

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	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	

30-025-40607

Rolfson Oilfield Services, Inc.

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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
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	

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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° (feet)	Az Grid Y	NAD27 NM East gr elev=3149 RKB=3169 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	

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Company: Mewbourne Oil Company
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Location: Lea County, New Mexico Sect22-26S-32E

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Surveys: Original Hole
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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	NAD27 NM East gr elev=3149' RKB=3169 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	

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

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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
Surface Location									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	

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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

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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
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

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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
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

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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

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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	NAD27 NM East gr elev=3149 RKB=3169 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

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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
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

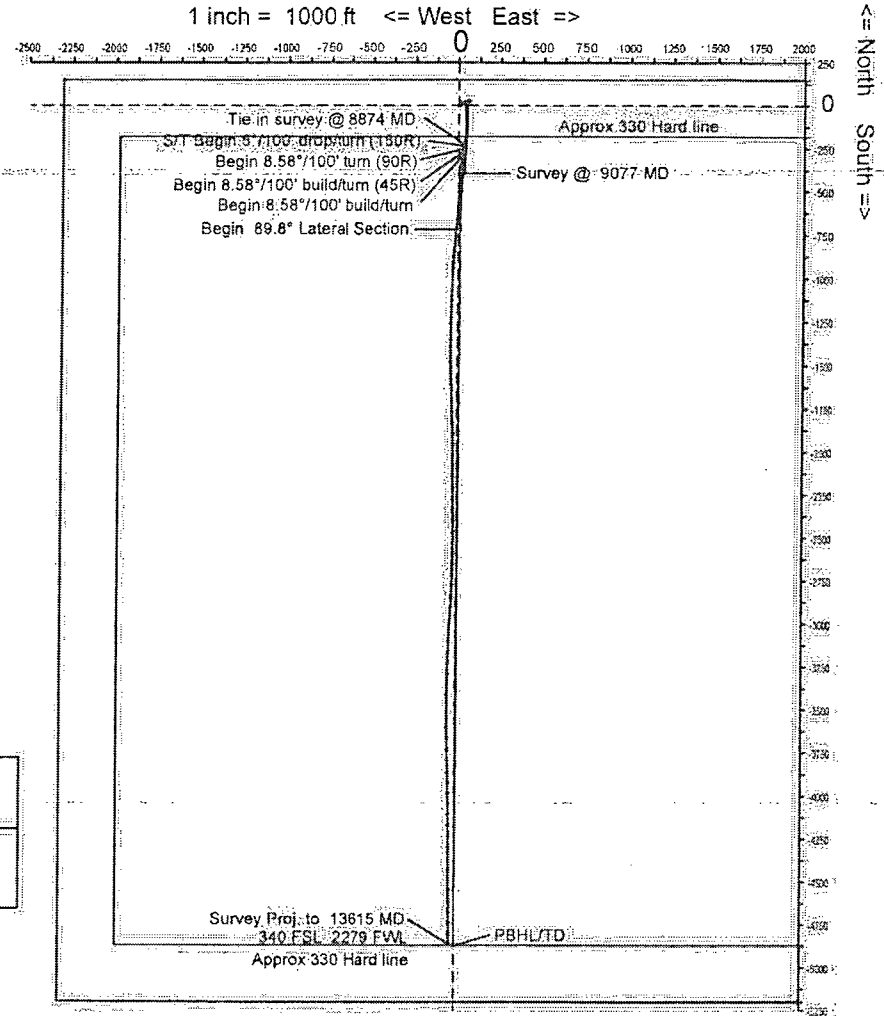
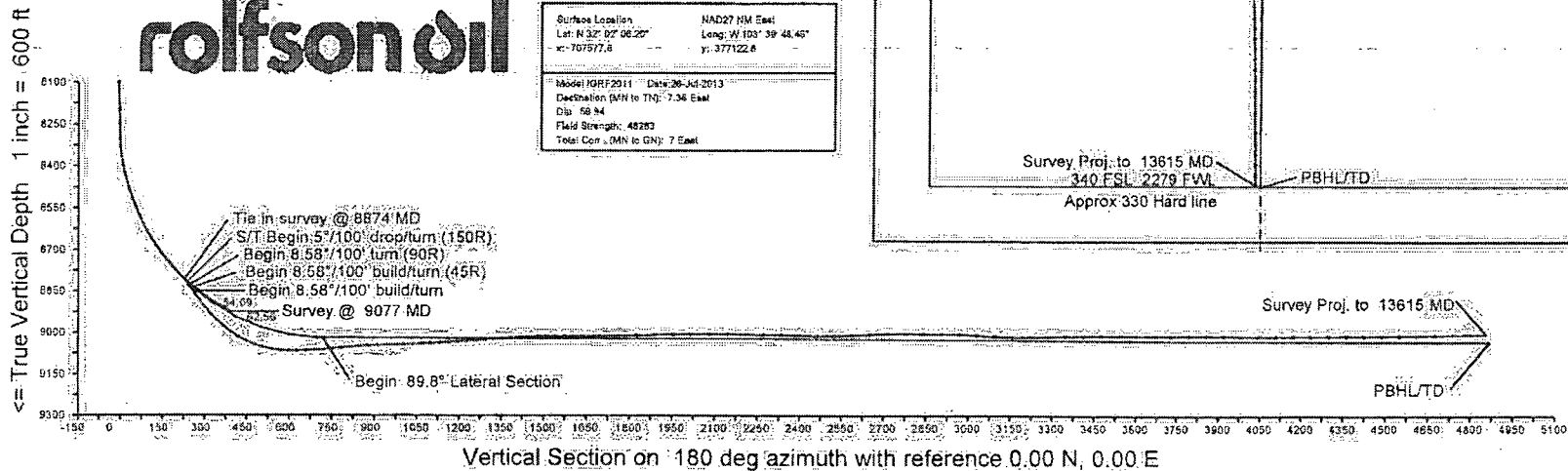
WELL PROFILE DATA rev3							
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment
8874	46.80	183.20	8809	-228	39	0.00	Tie in survey @ 8874 MD
8887	48.18	183.24	8818	-237	39	10.62	S/T Begin 5°/100' drop/turn (150R)
8902	47.53	183.75	8828	-249	38	5.00	Begin 8.58°/100' turn (90R)
8917	47.54	185.49	8838	-260	37	8.58	Begin 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	1.1	8.58	Begin 89.8° Lateral Section
113575	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	-4860	-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' 48.45"	
X: 707577.8		Y: 377122.8	
Model: IGRF2011		Date: 28-Jul-2013	
Declination (MN to TN): 7.36 East		Dia: 50.94	
Field Strength: 48283		Total Cor. (MN to GN): 7 East	



North
South