

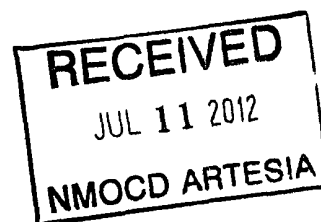
OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE BRADLEY 30 FED # 2H
COUNTY EDDY

046-0078

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-40167

205	0.67
381	2.07
675	1.88
950	1.10
1,204	0.65
1,374	0.51
1,760	0.88
2,173	0.99
2,427	0.36
2,680	0.11
2,934	0.66
3,188	0.50
3,441	0.69
3,695	0.45
3,885	0.25
4,139	0.81
4,391	1.11
4,645	0.96
4,898	0.93
5,151	0.72
5,377	1.05
5,568	1.10
5,821	1.67
6,042	1.63
6,169	2.19
6,296	2.44
6,423	2.76
6,582	4.50
6,645	4.00
6,740	4.23
6,990	2.18
7,116	0.94



BY:

Kyle Hollingsworth

STATE OF TEXAS

COUNTY OF MIDLAND

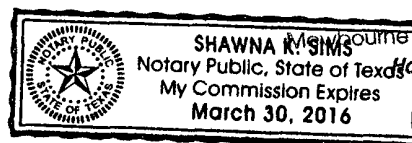
The foregoing instrument was acknowledged before me on 6/15/12, by Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.

Received

Shawna K. Sims

Notary Public for Midland County, Texas
My Commission Expires:

JUN 18 2012



SHAWNA K. SIMS
Notary Public, State of Texas
My Commission Expires
March 30, 2016



Company: Mewbourne Oil Company
Lease/Well: Bradley 30 Federal/No. 002H

Rig Name: Patterson 46
State/County: New Mexico/Eddy
Latitude: 32.71

GRID North is 0.18 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB= 20 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bradley 30 fed 2h ha gyro_ed.ut

Minimum Curvature Method

Report Date/Time: 6/1/2012 / 10:10

Vaughn Energy Services

Midland, Texas

(432) 563-5444

Surveyor: Troy Hardin

Bradley 30 Federal No. 002 / API 30-015-40167

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	0.71	229.15	100.00	-0.41	-0.47	-0.41	0.62	229.15	0.71
200.00	0.67	217.69	199.99	-1.28	-1.30	-1.28	1.83	225.49	0.14
300.00	1.55	224.16	299.97	-2.71	-2.60	-2.71	3.76	223.80	0.88
400.00	2.34	238.94	399.91	-4.74	-5.29	-4.74	7.10	228.18	0.94
500.00	2.14	221.34	499.84	-7.19	-8.28	-7.19	10.97	229.01	0.71
600.00	1.46	230.36	599.79	-9.41	-10.50	-9.41	14.10	228.12	0.73
700.00	1.84	215.73	699.75	-11.52	-12.41	-11.52	16.94	227.13	0.56
800.00	1.88	216.30	799.69	-14.14	-14.32	-14.14	20.13	225.35	0.04
900.00	1.20	188.67	899.66	-16.50	-15.44	-16.50	22.60	223.12	0.99
1000.00	0.86	214.46	999.64	-18.14	-16.02	-18.14	24.21	221.45	0.57
1100.00	0.92	200.79	1099.63	-19.51	-16.73	-19.51	25.70	220.62	0.22
1200.00	1.14	194.89	1199.61	-21.23	-17.27	-21.23	27.37	219.14	0.25
1300.00	0.50	185.70	1299.60	-22.63	-17.57	-22.63	28.65	217.84	0.65
1400.00	0.68	237.39	1399.60	-23.38	-18.12	-23.38	29.58	217.77	0.54
1500.00	0.71	222.37	1499.59	-24.16	-19.03	-24.16	30.76	218.23	0.18
1600.00	0.42	300.23	1599.59	-24.44	-19.77	-24.44	31.43	218.97	0.75
1700.00	0.29	276.58	1699.59	-24.22	-20.33	-24.22	31.63	220.01	0.19
1800.00	0.82	356.42	1799.58	-23.48	-20.63	-23.48	31.25	221.31	0.82

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	1.39	39.41	1899.56	-21.82	-19.90	-21.82	29.53	222.37	0.97
2000.00	1.60	12.79	1999.53	-19.52	-18.82	-19.52	27.11	223.96	0.72
2100.00	1.69	42.01	2099.49	-17.05	-17.52	-17.05	24.45	225.78	0.84
2200.00	1.21	53.59	2199.46	-15.33	-15.69	-15.33	21.94	225.66	0.56
2300.00	1.02	56.63	2299.44	-14.22	-14.10	-14.22	20.02	224.76	0.20
2400.00	0.74	86.07	2399.43	-13.69	-12.72	-13.69	18.68	222.90	0.52
2500.00	0.79	138.81	2499.42	-14.16	-11.62	-14.16	18.32	219.38	0.68
2600.00	0.72	210.41	2599.42	-15.22	-11.49	-15.22	19.07	217.05	0.89
2700.00	0.74	271.66	2699.41	-15.75	-12.46	-15.75	20.08	218.35	0.75
2800.00	0.53	319.64	2799.40	-15.38	-13.41	-15.38	20.40	221.08	0.55
2900.00	0.43	267.92	2899.40	-15.04	-14.08	-15.04	20.60	223.10	0.43
3000.00	1.01	288.39	2999.39	-14.78	-15.29	-14.78	21.26	225.98	0.63
3100.00	0.86	283.07	3099.38	-14.33	-16.86	-14.33	22.13	229.65	0.17
3200.00	0.82	303.65	3199.37	-13.76	-18.19	-13.76	22.81	232.90	0.30
3300.00	0.74	308.37	3299.36	-12.96	-19.29	-12.96	23.25	236.10	0.11
3400.00	0.61	272.42	3399.35	-12.54	-20.32	-12.54	23.88	238.32	0.43
3500.00	0.45	276.19	3499.35	-12.48	-21.24	-12.48	24.64	239.57	0.16
3600.00	0.18	281.48	3599.35	-12.41	-21.79	-12.41	25.07	240.34	0.27
3700.00	0.46	357.09	3699.34	-11.97	-21.96	-11.97	25.01	241.40	0.45
3800.00	0.46	288.76	3799.34	-11.44	-22.36	-11.44	25.12	242.90	0.52
3900.00	0.33	264.11	3899.34	-11.34	-23.02	-11.34	25.66	243.78	0.21
4000.00	0.71	278.07	3999.34	-11.28	-23.92	-11.28	26.45	244.75	0.40
4100.00	1.22	307.02	4099.32	-10.56	-25.38	-10.56	27.49	247.41	0.69
4200.00	1.82	322.45	4199.29	-8.66	-27.19	-8.66	28.54	252.34	0.72
4300.00	2.14	331.61	4299.23	-5.75	-29.05	-5.75	29.62	258.80	0.45
4400.00	2.08	321.32	4399.16	-2.70	-31.07	-2.70	31.19	265.04	0.38
4500.00	1.73	325.25	4499.10	-0.04	-33.06	-0.04	33.06	269.93	0.37
4600.00	1.42	313.89	4599.07	2.05	-34.81	2.05	34.87	273.38	0.44
4700.00	0.84	327.67	4699.05	3.53	-36.10	3.53	36.27	275.59	0.63
4800.00	1.35	316.07	4799.03	5.00	-37.31	5.00	37.64	277.64	0.55
4900.00	1.00	272.10	4899.01	5.88	-39.00	5.88	39.44	278.58	0.94
5000.00	1.65	272.55	4998.98	5.98	-41.31	5.98	41.74	278.24	0.64
5100.00	1.15	297.75	5098.95	6.51	-43.64	6.51	44.12	278.49	0.78
5200.00	1.03	310.58	5198.93	7.56	-45.21	7.56	45.84	279.50	0.27
5300.00	1.52	334.07	5298.91	9.34	-46.47	9.34	47.40	281.37	0.71
5400.00	1.27	10.23	5398.88	11.62	-46.86	11.62	48.28	283.93	0.90
5500.00	1.71	358.57	5498.85	14.20	-46.70	14.20	48.81	286.92	0.53
5600.00	1.57	329.52	5598.81	16.88	-47.43	16.88	50.34	289.59	0.83
5700.00	1.55	305.88	5698.77	18.85	-49.22	18.85	52.71	290.96	0.64

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	2.32	293.03	5798.72	20.43	-52.18	20.43	56.04	291.39	0.88
5900.00	2.02	283.57	5898.64	21.64	-55.76	21.64	59.81	291.21	0.46
6000.00	2.23	288.90	5998.58	22.69	-59.32	22.69	63.51	290.93	0.29
6100.00	1.78	304.62	6098.51	24.20	-62.44	24.20	66.96	291.18	0.71
6200.00	2.82	298.97	6198.43	26.27	-65.87	26.27	70.92	291.75	1.07
6300.00	2.90	291.45	6298.31	28.39	-70.38	28.39	75.89	291.97	0.38
6400.00	2.89	302.78	6398.18	30.68	-74.85	30.68	80.89	292.29	0.57
6500.00	3.84	298.51	6498.01	33.64	-79.91	33.64	86.71	292.83	0.98
6600.00	5.23	270.05	6597.70	35.25	-87.42	35.25	94.26	291.96	2.60
6700.00	4.11	273.03	6697.37	35.44	-95.55	35.44	101.91	290.35	1.14
6800.00	4.22	279.40	6797.11	36.23	-102.77	36.23	108.97	289.42	0.48
6900.00	2.98	279.39	6896.91	37.26	-108.96	37.26	115.16	288.88	1.24
7000.00	2.30	280.66	6996.80	38.05	-113.49	38.05	119.70	288.53	0.68
7100.00	1.91	301.48	7096.74	39.29	-116.89	39.29	123.31	288.58	0.85
7200.00	1.38	305.36	7196.69	40.86	-119.29	40.86	126.10	288.91	0.54
7300.00	1.14	304.09	7296.67	42.12	-121.10	42.12	128.21	289.18	0.25
7400.00	0.88	305.64	7396.65	43.12	-122.54	43.12	129.90	289.39	0.26
7500.00	1.65	299.25	7496.63	44.27	-124.42	44.27	132.06	289.59	0.78
7565.00	1.53	286.94	7561.60	44.98	-126.06	44.98	133.85	289.64	0.55

Mewbourne Oil Co

Eddy County, New Mexico

Sec 30, T18S, R30E

Bradley 30 Federal #2H

Wellbore #1

Survey: MWD

DDC Survey Report

13 June, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bradley 30 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3463.0usft (Patterson-UTI 46)
Site:	Sec 30, T18S, R30E	MD Reference:	WELL @ 3463.0usft (Patterson-UTI 46)
Well:	Bradley 30 Federal Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Sec 30, T18S, R30E			
Site Position:		Northing:	622,986.86 usft	Latitude:	32° 42' 44.110 N
From:	Lat/Long	Easting:	601,612.61 usft	Longitude:	104° 0' 10.680 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.18 °

Well:	Bradley 30 Federal Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	622,986.86 usft	Latitude:	32° 42' 44.110 N
	+E/-W	0.0 usft	Easting:	601,612.61 usft	Longitude:	104° 0' 10.680 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,445.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/3/2012	7 75	60 55	48.807

Design:	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	269.91	

Survey Program		Date 6/13/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,565.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,700.0	12,503.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TIE IN @ 7565' MD / 7562' TVD									
7,565.0	1.53	286.94	7,561.6	45.0	-126.1	126.0	0.00	0.00	0.00
7,700.0	2.00	264.40	7,696.5	45.3	-130.1	130.1	0.61	0.35	-16.70
7,732.0	1.70	258.10	7,728.5	45.1	-131.1	131.1	1.13	-0.94	-19.69
7,764.0	4.10	269.60	7,760.5	45.0	-132.8	132.7	7.68	7.50	35.94
7,796.0	8.40	273.20	7,792.3	45.1	-136.2	136.2	13.49	13.44	11.25
7,827.0	12.90	274.40	7,822.7	45.5	-141.9	141.9	14.53	14.52	3.87
7,859.0	17.00	272.00	7,853.7	46.0	-150.2	150.1	12.96	12.81	-7.50
7,890.0	20.40	269.40	7,883.0	46.1	-160.1	160.0	11.29	10.97	-8.39
7,922.0	24.10	268.20	7,912.6	45.8	-172.2	172.2	11.65	11.56	-3.75

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 30, T18S, R30E
Well: Bradley 30 Federal Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Bradley 30 Federal Com #2H
WELL @ 3463.0usft (Patterson-UT1 46)
WELL @ 3463.0usft (Patterson-UT1 46)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,953.0	27.80	268.40	7,940.5	45.4	-185.8	185.7	11.94	11.94	0.65
7,985.0	31.10	269.80	7,968.4	45.2	-201.5	201.4	10.53	10.31	4.38
8,017.0	34.70	269.60	7,995.2	45.1	-218.9	218.8	11.26	11.25	-0.63
8,049.0	39.00	268.60	8,020.8	44.8	-238.1	238.0	13.57	13.44	-3.13
8,080.0	43.30	268.00	8,044.2	44.2	-258.5	258.4	13.93	13.87	-1.94
8,112.0	46.50	268.80	8,066.8	43.5	-281.0	281.0	10.15	10.00	2.50
8,144.0	49.50	269.80	8,088.2	43.2	-304.8	304.7	9.66	9.38	3.13
8,175.0	53.40	269.80	8,107.5	43.2	-329.1	329.0	12.58	12.58	0.00
8,207.0	58.00	269.00	8,125.6	42.9	-355.5	355.4	14.52	14.38	-2.50
8,239.0	61.20	268.70	8,141.8	42.3	-383.1	383.0	10.03	10.00	-0.94
8,271.0	64.60	269.40	8,156.3	41.9	-411.6	411.5	10.80	10.63	2.19
8,302.0	68.40	269.90	8,168.7	41.7	-440.0	439.9	12.35	12.26	1.61
8,334.0	71.50	270.10	8,179.7	41.7	-470.0	470.0	9.71	9.69	0.63
8,366.0	74.20	270.00	8,189.1	41.7	-500.6	500.5	8.44	8.44	-0.31
8,397.0	77.10	269.80	8,196.8	41.7	-530.6	530.6	9.38	9.35	-0.65
8,424.0	79.70	269.80	8,202.2	41.6	-557.1	557.0	9.63	9.63	0.00
8,513.0	84.90	268.00	8,214.1	39.9	-645.2	645.2	6.18	5.84	-2.02
8,544.0	84.50	268.00	8,217.0	38.8	-676.1	676.0	1.29	-1.29	0.00
8,576.0	85.00	268.00	8,219.9	37.7	-707.9	707.9	1.56	1.56	0.00
8,608.0	86.50	268.40	8,222.3	36.7	-739.8	739.8	4.85	4.69	1.25
8,640.0	88.20	268.50	8,223.8	35.8	-771.8	771.7	5.32	5.31	0.31
8,671.0	90.40	269.50	8,224.2	35.3	-802.8	802.7	7.80	7.10	3.23
8,702.0	91.50	269.30	8,223.6	34.9	-833.8	833.7	3.61	3.55	-0.65
8,734.0	91.50	269.50	8,222.8	34.6	-865.7	865.7	0.62	0.00	0.63
8,766.0	91.20	269.40	8,222.1	34.3	-897.7	897.7	0.99	-0.94	-0.31
8,798.0	90.70	269.30	8,221.5	33.9	-929.7	929.7	1.59	-1.56	-0.31
8,830.0	90.50	270.00	8,221.2	33.7	-961.7	961.7	2.27	-0.63	2.19
8,862.0	91.60	270.00	8,220.6	33.7	-993.7	993.7	3.44	3.44	0.00
8,926.0	91.30	269.20	8,219.0	33.3	-1,057.7	1,057.6	1.33	-0.47	-1.25
8,989.0	90.90	268.80	8,217.8	32.2	-1,120.7	1,120.6	0.90	-0.63	-0.53
9,053.0	90.60	267.80	8,216.9	30.3	-1,184.6	1,184.6	1.63	-0.47	-1.56
9,116.0	91.40	268.70	8,215.8	28.4	-1,247.6	1,247.6	1.91	1.27	1.43
9,180.0	91.00	268.10	8,214.5	26.6	-1,311.6	1,311.5	1.13	-0.63	-0.94
9,243.0	91.00	268.30	8,213.4	24.6	-1,374.5	1,374.5	0.32	0.00	0.32
9,307.0	90.90	268.60	8,212.3	22.9	-1,438.5	1,438.4	0.49	-0.16	0.47
9,370.0	90.20	268.30	8,211.7	21.2	-1,501.5	1,501.4	1.21	-1.11	-0.48
9,434.0	91.20	268.60	8,210.9	19.4	-1,565.4	1,565.4	1.63	1.56	0.47
9,498.0	91.90	269.80	8,209.2	18.5	-1,629.4	1,629.4	2.17	1.09	1.88
9,562.0	91.60	269.80	8,207.3	18.3	-1,693.4	1,693.3	0.47	-0.47	0.00
9,625.0	91.20	269.60	8,205.7	18.0	-1,756.3	1,756.3	0.71	-0.63	-0.32
9,688.0	91.00	269.40	8,204.5	17.4	-1,819.3	1,819.3	0.45	-0.32	-0.32
9,752.0	90.30	268.20	8,203.8	16.1	-1,883.3	1,883.3	2.17	-1.09	-1.88
9,815.0	91.80	268.60	8,202.6	14.3	-1,946.3	1,946.3	2.46	2.38	0.63

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bradley 30 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3463.0usft (Patterson-UT1 46)
Site:	Sec 30, T18S, R30E	MD Reference:	WELL @ 3463.0usft (Patterson-UT1 46)
Well:	Bradley 30 Federal Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,879.0	91.60	269.80	8,200.7	13.4	-2,010.2	2,010.2	1.90	-0.31	1.88
9,943.0	91.50	270.10	8,199.0	13.4	-2,074.2	2,074.2	0.49	-0.16	0.47
10,006.0	91.60	269.70	8,197.3	13.3	-2,137.2	2,137.2	0.65	0.16	-0.63
10,070.0	91.60	269.20	8,195.5	12.7	-2,201.2	2,201.1	0.78	0.00	-0.78
10,134.0	90.70	270.10	8,194.2	12.3	-2,265.2	2,265.1	1.99	-1.41	1.41
10,197.0	90.30	269.60	8,193.7	12.1	-2,328.1	2,328.1	1.02	-0.63	-0.79
10,260.0	90.20	269.60	8,193.4	11.7	-2,391.1	2,391.1	0.16	-0.16	0.00
10,324.0	90.00	269.90	8,193.3	11.4	-2,455.1	2,455.1	0.56	-0.31	0.47
10,388.0	89.20	269.00	8,193.7	10.8	-2,519.1	2,519.1	1.88	-1.25	-1.41
10,451.0	90.30	269.00	8,194.0	9.7	-2,582.1	2,582.1	1.75	1.75	0.00
10,515.0	92.20	270.10	8,192.6	9.2	-2,646.1	2,646.1	3.43	2.97	1.72
10,578.0	92.30	270.60	8,190.1	9.6	-2,709.1	2,709.0	0.81	0.16	0.79
10,642.0	92.70	271.00	8,187.4	10.5	-2,773.0	2,773.0	0.88	0.63	0.63
10,706.0	91.40	268.90	8,185.1	10.4	-2,836.9	2,836.9	3.86	-2.03	-3.28
10,770.0	89.80	266.80	8,184.4	8.0	-2,900.9	2,900.9	4.12	-2.50	-3.28
10,802.0	88.60	265.60	8,184.8	5.9	-2,932.8	2,932.8	5.30	-3.75	-3.75
10,833.0	89.90	266.50	8,185.2	3.7	-2,963.7	2,963.7	5.10	4.19	2.90
10,865.0	90.80	267.50	8,185.0	2.1	-2,995.7	2,995.7	4.20	2.81	3.13
10,896.0	90.90	267.30	8,184.6	0.7	-3,026.7	3,026.7	0.72	0.32	-0.65
10,928.0	90.90	268.70	8,184.1	-0.5	-3,058.6	3,058.6	4.37	0.00	4.38
10,960.0	91.50	269.40	8,183.4	-1.0	-3,090.6	3,090.6	2.88	1.88	2.19
11,023.0	91.50	271.80	8,181.8	-0.3	-3,153.6	3,153.6	3.81	0.00	3.81
11,087.0	90.30	271.50	8,180.8	1.5	-3,217.6	3,217.5	1.93	-1.88	-0.47
11,150.0	91.20	270.80	8,179.9	2.8	-3,280.5	3,280.5	1.81	1.43	-1.11
11,213.0	90.80	269.90	8,178.8	3.2	-3,343.5	3,343.5	1.56	-0.63	-1.43
11,275.0	91.70	270.20	8,177.5	3.2	-3,405.5	3,405.5	1.53	1.45	0.48
11,339.0	92.70	270.10	8,175.0	3.4	-3,469.5	3,469.5	1.57	1.56	-0.16
11,402.0	92.70	269.70	8,172.1	3.3	-3,532.4	3,532.4	0.63	0.00	-0.63
11,465.0	92.00	270.60	8,169.5	3.4	-3,595.3	3,595.3	1.81	-1.11	1.43
11,497.0	91.90	271.20	8,168.4	3.9	-3,627.3	3,627.3	1.90	-0.31	1.88
11,529.0	91.30	271.30	8,167.5	4.6	-3,659.3	3,659.3	1.90	-1.88	0.31
11,561.0	90.60	271.00	8,167.0	5.3	-3,691.3	3,691.3	2.38	-2.19	-0.94
11,625.0	89.10	271.30	8,167.1	6.6	-3,755.3	3,755.3	2.39	-2.34	0.47
11,688.0	88.40	271.10	8,168.5	7.9	-3,818.2	3,818.2	1.16	-1.11	-0.32
11,752.0	89.80	270.70	8,169.5	8.9	-3,882.2	3,882.2	2.28	2.19	-0.63
11,816.0	90.90	271.60	8,169.1	10.2	-3,946.2	3,946.2	2.22	1.72	1.41
11,879.0	91.30	271.40	8,167.9	11.8	-4,009.2	4,009.1	0.71	0.63	-0.32
11,942.0	91.30	271.00	8,166.5	13.1	-4,072.1	4,072.1	0.63	0.00	-0.63
12,006.0	90.60	269.70	8,165.4	13.5	-4,136.1	4,136.1	2.31	-1.09	-2.03
12,070.0	91.30	270.00	8,164.4	13.4	-4,200.1	4,200.1	1.19	1.09	0.47
12,133.0	91.50	270.70	8,162.8	13.8	-4,263.1	4,263.1	1.16	0.32	1.11
12,197.0	92.00	269.70	8,160.9	14.0	-4,327.1	4,327.0	1.75	0.78	-1.56
12,229.0	92.80	270.10	8,159.5	13.9	-4,359.0	4,359.0	2.79	2.50	1.25

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bradley 30 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3463.0usft (Patterson-UTI 46)
Site:	Sec 30, T18S, R30E	MD Reference:	WELL @ 3463 0usft (Patterson-UTI 46)
Well:	Bradley 30 Federal Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,261.0	92.10	269.90	8,158.2	13.9	-4,391.0	4,391.0	2.27	-2.19	-0.63
12,324.0	90.30	269.60	8,156.8	13.6	-4,454.0	4,454.0	2.90	-2.86	-0.48
12,388.0	90.40	269.50	8,156.4	13.1	-4,518.0	4,518.0	0.22	0.16	-0.16
12,451.0	90.10	268.70	8,156.2	12.2	-4,581.0	4,581.0	1.36	-0.48	-1.27
TD @ 12503' MD / 8156' TVD									
12,503.0	90.10	268.70	8,156.1	11.0	-4,633.0	4,632.9	0.00	0.00	0.00

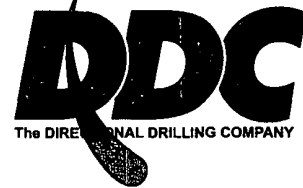
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,565.0	7,561.6	45.0	-126.1	TIE IN @ 7565' MD / 7562' TVD
12,503.0	8,156.1	11.0	-4,633.0	TD @ 12503' MD / 8156' TVD

Checked By _____	Approved By: _____	Date: _____
------------------	--------------------	-------------

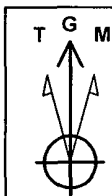
Company Name: Mewbourne Oil Co
 Bradley 30 Federal Com #2H
 Eddy County, New Mexico
 Rig: Patterson-UTI 46
 Created By: Dina Chance
 Date: 6/13/2012

Bradley 30 Federal Com #2H
 Eddy County, New Mexico
 Q110877 & WT-12354



Mewbourne Oil Company

PROJECT DETAILS		Eddy County, New Mexico
Geodetic System	US State Plane 1927 (Exact solution)	
Datum	NAD 1927 (NADCON CONUS)	
Ellipsoid	Clarke 1866	
Zone	New Mexico East 3001	
System Datum	Mean Sea Level	



Azimuths to Grid North

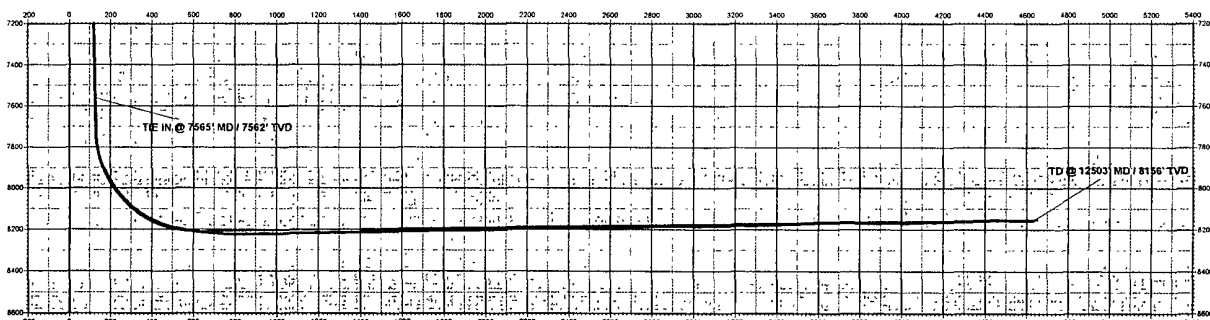
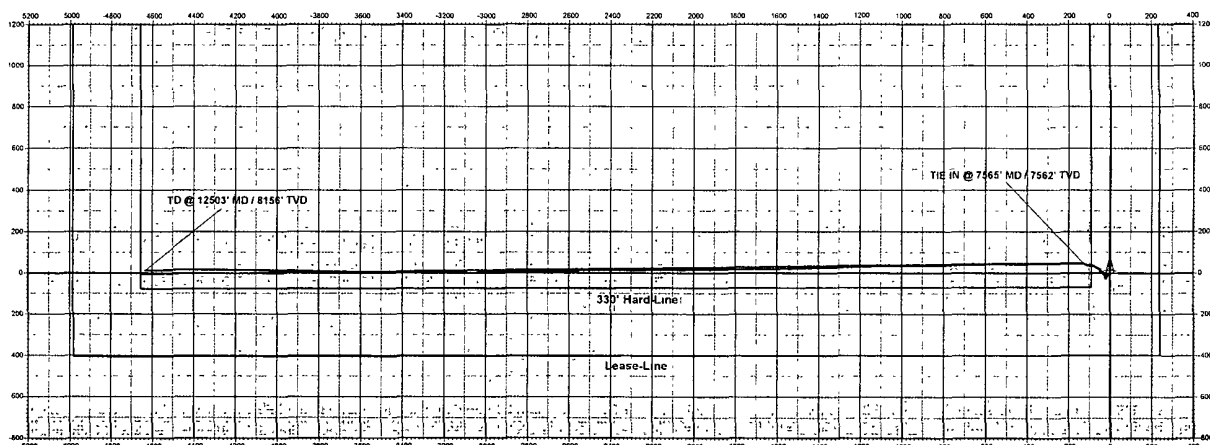
Magnetic North: 7.57°

Magnetic Field
 Strength: 48807.1 nT
 Dip Angle: 60.55°
 Date: 1/3/2012
 Model: IGRF2010

WELL DETAILS						Bradley 30 Federal Com #2H	
		Ground Level	3445.0				
+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude		
0.0	0.0	622986.86	601612.60	32° 42' 44.110" N	104° 0' 10.680" W		

ANNOTATIONS									
MD	Inc	Az	TVD	+N/-S	+E/-W	V.Sect	Departure	Annotation	
7565.0	1.53	286.94	7661.6	46.0	-126.1	126.0	191.0	TIE IN @ 7565' MD / 7562' TVD	
12503.0	80.10	269.70	8156.1	11.0	-4633.0	4632.9	4699.0	TD @ 12503' MD / 8156' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
PBHL Bradley 30 Federal Com #2H Design #2	8153.0	-7.1	-4653.0	622979.76	596958.78	32° 42' 44.180" N	104° 0' 10.150" W
- plan hits target center							



Vertical Section at 269.91° (200 usft/n)

Operating Company Mewbourne
Well Name & Number Bradley 30 Fed 2H
Sales Ticket Number 4707060
Date 6/10/2012

Company Rep Lynn Simmons
Field Santo Nino
BOT Service Rep Jorge Molinar, Jr
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		0.03826	8,477.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,207.54	12,410	10,680	
Bott Liner											
TVD		8,156.00		KOP		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	315.4
Carry Fluid Weight (ppg)			8.4		Propanant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	EBL Seal ID	Shear Pins	Wd. Rate (RPM)	Displ (BBL)
Liner Top	1	JR Setting Sleeve_RH Profile	8242.46							

Zone Length										
30 129	JR Sleeve_S3 Hyd Set Packer		8242.46	8.63	5.813	3.875				
	4-1/2-13.5 LTC Nipple		8251.09	8.09	5.000	3.920				
	8 Joints of 4-1/2-13.5 LTC Casing		8259.18	305.91	5.000	3.920				
	3.625 EX Frac Sleeve		8565.09	3.55	5.750		3.525	2375	316	315
	1 Joint of 4-1/2-13 5 LTC Casing		8568.64	38.31	5.000	3.920				
29 125.9	Baker Open Hole Packer		8606.95	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13 5 LTC Casing		8610.84	76.50	5.000	3.920				
	3.500 EX-C Frac Sleeve		8687.34	3.55	5.750		3.448	2375	302	315
	1 Joint of 4-1/2-13 5 LTC Casing		8690.89	38.05	5.000	3.920				
	Baker Open Hole Packer		8728.94	3.89	5.820	3.875		2154		
28 126.1	2 Joints of 4-1/2-13.5 LTC Casing		8732.83	76.51	5.000	3.920				
	3.438 EX-C Frac Sleeve		8809.34	3.55	5.750		3.385	2375	291	315
	1 Joint of 4-1/2-13 5 LTC Casing		8812.89	38.26	5.000	3.920				
	Baker Open Hole Packer		8851.15	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13 5 LTC Casing		8855.04	76.59	5.000	3.920				
27 126.2	3.375 EX_C Frac Sleeve		8931.63	3.55	5.750		3.323	2375	281	315
	1 Joint of 4-1/2-13 5 LTC Casing		8935.18	38.25	5.000	3.920				
	Baker Open Hole Packer		8973.43	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing		8977.32	74.79	5.000	3.920				
	3.313 EX-C Frac Sleeve		9052.11	3.55	5.750		3.260	2375	270	315
26 161.2	2 Joints of 4-1/2-13 5 LTC Casing		9055.66	75.12	5.000	3.920				
	Baker Open Hole Packer		9130.78	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Bradley 30 Fed 2H
 Sales Ticket Number 4707060
 Date 6/10/2012

Company Rep Lynn Simmons
 Field Santo Nino
 BOT Service Rep Jorge Molinar, Jr.
 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		0.03826	8,477.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,207.54	12,410	10,680
Bott Liner										
TVD		8,156.00	KOP		7,748.00	Open Hole		6.125	Casing Vol. (bbl)	315.4
Carry Fluid Weight (ppg)		8.4	Propan Content (ppa)					Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Sp. ID	Sp. Wt.	Max. Rate (BPM)	Disp (BBL)
25 125.7		2 Joints of 4-1/2-13.5 LTC Casing	9134.67	76.48	5.000	3.920				
		3 250 EX-C Frac Sleeve	9211.15	3.55	5.750		3.198	2375	260	315
		1 Joint of 4-1/2-13.5 LTC Casing	9214.70	37.86	5.000	3.920				
24 164.1		Baker Open Hole Packer	9252.56	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9256.45	76.22	5.000	3.920				
		3.188 EX-C Frac Sleeve	9332.67	3.55	5.750		3.135	2375	250	315
23 126.1		2 Joints of 4-1/2-13.5 LTC Casing	9336.22	76.54	5.000	3.920				
		Baker Open Hole Packer	9412.76	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9416.65	76.86	5.000	3.920				
22 164.6		3.125 EX-C Frac Sleeve	9493.51	3.55	5.750		3.073	2375	240	315
		1 Joint of 4-1/2-13.5 LTC Casing	9497.06	37.93	5.000	3.920				
		Baker Open Hole Packer	9534.99	3.89	5.820	3.875		2154		
21 125.9		2 Joints of 4-1/2-13.5 LTC Casing	9538.88	76.58	5.000	3.920				
		3.063 EX-C Frac Sleeve	9615.46	3.55	5.750		3.010	2375	230	315
		2 Joints of 4-1/2-13.5 LTC Casing	9619.01	76.64	5.000	3.920				
20 164.5		Baker Open Hole Packer	9695.65	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9699.54	76.54	5.000	3.920				
		3.000 EX-C Frac sleeve	9776.08	3.55	5.750		2.948	2375	221	315
19		1 Joint of 4-1/2-13.5 LTC Casing	9779.63	38.05	5.000	3.920				
		Baker Open Hole Packer	9817.68	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9821.57	76.58	5.000	3.920				
		2.938 EX-C Frac Sleeve	9898.15	3.55	5.750		2.885	2375	212	315
		2 Joints of 4-1/2-13.5 LTC Casing	9901.70	76.63	5.000	3.920				
		Baker Open Hole Packer	9978.33	3.89	5.820	3.875		2154		
		1 Joint of 4-1/2-13.5 LTC Casing	9982.22	38.32	5.000	3.920				
		2.875 EX-C Frac Sleeve	10020.54	3.55	5.750		2.823	2375	203	315

Operating Company Mewbourne
Well Name & Number Bradley 30 Fed 2H
Sales Ticket Number 4707060
Date 6/10/2012

Company Rep Lynn Simmons
Field Santo Nino
BOT Service Rep Jorge Molinar, Jr.
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		0.03826	8,477.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,207.54	12,410	10,680
Bott Liner										
TVD		8,156.00	KOP		7,748.00	Open Hole		6.125	Casing Vol. (bbl)	315.4
Carry Fluid Weight (ppg)		8.4	Propan Content (ppa)					Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	BH Start ID	Shear Press	Max Rate (BPM)	BSP (BBL)
125.9		2 Joints of 4-1/2-13 5 LTC Casing	10024.09	76.27	5 000	3.920				
		Baker Open Hole Packer	10100.36	3.89	5 820	3.875		2154		
		1 Joint of 4-1/2-13.5 LTC Casing	10104.25	38.05	5.000	3.920				
18		2 813 EX_C Frac Sleeve	10142.30	3.55	5.750		2.760	2375	194	315
126		2 Joints of 4-1/2-13 5 LTC Casing	10145.85	76.63	5 000	3.920				
		Baker Open Hole Packer	10222.48	3.89	5 820	3.875		2154		
		1 Joint of 4-1/2-13.5 LTC Casing	10226.37	38.32	5.000	3.920				
17		2 750 EX_C Frac Sleeve	10264.69	3.55	5.750		2.698	2375	185	315
126.8		2 Joints of 4-1/2-13 5 LTC Casing	10268.24	77.12	5 000	3.920				
		Baker Open Hole Packer	10345.36	3.89	5.820	3.875		2154		
		1 Joint of 4-1/2-13 5 LTC Casing	10349.25	38.21	5 000	3.920				
16		2.688 EX_C Frac Sleeve	10387.46	3.55	5.750		2.635	2375	177	315
126.6		2 Joints of 4-1/2-13 5 LTC Casing	10391.01	77.02	5 000	3.920				
		Baker Open Hole Packer	10468.03	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13 5 LTC Casing	10471.92	76.00	5 000	3.920				
15		2 625 EX_C Frac Sleeve	10547.92	3.55	5.750		2.573	2375	168	315
125.2		1 Joint of 4-1/2-13 5 LTC Casing	10551.47	37.90	5.000	3.920				
		Baker Open Hole Packer	10589.37	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10593.26	75.77	5 000	3.920				
14		2.563 EX_C Frac Sleeve	10669.03	3.55	5.750		2.510	2375	160	315
163.7		2 Joints of 4-1/2-13.5 LTC Casing	10672.58	76.55	5.000	3.920				
		Baker Open Hole Packer	10749.13	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10753.02	75.74	5.000	3.920				
13		2 500 EX_C Frac Sleeve	10828.76	3.55	5.750		2.448	2375	152	315
124.9		1 Joint of 4-1/2-13.5 LTC Casing	10832.31	37.84	5 000	3.920				
		Baker Open Hole Packer	10870.15	3.89	5 820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Bradley 30 Fed 2H
 Sales Ticket Number 4707060
 Date 6/10/2012

Company Rep Lynn Simmons
 Field Santo Nino
 BOT Service Rep Jorge Molinar, Jr
 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		0.03826	8,477.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,207.54	12,410	10,680	
Bott Liner											
TVD		8,156.00		KOP		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	315.4
Carry Fluid Weight (ppg)			8.4		Propanant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Subst. ID	Subst. Press	Subst. Temp	Subst. Flow	Subst. Disp
12 164.1		2 Joints of 4-1/2-13.5 LTC Casing	10874.04	76.62	5.000	3.920					
		2.438 EX_C Frac Sleeve	10950.66	3.55	5.750		2 386	2375	145	315	
		2 Joints of 4-1/2-13.5 LTC Casing	10954.21	76.11	5.000	3.920					
11 125.7		Baker Open Hole Packer	11030.32	3.89	5 820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	11034.21	76.03	5 000	3 920					
		2.375 EX_C Frac Sleeve	11110.24	3.55	5 750		2 323	2375	137	315	
10 164.7		1 Joint of 4-1/2-13.5 LTC Casing	11113.79	38 33	5 000	3 920					
		Baker Open Hole Packer	11152.12	3 89	5 820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	11156.01	76 74	5 000	3 920					
9 126.4		2 313 EX_C Frac Sleeve	11232.75	3 55	5 750		2.261	2375	130	315	
		2 Joints of 4-1/2-13.5 LTC Casing	11236.30	76.58	5.000	3 920					
		Baker Open Hole Packer	11312.88	3.89	5 820	3.875		2154			
8 126.6		2 Joints of 4-1/2-13.5 LTC Casing	11316.77	76 64	5.000	3 920					
		2 250 EX Frac Sleeve	11393.41	3.89	5.750		2 150	2286	115	315	
		1 Joint of 4-1/2-13.5 LTC Casing	11397.30	38.10	5.000	3.920					
7 164		Baker Open Hole Packer	11435.40	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	11439.29	76.63	5 000	3 920					
		2 125 EX Frac Sleeve	11515.92	3 89	5 750		2.025	2286	102	315	
6		1 Joint of 4-1/2-13.5 LTC Casing	11519.81	38.28	5 000	3.920					
		Baker Open Hole Packer	11558.09	3 89	5.820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	11561.98	76.61	5.000	3.920					
		2.000 EX Frac Sleeve	11638.59	3.89	5 750		1 900	2286	90	315	
		2 Joints of 4-1/2-13.5 LTC Casing	11642.48	75.69	5.000	3.920					
		Baker Open Hole Packer	11718.17	3 89	5 820	3 875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	11722.06	75.23	5 000	3.920					
		1 875 EX Frac Sleeve	11797.29	3.89	5.750		1 775	2286	79	315	

Company Rep	Lynn Simmons
Field	Santo Nino
BOT Service Rep	Jorge Molinar, Jr.
District Location	Odessa, Texas, USA

[illegible]