



Weatherford®

Evaluation, Drilling & Intervention
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Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

15-40768

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:

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

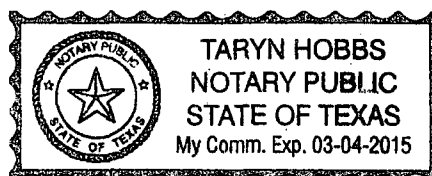
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

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

Well:	Cypress 33 Fed #5H	Slot Name:	
Well Position:	+N-S 0.00 ft	Northings:	461110.90 ft
	+E/-W 0.00 ft	Easting:	608199.00 ft
Position Uncertainty:	0.00 ft	Latitude:	32 16 2.012 N
		Longitude:	103 58 59.809 W

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	+E/-W	Direction
		ft	deg
	0.00	0.00	0.00
			176.51

Survey

MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
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 176.51Az)				
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	Slot
Cypress 33 Fed #5H	0.00	0.00	461110.90	608199.00	32°16'02.012N	103°58'59.809W	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

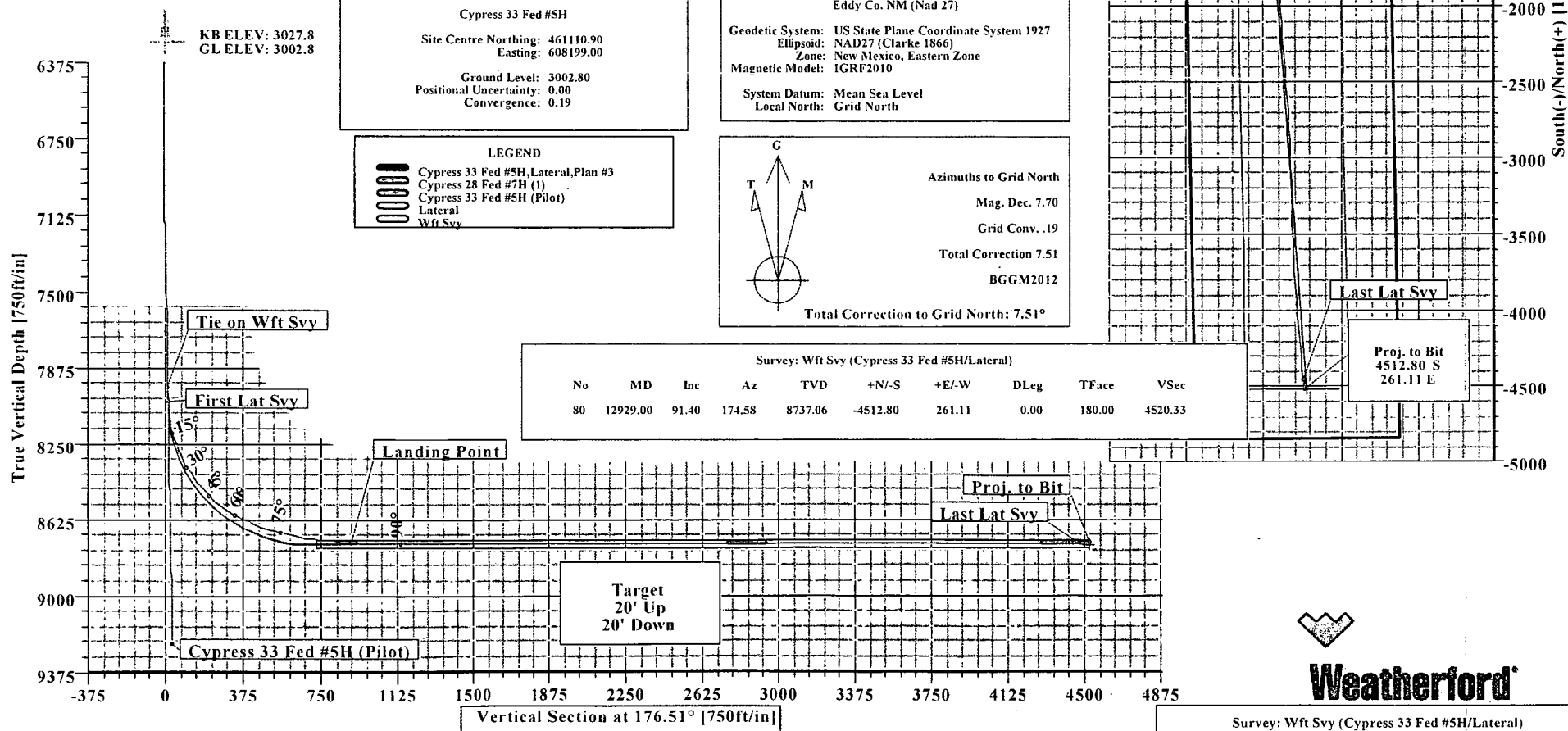


Azimuths to Grid North
Mag. Dec. 7.70
Grid Conv. .19
Total Correction 7.51
BGGM2012

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

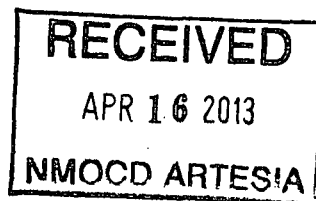


Weatherford

Survey: Wft Svy (Cypress 33 Fed #5H/Lateral)

Created By: Patrick Rudolph

Date: 1/2/2013



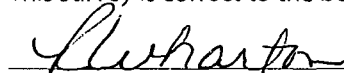
OCCIDENTAL PERMIAN LTD.

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

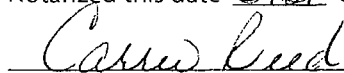
Survey: Gyro

SDI Standard Survey Report

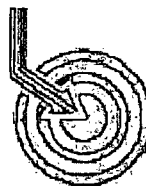
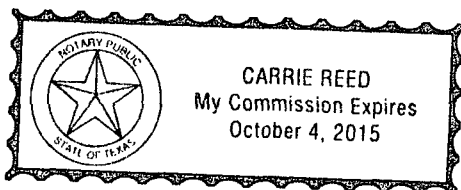
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 31st of December, 2012.



Notary Signature
County of Midland
State of Texas



Scientific Drilling

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

Project: Cedar Canyon	
Map System:	US State Plane 1927 (Exact solution)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

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	Northing:	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

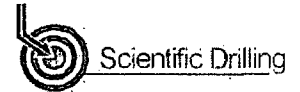
Design	VH - Job #32K12121470			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	176.51

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	

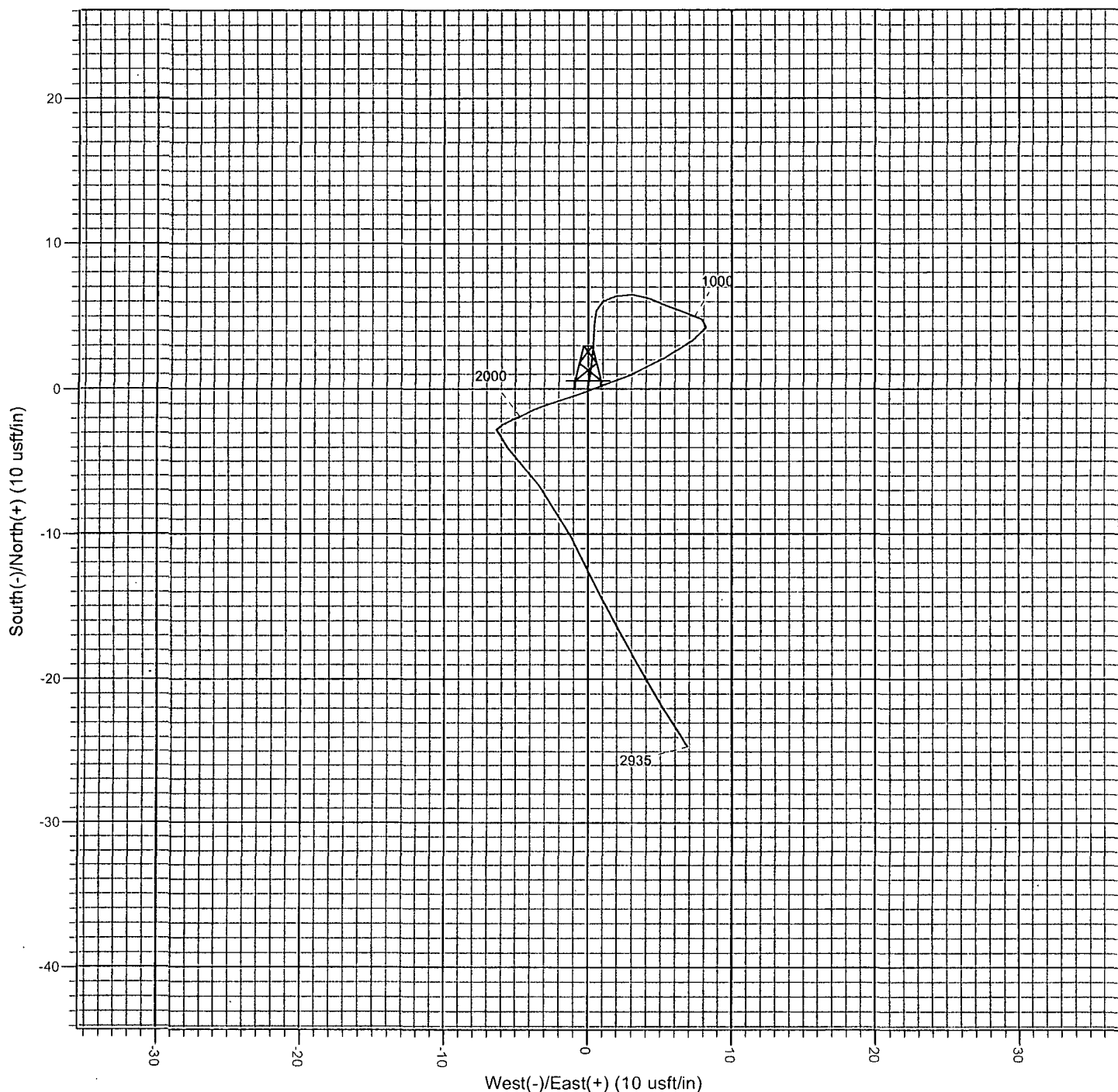


Scientific Drilling

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