

OPERATOR
WELL/LEASE
COUNTY

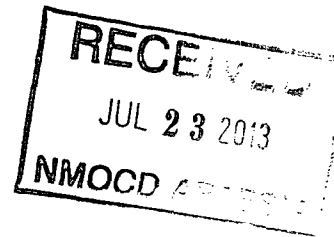
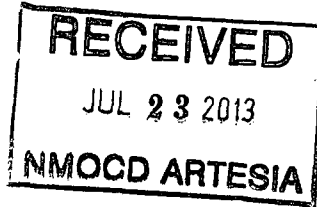
MEWBOURNE OIL COMPANY
SKEEN 21 DM STATE 1H
EDDY

036-0054

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 40863

585	0.75
940	0.57
1,224	0.79
1,603	0.99
2,016	4.08
2,142	5.18
2,423	3.20
2,550	2.20
2,853	1.40
3,005	1.20
3,277	0.60
3,687	0.20
4,004	0.04
4,859	1.30
5,332	1.10
5,807	1.40
6,247	1.80
6,498	3.50
6,749	2.50
6,897	2.40
7,284	2.50



STATE OF TEXAS

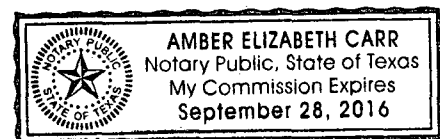
BY: Steve Moore

COUNTY OF MIDLAND

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

5/31/13, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Skeen 21 DM State/No 001

Rig Name: Patterson 36
State/County: New Mexico/Eddy
Latitude: 32.04, Longitude: -104.10
GRID North is 0.12 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 20'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 5/20/2013 / 13:59

Vaughn Energy Services
Midland, Texas
432-563-5444

Surveyor: Tim Dillon
Skeen 21 DM State No 001 / API 30-015-40863

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	0.30	192.30	100.00	-0.26	-0.06	-0.26	0.26	192.30	0.30
200.00	0.08	141.37	200.00	-0.57	-0.07	-0.57	0.57	186.74	0.26
300.00	0.61	232.08	300.00	-0.95	-0.44	-0.95	1.05	204.95	0.61
400.00	0.84	256.94	399.99	-1.44	-1.58	-1.44	2.13	227.57	0.39
500.00	0.57	251.48	499.98	-1.77	-2.77	-1.77	3.28	237.46	0.28
600.00	0.53	275.73	599.98	-1.88	-3.71	-1.88	4.15	243.12	0.24
700.00	0.18	100.05	699.98	-1.86	-4.01	-1.86	4.42	245.12	0.72
800.00	0.75	97.21	799.97	-1.97	-3.20	-1.97	3.76	238.40	0.57
900.00	0.72	83.17	899.96	-1.98	-1.93	-1.98	2.76	224.25	0.18
1000.00	0.63	121.53	999.96	-2.19	-0.83	-2.19	2.34	200.76	0.45
1100.00	0.72	129.62	1099.95	-2.88	0.12	-2.88	2.88	177.60	0.13
1200.00	0.92	133.54	1199.94	-3.83	1.18	-3.83	4.01	162.84	0.21
1300.00	0.59	135.07	1299.93	-4.74	2.13	-4.74	5.20	155.86	0.33
1400.00	0.25	182.73	1399.93	-5.32	2.48	-5.32	5.87	155.02	0.46
1500.00	0.32	252.27	1499.93	-5.63	2.20	-5.63	6.04	158.63	0.33
1600.00	0.69	271.08	1599.92	-5.70	1.33	-5.70	5.85	166.89	0.40
1700.00	0.73	355.60	1699.92	-5.05	0.68	-5.05	5.09	172.38	0.96
1800.00	1.93	25.15	1799.89	-2.89	1.34	-2.89	3.18	155.08	1.34
1900.00	2.55	34.96	1899.81	0.46	3.33	0.46	3.36	82.11	0.73
2000.00	3.63	45.26	1999.67	4.51	6.86	4.51	8.21	56.64	1.21

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
2100.00	5.09	47.65	2099.38	9.73	12.38	9.73	15.75	51.84	1.47
2200.00	5.56	49.96	2198.94	15.84	19.37	15.84	25.03	50.73	0.52
2300.00	5.07	56.44	2298.51	21.40	26.77	21.40	34.27	51.36	0.78
2400.00	3.40	59.21	2398.24	25.36	33.00	25.36	41.62	52.45	1.68
2500.00	2.93	64.16	2498.08	28.00	37.85	28.00	47.08	53.51	0.54
2600.00	2.50	63.05	2597.97	30.10	42.10	30.10	51.75	54.44	0.43
2700.00	2.29	62.65	2697.88	32.01	45.82	32.01	55.89	55.06	0.22
2800.00	1.83	58.55	2797.82	33.76	48.95	33.76	59.46	55.41	0.48
2900.00	1.39	54.79	2897.78	35.29	51.31	35.29	62.27	55.48	0.45
3000.00	1.04	60.66	2997.76	36.44	53.09	36.44	64.39	55.54	0.37
3100.00	0.95	60.86	3097.74	37.28	54.61	37.28	66.12	55.68	0.08
3200.00	0.63	53.75	3197.73	38.01	55.78	38.01	67.50	55.72	0.34
3300.00	0.60	72.14	3297.73	38.50	56.72	38.50	68.55	55.83	0.20
3400.00	0.51	42.73	3397.72	38.99	57.52	38.99	69.49	55.87	0.30
3500.00	0.18	8.96	3497.72	39.47	57.85	39.47	70.03	55.69	0.37
3600.00	0.19	12.54	3597.72	39.79	57.91	39.79	70.26	55.50	0.01
3700.00	0.13	255.64	3697.72	39.93	57.83	39.93	70.27	55.38	0.28
3800.00	0.28	59.65	3797.72	40.02	57.92	40.02	70.40	55.36	0.41
3900.00	0.14	93.13	3897.72	40.14	58.25	40.14	70.74	55.43	0.18
4000.00	0.16	268.76	3997.72	40.13	58.23	40.13	70.72	55.43	0.30
4100.00	0.43	240.81	4097.72	39.94	57.76	39.94	70.22	55.34	0.30
4200.00	0.49	249.69	4197.71	39.60	57.03	39.60	69.43	55.22	0.09
4300.00	0.18	252.89	4297.71	39.41	56.48	39.41	68.87	55.09	0.31
4400.00	0.51	270.64	4397.71	39.37	55.88	39.37	68.35	54.83	0.35
4500.00	0.70	230.83	4497.70	38.99	54.95	38.99	67.38	54.65	0.45
4600.00	0.63	219.16	4597.70	38.17	54.13	38.17	66.23	54.81	0.15
4700.00	1.02	227.93	4697.69	37.15	53.12	37.15	64.82	55.04	0.40
4800.00	1.29	207.45	4797.67	35.56	51.95	35.56	62.95	55.61	0.49
4900.00	1.17	213.59	4897.64	33.71	50.86	33.71	61.02	56.47	0.18
5000.00	1.21	212.35	4997.62	31.96	49.73	31.96	59.12	57.27	0.04
5100.00	1.07	229.85	5097.60	30.47	48.46	30.47	57.24	57.84	0.37
5200.00	1.31	221.56	5197.58	29.02	46.99	29.02	55.23	58.30	0.30
5300.00	1.04	208.27	5297.56	27.37	45.80	27.37	53.36	59.14	0.38
5400.00	1.25	210.93	5397.54	25.64	44.82	25.64	51.63	60.23	0.22
5500.00	1.02	192.26	5497.52	23.83	44.07	23.83	50.10	61.59	0.43
5600.00	1.25	186.37	5597.50	21.88	43.76	21.88	48.92	63.43	0.26
5700.00	1.30	172.25	5697.48	19.67	43.79	19.67	48.00	65.81	0.32
5800.00	1.15	180.03	5797.46	17.55	43.94	17.55	47.32	68.23	0.23
5900.00	1.43	177.16	5897.43	15.30	44.00	15.30	46.59	70.83	0.29
6000.00	1.73	186.46	5997.39	12.56	43.89	12.56	45.66	74.04	0.39
6100.00	1.99	191.11	6097.34	9.36	43.39	9.36	44.39	77.83	0.30
6200.00	2.12	194.90	6197.28	5.87	42.58	5.87	42.98	82.16	0.19

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
6300.00	2.37	197.35	6297.20	2.10	41.49	2.10	41.54	87.10	0.27
6400.00	2.74	207.01	6397.10	-2.01	39.78	-2.01	39.83	92.89	0.57
6500.00	3.04	210.81	6496.97	-6.42	37.34	-6.42	37.89	99.75	0.35
6600.00	3.14	204.32	6596.83	-11.19	34.85	-11.19	36.60	107.80	0.36
6700.00	2.61	209.02	6696.70	-15.68	32.62	-15.68	36.19	115.67	0.58
6800.00	2.13	218.32	6796.61	-19.13	30.36	-19.13	35.88	122.22	0.61
6900.00	1.72	241.69	6896.56	-21.30	27.88	-21.30	35.09	127.38	0.88
7000.00	2.86	261.94	6996.48	-22.36	24.09	-22.36	32.87	132.87	1.38
7100.00	3.02	271.27	7096.35	-22.65	18.99	-22.65	29.56	140.03	0.50
7200.00	2.94	267.67	7196.21	-22.70	13.79	-22.70	26.56	148.72	0.20
7300.00	2.55	265.79	7296.10	-22.97	9.01	-22.97	24.67	158.58	0.40
7383.00	2.68	264.93	7379.01	-23.28	5.23	-23.28	23.86	167.33	0.17



Job Number: NM-13003
 Company: Mewbourne Oil Company
 Lease/Well: Skeen 21 DM State 1H
 Location: Eddy
 Rig Name: Patterson 36
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: New Mexico
 Declination: 7.59
 Grid: ☐
 File name: C:\WINSERVE\DDSKEEN.SVY
 Date/Time: 23-May-13 / 11:16
 Curve Name: svys

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 179.93
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Dogleg Severity Deg/100	Vertical Section FT	BUILD RATE Deg/100	WALK RATE Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.30	192.30	100.00	-.26	-.06	.30	.26	.30	-167.70
200.00	.08	141.37	200.00	-.57	-.07	.26	.57	-.22	-50.93
300.00	.61	232.08	300.00	-.95	-.44	.62	.95	.53	90.71
400.00	.84	256.94	399.99	-1.44	-1.58	.38	1.44	.23	24.86
500.00	.57	251.48	499.98	-1.76	-2.76	.28	1.76	-.27	-5.46
600.00	.53	275.73	599.98	-1.88	-3.70	.23	1.87	-.04	24.25
700.00	.18	100.05	699.98	-1.86	-4.00	.71	1.85	-.35	-175.68
800.00	.75	97.21	799.97	-1.97	-3.20	.57	1.96	.57	-2.84
900.00	.72	83.17	899.96	-1.97	-1.92	.18	1.97	-.03	-14.04
1000.00	.63	121.53	999.96	-2.19	-.83	.45	2.19	-.09	38.36
1100.00	.72	129.62	1099.95	-2.88	.12	.13	2.88	.09	8.09
1200.00	.92	133.54	1199.94	-3.83	1.19	.21	3.83	.20	3.92
1300.00	.59	135.07	1299.93	-4.75	2.13	.33	4.75	-.33	1.53
1400.00	.25	182.73	1399.93	-5.33	2.49	.46	5.33	-.34	47.66
1500.00	.32	252.27	1499.93	-5.63	2.21	.33	5.63	.07	69.54
1600.00	.69	271.08	1599.92	-5.71	1.34	.40	5.71	.37	18.81
1700.00	.73	355.60	1699.92	-5.06	.69	.96	5.06	.04	84.52
1800.00	1.93	25.15	1799.89	-2.90	1.36	1.34	2.90	1.20	29.55
1900.00	2.55	34.96	1899.81	.45	3.35	.73	-.44	.62	9.81
2000.00	3.63	45.26	1999.67	4.50	6.87	1.21	-4.49	1.08	10.30
2100.00	5.09	47.65	2099.38	9.72	12.40	1.47	-9.70	1.46	2.39
2200.00	5.56	49.96	2198.94	15.82	19.39	.52	-15.80	.47	2.31
2300.00	5.07	56.44	2298.52	21.38	26.78	.77	-21.35	-.49	6.48
2400.00	3.40	59.21	2398.24	25.34	33.01	1.68	-25.30	-1.67	2.77

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Dogleg Severity Deg/100	Vertical Section FT	BUILD RATE Deg/100	WALK RATE Deg/100
2500.00	2.93	64.16	2498.09	27.97	37.85	.54	-27.93	-.47	4.95
2600.00	2.50	63.05	2597.97	30.08	42.10	.43	-30.02	-.43	-1.11
2700.00	2.29	62.65	2697.89	31.98	45.82	.21	-31.93	-.21	-.40
2800.00	1.83	58.55	2797.82	33.73	48.95	.48	-33.67	-.46	-4.10
2900.00	1.39	54.79	2897.78	35.27	51.31	.45	-35.20	-.44	-3.76
3000.00	1.04	60.66	2997.76	36.41	53.09	.37	-36.34	-.35	5.87
3100.00	.95	60.86	3097.74	37.26	54.60	.09	-37.19	-.09	.20
3200.00	.63	53.75	3197.73	37.99	55.77	.33	-37.92	-.32	-7.11
3300.00	.60	72.14	3297.73	38.47	56.71	.20	-38.40	-.03	18.39
3400.00	.51	42.73	3397.72	38.96	57.51	.29	-38.89	-.09	-29.41
3500.00	.18	8.96	3497.72	39.44	57.84	.37	-39.37	-.33	-33.77
3600.00	.19	12.54	3597.72	39.76	57.90	.02	-39.69	.01	3.58
3700.00	.13	255.64	3697.72	39.89	57.83	.27	-39.82	-.06	-116.90
3800.00	.28	59.65	3797.72	39.99	57.93	.41	-39.92	.15	164.01
3900.00	.14	93.13	3897.72	40.10	58.26	.18	-40.03	-.14	33.48
4000.00	.16	268.76	3997.72	40.10	58.24	.30	-40.02	.02	175.63
4100.00	.43	240.81	4097.72	39.91	57.78	.30	-39.84	.27	-27.95
4200.00	.49	249.69	4197.72	39.58	57.05	.09	-39.51	.06	8.88
4300.00	.18	252.89	4297.71	39.38	56.50	.31	-39.31	-.31	3.20
4400.00	.51	270.64	4397.71	39.34	55.90	.34	-39.27	.33	17.75
4500.00	.70	230.83	4497.71	38.96	54.98	.45	-38.89	.19	-39.81
4600.00	.63	219.16	4597.70	38.15	54.16	.15	-38.08	-.07	-11.67
4700.00	1.02	227.93	4697.69	37.13	53.15	.41	-37.06	.39	8.77
4800.00	1.29	207.45	4797.67	35.53	51.97	.49	-35.47	.27	-20.48
4900.00	1.17	213.59	4897.65	33.68	50.89	.18	-33.62	-.12	6.14
5000.00	1.21	212.35	4997.63	31.94	49.76	.05	-31.88	.04	-1.24
5100.00	1.07	229.85	5097.61	30.45	48.48	.37	-30.39	-.14	17.50
5200.00	1.31	221.56	5197.58	28.99	47.01	.29	-28.93	.24	-8.29
5300.00	1.04	208.27	5297.56	27.33	45.82	.38	-27.28	-.27	-13.29
5400.00	1.25	210.93	5397.54	25.60	44.83	.22	-25.54	.21	2.66
5500.00	1.02	192.26	5497.52	23.79	44.08	.43	-23.74	-.23	-18.67
5600.00	1.25	186.37	5597.50	21.84	43.77	.26	-21.79	.23	-5.89
5700.00	1.30	172.25	5697.48	19.63	43.80	.32	-19.58	.05	-14.12
5800.00	1.15	180.03	5797.46	17.50	43.96	.22	-17.45	-.15	7.78
5900.00	1.43	177.16	5897.43	15.25	44.02	.29	-15.20	.28	-2.87
6000.00	1.73	186.46	5997.39	12.51	43.91	.39	-12.45	.30	9.30
6100.00	1.99	191.11	6097.34	9.30	43.40	.30	-9.25	.26	4.65
6200.00	2.12	194.90	6197.28	5.81	42.59	.19	-5.76	.13	3.79
6300.00	2.37	197.35	6297.20	2.05	41.50	.27	-2.00	.25	2.45
6400.00	2.74	207.01	6397.10	-2.05	39.80	.57	2.10	.37	9.66
6500.00	3.04	210.81	6496.97	-6.46	37.36	.36	6.50	.30	3.80
6600.00	3.14	204.32	6596.83	-11.23	34.87	.36	11.27	.10	-6.49
6700.00	2.61	209.02	6696.70	-15.72	32.64	.58	15.76	-.53	4.70
6800.00	2.13	218.32	6796.62	-19.17	30.38	.61	19.20	-.48	9.30
6900.00	1.72	241.69	6896.56	-21.34	27.91	.88	21.37	-.41	23.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Dogleg Severity Deg/100	Vertical Section FT	BUILD RATE Deg/100	WALK RATE Deg/100
7000.00	2.86	261.94	6996.48	-22.40	24.12	1.38	22.43	1.14	20.25
7100.00	3.02	271.27	7096.35	-22.69	19.01	.50	22.71	.16	9.33
7200.00	2.94	267.67	7196.22	-22.74	13.82	.20	22.75	-.08	-3.60
7300.00	2.55	265.79	7296.10	-23.00	9.04	.40	23.01	-.39	-1.88
7383.00	2.68	264.93	7379.01	-23.31	5.26	.16	23.32	.16	-1.04
7413.00	5.70	239.70	7408.93	-24.12	3.28	11.56	24.13	10.07	-84.10
7445.00	9.50	225.00	7440.65	-26.79	.03	13.25	26.79	11.88	-45.94
7477.00	12.00	214.60	7472.09	-31.40	-3.72	9.86	31.40	7.81	-32.50
7508.00	14.80	204.80	7502.24	-37.65	-7.21	11.60	37.64	9.03	-31.61
7540.00	17.30	195.60	7533.00	-45.95	-10.21	11.12	45.93	7.81	-28.75
7572.00	18.40	186.90	7563.46	-55.54	-12.10	9.00	55.53	3.44	-27.19
7603.00	21.00	182.50	7592.65	-65.95	-12.93	9.65	65.94	8.39	-14.19
7635.00	24.40	178.40	7622.17	-78.29	-12.99	11.71	78.28	10.63	-12.81
7667.00	27.30	176.50	7650.96	-92.23	-12.36	9.42	92.21	9.06	-5.94
7699.00	29.30	175.80	7679.14	-107.36	-11.34	6.34	107.35	6.25	-2.19
7731.00	31.90	174.60	7706.68	-123.59	-9.97	8.35	123.58	8.12	-3.75
7762.00	34.20	174.30	7732.66	-140.42	-8.33	7.44	140.41	7.42	-.97
7794.00	36.30	175.80	7758.79	-158.82	-6.74	7.10	158.81	6.56	4.69
7826.00	38.70	177.30	7784.18	-178.26	-5.58	8.02	178.25	7.50	4.69
7858.00	41.70	177.70	7808.62	-198.89	-4.68	9.41	198.89	9.38	1.25
7889.00	45.50	178.10	7831.06	-220.25	-3.90	12.29	220.25	12.26	1.29
7921.00	49.30	178.60	7852.72	-243.79	-3.23	11.93	243.79	11.87	1.56
7952.00	52.30	179.70	7872.31	-267.81	-2.87	10.06	267.81	9.68	3.55
7983.00	56.20	180.30	7890.42	-292.96	-2.88	12.68	292.96	12.58	1.94
8015.00	59.70	180.30	7907.40	-320.08	-3.02	10.94	320.08	10.94	.00
8046.00	63.50	179.90	7922.14	-347.35	-3.06	12.31	347.34	12.26	-1.29
8078.00	67.40	178.90	7935.43	-376.45	-2.76	12.51	376.44	12.19	-3.13
8110.00	71.40	179.30	7946.69	-406.39	-2.29	12.55	406.39	12.50	1.25
8142.00	75.60	179.70	7955.77	-437.06	-2.02	13.18	437.06	13.12	1.25
8173.00	79.40	180.30	7962.48	-467.32	-2.02	12.40	467.32	12.26	1.94
8205.00	82.60	179.90	7967.49	-498.93	-2.08	10.08	498.92	10.00	-1.25
8216.00	84.00	179.70	7968.77	-509.85	-2.04	12.85	509.85	12.73	-1.82
8313.00	88.20	179.40	7975.37	-606.60	-1.28	4.34	606.60	4.33	-.31
8377.00	91.50	180.70	7975.54	-670.59	-1.33	5.54	670.59	5.16	2.03
8472.00	92.20	180.90	7972.47	-765.53	-2.66	.77	765.53	.74	.21
8536.00	92.70	180.50	7969.73	-829.47	-3.44	1.00	829.46	.78	-.62
8599.00	93.10	179.70	7966.55	-892.39	-3.55	1.42	892.38	.63	-1.27
8663.00	91.10	179.60	7964.20	-956.34	-3.16	3.13	956.33	-3.13	-.16
8726.00	88.00	180.60	7964.69	-1019.33	-3.27	5.17	1019.32	-4.92	1.59
8789.00	88.30	180.80	7966.73	-1082.29	-4.04	.57	1082.28	.48	.32
8853.00	89.00	181.00	7968.24	-1146.26	-5.04	1.14	1146.26	1.09	.31
8916.00	90.00	181.00	7968.79	-1209.25	-6.14	1.59	1209.24	1.59	.00
8979.00	87.10	180.60	7970.38	-1272.22	-7.02	4.65	1272.21	-4.60	-.63
9042.00	87.60	180.40	7973.29	-1335.15	-7.57	.85	1335.14	.79	-.32
9105.00	89.50	180.00	7974.89	-1398.12	-7.79	3.08	1398.11	3.02	-.63

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Dogleg Severity Deg/100	Vertical Section FT	BUILD RATE Deg/100	WALK RATE Deg/100
9169.00	86.70	179.00	7977.01	-1462.08	-7.23	4.65	1462.07	-4.38	-1.56
9232.00	88.10	179.20	7979.87	-1525.01	-6.25	2.24	1525.00	2.22	.32
9295.00	91.90	180.20	7979.87	-1587.99	-5.92	6.24	1587.98	6.03	1.59
9358.00	92.60	180.30	7977.39	-1650.94	-6.19	1.12	1650.93	1.11	.16
9421.00	89.50	180.30	7976.24	-1713.92	-6.52	4.92	1713.91	-4.92	.00
9484.00	88.80	180.30	7977.17	-1776.92	-6.85	1.11	1776.91	-1.11	.00
9548.00	90.90	180.30	7977.34	-1840.91	-7.18	3.28	1840.90	3.28	.00
9611.00	91.30	179.80	7976.13	-1903.90	-7.24	1.02	1903.89	.63	-.79
9674.00	89.50	179.20	7975.69	-1966.89	-6.69	3.01	1966.88	-2.86	-.95
9737.00	90.90	179.70	7975.47	-2029.89	-6.09	2.36	2029.88	2.22	.79
9801.00	90.10	179.30	7974.91	-2093.88	-5.53	1.40	2093.87	-1.25	-.62
9863.00	89.50	178.60	7975.13	-2155.87	-4.39	1.49	2155.86	-.97	-1.13
9927.00	90.20	178.50	7975.30	-2219.85	-2.77	1.10	2219.84	1.09	-.16
9990.00	91.00	178.30	7974.64	-2282.82	-1.01	1.31	2282.82	1.27	-.32
10054.00	91.60	178.10	7973.19	-2346.77	1.00	.99	2346.77	.94	-.31
10117.00	92.80	178.00	7970.77	-2409.69	3.14	1.91	2409.69	1.90	-.16
10179.00	90.90	178.80	7968.77	-2471.63	4.87	3.32	2471.63	-3.06	1.29
10243.00	92.10	179.00	7967.09	-2535.59	6.10	1.90	2535.60	1.87	.31
10306.00	91.30	180.20	7965.22	-2598.56	6.54	2.29	2598.57	-1.27	1.90
10369.00	91.60	181.20	7963.63	-2661.54	5.77	1.66	2661.54	.48	1.59
10496.00	89.60	181.80	7962.30	-2788.48	2.44	1.64	2788.48	-1.57	.47
10559.00	90.60	181.10	7962.19	-2851.46	.85	1.94	2851.46	1.59	-1.11
10623.00	88.90	181.00	7962.47	-2915.44	-.32	2.66	2915.44	-2.66	-.16
10686.00	89.50	180.70	7963.35	-2978.43	-1.26	1.06	2978.43	.95	-.48
10749.00	91.60	180.10	7962.74	-3041.42	-1.70	3.47	3041.42	3.33	-.95
10812.00	89.80	178.10	7961.97	-3104.40	-.71	4.27	3104.40	-2.86	-3.17
10876.00	90.90	176.50	7961.58	-3168.33	2.31	3.03	3168.33	1.72	-2.50
10939.00	89.70	175.70	7961.25	-3231.18	6.59	2.29	3231.19	-1.90	-1.27
11002.00	88.30	178.10	7962.35	-3294.07	10.00	4.41	3294.08	-2.22	3.81
11065.00	90.40	179.80	7963.07	-3357.05	11.15	4.29	3357.06	3.33	2.70
11128.00	88.40	179.30	7963.73	-3420.04	11.65	3.27	3420.05	-3.17	-.79
11191.00	87.20	178.50	7966.14	-3482.98	12.85	2.29	3483.00	-1.90	-1.27
11255.00	88.10	178.80	7968.77	-3546.91	14.36	1.48	3546.93	1.41	.47
11318.00	88.30	179.00	7970.75	-3609.87	15.57	.45	3609.88	.32	.32
11382.00	89.20	179.50	7972.14	-3673.85	16.41	1.61	3673.86	1.41	.78
11446.00	90.20	181.00	7972.48	-3737.84	16.13	2.82	3737.86	1.56	2.34
11509.00	91.30	181.20	7971.65	-3800.82	14.92	1.77	3800.84	1.75	.32
11573.00	91.60	180.90	7970.03	-3864.79	13.75	.66	3864.81	.47	-.47
11636.00	90.30	181.40	7968.99	-3927.77	12.48	2.21	3927.78	-2.06	.79
11699.00	89.60	179.60	7969.04	-3990.76	11.93	3.07	3990.78	-1.11	-2.86
11762.00	90.50	178.80	7968.99	-4053.76	12.81	1.91	4053.77	1.43	-1.27
11826.00	90.80	177.80	7968.26	-4117.72	14.71	1.63	4117.74	.47	-1.56
11889.00	90.60	176.90	7967.49	-4180.65	17.62	1.46	4180.67	-.32	-1.43
11953.00	91.00	177.00	7966.60	-4244.55	21.03	.64	4244.58	.63	.16
12016.00	91.10	177.20	7965.45	-4307.46	24.21	.35	4307.49	.16	.32

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Dogleg Severity Deg/100	Vertical Section FT	BUILD RATE Deg/100	WALK RATE Deg/100
12079.00	89.30	178.90	7965.23	-4370.42	26.36	3.93	4370.45	-2.86	2.70
12142.00	89.30	179.80	7966.00	-4433.41	27.07	1.43	4433.44	.00	1.43
12205.00	90.90	179.40	7965.89	-4496.41	27.51	2.62	4496.44	2.54	-.63
12269.00	93.20	178.20	7963.60	-4560.35	28.85	4.05	4560.38	3.59	-1.87
12332.00	91.80	178.10	7960.85	-4623.25	30.88	2.23	4623.29	-2.22	-.16
12396.00	91.80	178.30	7958.84	-4687.19	32.89	.31	4687.23	.00	.31
12460.00	90.00	179.10	7957.83	-4751.16	34.34	3.08	4751.20	-2.81	1.25
12480.00	90.50	179.20	7957.75	-4771.16	34.64	2.55	4771.20	2.50	.50
Proj to bit (.65' HI, 29' LEFT)									
12525.00	90.50	179.20	7957.35	-4816.15	35.27	.00	4816.19	.00	.00

Mewbourne Oil Company

Skeen 21 DM State 1H

Eddy County, New Mexico

WELL PROFILE DATA rev2

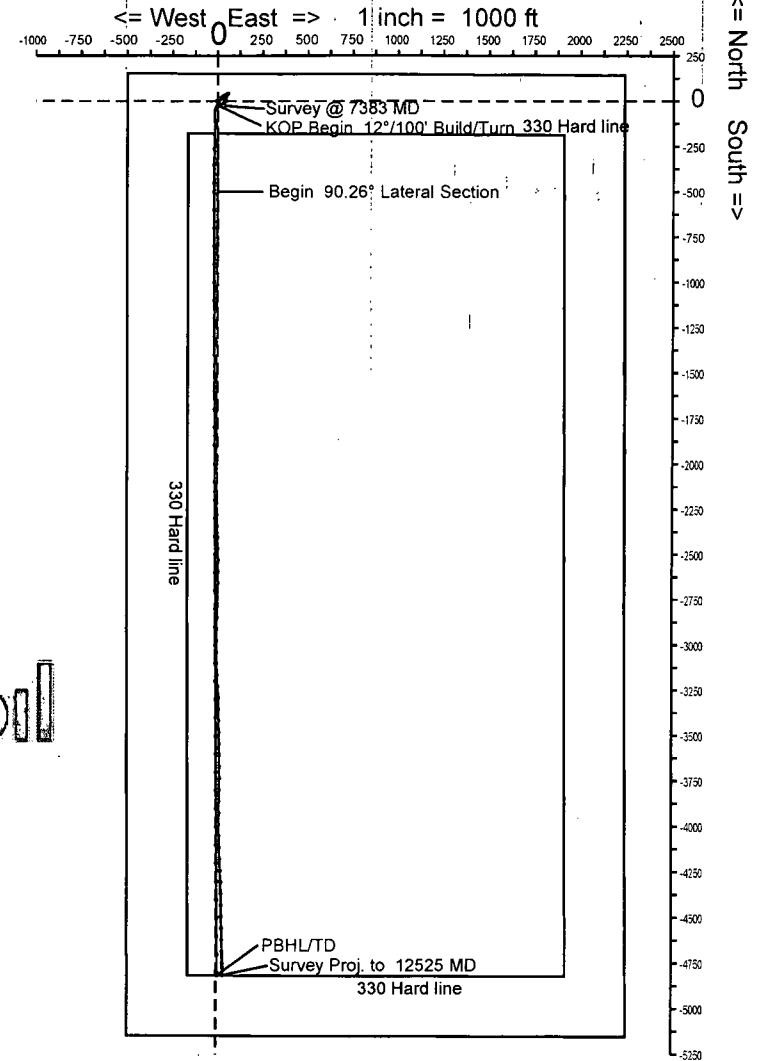
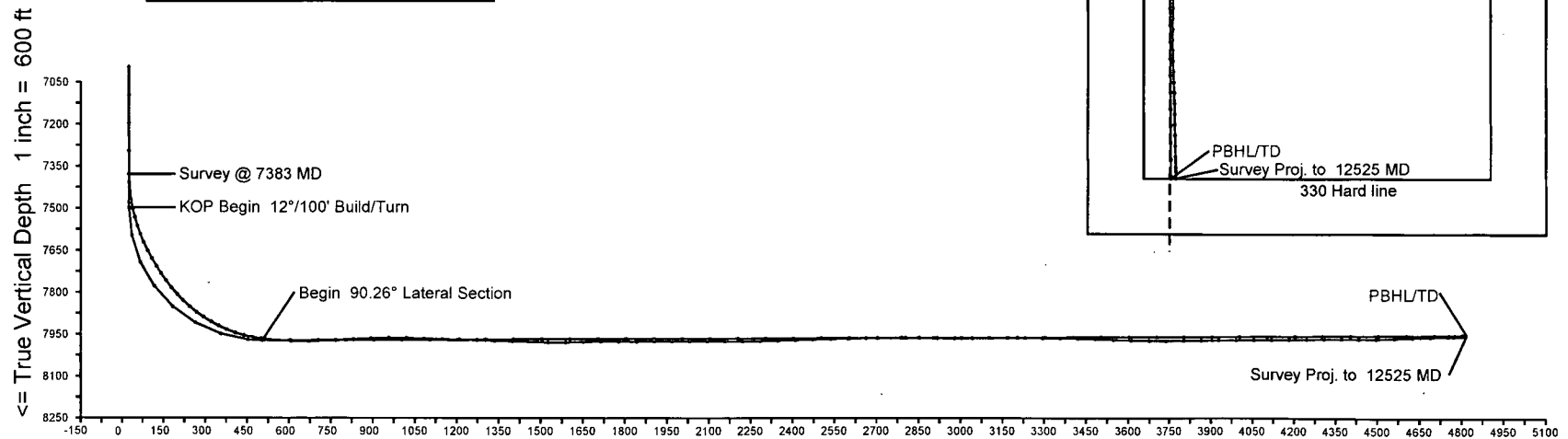
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment	05-13-2013
7383	2.68	264.93	7379	-23	5	0.00	Survey @ 7383 MD	
7503	2.68	264.93	7499	-24	-0	0.00	KOP Begin 12°/100' Build/Turn	
8253	90.26	179.66	7974	-504	-20	12.00	Begin 90.26° Lateral Section	
12569	90.26	179.66	7954	-4819	6	0.00	PBHL/TD	

WELL PROFILE DATA svys

MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment	05-24-2013
12525	90.50	179.20	7957	-4816	35	0.00	Survey Proj. to 12525 MD	

Surface Location	NAD27 NM East
Lat: N 32° 02' 04.96"	Long: W 104° 05' 56.07"
x: 572642.92	y: 376432.22
Model IGRF2011	Date: 21-Apr-2013
Declination (MN to TN): 7.59° East	
Dip: 59.87	
Field Strength: 48259.6	
Total Corr. (MN to GN): 7.46° East	

rolfson oil



Operating Company Mewbourne
Well Name & Number SKEEN 21 DM State #1H
Sales Ticket Number 0005529604-1
Date 5/23/2013

Company Rep Bill Smith
Field Hay Hollow
BOT Service Rep John Davis
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse				
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,260.00	9,960	6,230				
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,441.99	4,525	10,680				
Bott Liner														
TVD		7,961.00		KOP		7,394.00		Open Hole	6.125	Casing Vol. (bbl)	307.2			
Carry Fluid Weight (ppg)			8.6		Propan Content (ppa)				Max Drill Out Size		0			
		Comm. Number		Description			Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1			JR Setting Sleeve_RH Profile			8028.01							

Zone Length		JR Sleeve_S3 Hyd Set Packer	8028.01	8.61	5.813	3.875							
		4-1/2-13.5 LTC pup joint	8036.62	8.32	5.000	3.920							
		7 Joints of 4-1/2-13.5 LTC Casing	8044.94	264.81	5.000	3.920							
20	20	3.625 EX Frac Sleeve	8309.75	2.40	5.750		3.525	2286	306	307			
364.6		2 Joint of 4-1/2-13.5 LTC Casing	8312.15	76.55	5.000	3.920							
		Baker Open Hole Packer	8388.70	3.89	5.820	3.875		2154					
		2 Joints of 4-1/2-13.5 LTC Casing	8392.59	76.62	5.000	3.920							
19	19	3.500 EX Frac Sleeve	8469.21	2.40	5.750		3.400	2286	285	307			
		3 Joint of 4-1/2-13.5 LTC Casing	8471.61	113.70	5.000	3.920							
200.5		Baker Open Hole Packer	8585.31	3.89	5.820	3.875		2154					
		3 Joints of 4-1/2-13.5 LTC Casing	8589.20	112.59	5.000	3.920							
18	18	3.375 EX Frac Sleeve	8701.79	2.40	5.750		3.275	2286	265	307			
		3 Joint of 4-1/2-13.5 LTC Casing	8704.19	110.84	5.000	3.920							
233.6		Baker Open Hole Packer	8815.03	3.89	5.820	3.875		2154					
		2 Joints of 4-1/2-13.5 LTC Casing	8818.92	74.62	5.000	3.920							
17	17	3.250 EX Frac Sleeve	8893.54	2.40	5.750		3.150	2286	245	307			
		4 Joint of 4-1/2-13.5 LTC Casing	8895.94	151.13	5.000	3.920							
235.9		Baker Open Hole Packer	9047.07	3.89	5.820	3.875		2154					
		3 Joints of 4-1/2-13.5 LTC Casing	9050.96	114.08	5.000	3.920							
16	16	3.125 EX Frac Sleeve	9165.04	2.40	5.750		3.025	2286	226	307			
		4 Joints of 4-1/2-13.5 LTC Casing	9167.44	151.56	5.000	3.920							
275.8		Baker Open Hole Packer	9319.00	3.89	5.820	3.875		2154					
		3 Joints of 4-1/2-13.5 LTC Casing	9322.89	114.44	5.000	3.920							
15	15	3.000 EX Frac sleeve	9437.33	2.40	5.750		2.900	2286	207	307			
		3 Joint of 4-1/2-13.5 LTC Casing	9439.73	113.65	5.000	3.920							
238.3		Baker Open Hole Packer	9553.38	3.89	5.820	3.875		2154					
		2 Joints of 4-1/2-13.5 LTC Casing	9557.27	76.58	5.000	3.920							
14	14	2.875 EX Frac Sleeve	9633.85	2.40	5.750		2.775	2286	190	307			
		3 Joints of 4-1/2-13.5 LTC Casing	9636.25	113.40	5.000	3.920							
200.2		Baker Open Hole Packer	9749.65	3.89	5.820	3.875		2154					
		3 Joints of 4-1/2-13.5 LTC Casing	9753.54	114.38	5.000	3.920							
13	13	2.750 EX Frac Sleeve	9867.92	2.40	5.750		2.650	2286	173	307			
		3 Joint of 4-1/2-13.5 LTC Casing	9870.32	114.27	5.000	3.920							
238.8		Baker Open Hole Packer	9984.59	3.89	5.820	3.875		2154					

Operating Company Mewbourne
Well Name & Number SKEEN 21 DM State #1H
Sales Ticket Number 0005529604-1
Date 5/23/2013

Company Rep Bill Smith
Field Hay Hollow
BOT Service Rep John Davis
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,260.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,441.99	4,525	10,680
Bott Liner										

TVD	7,961.00	KOP	7,394.00	Open Hole	6.125	Casing Vol. (bbl)	307.2
Carry Fluid Weight (ppg)	8.6	Propan Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
		2 Joints of 4-1/2-13.5 LTC Casing	9988.48	75.76	5.000	3.920				
12	12	2.625 EX Frac Sleeve	10064.24	2.40	5.750		2.525	2286	157	307
		3 Joints of 4-1/2-13.5 LTC Casing	10066.64	113.66	5.000	3.920				
199.6		Baker Open Hole Packer	10180.30	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10184.19	112.50	5.000	3.920				
11	11	2.500 EX Frac Sleeve	10296.69	2.40	5.750		2.400	2286	142	307
		4 Joint of 4-1/2-13.5 LTC Casing	10299.09	151.33	5.000	3.920				
274		Baker Open Hole Packer	10450.42	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10454.31	112.98	5.000	3.920				
10	10	2.375 EX Frac Sleeve	10567.29	2.40	5.750		2.275	2286	128	307
		2 Joints of 4-1/2-13.5 LTC Casing	10569.69	74.01	5.000	3.920				
197.2		Baker Open Hole Packer	10643.70	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10647.59	74.79	5.000	3.920				
9	9	2.250 EX Frac Sleeve	10722.38	2.40	5.750		2.150	2286	114	307
		4 Joints of 4-1/2-13.5 LTC Casing	10724.78	150.64	5.000	3.920				
235.6		Baker Open Hole Packer	10875.42	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10879.31	112.71	5.000	3.920				
8	8	2.125 EX Frac Sleeve	10992.02	2.40	5.750		2.025	2286	101	307
		3 Joints of 4-1/2-13.5 LTC Casing	10994.42	112.46	5.000	3.920				
235.4		Baker Open Hole Packer	11106.88	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11110.77	75.83	5.000	3.920				
7	7	2.000 EX Frac Sleeve	11186.60	2.40	5.750		1.900	2286	89	307
		3 Joints of 4-1/2-13.5 LTC Casing	11189.00	112.81	5.000	3.920				
198.8		Baker Open Hole Packer	11301.81	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	11305.70	113.30	5.000	3.920				
6	6	1.875 EX Frac Sleeve	11419.00	2.40	5.750		1.775	2286	78	307
		2 Joints of 4-1/2-13.5 LTC Casing	11421.40	75.38	5.000	3.920				
198.9		Baker Open Hole Packer	11496.78	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	11500.67	113.91	5.000	3.920				
5	5	1.750 EX Frac Sleeve	11614.58	2.40	5.750		1.650	2286	67	307
		3 Joint of 4-1/2-13.5 LTC Casing	11616.98	112.25	5.000	3.920				
236.3		Baker Open Hole Packer	11729.23	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11733.12	75.82	5.000	3.920				
4	4	1.625 EX Frac Sleeve	11808.94	2.40	5.750		1.525	2286	57	307
		3 Joints of 4-1/2-13.5 LTC Casing	11811.34	112.14	5.000	3.920				
198.1		Baker Open Hole Packer	11923.48	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	11927.37	112.83	5.000	3.920				
3	3	1.500 DBL Ball Frac Sleeve	12040.20	2.40	5.750		1.400	2286	48	307

Company Rep	Bill Smith
Field	Hay Hollow
BOT Service Rep	John Davis
District Location	Odessa, Texas, USA

[illegible]

TVD	7,961.00	KOP	7,394.00	Open Hole	6.125	Casing Vol. (bbl)	307.2
Carry Fluid Weight (ppg)	8.6	Propant Content (ppa)				Max Drill Out Size	0

[illegible]