

Results of Directional Survey

API number:	30-025-40607		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	RED HILLS WEST 22 CN FEDERAL COM # 1H

surface	ULSTR:	C	22	T 26S	R 32E
				150 FNL	2310 FWL

BH Loc	ULSTR:	N	22	T 26S	R 32E
13615	MD	9006.2	TVD	270 FSL	2279 FWL
				5010 FNL	

Top Perf/OH	ULSTR:	C	22	T 26S	R 32E
9350	MD	9067.1	TVD	750 FNL	2310 FWL

Bot Perf/OH	ULSTR:	N	22	T 26S	R 32E
13467	MD	9007.7	TVD	418 FSL	2280 FWL
				4862 FNL	

	MD	N/S	E/W	VD
	9349	-599.16	-0.37	9067.07
TOP PERFS/OH	9350	-600.16	-0.46	9067.05
	9377	-627.05	-2.81	9066.58
	13431	-4675.74	-30.37	9008.34
BOT PERFS/OH	13467	-4711.73	-30.31	9007.65
	13495	-4739.73	-30.26	9007.11

NEXT TO LAST	13563	-4807.72	-30.62	9006.42
LAST READING	13615	-4859.72	-30.99	9006.15
TD	13615	-4859.72	-30.99	9006.15

Surface Location	150	FN	2310	FW
Projected BHL	5010	FN	2279	FW
Location of				
Top Perfs/OH	750	FN	2310	FW
Bottom Perfs/OH	4862	FN	2280	FW

SUMMARY of Subsurface Locations

Surface Location	C-22-26S-32E	150	FN	2310	FW	Vert. Depth
Top Perfs/OH	C-22-26S-32E	750	FN	2310	FW	9067.05
Bottom Perfs/OH	N-22-26S-32E	4862	FN	2280	FW	9007.65
Projected TD	N-22-26S-32E	5010	FN	2279	FW	9006.15

REV 1 2 2013

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE RED HILLS WEST 22 CN FED COM 1H
COUNTY LEA

036-0056

STATE OF NEW MEXICO
DEVIATION REPORT

254	0.43
772	1.70
829	1.80
1,114	1.40
1,400	0.60
2,317	0.90
2,600	1.30
2,885	1.00
3,170	1.30
3,486	2.30
3,986	2.00
4,742	2.30
5,059	0.30
5,375	0.30
5,775	0.40
6,188	0.90
6,588	1.00
6,959	1.13
7,371	0.75
7,815	0.90

HOBBS OCD

OCT 31 2013

RECEIVED

STATE OF TEXAS

BY: Steve Moore

COUNTY OF MIDLAND

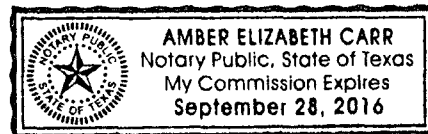
The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

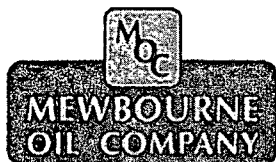
9/16/13, by

Amber Elizabeth Carr

Notary Public for Midland County, Texas

My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Red Hills West 22 CN Federal Com/No. 001H

Rig Name: Patterson 36
State/County: New Mexico/Lea
Latitude: 32.04, Longitude: -103.66
GRID North is 0.36 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 22 ft

HOBBS OCD

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: final.ut
Minimum Curvature Method
Report Date/Time: 7/31/2013 / 15:00

OCT 31 2013

RECEIVED

Vaughn Energy Services
Fort Worth, Texas
817-741-3610

Surveyor: Jay Carroll

Red Hills West 22 CN Federal Com No. 001H / API 30-025-40607

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.24	355.07	100.00	0.21	-0.02	0.21	0.21	355.07	0.24
200.00	0.11	165.20	200.00	0.32	-0.01	0.32	0.32	358.11	0.35
300.00	0.48	35.60	300.00	0.56	0.26	0.56	0.62	24.54	0.56
400.00	0.96	38.52	399.99	1.55	1.02	1.55	1.86	33.26	0.48
500.00	1.01	36.71	499.98	2.91	2.07	2.91	3.57	35.34	0.06
600.00	1.05	40.07	599.96	4.32	3.18	4.32	5.37	36.37	0.07
700.00	1.30	32.67	699.94	5.98	4.39	5.98	7.42	36.26	0.29
800.00	1.74	36.66	799.90	8.15	5.90	8.15	10.06	35.92	0.45
900.00	1.14	29.21	899.87	10.24	7.29	10.24	12.57	35.48	0.62
1000.00	1.57	41.09	999.84	12.13	8.68	12.13	14.92	35.58	0.51
1100.00	1.39	43.50	1099.81	14.05	10.41	14.05	17.49	36.55	0.19
1200.00	1.36	55.25	1199.78	15.60	12.23	15.60	19.82	38.08	0.28
1300.00	1.43	60.19	1299.75	16.90	14.29	16.90	22.13	40.20	0.14
1400.00	0.82	63.22	1399.73	17.85	16.01	17.85	23.97	41.89	0.61
1500.00	0.61	94.87	1499.72	18.12	17.18	18.12	24.97	43.47	0.44
1600.00	0.60	130.76	1599.72	17.74	18.10	17.74	25.34	45.59	0.37
1700.00	0.62	148.72	1699.71	16.93	18.78	16.93	25.29	47.96	0.19
1800.00	0.30	198.18	1799.71	16.22	18.98	16.22	24.97	49.49	0.48

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.27	179.10	1899.71	15.73	18.90	15.73	24.59	50.23	0.10
2000.00	0.96	199.85	1999.70	14.71	18.62	14.71	23.73	51.69	0.72
2100.00	1.02	216.15	2099.69	13.20	17.81	13.20	22.17	53.45	0.29
2200.00	0.32	235.21	2199.68	12.32	17.05	12.32	21.04	54.15	0.72
2300.00	1.08	216.28	2299.67	11.40	16.26	11.40	19.86	54.97	0.78
2400.00	0.86	234.23	2399.66	10.20	15.10	10.20	18.22	55.95	0.37
2500.00	1.15	225.68	2499.64	9.06	13.77	9.06	16.49	56.65	0.32
2600.00	1.35	241.14	2599.62	7.80	12.02	7.80	14.33	57.04	0.39
2700.00	1.19	263.95	2699.60	7.12	9.96	7.12	12.24	54.45	0.53
2800.00	0.78	275.27	2799.58	7.07	8.25	7.07	10.87	49.40	0.45
2900.00	1.01	243.36	2899.57	6.74	6.78	6.74	9.56	45.17	0.54
3000.00	0.98	199.12	2999.56	5.54	5.71	5.54	7.95	45.89	0.75
3100.00	0.16	112.67	3099.55	4.68	5.56	4.68	7.26	49.91	0.98
3200.00	1.55	99.87	3199.54	4.39	7.02	4.39	8.28	57.95	1.40
3300.00	2.27	81.07	3299.48	4.47	10.30	4.47	11.23	66.56	0.94
3400.00	2.72	73.55	3399.39	5.45	14.53	5.45	15.52	69.46	0.56
3500.00	3.16	60.47	3499.26	7.48	19.20	7.48	20.61	68.73	0.80
3600.00	2.53	47.73	3599.13	10.32	23.24	10.32	25.42	66.05	0.89
3700.00	2.56	38.28	3699.04	13.56	26.25	13.56	29.55	62.68	0.42
3800.00	2.62	41.88	3798.93	17.02	29.16	17.02	33.77	59.74	0.17
3900.00	2.66	56.55	3898.83	20.00	32.62	20.00	38.27	58.49	0.67
4000.00	1.75	60.79	3998.75	22.02	35.89	22.02	42.11	58.47	0.92
4100.00	2.36	82.26	4098.69	23.04	39.26	23.04	45.52	59.59	0.97
4200.00	2.71	101.38	4198.59	22.85	43.62	22.85	49.24	62.35	0.91
4300.00	2.42	109.49	4298.49	21.68	47.93	21.68	52.60	65.66	0.47
4400.00	1.88	88.86	4398.42	21.01	51.56	21.01	55.67	67.83	0.93
4500.00	0.80	84.78	4498.40	21.10	53.89	21.10	57.88	68.61	1.09
4600.00	0.91	78.60	4598.38	21.32	55.36	21.32	59.33	68.93	0.15
4700.00	0.16	69.87	4698.38	21.53	56.27	21.53	60.25	69.06	0.75
4800.00	0.78	28.82	4798.38	22.17	56.73	22.17	60.91	68.65	0.67
4900.00	0.67	50.46	4898.37	23.14	57.51	23.14	61.99	68.08	0.29
5000.00	0.27	336.02	4998.37	23.72	57.86	23.72	62.54	67.71	0.65
5100.00	0.16	4.81	5098.36	24.08	57.78	24.08	62.59	67.37	0.15
5200.00	0.32	51.59	5198.36	24.40	58.01	24.40	62.93	67.19	0.24
5300.00	0.27	48.66	5298.36	24.72	58.40	24.72	63.42	67.06	0.06
5400.00	0.25	36.04	5398.36	25.05	58.71	25.05	63.83	66.89	0.06
5500.00	0.19	48.93	5498.36	25.33	58.96	25.33	64.17	66.75	0.08
5600.00	0.06	163.94	5598.36	25.39	59.09	25.39	64.32	66.75	0.22
5700.00	0.20	306.50	5698.36	25.45	58.97	25.45	64.23	66.66	0.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.33	273.55	5798.36	25.57	58.54	25.57	63.88	66.40	0.20
5900.00	0.59	247.61	5898.36	25.39	57.78	25.39	63.11	66.27	0.32
6000.00	0.66	281.17	5998.35	25.31	56.74	25.31	62.13	65.96	0.36
6100.00	1.14	281.93	6098.34	25.63	55.21	25.63	60.87	65.10	0.48
6200.00	0.45	299.13	6198.33	26.02	53.90	26.02	59.85	64.23	0.72
6300.00	0.52	299.10	6298.32	26.43	53.16	26.43	59.37	63.56	0.08
6400.00	0.44	285.72	6398.32	26.76	52.38	26.76	58.82	62.94	0.14
6500.00	0.43	188.97	6498.32	26.50	51.95	26.50	58.32	62.98	0.65
6600.00	0.39	178.84	6598.32	25.79	51.90	25.79	57.95	63.58	0.08
6700.00	0.27	275.65	6698.32	25.47	51.67	25.47	57.61	63.76	0.50
6800.00	0.51	229.54	6798.31	25.21	51.11	25.21	56.99	63.75	0.37
6900.00	0.57	200.39	6898.31	24.46	50.60	24.46	56.20	64.21	0.28
7000.00	0.68	203.59	6998.30	23.44	50.19	23.44	55.39	64.96	0.12
7100.00	0.73	198.27	7098.30	22.30	49.75	22.30	54.52	65.86	0.08
7200.00	1.02	180.25	7198.28	20.81	49.55	20.81	53.74	67.22	0.40
7300.00	0.57	214.48	7298.27	19.51	49.27	19.51	52.99	68.39	0.64
7400.00	0.40	200.98	7398.27	18.78	48.86	18.78	52.35	68.98	0.20
7500.00	0.47	197.85	7498.27	18.07	48.61	18.07	51.86	69.61	0.07
7600.00	1.11	209.79	7598.26	16.84	48.01	16.84	50.87	70.67	0.66
7700.00	0.87	205.83	7698.24	15.31	47.19	15.31	49.62	72.02	0.25
7800.00	0.95	210.58	7798.23	13.92	46.44	13.92	48.48	73.32	0.11
7900.00	0.86	197.27	7898.22	12.49	45.80	12.49	47.47	74.75	0.23
8000.00	1.29	200.91	7998.20	10.72	45.17	10.72	46.43	76.65	0.44
8100.00	1.43	178.17	8098.17	8.41	44.81	8.41	45.59	79.37	0.56
8200.00	1.76	196.86	8198.13	5.69	44.40	5.69	44.77	82.70	0.61
8249.00	1.63	208.89	8247.11	4.36	43.85	4.36	44.06	84.32	0.77

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys Original Hole
Page 1

Job#: 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° (feet)	Az Grid Y	NAD27 NM East gr elev=3149 Grid X	RKB=3169 Comments
Surface Location								377122.75	707577.79	150 FNL 2310 FWL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	377122.75	707577.79	Gyro
100.00	0.24	355.07	100.00	0.21	-0.02	0.24	-0.21	377122.96	707577.77	
200.00	0.11	165.20	200.00	0.32	-0.01	0.35	-0.32	377123.07	707577.78	
300.00	0.48	35.60	300.00	0.57	0.26	0.56	-0.57	377123.32	707578.05	
400.00	0.96	38.52	399.99	1.57	1.02	0.48	-1.57	377124.32	707578.81	
500.00	1.01	36.71	499.98	2.93	2.07	0.06	-2.93	377125.68	707579.86	
600.00	1.05	40.07	599.96	4.34	3.19	0.07	-4.34	377127.09	707580.98	
700.00	1.30	32.67	699.94	5.99	4.39	0.29	-5.99	377128.74	707582.18	
800.00	1.74	36.66	799.90	8.17	5.91	0.45	-8.17	377130.92	707583.70	
900.00	1.14	29.21	899.87	10.25	7.30	0.63	-10.25	377133.00	707585.09	
1000.00	1.57	41.09	999.84	12.15	8.69	0.51	-12.15	377134.90	707586.48	
1100.00	1.39	43.50	1099.81	14.07	10.42	0.19	-14.07	377136.82	707588.21	
1200.00	1.36	55.25	1199.78	15.62	12.23	0.28	-15.62	377138.37	707590.02	
1300.00	1.43	60.19	1299.75	16.92	14.29	0.14	-16.92	377139.67	707592.08	
1400.00	0.82	63.22	1399.73	17.86	16.01	0.61	-17.86	377140.61	707593.80	
1500.00	0.61	94.87	1499.72	18.14	17.18	0.44	-18.14	377140.89	707594.97	
1600.00	0.60	130.76	1599.72	17.75	18.11	0.37	-17.75	377140.50	707595.90	
1700.00	0.62	148.72	1699.71	16.95	18.78	0.19	-16.95	377139.70	707596.57	
1800.00	0.30	198.18	1799.71	16.24	18.98	0.48	-16.24	377138.99	707596.77	
1900.00	0.27	179.10	1899.71	15.75	18.91	0.10	-15.75	377138.50	707596.70	
2000.00	0.96	199.85	1999.70	14.73	18.63	0.71	-14.73	377137.48	707596.42	
2100.00	1.02	216.15	2099.69	13.22	17.82	0.29	-13.22	377135.97	707595.61	
2200.00	0.32	235.21	2199.68	12.34	17.06	0.73	-12.34	377135.09	707594.85	
2300.00	1.08	216.28	2299.67	11.42	16.27	0.78	-11.42	377134.17	707594.06	
2400.00	0.86	234.23	2399.66	10.23	15.11	0.37	-10.23	377132.98	707592.90	
2500.00	1.15	225.68	2499.64	9.09	13.78	0.33	-9.09	377131.84	707591.57	
2600.00	1.35	241.14	2599.62	7.82	12.03	0.39	-7.82	377130.57	707589.82	
2700.00	1.19	263.95	2699.60	7.14	9.97	0.53	-7.14	377129.89	707587.76	
2800.00	0.78	275.27	2799.58	7.09	8.26	0.45	-7.09	377129.84	707586.05	
2900.00	1.01	243.36	2899.57	6.76	6.79	0.54	-6.76	377129.51	707584.58	

HOBBS OCD

OCT 31 2013

RECEIVED

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys Original Hole
Page 2

Job#: 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	NAD27 NM East gr elev=3149 RKB=3169 Grid X	Comments
3000.00	0.98	199.12	2999.56	5.56	5.72	0.75	-5.56	377128.31	707583.51	
3100.00	0.16	112.67	3099.55	4.69	5.57	0.98	-4.69	377127.44	707583.36	
3200.00	1.55	99.87	3199.54	4.41	7.03	1.39	-4.41	377127.16	707584.82	
3300.00	2.27	81.07	3299.48	4.48	10.32	0.95	-4.48	377127.23	707588.11	
3400.00	2.72	73.55	3399.39	5.46	14.55	0.56	-5.46	377128.21	707592.34	
3500.00	3.16	60.47	3499.26	7.49	19.23	0.80	-7.49	377130.24	707597.02	
3600.00	2.53	47.73	3599.13	10.34	23.26	0.89	-10.34	377133.09	707601.05	
3700.00	2.56	38.28	3699.03	13.57	26.28	0.42	-13.57	377136.32	707604.07	
3800.00	2.62	41.88	3798.93	17.03	29.19	0.17	-17.03	377139.78	707606.98	
3900.00	2.66	56.55	3898.83	20.01	32.65	0.68	-20.01	377142.76	707610.44	
4000.00	1.75	60.79	3998.75	22.03	35.92	0.92	-22.03	377144.78	707613.71	
4100.00	2.36	82.26	4098.69	23.06	39.29	0.97	-23.06	377145.81	707617.08	
4200.00	2.71	101.38	4198.59	22.87	43.65	0.91	-22.87	377145.62	707621.44	
4300.00	2.42	109.49	4298.49	21.70	47.95	0.46	-21.70	377144.45	707625.74	
4400.00	1.88	88.86	4398.42	21.03	51.59	0.94	-21.03	377143.78	707629.38	
4500.00	0.80	84.78	4498.40	21.12	53.92	1.08	-21.12	377143.87	707631.71	
4600.00	0.91	78.60	4598.38	21.34	55.39	0.14	-21.34	377144.09	707633.18	
4700.00	0.16	69.87	4698.38	21.55	56.30	0.75	-21.55	377144.30	707634.09	
4800.00	0.78	28.82	4798.38	22.19	56.76	0.67	-22.19	377144.94	707634.55	
4900.00	0.67	50.46	4898.37	23.16	57.54	0.29	-23.16	377145.91	707635.33	
5000.00	0.27	336.02	4998.36	23.75	57.90	0.65	-23.75	377146.50	707635.69	
5100.00	0.16	4.81	5098.36	24.10	57.81	0.15	-24.10	377146.85	707635.60	
5200.00	0.32	51.59	5198.36	24.41	58.04	0.24	-24.41	377147.16	707635.83	
5300.00	0.27	48.66	5298.36	24.74	58.44	0.05	-24.74	377147.49	707636.23	
5400.00	0.25	36.04	5398.36	25.08	58.74	0.06	-25.08	377147.83	707636.53	
5500.00	0.19	48.93	5498.36	25.36	59.00	0.08	-25.36	377148.11	707636.79	
5600.00	0.06	163.94	5598.36	25.42	59.14	0.22	-25.42	377148.17	707636.93	
5700.00	0.20	306.50	5698.36	25.47	59.01	0.25	-25.47	377148.22	707636.80	
5800.00	0.33	273.55	5798.36	25.59	58.58	0.20	-25.59	377148.34	707636.37	
5900.00	0.59	247.61	5898.36	25.42	57.82	0.33	-25.42	377148.17	707635.61	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys Original Hole
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Job# : 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	NAD27 NM East gr elev=3149 RKB=3169 Comments
6000.00	0.66	281.17	5998.35	25.33	56.78	0.37	-25.33	377148.08	707634.57	
6100.00	1.14	281.93	6098.34	25.65	55.24	0.48	-25.65	377148.40	707633.03	
6200.00	0.45	299.13	6198.33	26.05	53.92	0.72	-26.05	377148.80	707631.71	
6300.00	0.52	299.10	6298.32	26.46	53.19	0.07	-26.46	377149.21	707630.98	
6400.00	0.44	285.72	6398.32	26.78	52.42	0.14	-26.78	377149.53	707630.21	
6500.00	0.43	188.97	6498.32	26.52	51.99	0.65	-26.52	377149.27	707629.78	
6600.00	0.39	178.84	6598.32	25.81	51.94	0.08	-25.81	377148.56	707629.73	
6700.00	0.27	275.65	6698.31	25.49	51.71	0.50	-25.49	377148.24	707629.50	
6800.00	0.51	229.54	6798.31	25.22	51.14	0.38	-25.22	377147.97	707628.93	
6900.00	0.57	200.39	6898.31	24.47	50.63	0.28	-24.47	377147.22	707628.42	
7000.00	0.68	203.59	6998.30	23.46	50.22	0.12	-23.46	377146.21	707628.01	
7100.00	0.73	198.27	7098.29	22.31	49.78	0.08	-22.31	377145.06	707627.57	
7200.00	1.02	180.25	7198.28	20.81	49.58	0.40	-20.81	377143.56	707627.37	
7300.00	0.57	214.48	7298.27	19.51	49.29	0.64	-19.51	377142.26	707627.08	
7400.00	0.40	200.98	7398.27	18.78	48.88	0.20	-18.78	377141.53	707626.67	
7500.00	0.47	197.85	7498.27	18.06	48.63	0.07	-18.06	377140.81	707626.42	
7600.00	1.11	209.79	7598.26	16.83	48.03	0.66	-16.83	377139.58	707625.82	
7700.00	0.87	205.83	7698.24	15.31	47.21	0.25	-15.31	377138.06	707625.00	
7800.00	0.95	210.58	7798.23	13.91	46.46	0.11	-13.91	377136.66	707624.25	
7900.00	0.86	197.27	7898.22	12.48	45.82	0.23	-12.48	377135.23	707623.61	
8000.00	1.29	200.91	7998.20	10.71	45.19	0.44	-10.71	377133.46	707622.98	
8100.00	1.43	178.17	8098.17	8.41	44.83	0.55	-8.41	377131.16	707622.62	
8200.00	1.76	196.86	8198.13	5.70	44.42	0.61	-5.70	377128.45	707622.21	
8249.00	1.63	208.89	8247.11	4.36	43.87	0.77	-4.36	377127.11	707621.66	
8302.00	1.50	193.30	8300.09	3.03	43.35	0.84	-3.03	377125.78	707621.14	MWD surveys
8334.00	4.10	183.30	8332.05	1.48	43.18	8.24	-1.48	377124.23	707620.97	
8366.00	8.40	181.90	8363.85	-2.00	43.04	13.44	2.00	377120.75	707620.83	
8397.00	11.50	184.10	8394.38	-7.35	42.74	10.07	7.35	377115.40	707620.53	
8428.00	13.50	184.20	8424.65	-14.04	42.26	6.45	14.04	377108.71	707620.05	
8459.00	15.30	181.30	8454.67	-21.74	41.90	6.25	21.74	377101.01	707619.69	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys Original Hole

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Job# : 7361

NAD27 NM East gr elev=3149 RKB=3169

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
8491.00	17.70	178.60	8485.35	-30.82	41.92	7.87	30.82	377091.93	707619.71	
8524.00	19.80	176.90	8516.60	-41.42	42.35	6.57	41.42	377081.33	707620.14	
8556.00	21.80	175.40	8546.51	-52.76	43.12	6.47	52.76	377069.99	707620.91	
8587.00	24.20	176.00	8575.05	-64.83	44.02	7.78	64.83	377057.92	707621.81	
8620.00	26.40	177.20	8604.88	-78.91	44.85	6.85	78.91	377043.84	707622.64	
8651.00	29.10	179.20	8632.31	-93.33	45.30	9.21	93.33	377029.42	707623.09	
8683.00	31.80	181.40	8659.90	-109.55	45.20	9.13	109.55	377013.20	707622.99	
8715.00	34.10	183.00	8686.75	-126.94	44.52	7.68	126.94	376995.81	707622.31	
8747.00	36.00	183.20	8712.95	-145.29	43.53	5.95	145.29	376977.46	707621.32	
8778.00	37.90	182.50	8737.72	-163.90	42.60	6.28	163.90	376958.85	707620.39	
8810.00	40.10	182.50	8762.59	-184.01	41.73	6.87	184.01	376938.74	707619.52	
8842.00	43.30	183.10	8786.47	-205.27	40.68	10.08	205.27	376917.48	707618.47	
8874.00	46.80	183.20	8809.08	-227.88	39.44	10.94	227.88	376894.87	707617.23	
8905.00	50.10	183.30	8829.64	-251.04	38.12	10.65	251.04	376871.71	707615.91	
8937.00	52.40	183.00	8849.67	-275.96	36.75	7.22	275.96	376846.79	707614.54	
8969.00	54.50	182.60	8868.72	-301.63	35.50	6.64	301.63	376821.12	707613.29	
9000.00	56.90	180.70	8886.19	-327.23	34.77	9.25	327.23	376795.52	707612.56	
9032.00	58.20	180.10	8903.36	-354.23	34.58	4.36	354.23	376768.52	707612.37	
9077.00	61.70	179.80	8925.89	-393.18	34.61	7.80	393.18	376729.57	707612.40	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys ST
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Job#: 7361
NAD27 NM East gr elev=3149 RKB=3169

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
Surface Location										
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	377122.75	707577.79	150 FNL 2310 FWL
100.00	0.24	355.07	100.00	0.21	-0.02	0.24	-0.21	377122.96	707577.77	Gyro
200.00	0.11	165.20	200.00	0.32	-0.01	0.35	-0.32	377123.07	707577.78	
300.00	0.48	35.60	300.00	0.57	0.26	0.56	-0.57	377123.32	707578.05	
400.00	0.96	38.52	399.99	1.57	1.02	0.48	-1.57	377124.32	707578.81	
500.00	1.01	36.71	499.98	2.93	2.07	0.06	-2.93	377125.68	707579.86	
600.00	1.05	40.07	599.96	4.34	3.19	0.07	-4.34	377127.09	707580.98	
700.00	1.30	32.67	699.94	5.99	4.39	0.29	-5.99	377128.74	707582.18	
800.00	1.74	36.66	799.90	8.17	5.91	0.45	-8.17	377130.92	707583.70	
900.00	1.14	29.21	899.87	10.25	7.30	0.63	-10.25	377133.00	707585.09	
1000.00	1.57	41.09	999.84	12.15	8.69	0.51	-12.15	377134.90	707586.48	
1100.00	1.39	43.50	1099.81	14.07	10.42	0.19	-14.07	377136.82	707588.21	
1200.00	1.36	55.25	1199.78	15.62	12.23	0.28	-15.62	377138.37	707590.02	
1300.00	1.43	60.19	1299.75	16.92	14.29	0.14	-16.92	377139.67	707592.08	
1400.00	0.82	63.22	1399.73	17.86	16.01	0.61	-17.86	377140.61	707593.80	
1500.00	0.61	94.87	1499.72	18.14	17.18	0.44	-18.14	377140.89	707594.97	
1600.00	0.60	130.76	1599.72	17.75	18.11	0.37	-17.75	377140.50	707595.90	
1700.00	0.62	148.72	1699.71	16.95	18.78	0.19	-16.95	377139.70	707596.57	
1800.00	0.30	198.18	1799.71	16.24	18.98	0.48	-16.24	377138.99	707596.77	
1900.00	0.27	179.10	1899.71	15.75	18.91	0.10	-15.75	377138.50	707596.70	
2000.00	0.96	199.85	1999.70	14.73	18.63	0.71	-14.73	377137.48	707596.42	
2100.00	1.02	216.15	2099.69	13.22	17.82	0.29	-13.22	377135.97	707595.61	
2200.00	0.32	235.21	2199.68	12.34	17.06	0.73	-12.34	377135.09	707594.85	
2300.00	1.08	216.28	2299.67	11.42	16.27	0.78	-11.42	377134.17	707594.06	
2400.00	0.86	234.23	2399.66	10.23	15.11	0.37	-10.23	377132.98	707592.90	
2500.00	1.15	225.68	2499.64	9.09	13.78	0.33	-9.09	377131.84	707591.57	
2600.00	1.35	241.14	2599.62	7.82	12.03	0.39	-7.82	377130.57	707589.82	
2700.00	1.19	263.95	2699.60	7.14	9.97	0.53	-7.14	377129.89	707587.76	
2800.00	0.78	275.27	2799.58	7.09	8.26	0.45	-7.09	377129.84	707586.05	
2900.00	1.01	243.36	2899.57	6.76	6.79	0.54	-6.76	377129.51	707584.58	

HOBBS OCD

OCT 31 2013

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Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys ST
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Job# : 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
3000.00	0.98	199.12	2999.56	5.56	5.72	0.75	-5.56	377128.31	707583.51	
3100.00	0.16	112.67	3099.55	4.69	5.57	0.98	-4.69	377127.44	707583.36	
3200.00	1.55	99.87	3199.54	4.41	7.03	1.39	-4.41	377127.16	707584.82	
3300.00	2.27	81.07	3299.48	4.48	10.32	0.95	-4.48	377127.23	707588.11	
3400.00	2.72	73.55	3399.39	5.46	14.55	0.56	-5.46	377128.21	707592.34	
3500.00	3.16	60.47	3499.26	7.49	19.23	0.80	-7.49	377130.24	707597.02	
3600.00	2.53	47.73	3599.13	10.34	23.26	0.89	-10.34	377133.09	707601.05	
3700.00	2.56	38.28	3699.03	13.57	26.28	0.42	-13.57	377136.32	707604.07	
3800.00	2.62	41.88	3798.93	17.03	29.19	0.17	-17.03	377139.78	707606.98	
3900.00	2.66	56.55	3898.83	20.01	32.65	0.68	-20.01	377142.76	707610.44	
4000.00	1.75	60.79	3998.75	22.03	35.92	0.92	-22.03	377144.78	707613.71	
4100.00	2.36	82.26	4098.69	23.06	39.29	0.97	-23.06	377145.81	707617.08	
4200.00	2.71	101.38	4198.59	22.87	43.65	0.91	-22.87	377145.62	707621.44	
4300.00	2.42	109.49	4298.49	21.70	47.95	0.46	-21.70	377144.45	707625.74	
4400.00	1.88	88.86	4398.42	21.03	51.59	0.94	-21.03	377143.78	707629.38	
4500.00	0.80	84.78	4498.40	21.12	53.92	1.08	-21.12	377143.87	707631.71	
4600.00	0.91	78.60	4598.38	21.34	55.39	0.14	-21.34	377144.09	707633.18	
4700.00	0.16	69.87	4698.38	21.55	56.30	0.75	-21.55	377144.30	707634.09	
4800.00	0.78	28.82	4798.38	22.19	56.76	0.67	-22.19	377144.94	707634.55	
4900.00	0.67	50.46	4898.37	23.16	57.54	0.29	-23.16	377145.91	707635.33	
5000.00	0.27	336.02	4998.36	23.75	57.90	0.65	-23.75	377146.50	707635.69	
5100.00	0.16	4.81	5098.36	24.10	57.81	0.15	-24.10	377146.85	707635.60	
5200.00	0.32	51.59	5198.36	24.41	58.04	0.24	-24.41	377147.16	707635.83	
5300.00	0.27	48.66	5298.36	24.74	58.44	0.05	-24.74	377147.49	707636.23	
5400.00	0.25	36.04	5398.36	25.08	58.74	0.06	-25.08	377147.83	707636.53	
5500.00	0.19	48.93	5498.36	25.36	59.00	0.08	-25.36	377148.11	707636.79	
5600.00	0.06	163.94	5598.36	25.42	59.14	0.22	-25.42	377148.17	707636.93	
5700.00	0.20	306.50	5698.36	25.47	59.01	0.25	-25.47	377148.22	707636.80	
5800.00	0.33	273.55	5798.36	25.59	58.58	0.20	-25.59	377148.34	707636.37	
5900.00	0.59	247.61	5898.36	25.42	57.82	0.33	-25.42	377148.17	707635.61	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys ST
Page 3
Job# : 7361
NAD27 NM East gr elev=3149 RKB=3169

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
6000.00	0.66	281.17	5998.35	25.33	56.78	0.37	-25.33	377148.08	707634.57	
6100.00	1.14	281.93	6098.34	25.65	55.24	0.48	-25.65	377148.40	707633.03	
6200.00	0.45	299.13	6198.33	26.05	53.92	0.72	-26.05	377148.80	707631.71	
6300.00	0.52	299.10	6298.32	26.46	53.19	0.07	-26.46	377149.21	707630.98	
6400.00	0.44	285.72	6398.32	26.78	52.42	0.14	-26.78	377149.53	707630.21	
6500.00	0.43	188.97	6498.32	26.52	51.99	0.65	-26.52	377149.27	707629.78	
6600.00	0.39	178.84	6598.32	25.81	51.94	0.08	-25.81	377148.56	707629.73	
6700.00	0.27	275.65	6698.31	25.49	51.71	0.50	-25.49	377148.24	707629.50	
6800.00	0.51	229.54	6798.31	25.22	51.14	0.38	-25.22	377147.97	707628.93	
6900.00	0.57	200.39	6898.31	24.47	50.63	0.28	-24.47	377147.22	707628.42	
7000.00	0.68	203.59	6998.30	23.46	50.22	0.12	-23.46	377146.21	707628.01	
7100.00	0.73	198.27	7098.29	22.31	49.78	0.08	-22.31	377145.06	707627.57	
7200.00	1.02	180.25	7198.28	20.81	49.58	0.40	-20.81	377143.56	707627.37	
7300.00	0.57	214.48	7298.27	19.51	49.29	0.64	-19.51	377142.26	707627.08	
7400.00	0.40	200.98	7398.27	18.78	48.88	0.20	-18.78	377141.53	707626.67	
7500.00	0.47	197.85	7498.27	18.06	48.63	0.07	-18.06	377140.81	707626.42	
7600.00	1.11	209.79	7598.26	16.83	48.03	0.66	-16.83	377139.58	707625.82	
7700.00	0.87	205.83	7698.24	15.31	47.21	0.25	-15.31	377138.06	707625.00	
7800.00	0.95	210.58	7798.23	13.91	46.46	0.11	-13.91	377136.66	707624.25	
7900.00	0.86	197.27	7898.22	12.48	45.82	0.23	-12.48	377135.23	707623.61	
8000.00	1.29	200.91	7998.20	10.71	45.19	0.44	-10.71	377133.46	707622.98	
8100.00	1.43	178.17	8098.17	8.41	44.83	0.55	-8.41	377131.16	707622.62	
8200.00	1.76	196.86	8198.13	5.70	44.42	0.61	-5.70	377128.45	707622.21	
8249.00	1.63	208.89	8247.11	4.36	43.87	0.77	-4.36	377127.11	707621.66	
8302.00	1.50	193.30	8300.09	3.03	43.35	0.84	-3.03	377125.78	707621.14	MWD surveys
8334.00	4.10	183.30	8332.05	1.48	43.18	8.24	-1.48	377124.23	707620.97	
8366.00	8.40	181.90	8363.85	-2.00	43.04	13.44	2.00	377120.75	707620.83	
8397.00	11.50	184.10	8394.38	-7.35	42.74	10.07	7.35	377115.40	707620.53	
8428.00	13.50	184.20	8424.65	-14.04	42.26	6.45	14.04	377108.71	707620.05	
8459.00	15.30	181.30	8454.67	-21.74	41.90	6.25	21.74	377101.01	707619.69	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
Surveys ST
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Job# : 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
8491.00	17.70	178.60	8485.35	-30.82	41.92	7.87	30.82	377091.93	707619.71	
8524.00	19.80	176.90	8516.60	-41.42	42.35	6.57	41.42	377081.33	707620.14	
8556.00	21.80	175.40	8546.51	-52.76	43.12	6.47	52.76	377069.99	707620.91	
8587.00	24.20	176.00	8575.05	-64.83	44.02	7.78	64.83	377057.92	707621.81	
8620.00	26.40	177.20	8604.88	-78.91	44.85	6.85	78.91	377043.84	707622.64	
8651.00	29.10	179.20	8632.31	-93.33	45.30	9.21	93.33	377029.42	707623.09	
8683.00	31.80	181.40	8659.90	-109.55	45.20	9.13	109.55	377013.20	707622.99	
8715.00	34.10	183.00	8686.75	-126.94	44.52	7.68	126.94	376995.81	707622.31	
8747.00	36.00	183.20	8712.95	-145.29	43.53	5.95	145.29	376977.46	707621.32	
8778.00	37.90	182.50	8737.72	-163.90	42.60	6.28	163.90	376958.85	707620.39	
8810.00	40.10	182.50	8762.59	-184.01	41.73	6.87	184.01	376938.74	707619.52	
8842.00	43.30	183.10	8786.47	-205.27	40.68	10.08	205.27	376917.48	707618.47	Tie into original hole
8874.00	39.40	188.70	8810.50	-226.28	38.55	16.79	226.28	376896.47	707616.34	
8905.00	37.30	191.20	8834.81	-245.23	35.24	8.42	245.23	376877.52	707613.03	
8937.00	36.50	192.50	8860.40	-264.03	31.29	3.49	264.03	376858.72	707609.08	
8968.00	37.40	192.00	8885.18	-282.24	27.34	3.06	282.24	376840.51	707605.13	
9000.00	40.00	189.60	8910.15	-301.89	23.61	9.38	301.89	376820.86	707601.40	
9032.00	41.60	192.10	8934.37	-322.42	19.66	7.14	322.42	376800.33	707597.45	
9064.00	45.90	189.20	8957.49	-344.16	15.60	14.82	344.16	376778.59	707593.39	
9096.00	50.60	186.50	8978.79	-367.80	12.36	15.98	367.80	376754.95	707590.15	
9127.00	54.90	184.70	8997.55	-392.36	9.96	14.62	392.36	376730.39	707587.75	
9159.00	58.90	184.60	9015.02	-419.07	7.79	12.50	419.07	376703.68	707585.58	
9191.00	63.60	183.50	9030.41	-447.05	5.81	14.99	447.05	376675.70	707583.60	
9223.00	68.70	181.10	9043.35	-476.28	4.65	17.35	476.28	376646.47	707582.44	
9254.00	73.70	180.10	9053.33	-505.61	4.35	16.42	505.61	376617.14	707582.14	
9286.00	79.20	182.20	9060.83	-536.70	3.72	18.33	536.70	376586.05	707581.51	
9318.00	84.20	184.10	9065.45	-568.31	1.98	16.69	568.31	376554.44	707579.77	
9349.00	89.80	184.60	9067.07	-599.16	-0.37	18.14	599.16	376523.59	707577.42	
9377.00	92.20	185.40	9066.58	-627.05	-2.81	9.03	627.05	376495.70	707574.98	
9408.00	92.50	185.50	9065.31	-657.88	-5.75	1.02	657.88	376464.87	707572.04	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
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NAD27 NM East gr elev=3149 RKB=3169

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
9440.00	93.20	185.10	9063.72	-689.71	-8.71	2.52	689.71	376433.04	707569.08	
9472.00	94.50	185.30	9061.57	-721.50	-11.60	4.11	721.50	376401.25	707566.19	
9504.00	95.10	185.90	9058.89	-753.24	-14.71	2.65	753.24	376369.51	707563.08	
9535.00	95.40	186.10	9056.06	-783.94	-17.94	1.16	783.94	376338.81	707559.85	
9567.00	95.60	186.60	9052.99	-815.60	-21.46	1.68	815.60	376307.15	707556.33	
9599.00	94.20	186.10	9050.26	-847.28	-24.99	4.64	847.28	376275.47	707552.80	
9630.00	92.30	184.80	9048.50	-878.09	-27.93	7.42	878.09	376244.66	707549.86	
9662.00	91.60	183.50	9047.41	-909.99	-30.24	4.61	909.99	376212.76	707547.55	
9694.00	91.70	182.70	9046.49	-941.93	-31.97	2.52	941.93	376180.82	707545.82	
9726.00	92.10	182.50	9045.43	-973.88	-33.42	1.40	973.88	376148.87	707544.37	
9758.00	92.20	182.30	9044.23	-1005.83	-34.76	0.70	1005.83	376116.92	707543.03	
9789.00	92.60	182.10	9042.93	-1036.78	-35.95	1.44	1036.78	376085.97	707541.84	
9821.00	92.80	181.40	9041.42	-1068.73	-36.92	2.27	1068.73	376054.02	707540.87	
9853.00	93.20	181.30	9039.75	-1100.67	-37.68	1.29	1100.67	376022.08	707540.11	
9884.00	93.50	181.30	9037.93	-1131.61	-38.38	0.97	1131.61	375991.14	707539.41	
9915.00	93.90	181.80	9035.93	-1162.54	-39.22	2.06	1162.54	375960.21	707538.57	
9947.00	94.10	182.20	9033.70	-1194.44	-40.33	1.39	1194.44	375928.31	707537.46	
9979.00	93.70	181.20	9031.53	-1226.35	-41.28	3.36	1226.35	375896.40	707536.51	
10010.00	94.20	180.80	9029.39	-1257.27	-41.82	2.06	1257.27	375865.48	707535.97	
10042.00	94.90	180.40	9026.85	-1289.17	-42.15	2.52	1289.17	375833.58	707535.64	
10074.00	95.30	180.60	9024.01	-1321.04	-42.43	1.40	1321.04	375801.71	707535.36	
10106.00	94.00	180.30	9021.41	-1352.93	-42.68	4.17	1352.93	375769.82	707535.11	
10137.00	93.10	180.10	9019.49	-1383.87	-42.79	2.97	1383.87	375738.88	707535.00	
10169.00	93.40	180.00	9017.68	-1415.82	-42.82	0.99	1415.82	375706.93	707534.97	
10201.00	93.80	179.60	9015.67	-1447.76	-42.70	1.77	1447.76	375674.99	707535.09	
10232.00	92.00	178.90	9014.10	-1478.71	-42.30	6.23	1478.71	375644.04	707535.49	
10264.00	89.60	178.70	9013.65	-1510.70	-41.63	7.53	1510.70	375612.05	707536.16	
10296.00	89.60	178.40	9013.88	-1542.69	-40.82	0.94	1542.69	375580.06	707536.97	
10328.00	89.60	177.30	9014.10	-1574.67	-39.62	3.44	1574.67	375548.08	707538.17	
10359.00	90.20	177.40	9014.16	-1605.63	-38.19	1.96	1605.63	375517.12	707539.60	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
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Job# : 7361
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MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
10391.00	90.20	178.20	9014.04	-1637.61	-36.96	2.50	1637.61	375485.14	707540.83	
10454.00	90.90	178.00	9013.44	-1700.57	-34.87	1.16	1700.57	375422.18	707542.92	
10518.00	91.30	177.60	9012.21	-1764.51	-32.41	0.88	1764.51	375358.24	707545.38	
10581.00	91.50	177.00	9010.67	-1827.42	-29.45	1.00	1827.42	375295.33	707548.34	
10645.00	92.00	178.20	9008.72	-1891.34	-26.77	2.03	1891.34	375231.41	707551.02	
10708.00	89.70	179.10	9007.78	-1954.31	-25.28	3.92	1954.31	375168.44	707552.51	
10771.00	90.90	179.60	9007.45	-2017.30	-24.57	2.06	2017.30	375105.45	707553.22	
10835.00	89.80	180.20	9007.06	-2081.30	-24.46	1.96	2081.30	375041.45	707553.33	
10899.00	89.20	178.90	9007.62	-2145.29	-23.95	2.24	2145.29	374977.46	707553.84	
10962.00	88.50	179.90	9008.88	-2208.28	-23.29	1.94	2208.28	374914.47	707554.50	
11025.00	90.20	180.30	9009.60	-2271.27	-23.40	2.77	2271.27	374851.48	707554.39	
11089.00	89.00	178.30	9010.05	-2335.26	-22.62	3.64	2335.26	374787.49	707555.17	
11152.00	88.60	179.00	9011.36	-2398.23	-21.14	1.28	2398.23	374724.52	707556.65	
11216.00	89.20	179.10	9012.59	-2462.21	-20.08	0.95	2462.21	374660.54	707557.71	
11279.00	91.20	180.90	9012.37	-2525.20	-20.08	4.27	2525.20	374597.55	707557.71	
11343.00	91.90	180.80	9010.64	-2589.17	-21.03	1.10	2589.17	374533.58	707556.76	
11406.00	92.90	181.20	9008.00	-2652.10	-22.12	1.71	2652.10	374470.65	707555.67	
11470.00	91.70	181.20	9005.44	-2716.04	-23.46	1.87	2716.04	374406.71	707554.33	
11533.00	89.30	181.70	9004.89	-2779.01	-25.06	3.89	2779.01	374343.74	707552.73	
11597.00	90.10	182.30	9005.22	-2842.97	-27.29	1.56	2842.97	374279.78	707550.50	
11661.00	89.40	183.80	9005.50	-2906.87	-30.70	2.59	2906.87	374215.88	707547.09	
11724.00	88.10	184.70	9006.87	-2969.68	-35.36	2.51	2969.68	374153.07	707542.43	
11787.00	86.50	183.30	9009.84	-3032.46	-39.75	3.37	3032.46	374090.29	707538.04	
11851.00	86.40	181.00	9013.81	-3096.28	-42.15	3.59	3096.28	374026.47	707535.64	
11914.00	89.60	181.50	9016.00	-3159.22	-43.52	5.14	3159.22	373963.53	707534.27	
11978.00	91.60	181.60	9015.33	-3223.19	-45.26	3.13	3223.19	373899.56	707532.53	
12041.00	92.00	182.10	9013.36	-3286.13	-47.29	1.02	3286.13	373836.62	707530.50	
12104.00	90.90	181.60	9011.76	-3349.07	-49.32	1.92	3349.07	373773.68	707528.47	
12168.00	90.70	181.10	9010.87	-3413.05	-50.83	0.84	3413.05	373709.70	707526.96	
12231.00	90.20	178.60	9010.37	-3476.04	-50.66	4.05	3476.04	373646.71	707527.13	

Rolfson Oilfield Services, Inc.

Company: Mewbourne Oil Company
Well: Red Hills West 22 CN Fed Com Well 1H
Location: Lea County, New Mexico Sect22-26S-32E

Date: 16-Aug-2013
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Job#: 7361

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Grid Y	Grid X	Comments
12295.00	90.20	179.60	9010.15	-3540.03	-49.66	1.56	3540.03	373582.72	707528.13	
12358.00	89.60	178.50	9010.26	-3603.02	-48.61	1.99	3603.02	373519.73	707529.18	
12422.00	89.70	178.60	9010.65	-3667.00	-46.99	0.22	3667.00	373455.75	707530.80	
12485.00	90.30	179.00	9010.65	-3729.99	-45.68	1.14	3729.99	373392.76	707532.11	
12548.00	90.80	178.50	9010.05	-3792.97	-44.30	1.12	3792.97	373329.78	707533.49	
12612.00	89.70	177.50	9009.77	-3856.93	-42.07	2.32	3856.93	373265.82	707535.72	
12675.00	88.40	178.50	9010.81	-3919.88	-39.87	2.60	3919.88	373202.87	707537.92	
12739.00	88.70	179.10	9012.43	-3983.84	-38.53	1.05	3983.84	373138.91	707539.26	
12800.00	90.50	180.30	9012.86	-4044.84	-38.21	3.55	4044.84	373077.91	707539.58	
12864.00	90.60	179.00	9012.24	-4108.83	-37.82	2.04	4108.83	373013.92	707539.97	
12927.00	89.90	178.40	9011.97	-4171.82	-36.39	1.46	4171.82	372950.93	707541.40	
12990.00	90.40	180.20	9011.80	-4234.81	-35.62	2.97	4234.81	372887.94	707542.17	
13054.00	90.70	180.30	9011.19	-4298.80	-35.90	0.49	4298.80	372823.95	707541.89	
13117.00	90.00	179.50	9010.80	-4361.80	-35.79	1.69	4361.80	372760.95	707542.00	
13180.00	90.40	179.20	9010.58	-4424.80	-35.07	0.79	4424.80	372697.95	707542.72	
13243.00	90.30	178.50	9010.20	-4487.78	-33.81	1.12	4487.78	372634.97	707543.98	
13305.00	90.50	178.80	9009.77	-4549.76	-32.35	0.58	4549.76	372572.99	707545.44	
13368.00	90.40	179.00	9009.27	-4612.75	-31.14	0.35	4612.75	372510.00	707546.65	
13431.00	91.30	179.60	9008.34	-4675.74	-30.37	1.72	4675.74	372447.01	707547.42	
13495.00	90.90	180.20	9007.11	-4739.73	-30.26	1.13	4739.73	372383.02	707547.53	
13558.00	90.30	180.40	9006.45	-4802.72	-30.59	1.00	4802.72	372320.03	707547.20	
13563.00	90.30	180.40	9006.42	-4807.72	-30.62	0.00	4807.72	372315.03	707547.17	
13615.00	90.30	180.40	9006.15	-4859.72	-30.99	0.00	4859.72	372263.03	707546.80	Survey projected

Mewbourne Oil Company

Red Hills West 22 CN Fed Com Well 1H

Lea County, New Mexico

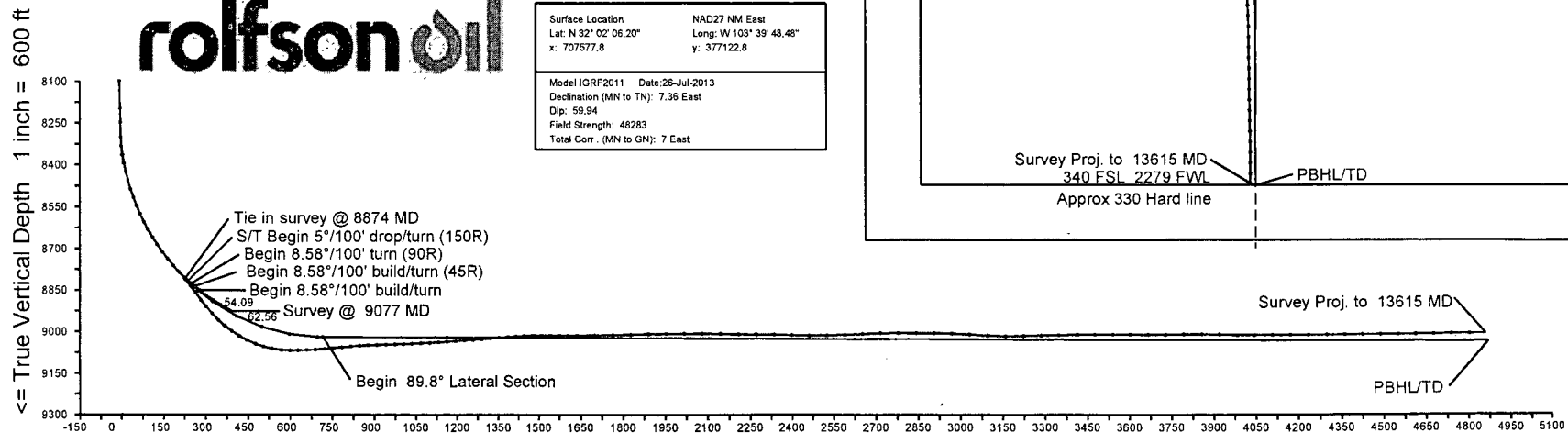
WELL PROFILE DATA rev3							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
8874	46.80	183.20	8809	-228	39	0.00	Tie in survey @ 8874 MD
8887	48.18	183.24	8818	-237	39	10.62	S/T Begin 5°/100' drop/turn (150R)
8902	47.53	183.75	8828	-249	38	5.00	Begin 8.58°/100' turn (90R)
8917	47.54	185.49	8838	-260	37	8.58	Begin 8.58°/100' build/turn (45R)
8937	48.77	187.11	8851	-274	36	8.58	Begin 8.58°/100' build/turn
9421	89.80	180.16	9019	-716	11	8.58	Begin 89.8° Lateral Section
13575	89.80	180.16	9034	-4870	0	0.00	PBHL/TD

WELL PROFILE DATA svyoh							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
9077	61.70	179.80	8926	-393	35	7.80	Survey @ 9077 MD

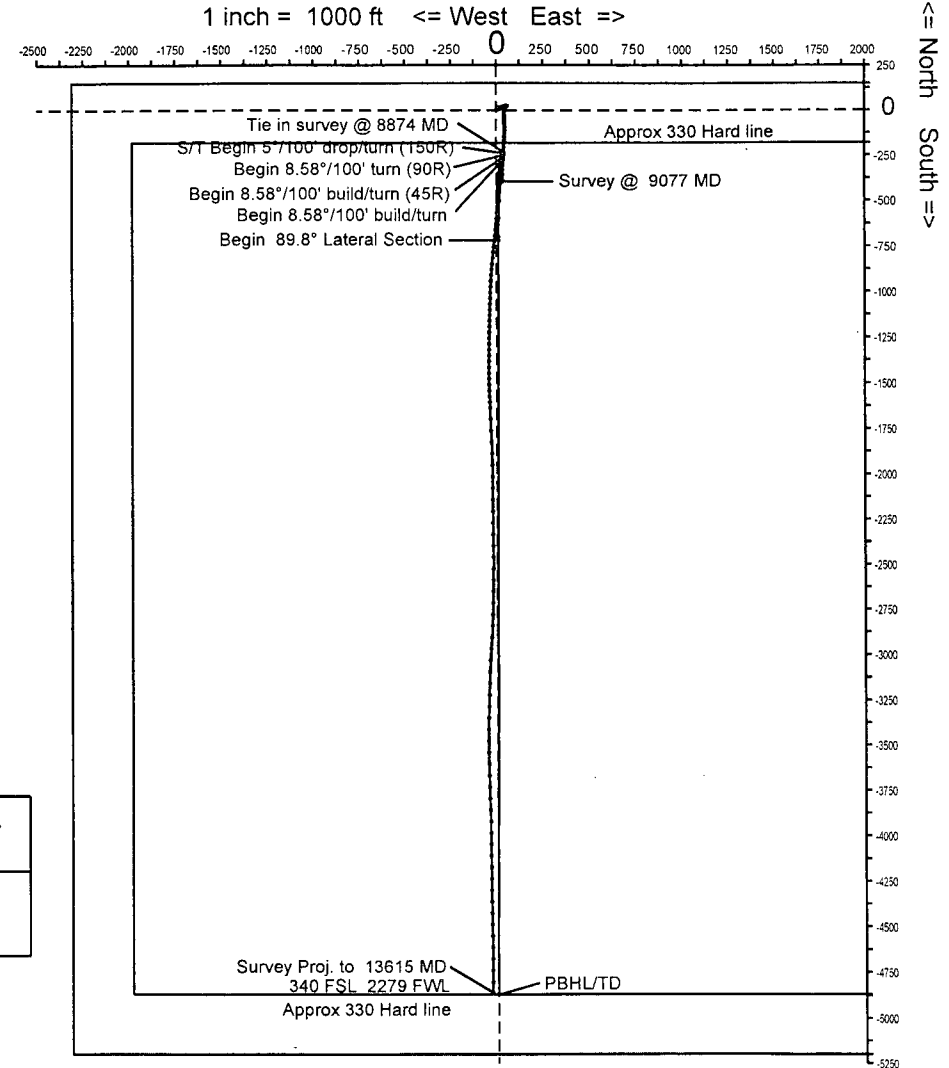
WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
13615	90.30	180.40	9006	-4660	-31	0.00	Survey Proj. to 13615 MD

rolfson oil

Surface Location	NAD27 NM East
Lat: N 32° 02' 06.20"	Long: W 103° 39' 48.48"
x: 707577.8	y: 377122.8
Model IGRF2011	Date: 26-Jul-2013
Declination (MN to TN): 7.36 East	
Dip: 59.94	
Field Strength: 48283	
Total Corr. (MN to GN): 7 East	



Vertical Section on 180 deg azimuth with reference 0.00 N, 0.00 E



Survey Proj. to 13615 MD

PBHL/TD