

Results of Directional Survey

API number:	30-025-40720		
OGRID:		Operator:	OXY USA INC
		Property:	NBR # 3H

surface	ULSTR:	M	18	T	22S	R	33E
				340	FSL	350	FWL

BH Loc	ULSTR:	D	18	T	22S	R	33E
14229	MD	9904.8	TVD	342	FNL	333	FWL
				4938	FNL		

Top Perf/OH	ULSTR:	M	18	T	22S	R	33E
10364	MD	9921.4	TVD	1076	FSL	376	FWL

Bot Perf/OH	ULSTR:	D	18	T	22S	R	33E
14044	MD	9909.3	TVD	508	FNL	339	FWL
				4772	FSL		

	MD	N/S	E/W	VD
	10306	678.49	26.85	9920.31
TOP PERFS/OH	10364	736.48	26.49	9921.41
	10400	772.47	26.26	9922.09
	13894	4357.52	-8.88	9910.83
BOT PERFS/OH	14044	4432.47	-11.27	9909.32
	14082	4451.46	-11.87	9908.94

NEXT TO LAST	14082	4451.46	-11.87	9908.94
LAST READING	14229	4598.31	-17.01	9904.80
TD	14229	4598.31	-17.01	9904.80

Surface Location	340	FS	350	FW
Projected BHL	4938	FS	333	FW
Location of				
Top Perfs/OH	1076	FS	376	FW
Bottom Perfs/OH	4772	FS	339	FW

SUMMARY of Subsurface Locations

Surface Location	M-18-22S-33E	340	FS	350	FW	Vert. Depth
Top Perfs/OH	M-18-22S-33E	1076	FS	376	FW	9921.41
Bottom Perfs/OH	D-18-22S-33E	4772	FS	339	FW	9909.32
Projected TD	D-18-22S-33E	4938	FS	333	FW	9904.80



Weatherford

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

HOBBS OCD

JAN 10 2013

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

RECEIVED

Date: September 13, 2012

Attention: Carlos Mercado

Re: Occidental Permian Ltd
Well: NBR #3H
Lea County, New Mexico

SUR: M-18-22s-33e, 340/S & 350/W
BHL: D-18-22s-33e, 4938/S & 333/W
API # 30-025-40720

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
Donnie Meister MWD Supervisor	3H	1077' MD 14177' MD	8/30/2012 9/22/2012	Measurement While Drilling

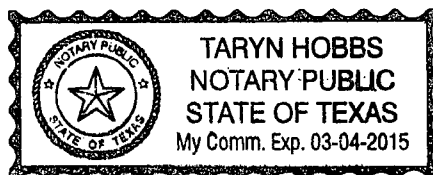
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar

On this, the 25th day of September, 2012, 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 hereof, 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: 9/24/2012	Time: 07:26:17	Page: 1
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: NBR #3H, Grid North	
Site: NBR #3H	Vertical (TVD) Reference:	SITE 3702.1	
Well: NBR #3H	Section (VS) Reference:	Well (0.00N,0.00E,359.59Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Wft Svy	Start Date: 9/4/2012
Company: Weatherford International Ltd.	Engineer: Patrick Rudolph
Tool: MWD;MWD - Standard	Tied-to: User Defined

Site: NBR #3H

Site Position:	Northing: 504668.30 ft	Latitude: 32 23 7.509 N
From: Map	Easting: 720762.20 ft	Longitude: 103 37 5.467 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3677.10 ft		Grid Convergence: 0.38 deg

Well: NBR #3H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 23 7.509 N
+E/-W 0.00 ft	Longitude: 103 37 5.467 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 9/1/2012	Above System Datum: Mean Sea Level
Field Strength: 48613 nT	Declination: 7.47 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.30 deg
ft	+E/-W
	Direction
	deg
0.00	359.59

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
982.00	0.43	76.12	981.95	4.54	7.79	0.00	4.48	504672.84	720769.99	Tie on Gyro
1015.00	0.38	60.23	1014.95	4.62	8.01	0.37	4.57	504672.92	720770.21	Csg
1077.00	0.38	24.62	1076.95	4.91	8.27	0.37	4.85	504673.21	720770.47	First Wft Svy
1172.00	0.21	257.90	1171.95	5.16	8.23	0.56	5.10	504673.46	720770.43	
1266.00	0.53	56.56	1265.95	5.37	8.43	0.78	5.30	504673.67	720770.63	
1361.00	0.69	38.99	1360.94	6.05	9.15	0.26	5.99	504674.35	720771.35	
1455.00	0.65	43.79	1454.94	6.88	9.88	0.07	6.81	504675.18	720772.08	
1550.00	0.56	51.67	1549.93	7.55	10.62	0.13	7.48	504675.85	720772.82	
1644.00	0.66	40.30	1643.93	8.25	11.33	0.17	8.17	504676.55	720773.53	
1739.00	0.65	48.02	1738.92	9.03	12.08	0.09	8.94	504677.33	720774.28	
1833.00	0.59	71.82	1832.91	9.54	12.94	0.28	9.44	504677.84	720775.14	
1927.00	0.98	63.98	1926.91	10.04	14.12	0.43	9.94	504678.34	720776.32	
2022.00	0.80	68.47	2021.89	10.64	15.47	0.20	10.53	504678.94	720777.67	
2116.00	0.89	65.72	2115.88	11.18	16.74	0.10	11.06	504679.48	720778.94	
2211.00	1.20	77.83	2210.87	11.69	18.39	0.40	11.56	504679.99	720780.59	
2305.00	0.71	156.75	2304.86	11.37	19.58	1.35	11.23	504679.67	720781.78	
2399.00	1.05	157.10	2398.85	10.04	20.14	0.36	9.89	504678.34	720782.34	
2494.00	0.92	135.27	2493.83	8.69	21.02	0.41	8.54	504676.99	720783.22	
2588.00	1.13	195.53	2587.82	7.27	21.30	1.11	7.11	504675.57	720783.50	
2683.00	0.80	187.98	2682.81	5.71	20.96	0.37	5.56	504674.01	720783.16	
2777.00	0.63	184.46	2776.80	4.54	20.83	0.19	4.39	504672.84	720783.03	
2872.00	0.70	159.39	2871.79	3.48	20.99	0.31	3.33	504671.78	720783.19	
2966.00	1.07	106.28	2965.78	2.69	22.04	0.91	2.54	504670.99	720784.24	
3061.00	0.82	170.70	3060.77	1.77	23.00	1.08	1.61	504670.07	720785.20	
3155.00	0.89	197.67	3154.76	0.41	22.89	0.43	0.25	504668.71	720785.09	
3249.00	0.66	198.17	3248.75	-0.80	22.50	0.24	-0.96	504667.50	720784.70	
3344.00	0.43	257.26	3343.75	-1.39	21.98	0.60	-1.55	504666.91	720784.18	
3438.00	0.51	258.07	3437.75	-1.56	21.22	0.09	-1.71	504666.74	720783.42	
3533.00	0.63	280.89	3532.74	-1.55	20.30	0.27	-1.69	504666.75	720782.50	
3627.00	0.92	287.73	3626.73	-1.22	19.07	0.32	-1.36	504667.08	720781.27	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: NBR #3H
Well: NBR #3H
Wellpath: 1

Date: 9/24/2012 Time: 07:26:17 Page: 2
Co-ordinate(NE) Reference: Well: NBR #3H, Grid North
Vertical (TVD) Reference: SITE 3702.1
Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)
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
3722.00	0.51	339.34	3721.73	-0.59	18.19	0.76	-0.72	504667.71	720780.39	
3816.00	0.94	60.97	3815.72	0.17	18.72	1.07	0.04	504668.47	720780.92	
3910.00	2.24	78.98	3909.68	0.90	21.20	1.46	0.75	504669.20	720783.40	
4005.00	2.03	78.00	4004.62	1.60	24.67	0.22	1.43	504669.90	720786.87	
4099.00	0.25	51.35	4098.60	2.08	26.46	1.93	1.89	504670.38	720788.66	
4194.00	0.31	22.39	4193.59	2.45	26.72	0.16	2.25	504670.75	720788.92	
4288.00	0.50	4.09	4287.59	3.09	26.84	0.24	2.90	504671.39	720789.04	
4383.00	1.09	34.42	4382.58	4.25	27.38	0.74	4.05	504672.55	720789.58	
4477.00	0.76	43.02	4476.57	5.44	28.31	0.38	5.24	504673.74	720790.51	
4571.00	1.42	251.97	4570.56	5.54	27.63	2.25	5.34	504673.84	720789.83	
4666.00	2.07	254.44	4665.52	4.71	24.86	0.69	4.53	504673.01	720787.06	
4760.00	1.62	260.25	4759.47	4.03	21.91	0.52	3.88	504672.33	720784.11	
4854.00	1.85	256.83	4853.43	3.46	19.13	0.27	3.32	504671.76	720781.33	
4926.00	1.84	261.30	4925.39	3.02	16.85	0.20	2.90	504671.32	720779.05	
4980.00	1.75	257.69	4979.36	2.72	15.19	0.27	2.61	504671.02	720777.39	Csg
5078.00	1.60	250.14	5077.32	1.93	12.44	0.27	1.84	504670.23	720774.64	
5172.00	1.57	249.50	5171.28	1.04	10.00	0.04	0.96	504669.34	720772.20	
5267.00	1.75	252.69	5266.24	0.15	7.40	0.21	0.09	504668.45	720769.60	
5361.00	1.60	254.59	5360.20	-0.63	4.76	0.17	-0.66	504667.67	720766.96	
5456.00	1.20	240.74	5455.18	-1.47	2.62	0.55	-1.49	504666.83	720764.82	
5550.00	0.44	4.31	5549.17	-1.59	1.79	1.58	-1.60	504666.71	720763.99	
5644.00	0.45	13.90	5643.17	-0.87	1.90	0.08	-0.88	504667.43	720764.10	
5739.00	0.43	349.60	5738.16	-0.16	1.93	0.20	-0.17	504668.14	720764.13	
5833.00	0.47	345.24	5832.16	0.56	1.77	0.06	0.55	504668.86	720763.97	
5928.00	0.49	350.80	5927.16	1.34	1.60	0.05	1.33	504669.64	720763.80	
6022.00	0.50	329.68	6021.15	2.09	1.33	0.19	2.08	504670.39	720763.53	
6117.00	0.56	123.49	6116.15	2.19	1.51	1.09	2.18	504670.49	720763.71	
6211.00	0.51	116.33	6210.15	1.75	2.27	0.09	1.74	504670.05	720764.47	
6306.00	0.58	108.16	6305.14	1.42	3.10	0.11	1.39	504669.72	720765.30	
6400.00	0.51	116.16	6399.14	1.08	3.93	0.11	1.06	504669.38	720766.13	
6494.00	0.51	114.17	6493.14	0.73	4.69	0.02	0.69	504669.03	720766.89	
6589.00	0.36	87.60	6588.13	0.57	5.37	0.26	0.53	504668.87	720767.57	
6683.00	0.35	104.00	6682.13	0.51	5.94	0.11	0.47	504668.81	720768.14	
6778.00	0.47	117.87	6777.13	0.26	6.57	0.16	0.21	504668.56	720768.77	
6872.00	0.35	90.84	6871.13	0.07	7.20	0.24	0.02	504668.37	720769.40	
6966.00	0.25	76.25	6965.13	0.12	7.68	0.13	0.06	504668.42	720769.88	
7061.00	0.51	108.69	7060.12	0.03	8.29	0.34	-0.03	504668.33	720770.49	
7155.00	0.49	112.49	7154.12	-0.26	9.05	0.04	-0.32	504668.04	720771.25	
7250.00	0.49	112.13	7249.12	-0.56	9.81	0.00	-0.63	504667.74	720772.01	
7344.00	0.41	122.32	7343.11	-0.90	10.46	0.12	-0.97	504667.40	720772.66	
7438.00	0.47	127.06	7437.11	-1.31	11.05	0.07	-1.39	504666.99	720773.25	
7533.00	0.53	123.27	7532.11	-1.78	11.73	0.07	-1.87	504666.52	720773.93	
7627.00	0.16	96.06	7626.11	-2.04	12.23	0.42	-2.12	504666.26	720774.43	
7722.00	0.21	0.47	7721.11	-1.88	12.36	0.29	-1.96	504666.42	720774.56	
7816.00	0.16	318.25	7815.11	-1.61	12.27	0.15	-1.69	504666.69	720774.47	
7911.00	0.31	339.31	7910.10	-1.27	12.09	0.18	-1.35	504667.03	720774.29	
8005.00	0.35	317.82	8004.10	-0.82	11.81	0.14	-0.90	504667.48	720774.01	
8099.00	0.10	124.37	8098.10	-0.65	11.69	0.48	-0.73	504667.65	720773.89	
8194.00	0.21	221.43	8193.10	-0.83	11.64	0.26	-0.91	504667.47	720773.84	
8288.00	0.31	207.91	8287.10	-1.18	11.41	0.12	-1.26	504667.12	720773.61	
8383.00	0.35	199.72	8382.10	-1.68	11.19	0.07	-1.76	504666.62	720773.39	
8477.00	0.51	192.46	8476.10	-2.36	11.00	0.18	-2.44	504665.94	720773.20	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: NBR #3H
Well: NBR #3H
Wellpath: 1

Date: 9/24/2012 **Time:** 07:26:17 **Page:** 3
Co-ordinate(NE) Reference: Well: NBR #3H, Grid North
Vertical (TVD) Reference: SITE 3702.1
Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)
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
8572.00	0.66	200.68	8571.09	-3.28	10.72	0.18	-3.36	504665.02	720772.92	
8666.00	0.63	207.10	8665.09	-4.25	10.29	0.08	-4.32	504664.05	720772.49	
8761.00	0.79	219.97	8760.08	-5.22	9.63	0.24	-5.29	504663.08	720771.83	
8855.00	0.85	207.21	8854.07	-6.33	8.90	0.20	-6.40	504661.97	720771.10	
8949.00	0.82	208.61	8948.06	-7.54	8.26	0.04	-7.60	504660.76	720770.46	
9044.00	0.84	194.97	9043.05	-8.81	7.75	0.21	-8.87	504659.49	720769.95	
9079.00	0.80	190.74	9078.05	-9.30	7.64	0.21	-9.36	504659.00	720769.84	
9110.00	0.43	249.90	9109.04	-9.55	7.49	2.22	-9.61	504658.75	720769.69	
9142.00	1.32	334.27	9141.04	-9.26	7.22	4.21	-9.32	504659.04	720769.42	
9173.00	2.40	342.28	9172.02	-8.32	6.86	3.57	-8.37	504659.98	720769.06	
9205.00	3.60	343.27	9203.98	-6.72	6.37	3.75	-6.77	504661.58	720768.57	
9236.00	5.22	347.81	9234.89	-4.41	5.79	5.34	-4.45	504663.89	720767.99	
9267.00	7.13	351.79	9265.71	-1.13	5.22	6.31	-1.17	504667.17	720767.42	
9299.00	9.10	356.48	9297.38	3.36	4.78	6.49	3.33	504671.66	720766.98	
9330.00	10.91	358.17	9327.91	8.74	4.54	5.91	8.71	504677.04	720766.74	
9362.00	12.30	359.15	9359.26	15.18	4.39	4.39	15.14	504683.48	720766.59	
9393.00	14.30	2.67	9389.42	22.30	4.52	6.96	22.27	504690.60	720766.72	
9425.00	15.83	2.23	9420.32	30.61	4.87	4.79	30.58	504698.91	720767.07	
9456.00	18.25	3.50	9449.96	39.68	5.33	7.90	39.64	504707.98	720767.53	
9488.00	20.97	4.92	9480.10	50.39	6.13	8.63	50.35	504718.69	720768.33	
9519.00	23.64	4.65	9508.78	62.12	7.11	8.62	62.06	504730.42	720769.31	
9551.00	25.95	3.77	9537.83	75.50	8.09	7.31	75.44	504743.80	720770.29	
9582.00	28.73	3.08	9565.36	89.71	8.94	9.03	89.64	504758.01	720771.14	
9614.00	30.72	2.41	9593.15	105.56	9.69	6.30	105.48	504773.86	720771.89	
9645.00	31.82	1.39	9619.65	121.64	10.23	3.94	121.56	504789.94	720772.43	
9677.00	33.97	0.96	9646.52	139.01	10.58	6.76	138.93	504807.31	720772.78	
9709.00	37.17	359.95	9672.54	157.62	10.72	10.17	157.54	504825.92	720772.92	
9740.00	40.31	359.05	9696.72	177.02	10.55	10.29	176.94	504845.32	720772.75	
9772.00	43.58	358.05	9720.52	198.40	10.00	10.43	198.32	504866.70	720772.20	
9803.00	46.94	357.85	9742.33	220.40	9.21	10.85	220.33	504888.70	720771.41	
9835.00	49.26	359.16	9763.70	244.21	8.60	7.86	244.14	504912.51	720770.80	
9866.00	51.65	1.16	9783.44	268.11	8.67	9.17	268.04	504936.41	720770.87	
9898.00	55.02	3.92	9802.55	293.74	9.82	12.60	293.67	504962.04	720772.02	
9929.00	57.88	6.19	9819.68	319.47	12.10	11.06	319.38	504987.77	720774.30	
9960.00	62.16	6.52	9835.17	346.15	15.08	13.84	346.04	505014.45	720777.28	
9991.00	66.81	5.98	9848.52	373.96	18.12	15.08	373.82	505042.26	720780.32	
10023.00	69.03	4.78	9860.55	403.48	20.90	7.76	403.32	505071.78	720783.10	
10054.00	70.31	3.66	9871.32	432.47	23.04	5.34	432.29	505100.77	720785.24	
10086.00	71.62	2.59	9881.75	462.67	24.68	5.17	462.48	505130.97	720786.88	
10117.00	73.81	2.44	9890.96	492.24	25.98	7.08	492.04	505160.54	720788.18	
10149.00	76.87	1.87	9899.06	523.17	27.14	9.72	522.96	505191.47	720789.34	
10180.00	79.02	0.16	9905.54	553.48	27.68	8.79	553.27	505221.78	720789.88	
10212.00	81.28	359.59	9911.01	585.01	27.61	7.28	584.79	505253.31	720789.81	
10243.00	83.19	359.58	9915.20	615.72	27.39	6.16	615.51	505284.02	720789.59	
10275.00	85.24	359.25	9918.42	647.55	27.06	6.49	647.34	505315.85	720789.26	
10306.00	87.76	359.95	9920.31	678.49	26.85	8.44	678.28	505346.79	720789.05	
10400.00	90.07	359.33	9922.09	772.47	26.26	2.54	772.26	505440.77	720788.46	
10495.00	87.90	358.40	9923.78	867.43	24.38	2.49	867.23	505535.73	720786.58	
10589.00	90.00	357.83	9925.50	961.35	21.28	2.31	961.18	505629.65	720783.48	
10684.00	90.00	358.58	9925.50	1056.31	18.31	0.79	1056.15	505724.61	720780.51	
10778.00	89.16	358.45	9926.19	1150.27	15.87	0.90	1150.13	505818.57	720778.07	
10872.00	87.13	357.93	9929.23	1244.17	12.91	2.23	1244.05	505912.47	720775.11	
10967.00	90.91	358.97	9930.86	1339.10	10.34	4.13	1339.00	506007.40	720772.54	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 9/24/2012	Time: 07:26:17	Page: 4
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: NBR #3H, Grid North	
Site: NBR #3H	Vertical (TVD) Reference:	SITE 3702.1	
Well: NBR #3H	Section (VS) Reference:	Well (0.00N,0.00E,359.59Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

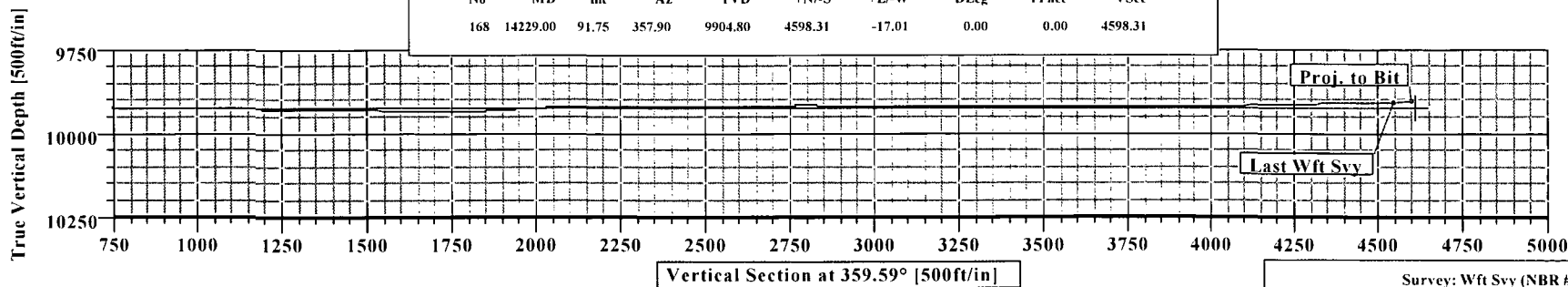
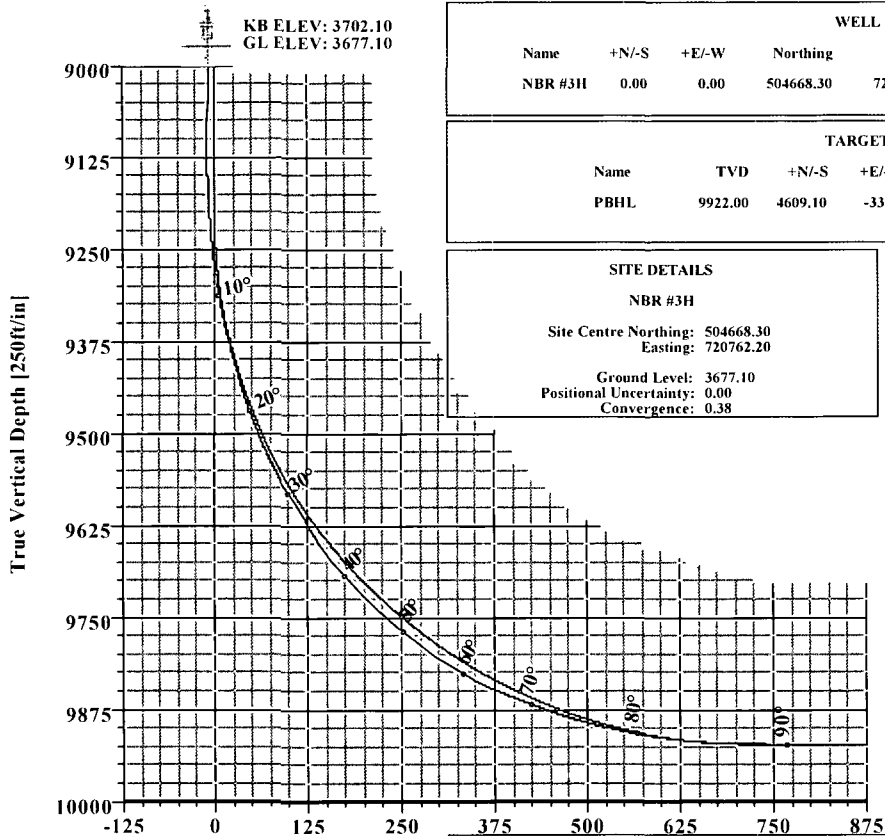
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11062.00	89.16	358.42	9930.80	1434.07	8.17	1.93	1433.98	506102.37	720770.37	
11156.00	89.30	357.22	9932.06	1528.00	4.60	1.29	1527.92	506196.30	720766.80	
11250.00	88.88	356.95	9933.55	1621.86	-0.18	0.53	1621.82	506290.16	720762.02	
11345.00	89.58	356.37	9934.83	1716.69	-5.72	0.96	1716.69	506384.99	720756.48	
11439.00	91.68	357.69	9933.80	1810.55	-10.59	2.64	1810.58	506478.85	720751.61	
11533.00	93.71	0.19	9929.38	1904.42	-12.32	3.42	1904.46	506572.72	720749.88	
11628.00	93.43	1.54	9923.46	1999.22	-10.89	1.45	1999.25	506667.52	720751.31	
11722.00	90.00	4.43	9920.65	2093.03	-6.00	4.77	2093.02	506761.33	720756.20	
11817.00	90.42	3.75	9920.30	2187.79	0.78	0.84	2187.72	506856.09	720762.98	
11911.00	89.65	2.75	9920.24	2281.63	6.11	1.34	2281.53	506949.93	720768.31	
12006.00	90.28	1.60	9920.30	2376.56	9.71	1.38	2376.43	507044.86	720771.91	
12100.00	91.05	2.22	9919.21	2470.50	12.84	1.05	2470.35	507138.80	720775.04	
12194.00	89.37	0.53	9918.87	2564.47	15.10	2.54	2564.29	507232.77	720777.30	
12289.00	90.84	1.55	9918.69	2659.45	16.82	1.88	2659.26	507327.75	720779.02	
12383.00	91.33	1.18	9916.91	2753.40	19.06	0.65	2753.20	507421.70	720781.26	
12477.00	88.60	1.22	9916.97	2847.37	21.03	2.90	2847.15	507515.67	720783.23	
12571.00	89.02	0.97	9918.92	2941.34	22.83	0.52	2941.10	507609.64	720785.03	
12666.00	90.28	1.18	9919.50	3036.32	24.61	1.34	3036.06	507704.62	720786.81	
12761.00	91.19	1.54	9918.28	3131.28	26.86	1.03	3131.01	507799.58	720789.06	
12855.00	88.25	359.03	9918.74	3225.26	27.33	4.11	3224.98	507893.56	720789.53	
12949.00	90.91	359.06	9919.43	3319.24	25.76	2.83	3318.97	507987.54	720787.96	
13044.00	90.42	358.54	9918.33	3414.21	23.77	0.75	3413.95	508082.51	720785.97	
13138.00	89.30	357.80	9918.56	3508.16	20.77	1.43	3507.92	508176.46	720782.97	
13233.00	89.37	357.61	9919.66	3603.08	16.97	0.21	3602.86	508271.38	720779.17	
13327.00	89.37	358.23	9920.69	3697.01	13.56	0.66	3696.82	508365.31	720775.76	
13422.00	90.56	358.33	9920.75	3791.96	10.71	1.26	3791.79	508460.26	720772.91	
13516.00	90.35	357.84	9920.01	3885.91	7.57	0.57	3885.75	508554.21	720769.77	
13610.00	90.84	358.17	9919.03	3979.84	4.29	0.63	3979.71	508648.14	720766.49	
13705.00	91.19	357.87	9917.35	4074.77	1.01	0.49	4074.66	508743.07	720763.21	
13799.00	91.54	357.79	9915.11	4168.68	-2.55	0.38	4168.59	508836.98	720759.65	
13894.00	91.33	358.19	9912.73	4263.59	-5.88	0.48	4263.52	508931.89	720756.32	
13988.00	90.98	358.15	9910.83	4357.52	-8.88	0.37	4357.48	509025.82	720753.32	
14082.00	91.33	358.20	9908.94	4451.46	-11.87	0.38	4451.43	509119.76	720750.33	
14177.00	91.75	357.90	9906.39	4546.37	-15.10	0.54	4546.36	509214.67	720747.10	Last Wft Svy
14229.00	91.75	357.90	9904.80	4598.31	-17.01	0.00	4598.31	509266.61	720745.19	Proj. to Bit

Annotation

MD ft	TVD ft	
982.00	981.95	Tie on Gyro
1077.00	1076.95	First Wft Svy
14177.00	9906.39	Last Wft Svy
14229.00	9904.80	Proj. to Bit



NBR #3H
Lea Co, New Mexico

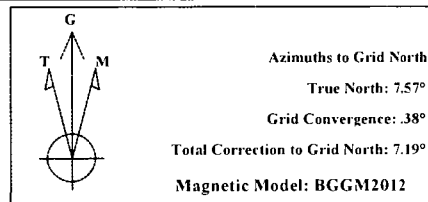


SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	359.59	0.00	0.00	0.00	0.00	0.00	0.00
2	9205.80	0.00	359.59	9205.80	0.00	0.00	0.00	0.00	0.00
3	10330.80	90.00	359.59	9922.00	716.18	-5.17	8.00	359.59	716.20
4	14223.83	90.00	359.59	9922.00	4609.10	-33.30	0.00	0.00	4609.22 PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
NBR #3H	0.00	0.00	504668.30	720762.20	32°23'07.509N	103°37'05.467W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9922.00	4609.10	-33.30	509277.40	720728.90	Point

SITE DETAILS	
NBR #3H	
Site Centre Northing:	504668.30
Easting:	720762.20
Ground Level:	3677.10
Positional Uncertainty:	0.00
Convergence:	0.38



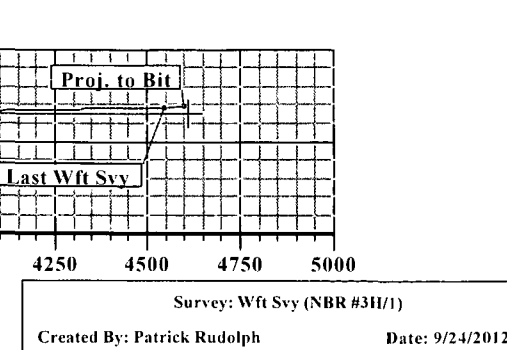
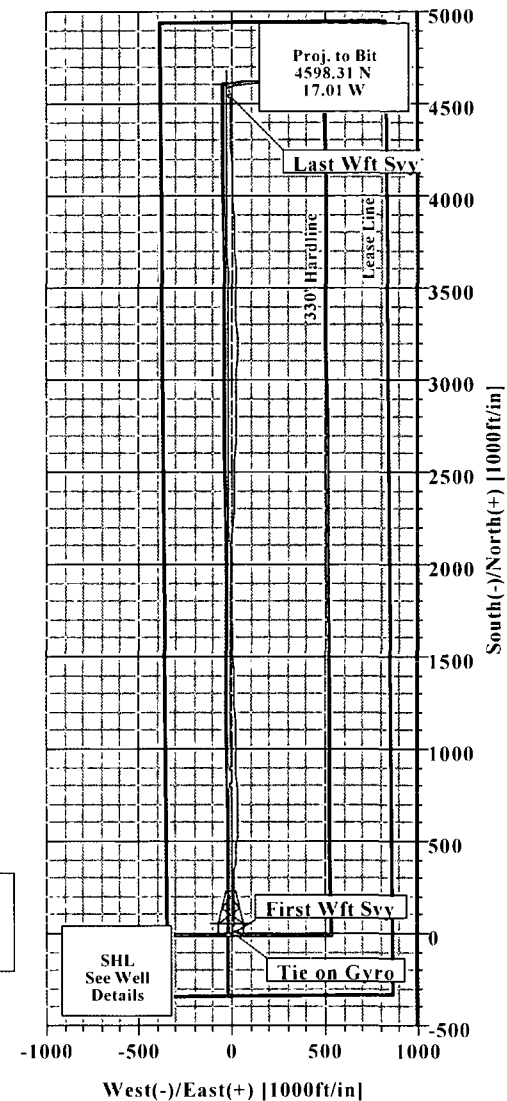
FIELD DETAILS	
Lea Co, New Mexico (Nad 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North



Weatherford

LEGEND	
	NBR #3H, I Plan #2
	Wft Svy

Survey: Wft Svy (NBR #3H/I)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
168	14229.00	91.75	357.90	9904.80	4598.31	-17.01	0.00	0.00	4598.31





Job Number: SVCO-121221

Company: OXY USA, Inc.

Lease/Well: NBR 3H

Location: Lea County, NM

Rig Name: H&P #477

RKB: 24'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 7.11°

Grid: East To Grid North

File name: F:\SURVEY\2012SU~1\OXY\CONROE\NBR\3H.SVY

Date/Time: 31-Aug-12 / 09:43

Curve Name: Surface - 982' M.D. (Rate Gyro)

SUR: M-18-22s-33e, 340/S & 350/W
BHL: D-18-22s-33e, 4938/S & 333/W
API # 30-025-40720

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
Surface MD to 982' MD is, to the best of
our knowledge a true and accurate account of
the well bore.

Nik Means
MS Energy Services

8/31/12
Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.46	79.54	100.00	.07	.39	.07	.40	79.54	.46
200.00	.40	44.16	200.00	.40	1.03	.40	1.11	69.01	.27
300.00	.45	48.02	299.99	.91	1.57	.91	1.81	59.89	.06
400.00	.66	42.24	399.99	1.60	2.25	1.60	2.76	54.57	.22
500.00	.63	56.20	499.98	2.33	3.09	2.33	3.87	52.98	.16
600.00	.66	76.82	599.98	2.77	4.11	2.77	4.95	56.03	.23
700.00	.40	84.66	699.97	2.93	5.02	2.93	5.81	59.70	.27
800.00	.67	59.44	799.97	3.26	5.87	3.26	6.71	60.94	.35
900.00	.91	51.10	899.96	4.06	6.99	4.06	8.08	59.87	.27

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Last Survey Depth Recorded									
982.00	.43	76.12	981.95	4.54	7.79	4.54	9.02	59.78	.67