



Weatherford[®]

Evaluation, Drilling & Intervention

10000 West County Rd. 116

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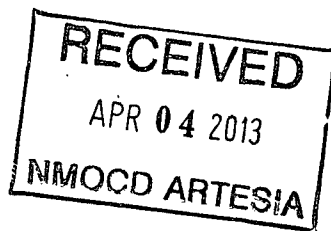
30-015-40768

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: January 2, 2013

Attention: Anar Khalilov

Re: Occidental Permian Ltd
Well: Cypress 33 Fed #5H
Eddy County, New Mexico



Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

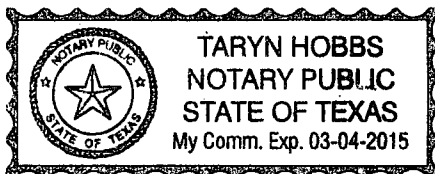
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Seth Cash MWD Supervisor	5H	3148' MD 12869' MD	12/08/2012 1/01/2013	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 10 day of January, 2013, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness-whereof, I hereunto set my hand and official seal.

Notary Public



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.		Date: 1/2/2013		Time: 07:15:42		Page: 1	
Field: Eddy Co. NM (Nad 27)		Co-ordinate(NE) Reference:		Well: Cypress 33 Fed #5H		Grid: North	
Site: Cypress 33 Fed #5H		Vertical (TVD) Reference:		SITE: 3027.8			
Well: Cypress 33 Fed #5H		Section (VS) Reference:		Well: (0.00N 0.00E 176.51Azi)			
Wellpath: Lateral		Survey Calculation Method:		Minimum Curvature		Db: Sybase	

Survey:		Start Date:	
Company:		Engineer:	
Tool:		Tied-to:	

Site: Cypress 33 Fed #5H

Site Position:	From: Map	Northing: 461110.90 ft	Latitude: 32 16 2.012 N
Position Uncertainty: 0.00 ft		Easting: 608199.00 ft	Longitude: 103 58 59.809 W
Ground Level: 3002.80 ft		North Reference: Grid	Grid Convergence: 0.19 deg

Well: Cypress 33 Fed #5H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 16 2.012 N
+E/-W 0.00 ft	Longitude: 103 58 59.809 W
Position Uncertainty: 0.00 ft	

Wellpath: Lateral	Drilled From: Pilot
Current Datum: SITE	Tie-on Depth: 7976.00 ft
Magnetic Data: 12/7/2012	Above System Datum: Mean Sea Level
Field Strength: 48474 nT	Declination: 7.60 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.12 deg
ft	+N/-S ft
0.00	0.00
	0.00
	176.51

Survey											
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	461110.90	608199.00		
141.46	1.32	8.21	141.45	1.61	0.23	0.93	-1.60	461112.51	608199.23		
201.20	1.12	4.28	201.17	2.88	0.37	0.36	-2.85	461113.78	608199.37		
292.30	0.77	359.92	292.26	4.38	0.44	0.39	-4.34	461115.28	608199.44		
385.13	0.51	18.12	385.09	5.39	0.57	0.35	-5.35	461116.29	608199.57		
477.12	0.53	55.58	477.07	6.02	1.05	0.36	-5.95	461116.92	608200.05		
571.75	0.64	79.16	571.70	6.37	1.93	0.28	-6.24	461117.27	608200.93		
666.49	0.72	89.76	666.43	6.47	3.04	0.16	-6.27	461117.37	608202.04		
761.10	0.73	112.81	761.03	6.24	4.19	0.31	-5.97	461117.14	608203.19		
855.64	0.87	112.39	855.56	5.73	5.41	0.15	-5.39	461116.63	608204.41		
950.77	0.85	108.34	950.68	5.24	6.75	0.07	-4.82	461116.14	608205.75		
1044.80	0.65	113.96	1044.71	4.80	7.90	0.23	-4.31	461115.70	608206.90		
1139.40	0.49	207.34	1139.30	4.22	8.20	0.88	-3.72	461115.12	608207.20		
1234.00	1.12	235.56	1233.89	3.34	7.25	0.77	-2.89	461114.24	608206.25		
1328.50	1.64	241.27	1328.36	2.17	5.31	0.57	-1.84	461113.07	608204.31		
1423.07	1.65	245.19	1422.90	0.95	2.88	0.12	-0.77	461111.85	608201.88		
1576.76	1.32	254.37	1576.53	-0.46	-0.83	0.26	0.41	461110.44	608198.17		
1612.40	1.32	254.61	1612.16	-0.68	-1.62	0.02	0.58	461110.22	608197.38		
1706.93	0.56	246.03	1706.68	-1.16	-3.09	0.82	0.97	461109.74	608195.91		
1801.46	0.28	248.88	1801.21	-1.43	-3.73	0.30	1.20	461109.47	608195.27		
1990.64	0.33	242.41	1990.39	-1.85	-4.64	0.03	1.56	461109.05	608194.36		
2085.23	0.45	244.86	2084.97	-2.13	-5.22	0.13	1.81	461108.77	608193.78		
2179.82	0.40	244.49	2179.56	-2.43	-5.86	0.05	2.07	461108.47	608193.14		
2274.28	0.32	216.50	2274.02	-2.78	-6.31	0.20	2.39	461108.12	608192.69		
2368.95	1.68	138.46	2368.68	-4.03	-5.55	1.74	3.69	461106.87	608193.45		
2463.62	2.51	141.45	2463.28	-6.69	-3.34	0.88	6.48	461104.21	608195.66		
2558.29	2.47	154.76	2557.86	-10.16	-1.17	0.61	10.07	461100.74	608197.83		
2652.96	2.92	152.50	2652.43	-14.15	0.81	0.49	14.17	461096.75	608199.81		
2747.53	3.01	151.26	2746.87	-18.46	3.12	0.12	18.61	461092.44	608202.12		
2842.07	2.06	146.59	2841.32	-22.05	5.24	1.03	22.33	461088.85	608204.24		



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	1/2/2013	Time:	07:15:42	Page:	2
Field:	Eddy Co. NM (Nad 27)	Co-ordinate (NE) Reference:	Well: Cypress 33 Fed #5H, Grid North				
Site:	Cypress 33 Fed #5H	Vertical (TVD) Reference:	SITE 3027.8				
Well:	Cypress 33 Fed #5H	Section (VS) Reference:	Well (0.00N, 0.00E, 176.51Azi)				
Wellpath:	Lateral	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2936.00	1.69	147.49	2935.20	-24.63	6.92	0.40	25.01	461086.27	608205.92	
3148.00	1.46	114.47	3147.12	-28.39	11.06	0.43	29.01	461082.51	608210.06	
3243.00	0.77	168.80	3242.10	-29.51	12.28	1.25	30.21	461081.39	608211.28	
3337.00	0.94	313.58	3336.10	-29.60	11.85	1.73	30.27	461081.30	608210.85	
3432.00	0.60	330.70	3431.09	-28.63	11.04	0.43	29.25	461082.27	608210.04	
3527.00	0.60	303.73	3526.09	-27.92	10.38	0.29	28.50	461082.98	608209.38	
3621.00	0.82	328.75	3620.08	-27.07	9.62	0.40	27.61	461083.83	608208.62	
3716.00	1.07	312.49	3715.07	-25.89	8.62	0.38	26.37	461085.01	608207.62	
3810.00	1.03	301.84	3809.05	-24.85	7.25	0.21	25.25	461086.05	608206.25	
3905.00	0.92	298.92	3904.04	-24.03	5.86	0.13	24.35	461086.87	608204.86	
4094.00	0.79	299.90	4093.02	-22.65	3.40	0.07	22.82	461088.25	608202.40	
4189.00	0.85	302.25	4188.01	-21.95	2.24	0.07	22.04	461088.95	608201.24	
4283.00	1.07	309.40	4281.99	-21.02	0.97	0.27	21.04	461089.88	608199.97	
4378.00	1.13	318.03	4376.98	-19.76	-0.34	0.19	19.70	461091.14	608198.66	
4473.00	0.69	309.29	4471.96	-18.70	-1.41	0.48	18.58	461092.20	608197.59	
4567.00	1.13	314.46	4565.95	-17.69	-2.51	0.48	17.51	461093.21	608196.49	
4662.00	1.06	309.15	4660.93	-16.48	-3.86	0.13	16.22	461094.42	608195.14	
4756.00	1.00	315.38	4754.92	-15.35	-5.11	0.14	15.01	461095.55	608193.89	
4851.00	0.85	293.96	4849.91	-14.47	-6.34	0.39	14.06	461096.43	608192.66	
4945.00	0.95	301.53	4943.90	-13.78	-7.64	0.17	13.29	461097.12	608191.36	
5040.00	0.77	286.81	5038.88	-13.19	-8.92	0.30	12.62	461097.71	608190.08	
5135.00	1.19	343.78	5133.87	-12.05	-9.81	1.06	11.44	461098.85	608189.19	
5229.00	0.91	351.37	5227.86	-10.38	-10.19	0.33	9.74	461100.52	608188.81	
5324.00	1.02	356.53	5322.84	-8.79	-10.36	0.15	8.14	461102.11	608188.64	
5419.00	0.88	355.11	5417.83	-7.22	-10.47	0.15	6.57	461103.68	608188.53	
5513.00	0.90	346.47	5511.82	-5.78	-10.70	0.14	5.12	461105.12	608188.30	
5608.00	0.84	344.09	5606.81	-4.39	-11.07	0.07	3.70	461106.51	608187.93	
5702.00	0.77	343.91	5700.80	-3.12	-11.43	0.07	2.42	461107.78	608187.57	
5797.00	0.82	343.17	5795.79	-1.85	-11.81	0.05	1.13	461109.05	608187.19	
5891.00	0.80	343.78	5889.78	-0.58	-12.19	0.02	-0.16	461110.32	608186.81	
5985.00	0.78	345.24	5983.77	0.67	-12.53	0.03	-1.43	461111.57	608186.47	
6080.00	0.66	346.10	6078.76	1.83	-12.83	0.13	-2.60	461112.73	608186.17	
6174.00	0.53	351.73	6172.76	2.78	-13.02	0.15	-3.57	461113.68	608185.98	
6269.00	0.43	353.11	6267.76	3.57	-13.13	0.11	-4.36	461114.47	608185.87	
6364.00	0.38	1.51	6362.75	4.24	-13.16	0.08	-5.03	461115.14	608185.84	
6459.00	0.31	347.50	6457.75	4.81	-13.21	0.11	-5.60	461115.71	608185.79	
6553.00	0.29	352.69	6551.75	5.29	-13.29	0.04	-6.09	461116.19	608185.71	
6648.00	0.29	345.72	6646.75	5.76	-13.38	0.04	-6.56	461116.66	608185.62	
6742.00	0.25	261.38	6740.75	5.96	-13.65	0.39	-6.78	461116.86	608185.35	
6837.00	0.44	247.67	6835.75	5.79	-14.19	0.22	-6.64	461116.69	608184.81	
6932.00	0.71	238.90	6930.74	5.35	-15.03	0.30	-6.25	461116.25	608183.97	
7026.00	1.19	243.23	7024.73	4.61	-16.40	0.52	-5.60	461115.51	608182.60	
7121.00	1.36	231.61	7119.70	3.46	-18.16	0.32	-4.56	461114.36	608180.84	
7216.00	1.70	218.90	7214.67	1.67	-19.93	0.50	-2.88	461112.57	608179.07	
7310.00	1.65	216.08	7308.63	-0.51	-21.60	0.10	-0.80	461110.39	608177.40	
7408.00	2.08	215.08	7406.58	-3.11	-23.46	0.44	1.67	461107.79	608175.54	
7503.00	1.63	245.02	7501.53	-5.09	-25.67	1.11	3.52	461105.81	608173.33	
7598.00	1.63	248.10	7596.49	-6.16	-28.15	0.09	4.44	461104.74	608170.85	
7692.00	1.48	244.64	7690.46	-7.18	-30.49	0.19	5.31	461103.72	608168.51	
7787.00	1.54	219.05	7785.43	-8.70	-32.40	0.71	6.71	461102.20	608166.60	
7881.00	1.33	209.24	7879.40	-10.63	-33.73	0.34	8.56	461100.27	608165.27	
7976.00	1.36	208.94	7974.37	-12.58	-34.81	0.03	10.44	461098.32	608164.19	Tie on Wft Svy



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	1/2/2013	Time:	07:15:42	Page:	3
Field:	Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Cypress 33 Fed #5H- Grid North				
Site:	Cypress 33 Fed #5H	Vertical (TVD) Reference:	SITE 3027.8				
Well:	Cypress 33 Fed #5H	Section (VS) Reference:	Well (0.00N 0.00E 176.51Azi)				
Wellpath:	Lateral	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8042.00	1.84	200.95	8040.34	-14.26	-35.57	0.80	12.06	461096.64	608163.43	First Lat Svy
8073.00	3.63	185.97	8071.31	-15.70	-35.85	6.17	13.49	461095.20	608163.15	
8105.00	6.36	190.41	8103.18	-18.45	-36.28	8.61	16.21	461092.45	608162.72	
8136.00	9.05	189.76	8133.90	-22.54	-37.00	8.68	20.25	461088.36	608162.00	
8168.00	12.17	187.93	8165.35	-28.36	-37.89	9.81	26.00	461082.54	608161.11	
8199.00	14.94	181.37	8195.49	-35.60	-38.44	10.21	33.19	461075.30	608160.56	
8231.00	17.70	176.91	8226.19	-44.58	-38.28	9.47	42.17	461066.32	608160.72	
8263.00	19.94	175.81	8256.48	-54.88	-37.62	7.09	52.49	461056.02	608161.38	
8294.00	22.10	176.80	8285.42	-65.98	-36.90	7.06	63.61	461044.92	608162.10	
8326.00	24.74	177.00	8314.78	-78.67	-36.22	8.25	76.32	461032.23	608162.78	
8357.00	26.97	178.10	8342.67	-92.18	-35.65	7.36	89.84	461018.72	608163.35	
8389.00	30.42	178.31	8370.74	-107.54	-35.17	10.79	105.20	461003.36	608163.83	
8420.00	33.50	178.54	8397.04	-123.94	-34.72	9.94	121.59	460986.96	608164.28	
8452.00	36.40	178.91	8423.26	-142.26	-34.31	9.09	139.91	460968.64	608164.69	
8483.00	38.54	178.01	8447.87	-161.11	-33.80	7.13	158.76	460949.79	608165.20	
8515.00	40.21	175.99	8472.60	-181.38	-32.73	6.58	179.05	460929.52	608166.27	
8546.00	43.17	174.03	8495.75	-201.92	-30.93	10.43	199.66	460908.98	608168.07	
8578.00	46.28	173.79	8518.48	-224.30	-28.54	9.73	222.15	460886.60	608170.46	
8609.00	48.55	174.35	8539.46	-247.01	-26.18	7.44	244.95	460863.89	608172.82	
8641.00	51.65	175.78	8559.98	-271.46	-24.08	10.28	269.49	460839.44	608174.92	
8672.00	55.16	176.50	8578.46	-296.29	-22.41	11.47	294.37	460814.61	608176.59	
8704.00	58.51	177.10	8595.97	-323.03	-20.91	10.59	321.16	460787.87	608178.09	
8735.00	60.85	177.47	8611.61	-349.76	-19.65	7.62	347.91	460761.14	608179.35	
8767.00	62.83	177.25	8626.72	-377.94	-18.35	6.22	376.12	460732.96	608180.65	
8798.00	65.08	176.98	8640.33	-405.75	-16.94	7.30	403.97	460705.15	608182.06	
8830.00	67.60	176.97	8653.17	-435.02	-15.40	7.88	433.28	460675.88	608183.60	
8861.00	69.41	176.33	8664.53	-463.81	-13.71	6.15	462.12	460647.09	608185.29	
8893.00	71.11	176.43	8675.33	-493.87	-11.81	5.32	492.24	460617.03	608187.19	
8924.00	72.96	176.83	8684.89	-523.31	-10.08	6.09	521.72	460587.59	608188.92	
8956.00	74.78	176.35	8693.78	-553.99	-8.25	5.87	552.46	460556.91	608190.75	
8987.00	76.80	175.80	8701.39	-583.97	-6.19	6.74	582.51	460526.93	608192.81	
9019.00	78.45	175.99	8708.25	-615.15	-3.95	5.19	613.77	460495.75	608195.05	
9051.00	79.87	175.49	8714.27	-646.49	-1.62	4.70	645.19	460464.41	608197.38	
9082.00	80.66	175.48	8719.51	-676.95	0.79	2.55	675.74	460433.95	608199.79	
9114.00	81.99	175.59	8724.34	-708.48	3.25	4.17	707.37	460402.42	608202.25	
9145.00	83.69	175.81	8728.20	-739.15	5.55	5.53	738.12	460371.75	608204.55	
9177.00	84.82	175.96	8731.40	-770.91	7.84	3.56	769.96	460339.99	608206.84	
9208.00	85.24	176.23	8734.09	-801.72	9.94	1.61	800.84	460309.18	608208.94	
9240.00	85.66	175.67	8736.63	-833.54	12.20	2.18	832.74	460277.36	608211.20	
9303.00	86.99	175.51	8740.67	-896.23	17.03	2.13	895.60	460214.67	608216.03	Landing Point
9397.00	88.88	175.99	8744.05	-989.90	23.99	2.07	989.53	460121.00	608222.99	
9492.00	88.81	175.42	8745.97	-1084.61	31.10	0.60	1084.50	460026.29	608230.10	
9586.00	90.84	175.17	8746.26	-1178.29	38.81	2.18	1178.47	459932.61	608237.81	
9681.00	90.07	174.93	8745.50	-1272.93	47.01	0.85	1273.44	459837.97	608246.01	
9775.00	89.86	175.63	8745.56	-1366.62	54.75	0.78	1367.41	459744.28	608253.75	
9870.00	89.44	175.72	8746.14	-1461.34	61.91	0.45	1462.40	459649.56	608260.91	
9965.00	90.28	175.03	8746.37	-1556.03	69.57	1.14	1557.38	459554.87	608268.57	
10059.00	89.37	174.96	8746.66	-1649.67	77.77	0.97	1651.35	459461.23	608276.77	
10154.00	88.60	174.61	8748.34	-1744.26	86.40	0.89	1746.29	459366.64	608285.40	
10248.00	90.77	174.20	8748.86	-1837.81	95.57	2.35	1840.22	459273.09	608294.57	
10343.00	90.28	174.88	8747.99	-1932.37	104.61	0.88	1935.16	459178.53	608303.61	
10437.00	90.84	175.94	8747.07	-2026.06	112.13	1.28	2029.13	459084.84	608311.13	
10532.00	90.84	176.34	8745.68	-2120.84	118.52	0.42	2124.12	458990.06	608317.52	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Occidental Permian Ltd	Date:	1/2/2013	Time:	07:15:42	Page:	4
Field:	Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Cypress 33 Fed #5H	Grid North:			
Site:	Cypress 33 Fed #5H	Vertical (TVD) Reference:	SITE 3027.8				
Well:	Cypress 33 Fed #5H	Section (VS) Reference:	Well (0.00N 0.00E 176.51Azi)				
Wellpath:	Lateral	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD ft	Incl. deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
10626.00	90.77	175.88	8744.35	-2214.61	124.90	0.49	2218.11	458896.29	608323.90	
10721.00	90.28	176.28	8743.48	-2309.39	131.39	0.67	2313.10	458801.51	608330.39	
10816.00	89.30	176.41	8743.83	-2404.19	137.45	1.04	2408.10	458706.71	608336.45	
10910.00	89.51	175.91	8744.81	-2497.97	143.75	0.58	2502.09	458612.93	608342.75	
11005.00	90.28	176.16	8744.98	-2592.75	150.31	0.85	2597.09	458518.15	608349.31	
11099.00	91.61	176.18	8743.43	-2686.52	156.59	1.42	2691.07	458424.38	608355.59	
11194.00	90.56	176.67	8741.63	-2781.32	162.51	1.22	2786.05	458329.58	608361.51	
11288.00	89.72	177.63	8741.40	-2875.20	167.19	1.36	2880.04	458235.70	608366.19	
11383.00	88.46	177.56	8742.91	-2970.10	171.17	1.33	2975.01	458140.80	608370.17	
11478.00	88.39	177.30	8745.52	-3064.97	175.43	0.28	3069.97	458045.93	608374.43	
11572.00	89.16	178.34	8747.53	-3158.88	179.01	1.38	3163.92	457952.02	608378.01	
11667.00	89.02	177.51	8749.04	-3253.80	182.45	0.89	3258.88	457857.10	608381.45	
11762.00	89.93	178.78	8749.91	-3348.75	185.52	1.64	3353.83	457762.15	608384.52	
11856.00	90.42	178.85	8749.63	-3442.73	187.47	0.53	3447.75	457668.17	608386.47	
11951.00	91.12	178.13	8748.35	-3537.68	189.97	1.06	3542.69	457573.22	608388.97	
12045.00	90.91	177.41	8746.68	-3631.60	193.63	0.80	3636.65	457479.30	608392.63	
12140.00	90.70	177.70	8745.35	-3726.50	197.68	0.38	3731.62	457384.40	608396.68	
12234.00	90.56	176.55	8744.32	-3820.37	202.39	1.23	3825.61	457290.53	608401.39	
12329.00	90.63	174.82	8743.33	-3915.10	209.54	1.82	3920.59	457195.80	608408.54	
12424.00	89.51	175.09	8743.21	-4009.73	217.89	1.21	4015.56	457101.17	608416.89	
12518.00	90.00	175.55	8743.61	-4103.41	225.56	0.71	4109.53	457007.49	608424.56	
12613.00	90.42	175.13	8743.27	-4198.10	233.28	0.63	4204.51	456912.80	608432.28	
12707.00	91.33	175.35	8741.83	-4291.76	241.08	1.00	4298.48	456819.14	608440.08	
12802.00	90.98	174.79	8739.92	-4386.39	249.24	0.70	4393.43	456724.51	608448.24	
12869.00	91.40	174.58	8738.52	-4453.09	255.45	0.70	4460.38	456657.81	608454.45	Last Lat Svy
12929.00	91.40	174.58	8737.06	-4512.80	261.11	0.00	4520.33	456598.10	608460.11	Proj. to Bit

Annotation

MD ft	TVD ft	
7976.00	7974.37	Tie on Wft Svy
8042.00	8040.34	First Lat Svy
9303.00	8740.67	Landing Point
12869.00	8738.52	Last Lat Svy
12929.00	8737.06	Proj. to Bit



Occidental Permian Ltd.
Cypress 33 Fed #5H
Eddy Co, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7976.00	1.36	208.94	7974.37	-12.58	-34.81	0.00	0.00	10.44	
2	8078.00	1.85	209.28	8076.33	-15.08	-36.21	0.48	1.28	12.84	
3	9147.01	90.00	175.89	8750.00	-706.34	1.48	8.27	-33.41	705.12	
4	12962.44	90.00	175.89	8750.00	-4511.95	275.02	0.00	0.00	4520.32	PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cypress 33 Fed #5H	0.00	0.00	461110.90	608199.00	32°16'02.012N	103°58'59.809W

Slot
N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8750.00	-4511.95	275.02	456598.95	608474.02	Rectangle (3792x0)

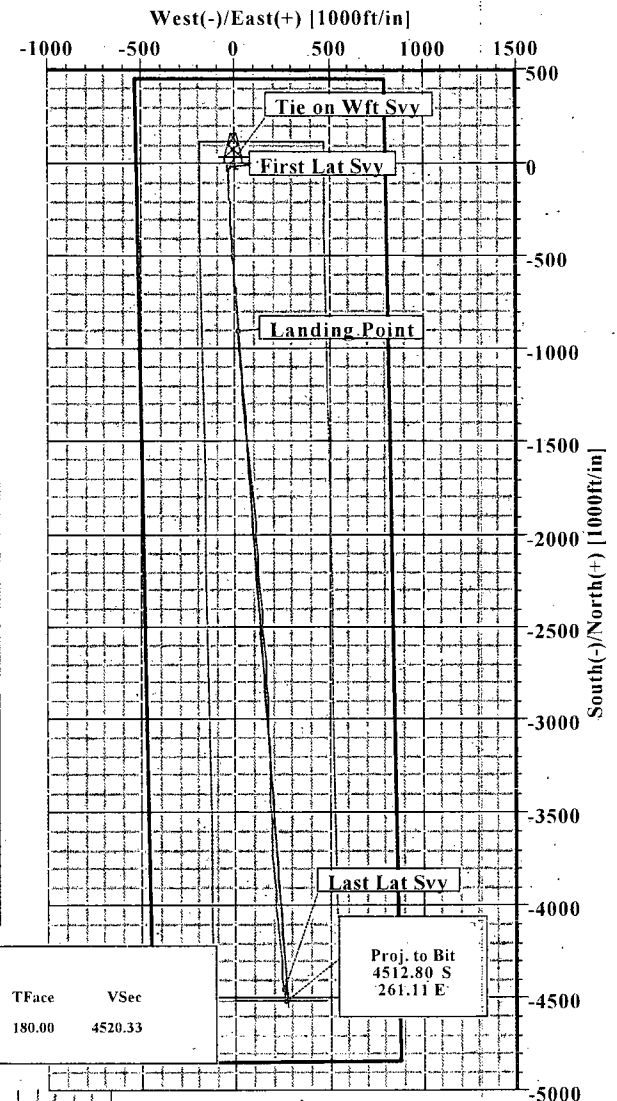
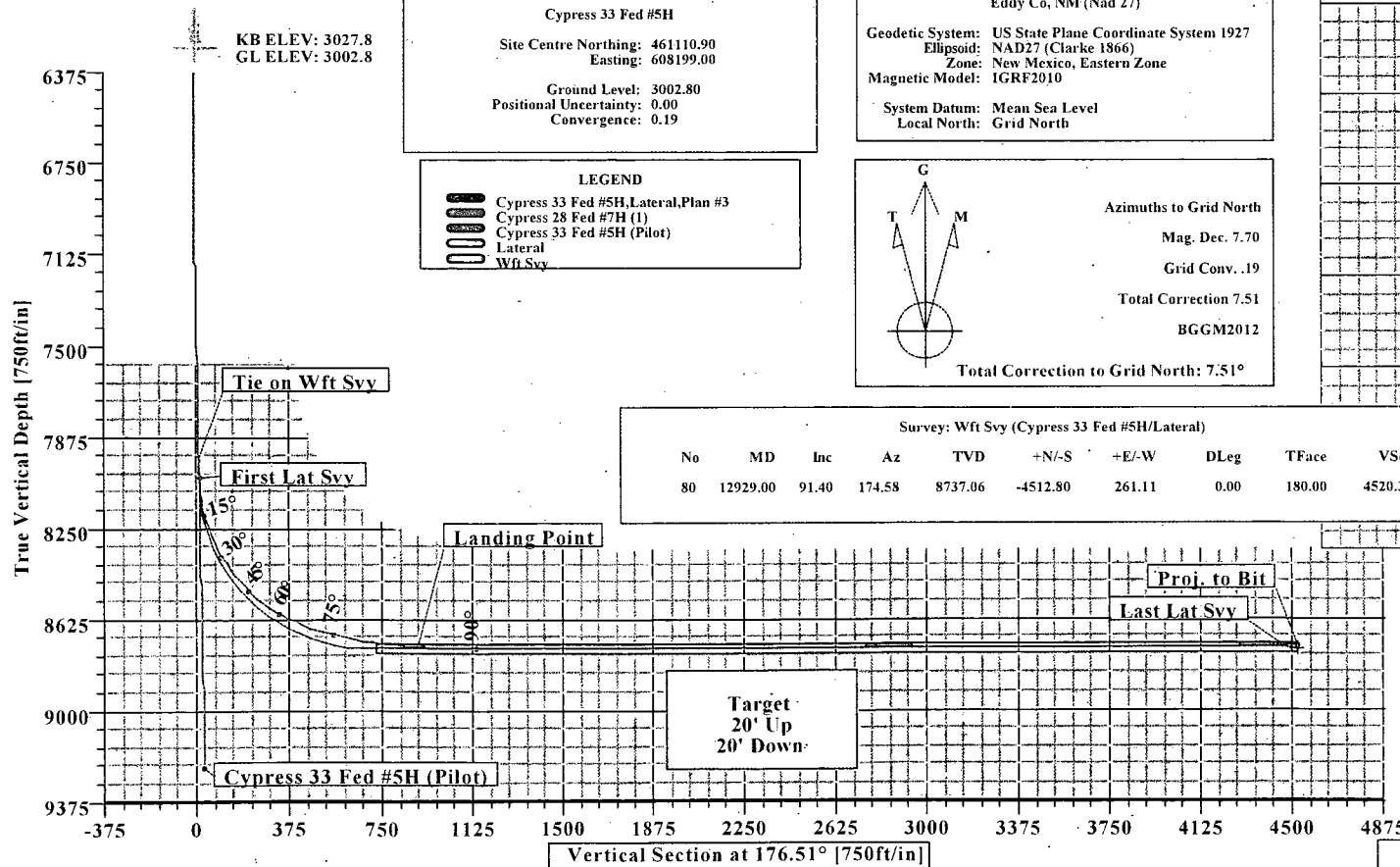
SITE DETAILS	
Cypress 33 Fed #5H	
Site Centre Northing:	461110.90
Easting:	608199.00
Ground Level:	3002.80
Positional Uncertainty:	0.00
Convergence:	0.19

FIELD DETAILS	
Eddy Co, NM (Nad 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

LEGEND	
	Cypress 33 Fed #5H, Lateral, Plan #3
	Cypress 28 Fed #7H (1)
	Cypress 33 Fed #5H (Pilot)
	Lateral
	Wft Svy

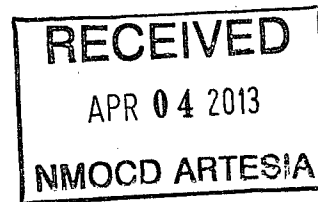
Azimuths to Grid North	
Mag. Dec.	7.70
Grid Conv.	.19
Total Correction	7.51
BGGM2012	
Total Correction to Grid North:	7.51°

Survey: Wft Svy (Cypress 33 Fed #5H/Lateral)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
80	12929.00	91.40	174.58	8737.06	-4512.80	261.11	0.00	180.00	4520.33



Weatherford®

Survey: Wft Svy (Cypress 33 Fed #5H/Lateral)
Created By: Patrick Rudolph
Date: 1/2/2013



OCCIDENTAL PERMIAN LTD.

Cedar Canyon
Eddy County, NM
Cypress 33 Federal Com #5H
VH - Job #32K12121470

Survey: Gyro

SDI Standard Survey Report

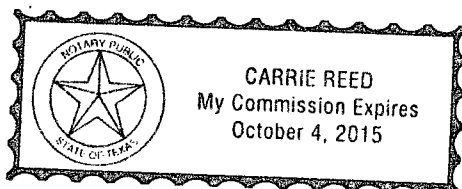
This survey is correct to the best of my knowledge and is supported by actual field data.

Sharton

Notarized this date 31st of December, 2012.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling

Scientific Drilling International, Inc.

SDI Standard Survey Report



Scientific Drilling

Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Cypress 33 Federal Com #5H
Project:	Cedar Canyon	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Cypress 33 Federal Com #5H	North Reference:	True
Wellbore:	VH - Job #32K12121470	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12121470	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:	0.00 usft	Slot Radius:	0"	Grid Convergence:	0.20 °

Well:	Cypress 33 Federal Com #5H, Directional (Weatherford)					
Well Position	+N/-S	0.00 usft	Northings:	461,110.92 usft	Latitude:	32° 16' 2.013 N
	+E/-W	0.00 usft	Easting:	608,199.01 usft	Longitude:	103° 58' 59.809 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	0.00 usft

Wellbore	VH - Job #32K12121470				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/06/12	7.60	60.12	48,475

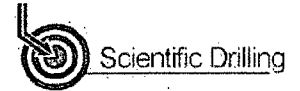
Design:	VH - Job #32K12121470			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	176.51

Survey Program		Date	12/16/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.46	2,936.00	Gyro (VH - Job #32K12121470)	Keeper	Keeper Surface Readout	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure/Azimuth (°)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.46	1.32	8.21	141.45	1.61	0.23	8.21	1.63
201.20	1.12	4.28	201.17	2.88	0.37	7.42	2.90
292.30	0.77	359.92	292.26	4.38	0.44	5.74	4.40
385.13	0.51	18.12	385.09	5.39	0.57	6.01	5.42
477.12	0.53	55.58	477.07	6.02	1.05	9.85	6.11
571.75	0.64	79.16	571.70	6.37	1.93	16.83	6.65
666.49	0.72	89.76	666.43	6.47	3.04	25.17	7.15
761.10	0.73	112.81	761.03	6.24	4.19	33.89	7.52
855.64	0.87	112.39	855.56	5.73	5.41	43.34	7.88
950.77	0.85	108.34	950.68	5.24	6.75	52.19	8.54
1,044.80	0.65	113.96	1,044.71	4.80	7.90	58.71	9.24

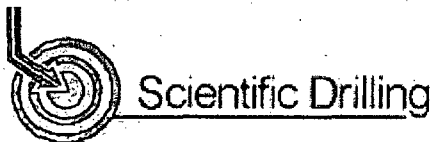
Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate/Reference:	Well: Cypress 33 Federal Com #5H
Project:	Cedar Canyon	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Cypress 33 Federal Com #5H	North Reference:	True
Wellbore:	VH - Job #32K12121470	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12121470	Database:	EDM-Regulatory

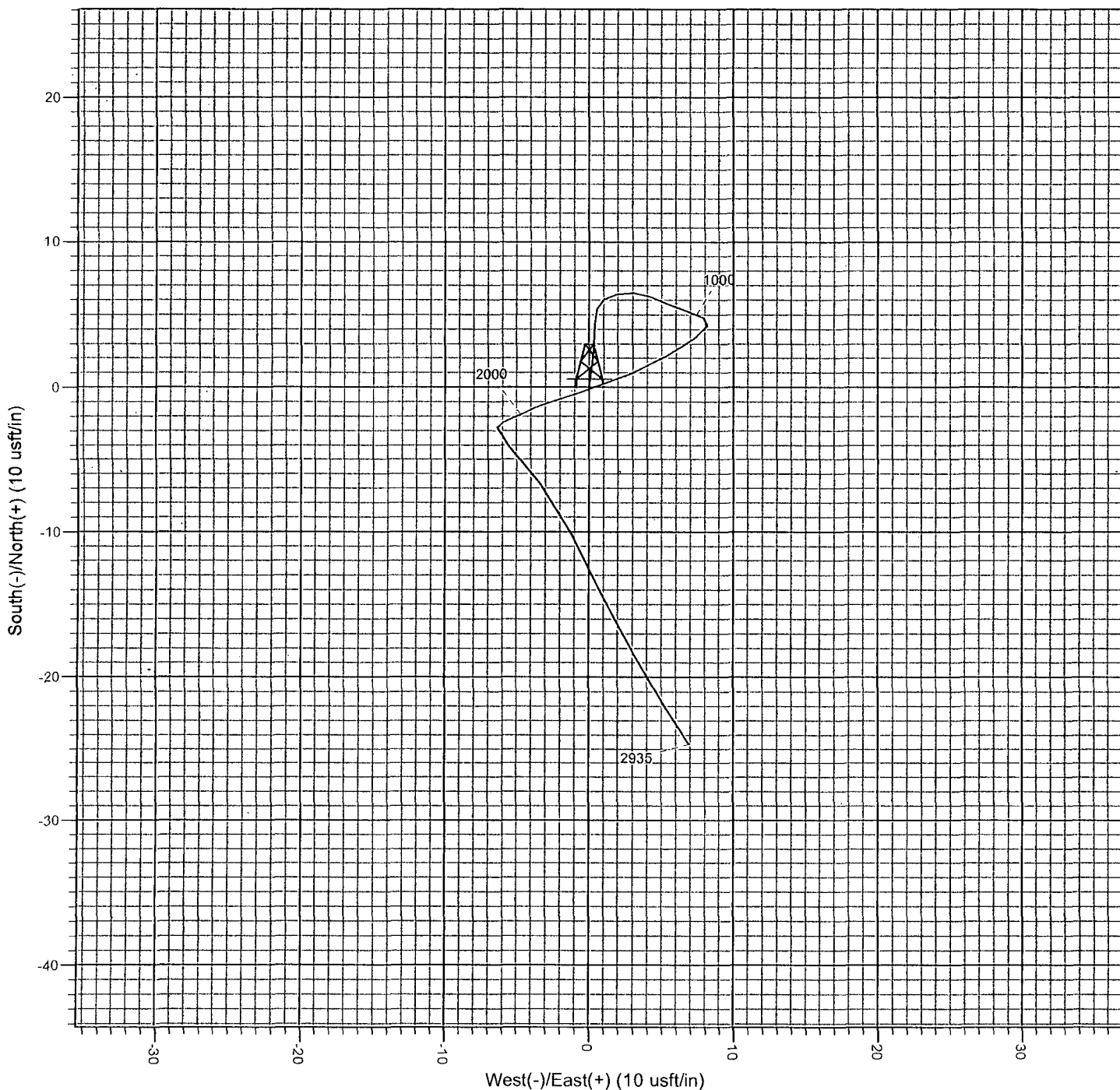
Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,139.40	0.49	207.34	1,139.30	4.22	8.20	62.76	9.22
1,234.00	1.12	235.56	1,233.89	3.34	7.25	65.27	7.99
1,328.50	1.64	241.27	1,328.36	2.17	5.31	67.78	5.73
1,423.07	1.65	245.19	1,422.90	0.95	2.88	71.83	3.03
1,576.76	1.32	254.37	1,576.53	-0.46	-0.83	241.04	0.95
1,612.40	1.32	254.61	1,612.16	-0.68	-1.62	247.28	1.76
1,706.93	0.56	246.03	1,706.68	-1.16	-3.09	249.51	3.30
1,801.46	0.28	248.88	1,801.21	-1.43	-3.73	249.08	3.99
1,990.64	0.33	242.41	1,990.39	-1.85	-4.64	248.33	5.00
2,085.23	0.45	244.86	2,084.97	-2.13	-5.22	247.82	5.64
2,179.82	0.40	244.49	2,179.56	-2.43	-5.86	247.47	6.34
2,274.28	0.32	216.50	2,274.02	-2.78	-6.31	246.20	6.90
2,368.95	1.68	138.46	2,368.68	-4.03	-5.55	233.97	6.86
2,463.62	2.51	141.45	2,463.28	-6.69	-3.34	206.49	7.48
2,558.29	2.47	154.76	2,557.86	-10.16	-1.17	186.59	10.23
2,652.96	2.92	152.50	2,652.43	-14.15	0.81	176.73	14.17
2,747.53	3.01	151.26	2,746.87	-18.46	3.12	170.42	18.72
2,842.07	2.06	146.59	2,841.32	-22.05	5.24	166.62	22.67
2,936.00	1.69	147.49	2,935.20	-24.63	6.92	164.31	25.58



Project: Cedar Canyon
Eddy County, NM
Well: Cypress 33 Federal Com #5H
Wellbore: VH - Job #32K12121470
Design: VH - Job #32K12121470

WELL DETAILS: Cypress 33 Federal Com #5H
WELL @ 0.00usft (Original Well Elev)

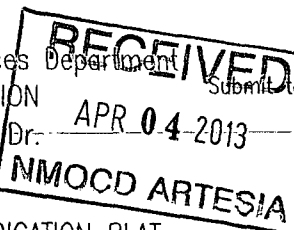
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	461110.92	608199.01	32° 16' 2.013 N	103° 58' 59.809 W	



PROJECT DETAILS: Cedar Canyon	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 12' 57.600 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 57' 50.400 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.20
System Datum: Mean Sea Level	Local North: True

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio-Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☒ AMENDED REPORT
As Directed

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40768	Pool Code 11520	Pool Name Cedar Canyon Bone Spring
Property Code 39492	Property Name CYPRESS 33 FEDERAL Com.	Well Number 5H
OCRID No. 16696	Operator Name OXY USA INC.	Elevation 3002.8'

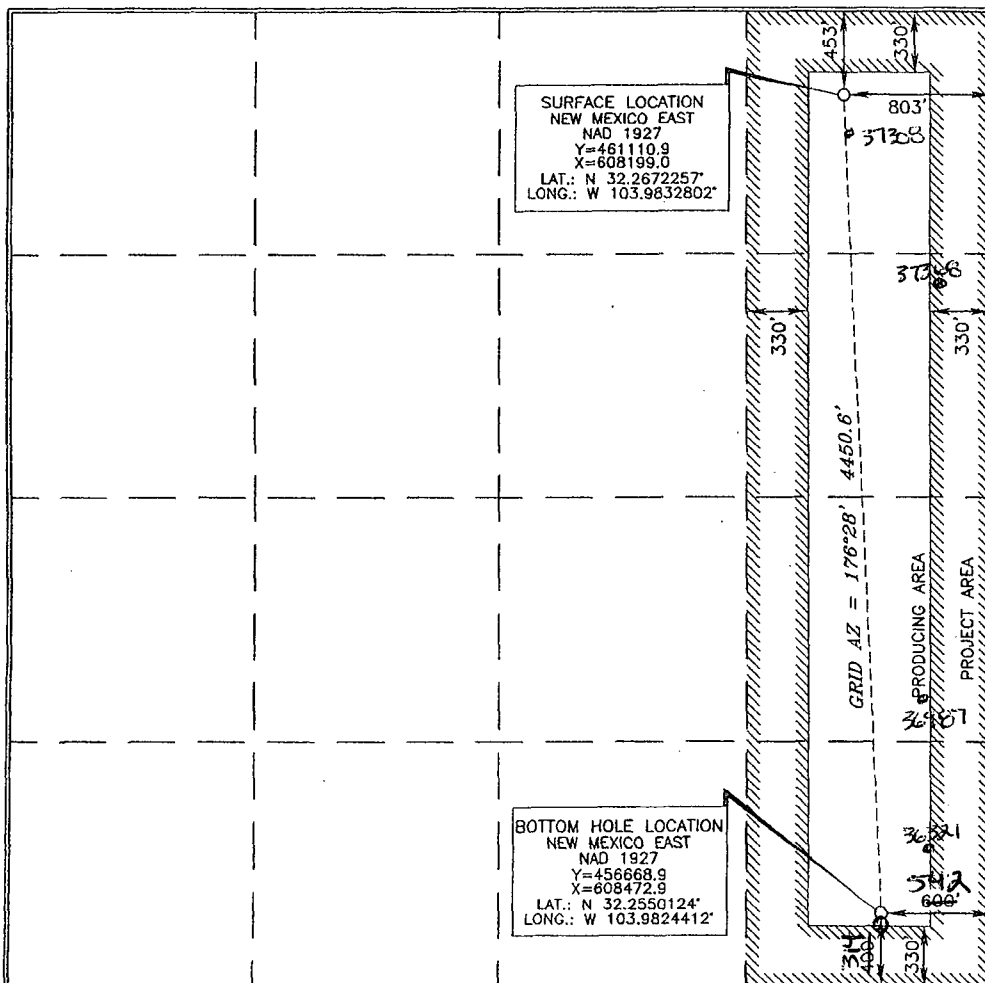
Surface Location

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.		453'	NORTH	803'	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
P	33	23 SOUTH	29 EAST, N.M.P.M.		400' 314	SOUTH	600' 542	EAST	EDDY
Dedicated Acres 160	Joint or Infill W	Consolidation Code	Order No.	Bottom Part - P - 441 FSL 554 FEL					

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] 4/2/13
Signature Date

David Stewart Reg. Adu.
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

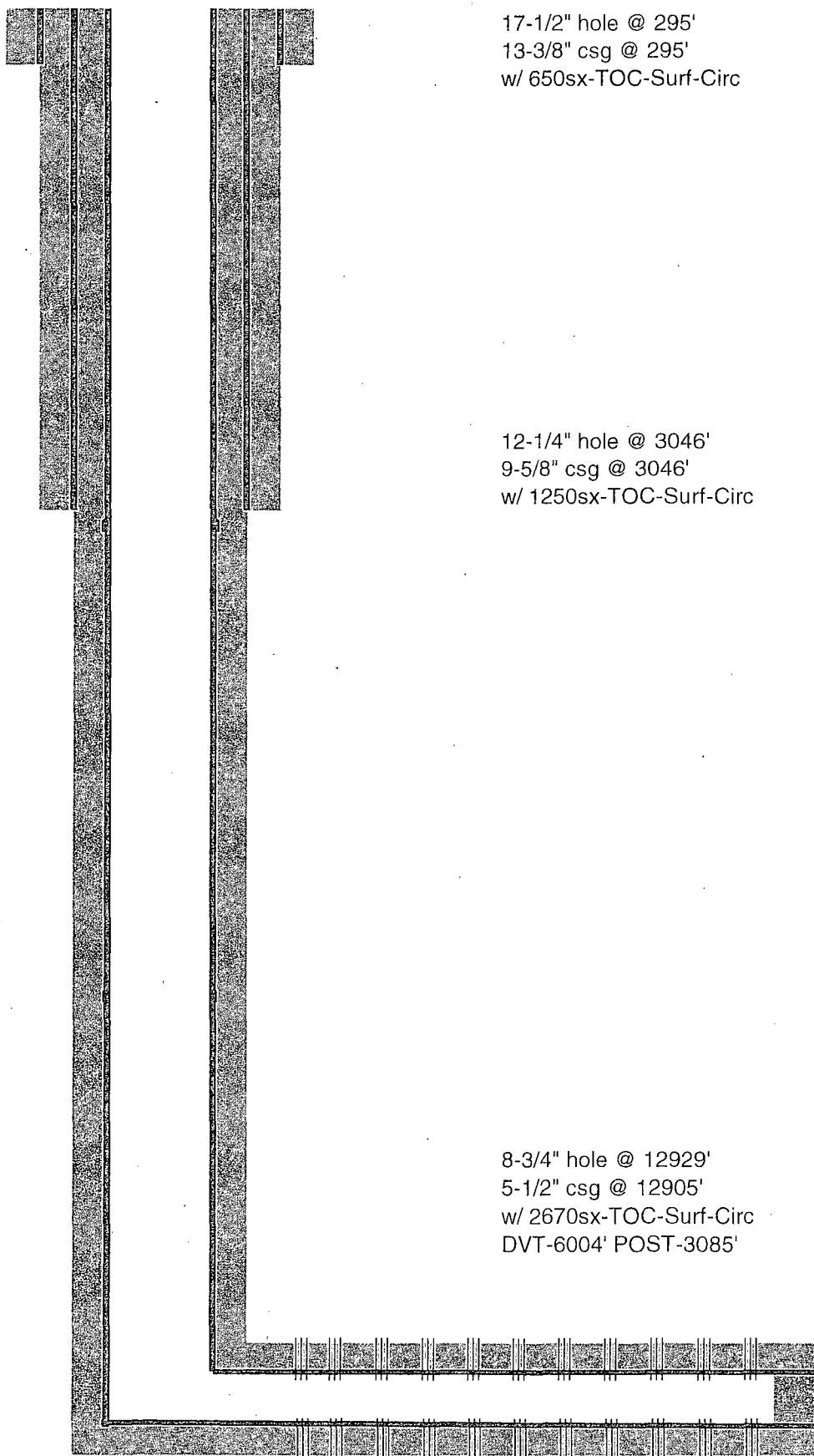
15079
SEPTEMBER 3, 2009
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

15079
Certificate Number

WO# 090903WL-b (KA)

OXY USA Inc.
Cypress 33 Federal Com. #5H
API No. 30-015-40768



17-1/2" hole @ 295'
13-3/8" csg @ 295'
w/ 650sx-TOC-Surf-Circ

12-1/4" hole @ 3046'
9-5/8" csg @ 3046'
w/ 1250sx-TOC-Surf-Circ

8-3/4" hole @ 12929'
5-1/2" csg @ 12905'
w/ 2670sx-TOC-Surf-Circ
DVT-6004' POST-3085'

Perfs @ 8814-12770'

TD - 12929'M 8738"V