	15.9	-84.6	280.65	86.1	
3,972.0	9.41	291.28	3,965.4	21.9	-99.2	282.44	101.6	
4,066.0	9.15	290.75	4,058.2	27.3	-113.4	283.55	116.6	
4,160.0	9.15	291.90	4,151.0	32.8	-127.3	284.43	131.4	
4,254.0	8.97	290.40	4,243.8	38.1	-141.1	285.11	146.1	
4,349.0	8.88	291.81	4,337.7	43.4	-154.8	285.66	160.8	
4,443.0	8.53	291.81	4,430.6	48.7	-168.1	286.16	175.0	
4,537.0	7.91	291.37	4,523.6	53.6	-180.5	286.55	188.3	
4,632.0	8.97	290.75	4,617.6	58.6	-193.6	286.86	202.3	
4,726.0	9.15	290.93	4,710.4	63.9	-207.4	287.13	217.0	
4,820.0	9.06	291.54	4,803.2	69.3	-221.3	287.39	231.9	
4,914.0	8.97	291.46	4,896.1	74.7	-235.0	287.64	246.6	
5,009.0	8.71	290.31	4,989.9	79.9	-248.6	287.82	261.1	
5,103.0	8.71	290.14	5,082.9	84.8	-262.0	287.94	275.4	
5,197.0	10.34	290.07	5,175.6	90.2	-276.6	288.06	290.9	
5,291.0	10.73	290.05	5,268.0	96.1	-292.7	288.17	308.1	
5,385.0	10.20	289.61	5,360.4	101.9	-308.8	288.26	325.1	
5,480.0	9.32	288.47	5,454.0	107.1	-324.0	288.30	341.2	

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Wellbore:	DH - Job #321013-MPH-1025	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #321013-MPH-1025	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
5,574.0	8.44	286.62	5,546.9	111.5	-337.8	288.27	355.7	
5,669.0	9.32	288.62	5,640.8	116.0	-351.8	288.24	370.4	
5,763.0	9.32	288.29	5,733.5	120.8	-366.2	288.25	385.6	
5,858.0	8.97	289.17	5,827.3	125.6	-380.5	288.27	400.7	
5,952.0	8.44	289.87	5,920.2	130.4	-393.9	288.31	415.0	
6,046.0	9.23	286.71	6,013.1	134.9	-407.6	288.31	429.4	
6,141.0	8.97	287.24	6,106.9	139.3	-422.0	288.26	444.4	
6,235.0	8.44	284.95	6,199.8	143.2	-435.7	288.20	458.6	
6,329.0	7.88	287.08	6,292.9	146.9	-448.5	288.13	472.0	
6,424.0	9.15	287.59	6,386.8	151.1	-461.9	288.11	486.0	
6,518.0	8.97	287.33	6,479.7	155.5	-476.1	288.09	500.8	
6,612.0	8.44	288.82	6,572.6	159.9	-489.6	288.09	515.0	
6,706.0	8.09	287.24	6,665.6	164.1	-502.4	288.09	528.6	
6,800.0	7.03	284.60	6,758.8	167.5	-514.3	288.04	540.9	
6,895.0	6.34	282.08	6,853.1	170.1	-525.1	287.95	551.9	
6,989.0	6.07	284.95	6,946.6	172.5	-534.9	287.87	562.1	
7,083.0	7.65	286.45	7,039.9	175.5	-545.7	287.83	573.3	
7,177.0	8.62	280.47	7,133.0	178.6	-558.7	287.73	586.5	
7,272.0	9.50	279.42	7,226.8	181.1	-573.4	287.53	601.3	
7,366.0	10.21	282.91	7,319.4	184.3	-589.2	287.37	617.3	
7,460.0	8.35	277.06	7,412.2	187.0	-604.1	287.20	632.4	
7,554.0	7.56	274.93	7,505.3	188.4	-617.0	286.98	645.1	
7,649.0	7.03	270.36	7,599.5	188.9	-629.1	286.72	656.8	
7,743.0	5.80	262.01	7,692.9	188.3	-639.5	286.41	666.7	
7,837.0	5.10	256.39	7,786.5	186.7	-648.3	286.06	674.6	
7,932.0	4.92	253.84	7,881.1	184.5	-656.3	285.70	681.7	
7,979.0	5.19	247.34	7,927.9	183.2	-660.2	285.51	685.1	
8,011.0	6.77	238.55	7,959.8	181.6	-663.1	285.32	687.6	
8,042.0	9.50	224.31	7,990.5	178.8	-666.5	285.02	690.1	
8,074.0	11.17	215.52	8,021.9	174.4	-670.1	284.59	692.4	
8,105.0	12.49	211.56	8,052.3	169.1	-673.6	284.09	694.5	
8,137.0	12.93	209.45	8,083.5	163.0	-677.2	283.54	696.5	
8,168.0	14.42	208.14	8,113.6	156.6	-680.7	282.96	698.5	
8,199.0	16.06	204.89	8,143.5	149.3	-684.3	282.31	700.4	
8,231.0	16.16	200.25	8,174.3	141.1	-687.8	281.60	702.1	
8,262.0	15.78	191.95	8,204.1	133.0	-690.1	280.91	702.8	
8,294.0	16.18	180.80	8,234.8	124.2	-691.1	280.19	702.2	
8,325.0	17.23	177.11	8,264.5	115.3	-690.9	279.48	700.5	
8,357.0	19.31	180.32	8,294.9	105.3	-690.7	278.67	698.7	
8,388.0	21.91	178.85	8,323.9	94.4	-690.6	277.78	697.0	
8,420.0	23.83	179.31	8,353.4	82.0	-690.4	276.77	695.3	
8,451.0	24.97	181.24	8,381.7	69.2	-690.5	275.72	693.9	
8,483.0	27.44	181.42	8,410.4	55.0	-690.8	274.56	693.0	
8,514.0	30.43	180.54	8,437.5	40.0	-691.1	273.32	692.2	

SDI

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Wellbore:	DH - Job #321013-MPH-1025	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #321013-MPH-1025	Database:	EDM-Regulatory

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
8,546.0	33.85	180.36	8,464.6	23.0	-691.2	271.91	691.6	
8,577.0	37.11	180.10	8,489.8	5.0	-691.3	270.42	691.3	
8,609.0	40.54	179.31	8,514.7	-15.0	-691.2	268.75	691.3	
8,640.0	44.49	180.54	8,537.6	-36.0	-691.1	267.02	692.1	
8,671.0	47.90	182.27	8,559.0	-58.3	-691.7	265.18	694.1	
8,703.0	50.39	183.88	8,580.0	-82.5	-693.0	263.21	697.9	
8,734.0	52.52	184.68	8,599.3	-106.7	-694.8	261.27	703.0	
8,765.0	54.96	184.76	8,617.6	-131.6	-696.9	259.31	709.2	
8,797.0	56.89	184.14	8,635.6	-158.0	-698.9	257.26	716.6	
8,828.0	59.97	183.53	8,651.8	-184.4	-700.7	255.26	724.5	
8,860.0	63.31	183.26	8,667.0	-212.5	-702.4	253.17	733.8	
8,891.0	66.95	182.21	8,680.3	-240.4	-703.7	251.14	743.6	
8,923.0	68.24	181.94	8,692.7	-269.9	-704.8	249.05	754.7	
8,954.0	70.17	181.15	8,703.7	-298.9	-705.5	247.04	766.2	
8,986.0	71.84	180.89	8,714.1	-329.1	-706.1	245.01	779.0	
9,017.0	74.84	180.64	8,723.0	-358.8	-706.5	243.07	792.4	
9,048.0	78.17	180.63	8,730.3	-388.9	-706.8	241.18	806.7	
9,080.0	80.64	180.80	8,736.1	-420.4	-707.2	239.27	822.7	
9,097.0	81.78	181.68	8,738.7	-437.2	-707.6	238.29	831.7	
9,128.0	84.01	182.07	8,742.6	-467.9	-708.6	236.56	849.1	
9,160.0	86.35	182.30	8,745.3	-499.8	-709.8	234.85	868.1	
9,191.0	87.23	182.03	8,747.0	-530.7	-710.9	233.26	887.2	
9,254.0	88.99	182.82	8,749.1	-593.6	-713.6	230.24	928.2	
9,348.0	89.87	182.65	8,750.0	-687.5	-718.1	226.25	994.2	
9,443.0	89.96	182.38	8,750.2	-782.4	-722.3	222.71	1,064.8	
9,537.0	88.11	180.36	8,751.7	-876.4	-724.5	219.58	1,137.1	
9,631.0	87.23	180.45	8,755.6	-970.3	-725.2	216.77	1,211.3	
9,726.0	87.23	177.46	8,760.1	-1,065.2	-723.4	214.18	1,287.6	
9,820.0	89.08	174.56	8,763.2	-1,158.9	-716.9	211.74	1,362.7	
9,914.0	89.96	174.83	8,764.0	-1,252.5	-708.2	209.49	1,438.8	
10,008.0	90.40	175.18	8,763.7	-1,346.1	-700.0	207.48	1,517.2	
10,103.0	90.75	176.06	8,762.7	-1,440.8	-692.8	205.68	1,598.7	
10,197.0	90.48	176.14	8,761.7	-1,534.6	-686.4	204.10	1,681.1	
10,291.0	89.96	175.26	8,761.3	-1,628.3	-679.3	202.65	1,764.4	
10,386.0	90.75	176.14	8,760.8	-1,723.1	-672.2	201.31	1,849.5	
10,480.0	91.19	176.14	8,759.2	-1,816.8	-665.9	200.13	1,935.0	
10,574.0	90.84	175.44	8,757.5	-1,910.6	-659.0	199.03	2,021.0	
10,669.0	90.57	175.26	8,756.3	-2,005.2	-651.3	197.99	2,108.4	
10,763.0	89.08	172.98	8,756.6	-2,098.7	-641.7	197.00	2,194.6	
10,857.0	88.64	172.19	8,758.5	-2,191.9	-629.5	196.02	2,280.5	
10,951.0	90.31	173.33	8,759.4	-2,285.2	-617.7	195.13	2,367.2	
11,046.0	90.66	173.68	8,758.5	-2,379.6	-606.9	194.31	2,455.7	
11,140.0	91.36	176.14	8,756.9	-2,473.2	-598.6	193.61	2,544.6	
11,234.0	90.66	175.70	8,755.2	-2,566.9	-591.9	192.99	2,634.3	
11,327.0	90.22	177.99	8,754.5	-2,659.8	-586.8	192.44	2,723.7	

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Survey								
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11,422.0	91.19	179.04	8,753.3	-2,754.7	-584.3	191.98	2,816.0	
11,516.0	92.33	181.86	8,750.5	-2,848.7	-585.1	191.61	2,908.1	
11,610.0	92.33	180.98	8,746.6	-2,942.6	-587.4	191.29	3,000.6	
11,705.0	92.59	181.77	8,742.6	-3,037.4	-589.7	190.99	3,094.2	
11,799.0	91.28	182.38	8,739.4	-3,131.3	-593.1	190.72	3,187.0	
11,893.0	91.71	182.56	8,736.9	-3,225.2	-597.1	190.49	3,280.0	
11,988.0	89.25	182.47	8,736.1	-3,320.1	-601.3	190.27	3,374.1	
12,082.0	88.90	181.86	8,737.7	-3,414.0	-604.8	190.05	3,467.2	
12,177.0	87.14	181.68	8,740.9	-3,508.9	-607.8	189.83	3,561.2	
12,271.0	86.35	180.36	8,746.3	-3,602.7	-609.5	189.60	3,653.9	
12,365.0	84.59	178.34	8,753.7	-3,696.4	-608.4	189.35	3,746.2	
12,460.0	87.23	175.97	8,760.5	-3,791.1	-603.7	189.05	3,838.8	
12,554.0	90.66	176.76	8,762.2	-3,884.8	-597.7	188.75	3,930.6	
12,648.0	90.13	175.88	8,761.6	-3,978.6	-591.7	188.46	4,022.4	
12,742.0	91.10	175.62	8,760.6	-4,072.4	-584.7	188.17	4,114.1	
12,836.0	91.89	176.50	8,758.1	-4,166.1	-578.3	187.90	4,206.1	
12,930.0	92.48	176.12	8,754.5	-4,259.9	-572.2	187.65	4,298.1	
13,025.0	92.68	176.14	8,750.2	-4,354.5	-565.8	187.40	4,391.2	
13,102.0	93.12	175.53	8,746.3	-4,431.2	-560.2	187.21	4,466.5	
Last MWD Survey								
13,152.0	93.12	175.53	8,743.6	-4,481.0	-556.3	187.08	4,515.4	
Projection to Bit								

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		*N/S (usft)	*E/W (usft)	Comment	
13,102.0	8,746.3	-4,431.2	-560.2	Last MWD Survey	
13,152.0	8,743.6	-4,481.0	-556.3	Projection to Bit	

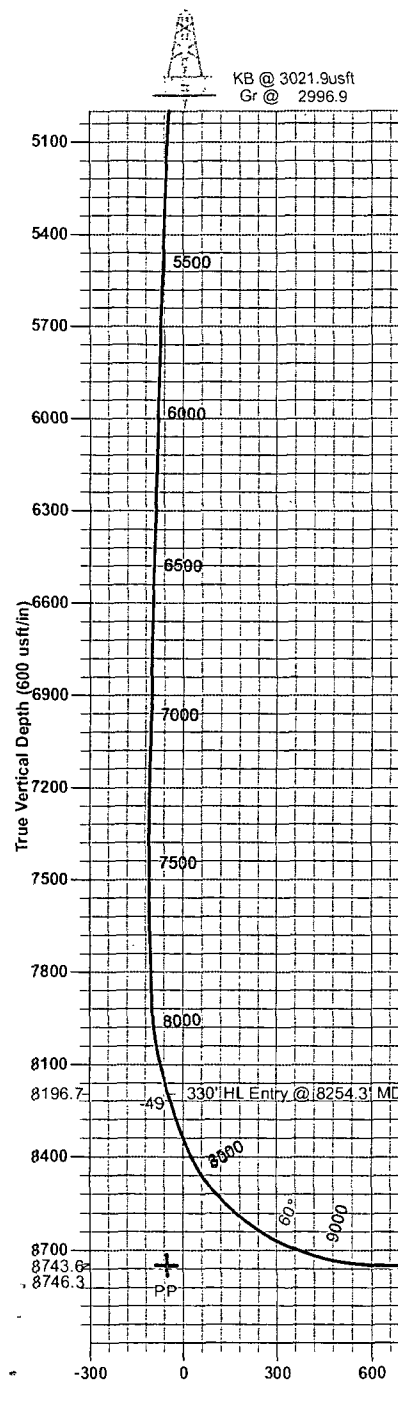


Cypress 33 Federal 6H
Eddy County, New Mexico
Northing: 461097.10
Easting: 607961.60
Design #2



To convert a Magnetic Direction to a Grid Direction, Add 7.32°
To convert a True Direction to a Grid Direction, Subtract 0.19°

Azimuths to Grid North
True North: -0.19°
Magnetic North: 7.32°
Magnetic Field
Strength: 48378.1gnT
Dip Angle: 60.10°
Date: 9/4/2013
Model: IGRF2010



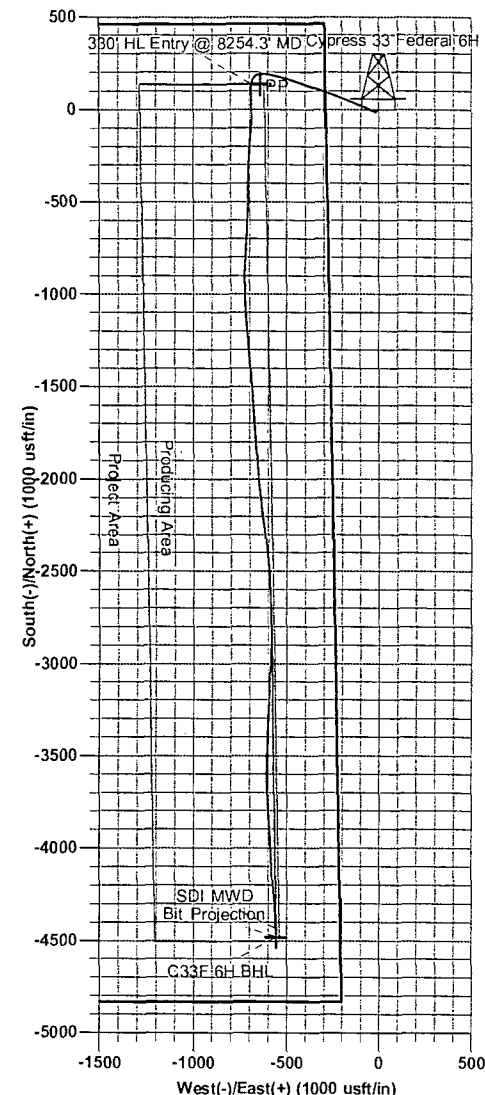
WELL DETAILS Cypress 33 Federal 6H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	461097.10	607961.60	32° 16' 1.883 N	103° 59' 2.574 W

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
11234.0	90.66	175.70	8755.2	-2566.9	-591.9	0.00	0.00	2620.5
11330.0	90.66	177.00	8754.1	-2662.7	-585.8	1.35	89.99	2714.8
11443.9	90.21	179.23	8753.3	-2776.6	-582.1	2.00	101.37	2827.3
13149.5	90.21	179.23	8747.0	-4481.9	-559.3	0.00	0.00	4516.7
								C33F 6H BHL

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
C33F 6H BHL	8747.0	-4481.9	-559.3	456615.15	607402.34

SITE DETAILS:
Cypress 33 Federal 6H
Site Centre Northing: 461097.10
Easting: 607961.60
Positional Uncertainty: 0.0
Convergence: 0.19
Local North: Grid

PROJECT DETAILS:
Eddy County, New Mexico
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



Jody Barclay
8:11, October 24 2013
Scientific Drilling
2740 N. Highway 287
Decatur, TX 76234

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41557	Pool Code 11520	Pool Name CEDAR CANYON BONE SPRING
Property Code 39492	Property Name CYPRESS "33" FEDERAL COM	Well Number 6H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2996.9'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	23 SOUTH	29 EAST, N.M.P.M.		466'	NORTH	1040'	EAST	EDDY

Bottom Hole Location If Different From Surface

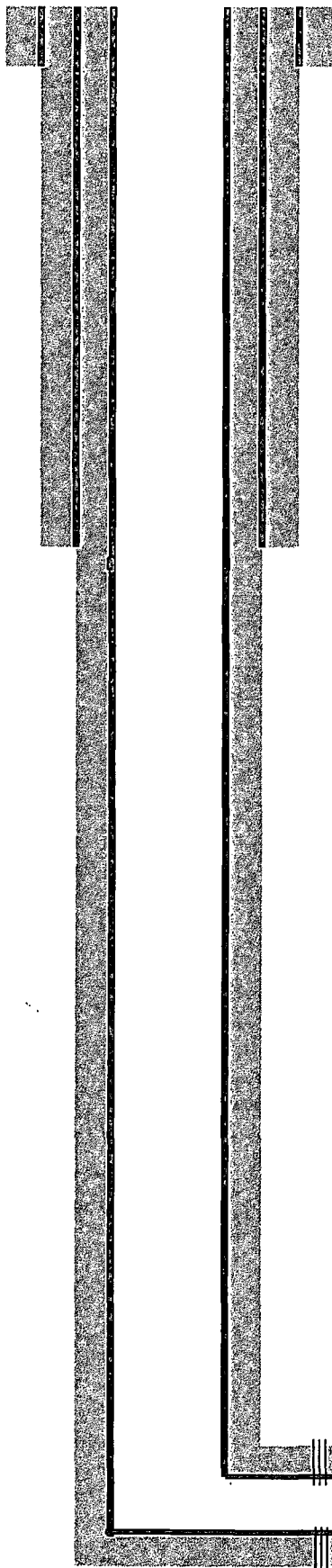
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	33	23 SOUTH	29 EAST, N.M.P.M.		351'	SOUTH	1668'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160	N		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ David Stewart SR. Res. Adv. Printed Name david_stewart@oxy.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. _____ Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number 15079 12/9/2013 WO# 130110WL-b (Rev. B) (KA)
--	---

OXY USA Inc.
Cypress 33 Federal #6H
API No. 30-015-41557



14-3/4" hole @ 300'
11-3/4" csg @ 300'
w/ 270sx-TOC-Surf-Circ

10-5/8" hole @ 3050'
8-5/8" csg @ 3050'
w/ 990sx-TOC-Surf-Circ

7-7/8" hole @ 13152'
5-1/2" csg @ 13152'
w/ 1640sx-TOC-Surf-Circ
DVT @ 3132'

Perfs @ 8651-12890'

TD - 13152'M 8744'V
PBTD-12991'M 8752'V