

A Gyrodata Directional Survey

API # 30-015-36732

for

MEWBOURNE OIL

Lease: Crowe Flats 27 Fed Well: 1H, 4 1/2" Drilpipe
Location: Patterson #45, Eddy County, New Mexico

Job Number: MD1108G_448

Run Date: 22 Nov 2008

Surveyor: Chas Farrell; Jason Solomon

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.899611 deg. N Longitude: 104.174750 deg. W

Azimuth Correction:

Gyro: -0.09000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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Mewbourne Oil

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Location: Patterson #45, Eddy County, New Mexico

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 5700 RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #45							

100.00	0.58	214.20	-0.4	0.58	100.00	0.5 214.2	0.42 S 0.29 W
200.00	0.83	200.03	-1.5	0.30	199.99	1.7 208.3	1.52 S 0.82 W
300.00	0.87	210.79	-2.9	0.17	299.98	3.2 207.0	2.85 S 1.46 W
400.00	0.66	217.33	-4.0	0.23	399.97	4.5 209.0	3.97 S 2.20 W
500.00	0.63	210.93	-4.9	0.08	499.96	5.7 210.0	4.90 S 2.83 W
600.00	0.81	248.78	-5.6	0.50	599.96	6.8 213.8	5.63 S 3.77 W
700.00	0.59	277.72	-5.8	0.41	699.95	7.6 220.4	5.82 S 4.94 W
800.00	0.58	277.86	-5.7	0.01	799.94	8.2 226.3	5.68 S 5.95 W
900.00	0.28	270.19	-5.6	0.30	899.94	8.7 230.1	5.61 S 6.70 W
1000.00	0.60	264.80	-5.7	0.32	999.94	9.4 232.9	5.66 S 7.47 W
1100.00	0.78	280.47	-5.6	0.25	1099.93	10.3 237.2	5.58 S 8.66 W
1200.00	0.55	295.53	-5.3	0.28	1199.92	11.1 241.7	5.25 S 9.76 W
1300.00	0.26	317.67	-4.9	0.33	1299.92	11.4 244.8	4.87 S 10.35 W
1400.00	0.26	339.11	-4.5	0.10	1399.92	11.5 247.0	4.49 S 10.59 W
1500.00	0.11	356.51	-4.2	0.16	1499.92	11.5 248.6	4.18 S 10.68 W
1600.00	0.12	101.84	-4.1	0.18	1599.92	11.3 248.8	4.10 S 10.58 W
1700.00	0.20	294.04	-4.0	0.32	1699.92	11.4 249.2	4.05 S 10.64 W
1800.00	0.25	315.84	-3.8	0.10	1799.92	11.6 250.8	3.82 S 10.95 W
1900.00	0.29	10.40	-3.4	0.25	1899.92	11.6 252.8	3.42 S 11.06 W
2000.00	0.34	8.94	-2.9	0.05	1999.92	11.3 255.3	2.87 S 10.96 W

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Mewbourne Oil

Lease: Crowe Flats 27 Fed Well: 1H, 4 1/2" Drilpipe

Location: Patterson #45, Eddy County, New Mexico

Job Number: MD1108G_448

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.00	0.44	3.86	-2.2	0.10	2099.91	11.1 258.6	2.19 S 10.89 W
2200.00	0.51	15.99	-1.4	0.12	2199.91	10.8 262.7	1.38 S 10.74 W
2300.00	0.44	21.05	-0.6	0.08	2299.91	10.5 266.7	0.60 S 10.49 W
2400.00	0.40	39.07	0.0	0.14	2399.91	10.1 270.1	0.02 N 10.13 W
2500.00	0.40	15.86	0.6	0.16	2499.90	9.8 273.6	0.62 N 9.82 W
2600.00	0.41	16.16	1.3	0.02	2599.90	9.7 277.7	1.30 N 9.62 W
2700.00	0.45	14.92	2.0	0.04	2699.90	9.6 282.1	2.02 N 9.42 W
2800.00	0.48	10.75	2.8	0.05	2799.89	9.7 286.9	2.81 N 9.25 W
2900.00	0.47	11.89	3.6	0.01	2899.89	9.8 291.7	3.62 N 9.08 W
3000.00	0.41	25.68	4.3	0.12	2999.89	9.9 296.1	4.34 N 8.84 W
3100.00	0.50	5.17	5.1	0.19	3099.88	10.0 300.5	5.10 N 8.65 W
3200.00	0.45	8.64	5.9	0.06	3199.88	10.4 304.7	5.92 N 8.55 W
3300.00	0.29	336.16	6.5	0.25	3299.88	10.8 307.3	6.54 N 8.60 W
3400.00	0.30	342.76	7.0	0.03	3399.88	11.2 308.7	7.02 N 8.78 W
3500.00	0.26	333.20	7.5	0.06	3499.88	11.7 309.8	7.48 N 8.96 W
3600.00	0.11	18.36	7.8	0.20	3599.88	11.9 310.7	7.77 N 9.03 W
3700.00	0.12	213.65	7.8	0.22	3699.88	11.9 310.6	7.78 N 9.06 W
3800.00	0.16	342.99	7.8	0.25	3799.88	12.0 310.5	7.83 N 9.16 W
3900.00	0.21	328.30	8.1	0.07	3899.88	12.3 311.1	8.12 N 9.29 W
4000.00	0.41	270.90	8.3	0.35	3999.87	12.8 310.3	8.28 N 9.75 W
4100.00	0.22	254.78	8.2	0.21	4099.87	13.2 308.6	8.23 N 10.30 W
4200.00	0.35	150.51	7.9	0.46	4199.87	13.0 307.4	7.91 N 10.34 W
4300.00	0.29	118.23	7.5	0.19	4299.87	12.5 307.1	7.52 N 9.96 W
4400.00	0.28	126.05	7.3	0.04	4399.87	12.0 307.3	7.26 N 9.54 W

A Gyrodata Directional Survey

Mewbourne Oil

Lease: Crowe Flats 27 Fed Well: 1H, 4 1/2" Drilpipe

Location: Patterson #45, Eddy County, New Mexico

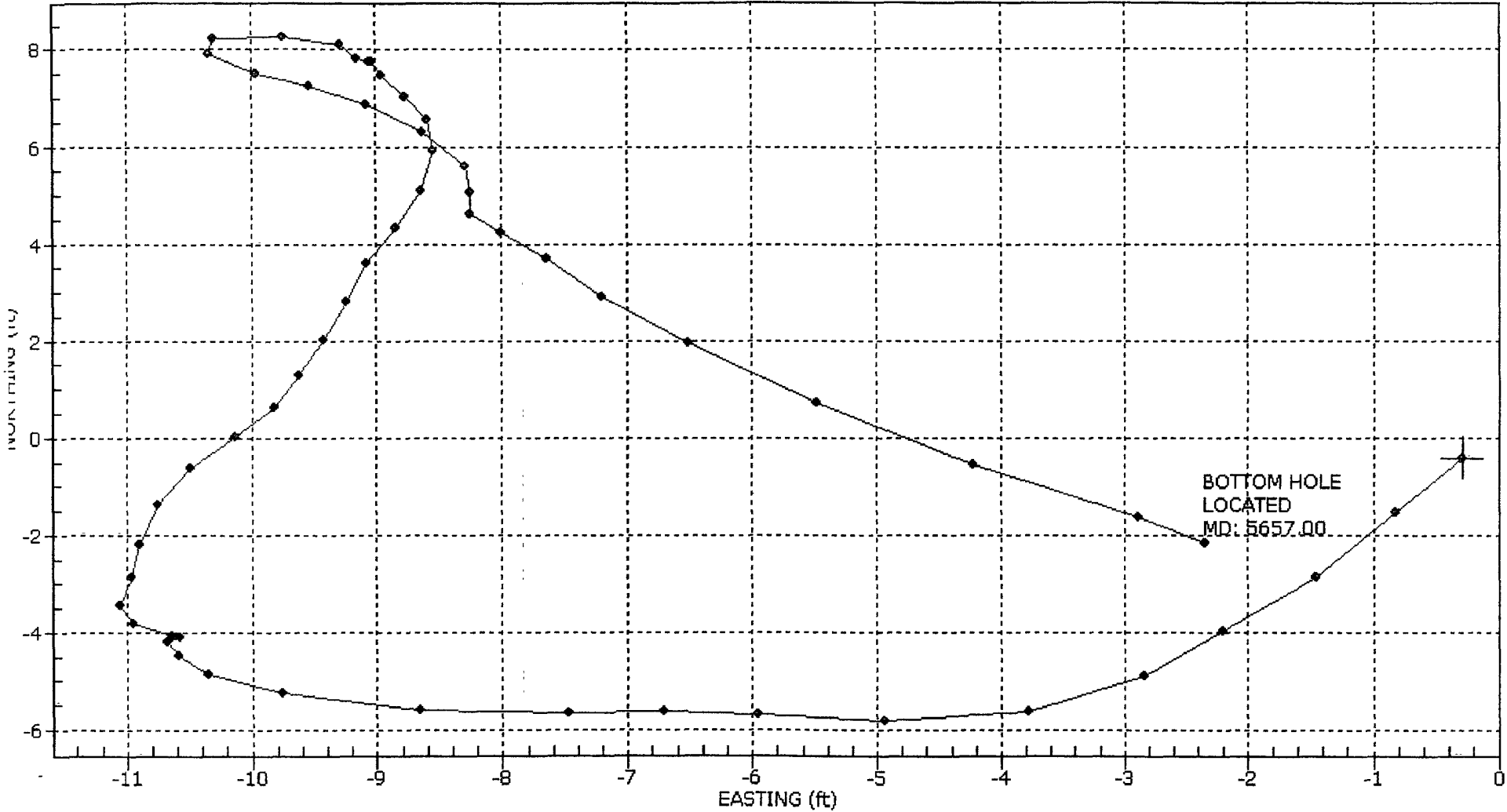
Job Number: MD1108G_448

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4500.00	0.41	134.12	6.9	0.14	4499.87	11.4 307.1	6.86 N 9.08 W
4600.00	0.42	149.41	6.3	0.11	4599.86	10.7 306.1	6.30 N 8.63 W
4700.00	0.45	156.43	5.6	0.06	4699.86	10.0 304.1	5.62 N 8.29 W
4800.00	0.26	208.89	5.1	0.35	4799.86	9.7 301.5	5.06 N 8.25 W
4900.00	0.30	155.88	4.6	0.25	4899.86	9.5 299.3	4.62 N 8.25 W
5000.00	0.24	137.85	4.2	0.10	4999.86	9.1 297.8	4.23 N 8.00 W
5100.00	0.48	149.33	3.7	0.25	5099.86	8.5 295.9	3.71 N 7.65 W
5200.00	0.57	151.96	2.9	0.09	5199.85	7.8 292.0	2.91 N 7.20 W
5300.00	0.78	137.93	2.0	0.27	5299.84	6.8 286.8	1.97 N 6.51 W
5400.00	1.06	141.67	0.7	0.29	5399.83	5.5 277.7	0.74 N 5.48 W
5500.00	1.00	129.25	-0.6	0.23	5499.82	4.3 262.6	0.55 S 4.23 W
5600.00	0.97	128.87	-1.6	0.04	5599.80	3.3 240.6	1.63 S 2.89 W
5657.00	0.56	141.44	-2.1	0.77	5656.80	3.2 227.5	2.15 S 2.34 W

Final Station Closure: Distance: 3.18 ft Az: 227.48 deg.

Mewbourne Oil
Well: Crowe Flats 27 Fed 1H 4 1/2" Drilpipe
Location: Patterson #45, Eddy County, New Mexico

Inrun
Gyrodata
MD1108G_448 DEFINITIVE



Weatherford International, Inc.

Survey Report



Weatherford

Company: Mewbourne Oil Company
 Field: EDDY COUNTY, NEW MEXICO
 Site: CROW FLATS 27 FEDERAL #1H
 Well: #1H
 Wellpath: 1

Date: 12/29/2008
 Co-ordinate(NE) Reference: Well: #1H, Grid North
 Vertical (TVD) Reference: SITE 3620.0
 Section (VS) Reference: Well (0.00N,0.00E,90.52Azi)
 Survey Calculation Method: Minimum Curvature
 Db: Sybase

Time: 13:47:37 Page: 1

Field: EDDY COUNTY, NEW MEXICO

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: bggm2007

Site: CROW FLATS 27 FEDERAL #1H

Site Position: **Final**
 From: Map
 Position Uncertainty: 0.00 ft
 Ground Level: 3602.00 ft

Northing: 690970.59 ft
 Easting: 548841.04 ft

Latitude: 32 53 58.042 N
 Longitude: 104 10 27.142 W
 North Reference: Grid
 Grid Convergence: 0.09 deg

Well: #1H

Slot Name:

Well Position: +N-S 0.00 ft Northing: 690970.59 ft Latitude: 32 53 58.042 N
 +E-W 0.00 ft Easting: 548841.04 ft Longitude: 104 10 27.142 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE
 Magnetic Data: 9/9/2008
 Field Strength: 49277 nT
 Vertical Section: Depth From (TVD)
 ft

Height 3620.00 ft
 +N-S
 ft

Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: 8.30 deg
 Mag Dip Angle: 60.78 deg
 +E-W
 ft
 Direction
 deg

0.00 0.00 0.00 90.52

Survey: WFT SVY

Start Date: 12/1/2008

Company: Weatherford International, Inc
 Tool: MWD;MWD - Standard

Engineer: Lindsey Maddux
 Tied-to: From: Gyrodata

Survey: WFT SVY

MD ft	Incl deg	Azlm deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5657.00	0.56	141.44	5656.80	-2.11	-2.31	-2.29	0.00	0.00	0.00	TIE ON
5837.00	0.59	123.35	5836.79	-3.31	-0.99	-0.96	0.10	0.02	-10.05	MWD
5869.00	0.68	124.56	5868.79	-3.51	-0.69	-0.66	0.28	0.28	3.78	MWD
5901.00	1.31	119.72	5900.78	-3.80	-0.22	-0.18	1.98	1.97	-15.12	MWD
5933.00	2.16	99.73	5932.77	-4.08	0.70	0.73	3.22	2.66	-62.47	MWD
5964.00	3.41	87.14	5963.73	-4.13	2.19	2.23	4.47	4.03	-40.61	MWD
5996.00	4.27	91.05	5995.66	-4.11	4.33	4.37	2.81	2.69	12.22	MWD
6028.00	5.37	96.17	6027.54	-4.29	7.01	7.05	3.69	3.44	16.00	MWD
6060.00	6.70	100.26	6059.37	-4.78	10.34	10.38	4.37	4.16	12.78	MWD
6075.00	8.12	100.25	6074.24	-5.13	12.24	12.29	9.47	9.47	-0.07	MWD
6092.00	10.20	98.59	6091.02	-5.57	14.91	14.96	12.33	12.24	-9.76	MWD
6124.00	13.62	97.83	6122.33	-6.50	21.45	21.51	10.70	10.69	-2.37	MWD
6156.00	18.01	92.50	6153.11	-7.23	30.13	30.19	14.44	13.72	-16.66	MWD
6188.00	21.83	89.62	6183.19	-7.41	41.02	41.09	12.32	11.94	-9.00	MWD
6219.00	24.50	90.99	6211.69	-7.48	53.22	53.28	8.79	8.61	4.42	MWD
6251.00	28.05	91.85	6240.38	-7.84	67.38	67.44	11.16	11.09	2.69	MWD
6283.00	30.05	91.34	6268.35	-8.27	82.91	82.98	6.30	6.25	-1.59	MWD
6315.00	32.81	88.87	6295.66	-8.29	99.59	99.66	9.52	8.62	-7.72	MWD
6347.00	35.57	87.46	6322.12	-7.70	117.56	117.62	8.97	8.62	-4.41	MWD
6379.00	38.36	86.63	6347.69	-6.71	136.77	136.83	8.86	8.72	-2.59	MWD
6410.00	42.39	86.57	6371.30	-5.51	156.82	156.86	13.00	13.00	-0.19	MWD
6442.00	45.83	86.53	6394.27	-4.17	179.04	179.07	10.75	10.75	-0.12	MWD
6474.00	48.87	87.26	6415.95	-2.90	202.54	202.56	9.65	9.50	2.28	MWD
6506.00	51.09	89.70	6436.53	-2.26	227.04	227.05	9.07	6.94	7.62	MWD

Weatherford International, Inc.

Survey Report



Weatherford

Company: Mewbourne Oil Company
 Field: EDDY COUNTY, NEW MEXICO
 Site: CROW FLATS 27 FEDERAL #1H
 Well: #1H
 Wellpath: 1

Date: 12/29/2008 Time: 13:47:37 Page: 2
 Co-ordinate(NE) Reference: Well: #1H, Grid North
 Vertical (TVD) Reference: SITE 3620.0
 Section (VS) Reference: Well (0.00N,0.00E,90.52Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6538.00	52.62	91.09	6456.29	-2.44	252.20	252.21	5.88	4.78	4.34	MWD
6570.00	55.20	91.57	6475.14	-3.04	278.05	278.07	8.15	8.06	1.50	MWD
6601.00	58.15	92.29	6492.17	-3.92	303.93	303.96	9.71	9.52	2.32	MWD
6633.00	61.86	92.17	6508.17	-4.99	331.62	331.65	11.60	11.59	-0.37	MWD
6665.00	64.48	91.24	6522.61	-5.84	360.16	360.20	8.59	8.19	-2.91	MWD
6697.00	67.39	90.05	6535.66	-6.17	389.38	389.42	9.71	9.09	-3.72	MWD
6729.00	69.52	89.15	6547.41	-5.96	419.14	419.17	7.15	6.66	-2.81	MWD
6760.00	71.34	89.35	6557.79	-5.57	448.34	448.37	5.90	5.87	0.65	MWD
6792.00	73.10	89.02	6567.56	-5.14	478.81	478.84	5.59	5.50	-1.03	MWD
6824.00	75.91	89.96	6576.11	-4.87	509.64	509.67	9.23	8.78	2.94	MWD
6841.00	77.31	90.22	6580.05	-4.89	526.18	526.20	8.37	8.24	1.53	MWD
6855.00	78.69	90.25	6582.96	-4.95	539.87	539.90	9.86	9.86	0.21	MWD
6887.00	80.89	90.34	6588.63	-5.11	571.36	571.39	6.88	6.87	0.28	MWD
6919.00	82.58	90.02	6593.23	-5.21	603.03	603.05	5.37	5.28	-1.00	MWD
6951.00	83.38	89.93	6597.14	-5.20	634.79	634.81	2.52	2.50	-0.28	MWD
6982.00	83.75	89.47	6600.61	-5.04	665.59	665.61	1.90	1.19	-1.48	MWD
7014.00	83.82	89.51	6604.08	-4.75	697.40	697.42	0.25	0.22	0.12	MWD
7046.00	84.31	89.40	6607.39	-4.45	729.23	729.24	1.57	1.53	-0.34	MWD
7076.00	87.22	89.14	6609.60	-4.07	759.14	759.15	9.74	9.70	-0.87	MWD
7108.00	88.21	89.06	6610.88	-3.57	791.11	791.11	3.10	3.09	-0.25	MWD
7140.00	88.09	88.92	6611.91	-3.00	823.09	823.09	0.58	-0.37	-0.44	MWD
7172.00	88.52	89.06	6612.86	-2.44	855.07	855.06	1.41	1.34	0.44	MWD
7204.00	89.57	88.86	6613.39	-1.86	887.06	887.04	3.34	3.28	-0.62	MWD
7235.00	90.37	88.76	6613.41	-1.21	918.06	918.03	2.60	2.58	-0.32	MWD
7267.00	90.56	88.23	6613.15	-0.37	950.04	950.01	1.76	0.59	-1.66	MWD
7299.00	90.06	88.90	6612.98	0.43	982.03	981.99	2.61	-1.56	2.09	MWD
7331.00	90.68	89.70	6612.77	0.82	1014.03	1013.98	3.16	1.94	2.50	MWD
7363.00	91.17	90.70	6612.25	0.71	1046.03	1045.98	3.48	1.53	3.12	MWD
7395.00	90.62	91.69	6611.75	0.04	1078.01	1077.97	3.54	-1.72	3.09	MWD
7426.00	88.52	92.26	6611.98	-1.03	1108.99	1108.96	7.02	-6.77	1.84	MWD
7457.00	87.96	92.14	6612.94	-2.22	1139.96	1139.93	1.85	-1.81	-0.39	MWD
7489.00	89.51	91.98	6613.64	-3.37	1171.93	1171.91	4.87	4.84	-0.50	MWD
7521.00	91.30	91.80	6613.42	-4.42	1203.91	1203.90	5.62	5.59	-0.56	MWD
7553.00	91.85	91.72	6612.54	-5.41	1235.88	1235.88	1.74	1.72	-0.25	MWD
7585.00	90.99	91.79	6611.74	-6.39	1267.85	1267.86	2.70	-2.69	0.22	MWD
7617.00	88.40	91.36	6611.91	-7.26	1299.84	1299.85	8.20	-8.09	-1.34	MWD
7649.00	87.41	90.67	6613.08	-7.83	1331.81	1331.83	3.77	-3.09	-2.16	MWD
7680.00	87.65	90.60	6614.42	-8.17	1362.78	1362.80	0.81	0.77	-0.23	MWD
7712.00	89.07	90.51	6615.34	-8.48	1394.77	1394.78	4.45	4.44	-0.28	MWD
7744.00	90.43	90.35	6615.48	-8.72	1426.76	1426.78	4.28	4.25	-0.50	MWD
7775.00	89.75	90.43	6615.43	-8.94	1457.76	1457.78	2.21	-2.19	0.26	MWD
7806.00	87.47	90.95	6616.18	-9.31	1488.75	1488.77	7.54	-7.35	1.68	MWD
7838.00	86.98	91.07	6617.73	-9.87	1520.71	1520.73	1.58	-1.53	0.37	MWD
7870.00	87.16	90.35	6619.36	-10.27	1552.66	1552.69	2.32	0.56	-2.25	MWD
7902.00	88.77	89.55	6620.50	-10.24	1584.64	1584.67	5.62	5.03	-2.50	MWD
7934.00	90.19	89.06	6620.79	-9.85	1616.64	1616.66	4.69	4.44	-1.53	MWD
7965.00	90.80	89.09	6620.52	-9.35	1647.63	1647.65	1.97	1.97	0.10	MWD
7997.00	90.37	89.68	6620.20	-9.01	1679.63	1679.64	2.28	-1.34	1.84	MWD
8029.00	88.89	90.66	6620.40	-9.10	1711.62	1711.64	5.55	-4.62	3.06	MWD
8061.00	89.07	89.02	6620.97	-9.01	1743.62	1743.63	5.15	0.56	-5.12	MWD
8092.00	89.44	90.42	6621.38	-8.86	1774.61	1774.62	4.67	1.19	4.52	MWD
8124.00	89.81	90.49	6621.59	-9.12	1806.61	1806.62	1.18	1.16	0.22	MWD
8156.00	89.75	90.79	6621.71	-9.47	1838.61	1838.62	0.96	-0.19	0.94	MWD

Weatherford International, Inc.

Survey Report



Weatherford

Company: Mewbourne Oil Company
 Field: EDDY COUNTY, NEW MEXICO
 Site: CROW FLATS 27 FEDERAL #1H
 Well: #1H
 Wellpath: 1

Date: 12/29/2008 Time: 13:47:37 Page: 3
 Co-ordinate(NE) Reference: Well: #1H, Grid North
 Vertical (TVD) Reference: SITE 3620.0
 Section (VS) Reference: Well (0.00N,0.00E,90.52Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8188.00	88.09	91.54	6622.31	-10.12	1870.60	1870.61	5.69	-5.19	2.34	MWD
8220.00	87.84	91.39	6623.45	-10.94	1902.57	1902.59	0.91	-0.78	-0.47	MWD
8252.00	88.21	91.49	6624.55	-11.75	1934.54	1934.56	1.20	1.16	0.31	MWD
8284.00	88.58	91.58	6625.45	-12.60	1966.51	1966.55	1.19	1.16	0.28	MWD
8316.00	89.01	91.55	6626.12	-13.48	1998.49	1998.53	1.35	1.34	-0.09	MWD
8347.00	89.51	91.62	6626.52	-14.33	2029.48	2029.53	1.63	1.61	0.23	MWD
8379.00	88.83	91.15	6626.98	-15.11	2061.47	2061.52	2.58	-2.12	-1.47	MWD
8411.00	86.54	90.72	6628.28	-15.63	2093.43	2093.49	7.28	-7.16	-1.34	MWD
8443.00	85.73	90.26	6630.43	-15.90	2125.36	2125.42	2.91	-2.53	-1.44	MWD
8475.00	86.85	90.35	6632.50	-16.07	2157.29	2157.35	3.51	3.50	0.28	MWD
8507.00	88.21	90.54	6633.88	-16.32	2189.26	2189.32	4.29	4.25	0.59	MWD
8539.00	88.77	90.69	6634.73	-16.66	2221.25	2221.31	1.81	1.75	0.47	MWD
8570.00	89.20	90.65	6635.28	-17.03	2252.24	2252.30	1.39	1.39	-0.13	MWD
8602.00	89.75	90.41	6635.57	-17.32	2284.24	2284.30	1.88	1.72	-0.75	MWD
8634.00	90.12	90.32	6635.60	-17.53	2316.24	2316.30	1.19	1.16	-0.28	MWD
8666.00	90.68	89.71	6635.38	-17.53	2348.23	2348.30	2.59	1.75	-1.91	MWD
8698.00	89.81	90.11	6635.24	-17.48	2380.23	2380.29	2.99	-2.72	1.25	MWD
8730.00	89.01	90.43	6635.57	-17.63	2412.23	2412.29	2.69	-2.50	1.00	MWD
8761.00	89.32	90.23	6636.03	-17.81	2443.23	2443.29	1.19	1.00	-0.65	MWD
8793.00	89.69	90.33	6636.30	-17.97	2475.23	2475.29	1.20	1.16	0.31	MWD
8825.00	90.00	90.17	6636.39	-18.11	2507.23	2507.29	1.09	0.97	-0.50	MWD
8857.00	90.49	90.40	6636.25	-18.27	2539.22	2539.29	1.69	1.53	0.72	MWD
8888.00	90.00	89.99	6636.12	-18.37	2570.22	2570.29	2.06	-1.58	-1.32	MWD
8920.00	89.20	88.96	6636.34	-18.08	2602.22	2602.28	4.08	-2.50	-3.22	MWD
8952.00	88.70	88.54	6636.93	-17.38	2634.21	2634.26	2.04	-1.56	-1.31	MWD
8984.00	88.83	88.48	6637.62	-16.55	2666.19	2666.23	0.45	0.41	-0.19	MWD
9015.00	89.44	88.52	6638.09	-15.74	2697.18	2697.21	1.97	1.97	0.13	MWD
9047.00	89.69	88.63	6638.33	-14.94	2729.16	2729.19	0.85	0.78	0.34	MWD
9078.00	90.19	88.70	6638.36	-14.22	2760.16	2760.17	1.63	1.61	0.23	MWD
9110.00	89.94	89.14	6638.33	-13.62	2792.15	2792.16	1.58	-0.78	1.37	MWD
9142.00	90.12	89.76	6638.31	-13.31	2824.15	2824.15	2.02	0.56	1.94	MWD
9174.00	90.56	89.72	6638.12	-13.17	2856.15	2856.15	1.38	1.37	-0.12	MWD
9206.00	91.23	89.43	6637.62	-12.93	2888.14	2888.14	2.28	2.09	-0.91	MWD
9238.00	90.86	90.11	6637.04	-12.80	2920.14	2920.13	2.42	-1.16	2.12	MWD
9269.00	89.88	90.58	6636.84	-12.99	2951.14	2951.13	3.51	-3.16	1.52	MWD
9301.00	90.19	90.39	6636.82	-13.26	2983.13	2983.13	1.14	0.97	-0.59	MWD
9333.00	90.62	90.18	6636.59	-13.42	3015.13	3015.13	1.50	1.34	-0.66	MWD
9365.00	90.56	89.90	6636.26	-13.44	3047.13	3047.13	0.89	-0.19	-0.87	MWD
9396.00	89.57	89.62	6636.23	-13.31	3078.13	3078.13	3.32	-3.19	-0.90	MWD
9428.00	89.81	89.74	6636.40	-13.13	3110.13	3110.12	0.84	0.75	0.37	MWD
9460.00	89.38	89.59	6636.62	-12.94	3142.13	3142.12	1.42	-1.34	-0.47	MWD
9492.00	88.40	89.66	6637.24	-12.73	3174.12	3174.11	3.07	-3.06	0.22	MWD
9524.00	88.58	89.54	6638.09	-12.51	3206.11	3206.09	0.68	0.56	-0.37	MWD
9555.00	89.07	89.19	6638.72	-12.17	3237.10	3237.08	1.94	1.58	-1.13	MWD
9587.00	89.44	89.29	6639.14	-11.74	3269.10	3269.07	1.20	1.16	0.31	MWD
9619.00	88.34	89.19	6639.76	-11.32	3301.09	3301.05	3.45	-3.44	-0.31	MWD
9651.00	87.59	88.63	6640.90	-10.71	3333.06	3333.02	2.92	-2.34	-1.75	MWD
9683.00	87.96	88.73	6642.14	-9.97	3365.03	3364.98	1.20	1.16	0.31	MWD
9714.00	88.52	88.46	6643.09	-9.21	3396.00	3395.95	2.01	1.81	-0.87	MWD
9746.00	88.89	88.58	6643.81	-8.39	3427.98	3427.92	1.22	1.16	0.37	MWD
9778.00	89.45	88.72	6644.28	-7.63	3459.97	3459.90	1.80	1.75	0.44	MWD
9810.00	89.75	88.56	6644.50	-6.87	3491.96	3491.88	1.06	0.94	-0.50	MWD
9842.00	90.25	88.58	6644.50	-6.08	3523.95	3523.86	1.56	1.56	0.06	MWD

Weatherford International, Inc.

Survey Report


Weatherford

Company: Mewbourne Oil Company
 Field: EDDY COUNTY, NEW MEXICO
 Site: CROW FLATS 27 FEDERAL #1H
 Well: #1H
 Wellpath: 1

Date: 12/29/2008 Time: 13:47:37 Page: 4
 Co-ordinate(NE) Reference: Well: #1H, Grid North
 Vertical (TVD) Reference: SITE 3620.0
 Section (VS) Reference: Well (0.00N,0.00E,90.52Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9873.00	90.86	88.40	6644.20	-5.26	3554.94	3554.84	2.05	1.97	-0.58	MWD
9905.00	90.35	88.62	6643.86	-4.43	3586.93	3586.82	1.74	-1.59	0.69	MWD
9937.00	89.91	88.62	6643.79	-3.66	3618.92	3618.80	1.37	-1.37	0.00	MWD
9969.00	90.09	88.45	6643.79	-2.84	3650.91	3650.78	0.77	0.56	-0.53	MWD
10001.00	90.37	88.17	6643.66	-1.89	3682.89	3682.76	1.24	0.87	-0.87	MWD
10033.00	90.19	88.34	6643.50	-0.92	3714.88	3714.73	0.77	-0.56	0.53	MWD
10064.00	90.19	88.31	6643.40	-0.01	3745.86	3745.71	0.10	0.00	-0.10	MWD
10096.00	90.35	88.27	6643.25	0.94	3777.85	3777.69	0.52	0.50	-0.12	MWD
10128.00	89.75	88.36	6643.22	1.88	3809.83	3809.66	1.90	-1.87	0.28	MWD
10160.00	89.38	88.46	6643.47	2.77	3841.82	3841.64	1.20	-1.16	0.31	MWD
10192.00	89.65	88.27	6643.74	3.68	3873.81	3873.62	1.03	0.84	-0.59	MWD
10224.00	89.38	88.84	6644.01	4.49	3905.80	3905.60	1.97	-0.84	1.78	MWD
10256.00	89.14	89.09	6644.42	5.07	3937.79	3937.58	1.08	-0.75	0.78	MWD
10287.00	89.51	88.78	6644.79	5.64	3968.78	3968.57	1.56	1.19	-1.00	MWD
10319.00	89.75	89.30	6644.99	6.18	4000.78	4000.56	1.79	0.75	1.62	MWD
10350.00	89.26	89.04	6645.26	6.63	4031.77	4031.55	1.79	-1.58	-0.84	MWD
10381.00	89.21	88.62	6645.67	7.26	4062.76	4062.53	1.36	-0.16	-1.35	MWD
10413.00	89.56	88.45	6646.02	8.08	4094.75	4094.51	1.22	1.09	-0.53	MWD
10445.00	88.64	88.28	6646.52	8.99	4126.73	4126.48	2.92	-2.87	-0.53	MWD
10477.00	86.48	87.59	6647.88	10.14	4158.68	4158.42	7.09	-6.75	-2.16	MWD
10509.00	86.56	87.39	6649.83	11.54	4190.59	4190.32	0.67	0.25	-0.62	MWD
10541.00	87.18	87.39	6651.57	13.00	4222.51	4222.22	1.94	1.94	0.00	MWD
10573.00	87.59	87.12	6653.03	14.53	4254.44	4254.13	1.53	1.28	-0.84	MWD
10604.00	87.96	87.21	6654.24	16.06	4285.38	4285.06	1.23	1.19	0.29	MWD
10636.00	88.33	86.95	6655.27	17.69	4317.32	4316.98	1.41	1.16	-0.81	MWD
10668.00	88.83	86.81	6656.07	19.43	4349.26	4348.91	1.62	1.56	-0.44	MWD
10700.00	89.38	86.73	6656.56	21.23	4381.21	4380.84	1.74	1.72	-0.25	MWD
10732.00	89.75	86.82	6656.81	23.04	4413.16	4412.77	1.19	1.16	0.28	MWD
10764.00	88.46	87.85	6657.31	24.52	4445.12	4444.71	5.16	-4.03	3.22	MWD
10796.00	85.61	88.80	6658.96	25.46	4477.06	4476.64	9.39	-8.91	2.97	MWD
10827.00	85.43	88.57	6661.38	26.17	4507.95	4507.53	0.94	-0.58	-0.74	MWD
10859.00	85.62	88.24	6663.88	27.05	4539.84	4539.41	1.19	0.59	-1.03	MWD
10891.00	85.92	88.03	6666.24	28.09	4571.74	4571.30	1.14	0.94	-0.66	MWD
10923.00	86.21	88.09	6668.44	29.17	4603.64	4603.19	0.93	0.91	0.19	MWD
10954.00	86.74	87.92	6670.34	30.25	4634.57	4634.11	1.80	1.71	-0.55	MWD
10986.00	87.22	87.98	6672.03	31.39	4666.50	4666.03	1.51	1.50	0.19	LAST SVY @ 10986' MD
11051.00	87.22	87.98	6675.18	33.68	4731.39	4730.89	0.00	0.00	0.00	PROJ TO BIT

Annotation

MD ft	TVD ft	
5657.00	5656.80	TIE ON
10986.00	6672.03	LAST SVY @ 10986' MD
11051.00	6675.18	PROJ TO BIT

Final

FINAL



CROW FLATS 27 FEDERAL #1H
SECTION 27/28-16S-28E
EDDY COUNTY, NEW MEXICO

RIG: PATTERSON UTI 45

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5657.00	0.56	141.44	5656.80	-2.11	-2.31	0.00	0.00	-2.29	
2	5675.67	0.00	90.35	5675.46	-2.18	-2.25	3.00	180.00	-2.23	
3	5850.16	0.00	90.35	5849.96	-2.18	-2.25	0.00	0.00	-2.23	
4	7036.27	89.41	90.35	6610.00	-6.77	749.99	7.54	90.35	750.02	LP
5	7041.85	89.41	90.52	6610.06	-6.81	755.57	3.00	89.39	755.61	
6	11906.64	89.41	90.52	6660.00	-50.70	5619.91	0.00	0.00	5620.14	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#1H	0.00	0.00	690970.59	548841.04	32°53'58.042N	104°10'27.142W	N/A

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
LP	6610.00	-6.77	749.99	Point
PBHL	6660.00	-50.70	5619.91	Point

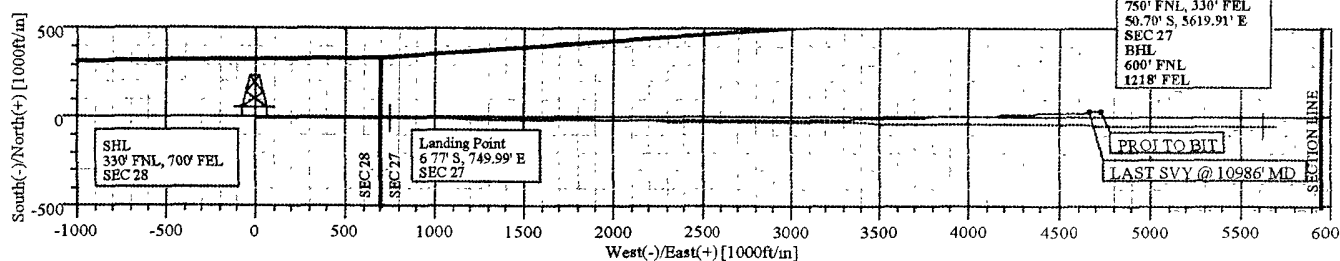
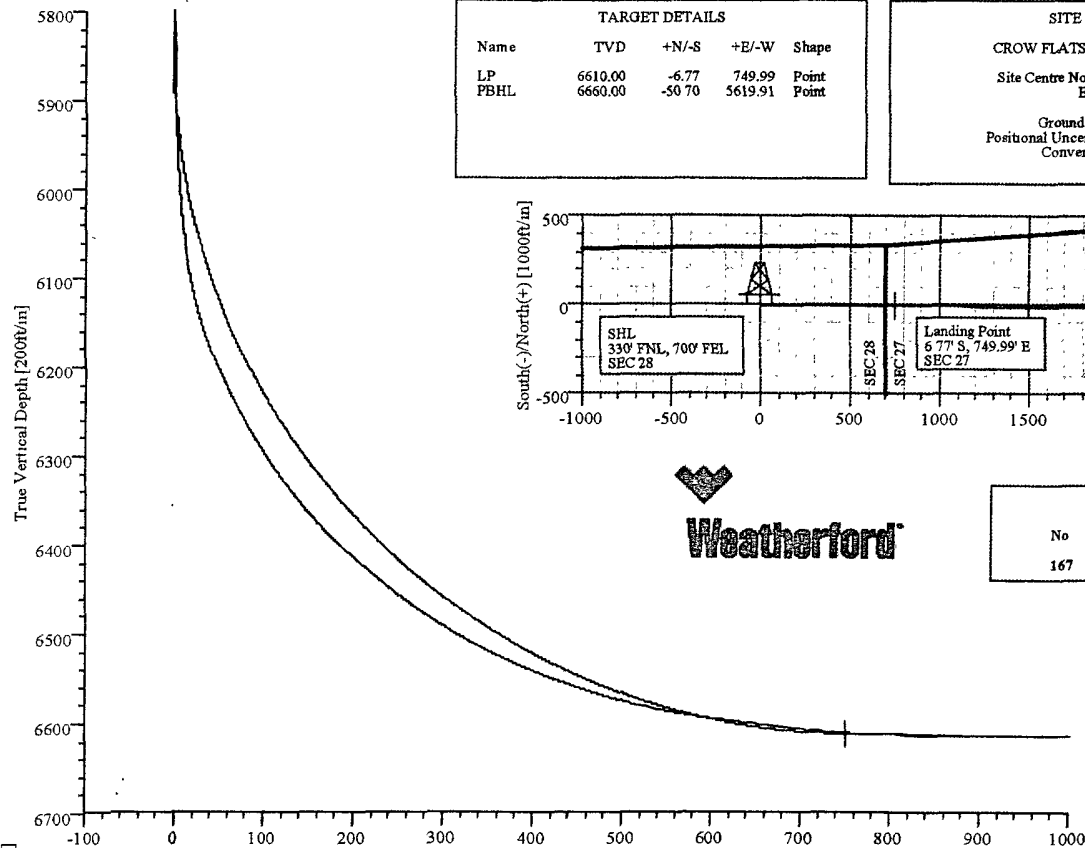
SITE DETAILS	
CROW FLATS 27 FEDERAL #1H	
Site Centre Northing:	690970.59
Easting:	548841.04
Ground Level:	3602.00
Positional Uncertainty:	0.00
Convergence:	0.09

Azimuths to Grid North
 True North: -0.09°
 Magnetic North: 8.21°

Magnetic Field
 Strength: 492.77nT
 Dip Angle: 60.78°
 Date: 9/9/2008
 Model: bggm2007

FIELD DETAILS	
EDDY COUNTY, NEW MEXICO	
Geodetic System	US State Plane Coordinate System 1927
Ellipsoid	NAD27 (Clarke 1866)
Zone	New Mexico, Eastern Zone
Magnetic Model	bggm2007
System Datum	Mean Sea Level
Local North	Grid North

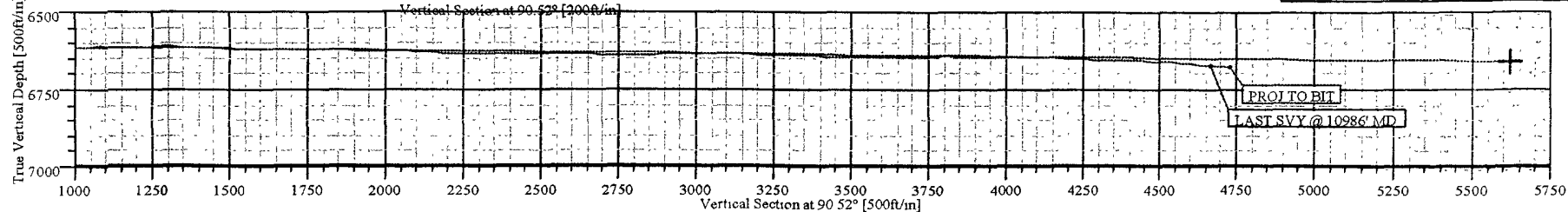
KB ELEVATION 2564
 GR ELEVATION 2546



Proj to Bit Survey: WFT SVY (#1H/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
167	11051.00	87.22	87.98	6675.18	33.68	4731.39	0.00	0.00	4730.89	

Survey WFT SVY (#1H/1)
 Created By: Lindsey Maddux Date: 12/29/2008

LEGEND	
	#1H, Plan #3
	WFT SVY





TOC: 5800' EOC: 7000'

7"X4 1/2" ISO-PAK
@ 6935'

STRATA-PORT W/ 3.313" I.D.
@ 7042' 2365 psig

7" X4 1/2" ISO-PAK
@ 7195'

STRATA-PORT W/ 3.063" I.D.
@ 7359' 2365 psig

7"X4 1/2" ISO-PAK
@ 7622'

STRATA-PORT W/ 2.813" I.D.
@ 7903' : 2365 psig

7"X4 1/2" ISO-PAK
@ 8180'

STRATA-PORT W/ 2.563" I.D.
@ 8461' : 2365 psig

7"X4 1/2" ISO-PAK
@ 8710'

STRATA-PORT W/ 2.313" I.D.
@ 8955' : 2365 psig

7"X4 1/2" ISO-PAK
@ 9219'

STRATA-PORT W/ 2.063" I.D.
@ 9501' : 2365 psig

7"X4 1/2" ISO-PAK
@ 9726'

STRATA-PORT W/ 1.813" I.D.
@ 9953' 2365psig

7"X4 1/2" ISO-PAK
@ 10164'

STRATA-PORT W/ 1.563" I.D.
@ 10406' 2365psig

7"X4 1/2" ISO-PAK
@ 10614'

10833" HydraPort Selective
Frac Sleeve @ 3884 psig

10877" Down Jet
Circulating Sub -
Closed

MD @ 11051'

Liner Hanger RSB 5603"
End of 7" 26# Casing. 5800'

DOWN HOLE WELL PROFILE

WELL NAME	Mewbourn Oil Company			DATE	11/21/08
SUPERVISOR	Mr. M. Young, Mr. J. Byrum, Mr. W. Noseff			TOOL HAND	ROY CHERRY
PHONE #				PHONE #	432-425-0888
RIG #	Patterson # 45			FIELD TICKET #	12071
ELEVATIONS					
KB ELEV	GL ELEV	KB TO THF	KB TO SCF	RIG KBD	TD
				16	11051.00
CASING / OPEN HOLE LAYOUT	OD (IN)	LANDED DEPTH		WT (LB/FT)	TOP
CASING DESCRIPTION	7	5800.00		26	surf
OPEN HOLE DESCRIPTION	6.125	11051.00			5800
OPEN HOLE DESCRIPTION				JUNCTION @	
DESCRIPTION					
Top of curve @ 5800', End of Curve @ 7000', TVD 6600', MTD: 11051'					
Comments					
4-1/2" 11.60# P-110 BTC casing from liner hanger (5603') to top Iso-pak (6923')					
4-1/2" 11.60# P-110 LTC casing from below top Iso-pak to Down Jet Circ. Sub					
DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)					
BOTTOM @	DESCRIPTION			LENGTH	ID OD
10876.70	Peak Down Jet Circulating sub with 3/4" ball seat 3-1/2" 8 md pin			2.51	0.750 3.750
10874.19	3-1/2" 8 md collar			0.49	3.000 4.530
10873.70	3-1/2" 8 md pin x 4-1/2" LTC box Swedge			0.54	3.000 5.030
10873.16	1 Jts 4-1/2" 11.60# P-110 LTC Liner 1t #3			40.16	4.000 4.500
10833.00	Peak HydroStrata-Port Frac Sleeve 1			2.47	3.940 5.880
10830.53	5+1sj Jts 4-1/2" 11.60# P-110 LTC Liner 4-8 & 155			213.55	4.000 4.500
10816.98	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
10814.88	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
10814.30	4-1/2 LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 2			4.95	3.996 5.700
10609.35	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
10602.67	5 Jts 4-1/2" 11.60# P-110 LTC Liner 9-13			199.63	4.000 4.500
10406.04	Peak Strata-Port Selective Frac Sleeve w/ 1.563 ID seat 3			2.90	1.563 5.875
10403.14	5 Jts+ 2 SJ 4-1/2" 11.60# P-110 LTC Liner 14-18 & 149 & 159			236.73	4.000 4.500
10166.41	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
10164.31	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
10163.73	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 4			4.95	3.996 5.700
10158.78	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
10152.10	5 Jts 4-1/2" 11.60# P-110 LTC Liner 19-23			199.59	4.000 4.500
9952.51	Peak Strata-Port Selective Frac Sleeve w/ 1.813 ID seat 5			2.90	1.813 5.875
9949.61	5 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 24-28 & 158			220.94	4.000 4.500
9728.67	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
9726.57	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
9725.99	4-1/2 LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 6			4.95	3.996 5.700
9721.04	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
9714.36	5 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 29-33 & 153			213.03	4.000 4.500
9501.33	Peak Strata-Port Selective Frac Sleeve w/ 2.063 ID seat 7			2.90	2.063 5.875
9498.43	7 Jts 4-1/2" 11.60# P-110 LTC Liner 34-40			276.95	4.000 4.500
9221.48	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
9219.38	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
9218.80	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 8			4.95	3.996 5.700
9213.85	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
9207.17	6 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 41-46 & 152			252.45	4.000 4.500
8954.72	Peak Strata-Port Selective Frac Sleeve w/ 2.313 ID seat 9			2.90	2.313 5.875
8951.82	6 Jts 4-1/2" 11.60# P-110 LTC Liner 47-52			238.87	4.000 4.500
8712.95	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
8710.85	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
8710.27	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 10			4.95	3.996 5.700
8705.32	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
8698.64	6 Jts 4-1/2" 11.60# P-110 LTC Liner 53-58			237.99	4.000 4.500
8460.65	Peak Strata-Port Selective Frac Sleeve w/ 2.563 ID seat 11			2.90	2.563 5.875
8457.75	7 Jts 4-1/2" 11.60# P-110 LTC Liner 59-65			275.01	4.000 4.500
8182.74	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
8180.64	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
8180.06	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 12			4.95	3.996 5.700
8175.11	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
8168.43	6 Jts+ 2 SJ 4-1/2" 11.60# P-110 LTC Liner 66-71 & 150 & 154			265.49	4.000 4.500
7902.94	Peak Strata-Port Selective Frac Sleeve w/ 2.813 ID seat 13			2.90	2.813 5.875
7900.04	7 Jts 4-1/2" 11.60# P-110 LTC Liner 72-78			274.98	4.000 4.500
7625.06	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
7622.96	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
7622.38	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 14			4.95	3.996 5.700
7617.43	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
7610.75	6 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 79-84 & 151			252.06	4.000 4.500
7358.69	Peak Strata-Port Selective Frac Sleeve w/ 3.063 ID seat 15			2.90	3.063 5.875
7355.79	4 Jts 4-1/2" 11.60# P-110 LTC Liner 85-88			157.85	4.000 4.500
7197.94	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
7195.84	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
7195.26	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 16			4.95	3.996 5.700
7190.31	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
7183.63	3 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 89-91 & 157			141.70	4.000 4.500
7041.93	Peak Strata-Port Selective Frac Sleeve w/ 3.313 ID seat 17			2.90	3.313 5.875
7039.03	2 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 92-93 & 156			101.18	4.000 4.500
6937.85	4-1/2 LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)			2.10	3.920 4.500
6935.75	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box			0.58	3.996 5.940
6935.17	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK - 4-1/2" LTC pin 18			4.95	3.996 5.700
6930.22	4-1/2" BTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)			6.68	3.920 4.500
6923.54	31 Jts 4-1/2" 11.60# P-110 BTC Liner 107-137			1319.69	4.000 4.500
5603.85	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" BTC pin (1' pup jt)			1.05	3.920 4.500
5602.8	Peak 10K Retrivable Seal Bore Hanger 4-1/2" LTC 19			4.25	3.000 5.940
5598.55	3-1/2" 8 md Peak Hydraulic Dual Stage Setting Tool			5.05	0.000 5.830
5593.5	3-1/2" IF X 3-1/2" 8 md Crossover			1.30	2.375 4.750
5582.2	3-1/2" IF Pup Joint			7.66	2.250 4.750
5584.54	39 Joints (13 Std) of 3-1/2" IF Drill Collars			1194.56	2.25 4.750
4389.98	138 Joints (46 Std) of 3-1/2" IF 15.50# Drill Pipe			4392.91	2.602 3.500
-2.93	Stick-up			0.00	
			Push-Pull Test @ 25K lbs		
			Pressure Test backside: 1500 psig		

*** CONFIDENTIAL ***
NOT TO BE DISCLOSED OUTSIDE
** Mewbourne Oil Company **

	Description	Length	TD of BOT	Wanted TD	ID	OD	Diff
1	Peak Down Jet Circulating sub with 3/4" ball seat 3-1/2" 8 md pin	2.51	10876.70		0.750	3.750	
2	3-1/2" 8 md collar	0.49	10874.19		3.000	4.530	
3	3-1/2" 8 md pin x 4-1/2" LTC box Swedge	0.54	10873.70		3.000	5.030	
4	1 Jts 4-1/2" 11.60# P-110 LTC Liner jt #3	40.16	10873.16		4.000	4.500	
5	Peak HydroStrata-Port Frac Sleeve 1	2.47	10833.00	10830.00	3.940	5.880	3.00
6	5+1sj Jts 4-1/2" 11.60# P-110 LTC Liner 4-8 & 155	213.55	10830.53		4.000	4.500	
7	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	10616.98		3.920	4.500	
8	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	10614.88		3.996	5.940	
9	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 2	4.95	10614.30		3.996	5.700	
10	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	10609.35		3.920	4.500	
11	5 Jts 4-1/2" 11.60# P-110 LTC Liner 9-13	196.63	10602.67		4.000	4.500	
12	Peak Strata-Port Selective Frac Sleeve w/ 1.563 ID seat 3	2.90	10406.04	10400.00	1.563	5.875	6.04
13	5 Jts+ 2 SJ 4-1/2" 11.60# P-110 LTC Liner 14-18 & 149 & 159	236.73	10403.14		4.000	4.500	
14	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	10166.41		3.920	4.500	
15	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	10164.31		3.996	5.940	
16	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 4	4.95	10163.73		3.996	5.700	
17	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	10158.78		3.920	4.500	
18	5 Jts 4-1/2" 11.60# P-110 LTC Liner 19-23	199.59	10152.10		4.000	4.500	
19	Peak Strata-Port Selective Frac Sleeve w/ 1.813 ID seat 5	2.90	9952.51	9950.00	1.813	5.875	2.51
20	5 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 24-28 & 158	220.94	9949.61		4.000	4.500	
21	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	9728.67		3.920	4.500	
22	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	9726.57		3.996	5.940	
23	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 6	4.95	9725.99		3.996	5.700	
24	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	9721.04		3.920	4.500	
25	5 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 29-33 & 153	213.03	9714.36		4.000	4.500	
26	Peak Strata-Port Selective Frac Sleeve w/ 2.063 ID seat 7	2.90	9501.33	9500.00	2.063	5.875	1.33
27	7 Jts 4-1/2" 11.60# P-110 LTC Liner 34-40	276.95	9498.43		4.000	4.500	
28	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	9221.48		3.920	4.500	
29	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	9219.38		3.996	5.940	
30	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 8	4.95	9218.80		3.996	5.700	
31	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	9213.85		3.920	4.500	
32	6 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 41-46 & 152	252.45	9207.17		4.000	4.500	
33	Peak Strata-Port Selective Frac Sleeve w/ 2.313 ID seat 9	2.90	8954.72	8950.00	2.313	5.875	4.72
34	6 Jts 4-1/2" 11.60# P-110 LTC Liner 47-52	238.87	8951.82		4.000	4.500	
35	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	8712.95		3.920	4.500	
36	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	8710.85		3.996	5.940	
37	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 10	4.95	8710.27		3.996	5.700	
38	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	8705.32		3.920	4.500	
39	6 Jts 4-1/2" 11.60# P-110 LTC Liner 53-58	237.99	8698.64		4.000	4.500	
40	Peak Strata-Port Selective Frac Sleeve w/ 2.563 ID seat 11	2.90	8460.65	8460.00	2.563	5.875	0.65
41	7 Jts 4-1/2" 11.60# P-110 LTC Liner 59-65	275.01	8457.75		4.000	4.500	
42	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	8182.74		3.920	4.500	
43	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	8180.64		3.996	5.940	
44	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 12	4.95	8180.06		3.996	5.700	
45	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	8175.11		3.920	4.500	
46	6 Jts+ 2 SJ 4-1/2" 11.60# P-110 LTC Liner 66-71 & 150 & 154	265.49	8168.43		4.000	4.500	
47	Peak Strata-Port Selective Frac Sleeve w/ 2.813 ID seat 13	2.90	7902.94	7900.00	2.813	5.875	2.94
48	7 Jts 4-1/2" 11.60# P-110 LTC Liner 72-78	274.98	7900.04		4.000	4.500	
49	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	7625.06		3.920	4.500	
50	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	7622.96		3.996	5.940	
51	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 14	4.95	7622.38		3.996	5.700	
52	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	7617.43		3.920	4.500	
53	6 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 79-84 & 151	252.06	7610.75		4.000	4.500	
54	Peak Strata-Port Selective Frac Sleeve w/ 3.063 ID seat 15	2.90	7358.69	7360.00	3.063	5.875	-1.31
55	4 Jts 4-1/2" 11.60# P-110 LTC Liner 85-88	157.85	7355.79		4.000	4.500	
56	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	7197.94		3.920	4.500	
57	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	7195.84		3.996	5.940	
58	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 16	4.95	7195.26		3.996	5.700	
59	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	7190.31		3.920	4.500	
60	3 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 89-91 & 157	141.70	7183.63		4.000	4.500	
61	Peak Strata-Port Selective Frac Sleeve w/ 3.313 ID seat 17	2.90	7041.93	7035.00	3.313	5.875	6.93
62	2 Jts+ 1 SJ 4-1/2" 11.60# P-110 LTC Liner 92-93 & 156	101.18	7039.03		4.000	4.500	
63	4-1/2" LTC collar & 13.50# P-110 sub x 4-1/2" LTC pin (2' pup joint)	2.10	6937.85		3.920	4.500	
64	Rotational Centralizer 4-1/2" LTC pin X 4-1/2" LTC box	0.58	6935.75		3.996	5.940	
65	4-1/2" LTC pin - Peak 7" x 4.5" ISO PAK 4-1/2" LTC pin 18	4.95	6935.17		3.996	5.700	
66	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC collar (6' pup jt)	6.68	6930.22		3.920	4.500	
67	31 Jts 4-1/2" 11.60# P-110 LTC Liner 107-137	1319.69	6923.54		4.000	4.500	
68	4-1/2" LTC collar & 13.50# P-110 sub w/ 4-1/2" LTC pin (1' pup jt)	1.05	5603.85		3.920	4.500	
69	Peak 10K Retrieivable Seal Bore Hanger 4-1/2" LTC 19	4.25	5602.80	5600.00	3.000	5.940	2.80
70	3-1/2" 8 md Peak Hydraulic Dual Stage Setting Tool	5.05	5598.55		0.000	5.830	
71	3-1/2" IF X 3-1/2" 8 md Crossover	1.30	5593.50		2.375	4.750	
72	3-1/2" IF Pup Joint	7.66	5592.20		2.250	4.750	
73	39 Joints (13 Std) of 3-1/2" IF Drill Collars	1194.56	5584.54			4.750	
74	138 Joints (46 Std) of 3-1/2" IF 15.50# Drill Pipe	4392.91	4389.98		2.602	3.500	
75	Stick-up	0.00	-2.93				
76							
77							