

OPERATOR
WELL/LEASE
COUNTY

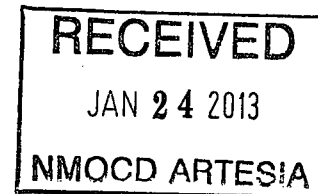
MEWBOURNE OIL COMPANY
BRADLEY 28 FED 4H
EDDY

045-0088

STATE OF NEW MEXICO
DEVIATION REPORT

15-40834

271	0.70
519	0.67
913	0.23
1,357	1.00
1,690	0.75
2,135	0.56
2,580	0.49
3,024	0.77
3,437	0.62
3,818	0.04
4,199	1.34
4,453	1.25
4,739	1.51
4,993	1.43
5,279	2.20
5,374	2.46
5,501	1.87
5,660	1.64
5,855	1.05
6,014	0.66
6,330	1.22
6,648	0.50
6,993	0.56



STATE OF TEXAS

COUNTY OF MIDLAND

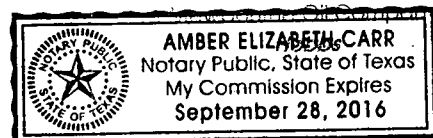
BY: Steve Moore

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

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

Received

11/26/12 by
NOV 28 2012





Job Number: SVMO-120087
 Company: Mewbourne Oil & Gas
 Lease/Well: Bradley 28 Fed Com 4H
 Location: Eddy County, NM
 Rig Name: Patterson #45
 RKB: 17.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.47°
 Grid: East To Grid North
 File name: F:\SURVEY\2012SU~1\MEWBOU~1\MO\BRADLEY\28FC4H.SVY
 Date/Time: 26-Nov-12 / 10:23
 Curve Name: Surface - 7523' M.D. (Rate Gyro)

RECEIVED
 JAN 24 2013
 NMOCD ARTESIA

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 7523' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Joshua Smith 11/26/12
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.33	41.36	100.00	.22	.19	.22	.29	41.36	.33
200.00	.18	22.12	200.00	.58	.44	.58	.73	37.27	.17
300.00	.02	355.34	300.00	.74	.50	.74	.89	33.88	.16
400.00	.35	197.63	400.00	.47	.40	.47	.62	40.83	.37
500.00	.78	189.85	499.99	-49	.19	-49	.53	158.53	.44
600.00	.71	170.89	599.98	-1.78	.18	-1.78	1.79	174.34	.25
700.00	.58	164.14	699.98	-2.88	.41	-2.88	2.91	171.83	.15
800.00	.43	160.20	799.97	-3.72	.68	-3.72	3.78	169.66	.15
900.00	.40	160.00	899.97	-4.40	.92	-4.40	4.49	168.12	.03

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	.32	133.42	999.97	-4.92	1.25	-4.92	5.07	165.77	.18
1100.00	.46	111.03	1099.97	-5.25	1.82	-5.25	5.56	160.85	.20
1200.00	1.26	85.86	1199.96	-5.32	3.30	-5.32	6.26	148.21	.87
1300.00	1.30	85.42	1299.93	-5.15	5.52	-5.15	7.55	132.98	.04
1400.00	.96	71.06	1399.91	-4.78	7.45	-4.78	8.85	122.72	.44
1500.00	.72	51.56	1499.90	-4.12	8.73	-4.12	9.65	115.28	.37
1600.00	.60	33.86	1599.89	-3.30	9.51	-3.30	10.07	109.11	.24
1700.00	.62	16.26	1699.89	-2.34	9.96	-2.34	10.23	103.24	.19
1800.00	.66	1.60	1799.88	-1.25	10.13	-1.25	10.20	97.02	.17
1900.00	.79	353.27	1899.87	.01	10.06	.01	10.06	89.93	.17
2000.00	.83	348.74	1999.86	1.41	9.84	1.41	9.94	81.86	.08
2100.00	.85	350.03	2099.85	2.85	9.57	2.85	9.98	73.42	.03
2200.00	.82	351.22	2199.84	4.29	9.33	4.29	10.27	65.33	.03
2300.00	.72	345.89	2299.83	5.60	9.07	5.60	10.66	58.29	.12
2400.00	.67	340.29	2399.83	6.76	8.72	6.76	11.03	52.20	.08
2500.00	.65	341.32	2499.82	7.85	8.34	7.85	11.45	46.73	.02
2600.00	.53	337.55	2599.81	8.82	7.98	8.82	11.89	42.16	.13
2700.00	.50	339.64	2699.81	9.65	7.65	9.65	12.32	38.41	.04
2800.00	.60	339.62	2799.81	10.55	7.32	10.55	12.84	34.74	.10
2900.00	.57	343.14	2899.80	11.52	6.99	11.52	13.47	31.26	.05
3000.00	.55	347.09	2999.80	12.46	6.74	12.46	14.17	28.41	.04
3100.00	.56	340.41	3099.79	13.39	6.47	13.39	14.87	25.79	.07
3200.00	.48	309.99	3199.79	14.12	5.98	14.12	15.34	22.97	.28
3300.00	.56	337.54	3299.78	14.84	5.48	14.84	15.82	20.26	.26
3400.00	.52	339.55	3399.78	15.72	5.13	15.72	16.53	18.08	.04
3500.00	.55	341.73	3499.77	16.60	4.82	16.60	17.28	16.20	.04
3600.00	.53	342.98	3599.77	17.50	4.54	17.50	18.08	14.54	.02
3700.00	.51	342.20	3699.77	18.36	4.27	18.36	18.85	13.08	.02
3800.00	.73	343.81	3799.76	19.40	3.95	19.40	19.80	11.51	.22

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3900.00	.83	354.74	3899.75	20.73	3.71	20.73	21.06	10.14	.18
4000.00	.82	2.07	3999.74	22.17	3.67	22.17	22.47	9.39	.11
4100.00	.75	9.05	4099.73	23.53	3.80	23.53	23.83	9.16	.12
4200.00	.65	344.91	4199.72	24.72	3.75	24.72	25.01	8.63	.31
4300.00	.93	329.61	4299.71	25.97	3.19	25.97	26.17	7.01	.35
4400.00	1.17	308.57	4399.70	27.31	1.98	27.31	27.38	4.16	.45
4500.00	1.39	324.36	4499.67	28.93	.48	28.93	28.93	.95	.41
4600.00	1.71	336.49	4599.64	31.28	-.82	31.28	31.29	358.49	.46
4700.00	1.75	348.58	4699.59	34.15	-1.72	34.15	34.19	357.12	.37
4800.00	1.79	349.69	4799.54	37.18	-2.30	37.18	37.25	356.46	.05
4900.00	1.78	351.15	4899.50	40.25	-2.82	40.25	40.35	355.99	.05
5000.00	1.48	345.14	4999.45	43.04	-3.39	43.04	43.17	355.49	.34
5100.00	1.63	339.53	5099.42	45.62	-4.22	45.62	45.81	354.72	.21
5200.00	2.43	355.77	5199.36	49.06	-4.87	49.06	49.30	354.33	.98
5300.00	2.19	353.16	5299.27	53.07	-5.26	53.07	53.33	354.34	.26
5400.00	2.50	2.93	5399.19	57.15	-5.37	57.15	57.40	354.63	.50
5500.00	1.90	23.16	5499.12	60.85	-4.61	60.85	61.03	355.67	.97
5600.00	1.52	356.00	5599.07	63.70	-4.05	63.70	63.83	356.36	.88
5700.00	1.31	354.07	5699.04	66.16	-4.26	66.16	66.30	356.32	.22
5800.00	1.32	323.71	5799.02	68.22	-5.06	68.22	68.41	355.76	.69
5900.00	1.12	321.00	5899.00	69.91	-6.36	69.91	70.20	354.80	.21
6000.00	1.18	302.35	5998.98	71.22	-7.84	71.22	71.65	353.72	.38
6100.00	1.09	325.78	6098.96	72.56	-9.25	72.56	73.15	352.74	.47
6200.00	.85	326.19	6198.94	73.96	-10.19	73.96	74.66	352.15	.24
6300.00	1.30	326.11	6298.92	75.52	-11.24	75.52	76.35	351.53	.45
6400.00	1.24	337.99	6398.90	77.47	-12.28	77.47	78.43	350.99	.27
6500.00	1.31	328.12	6498.88	79.44	-13.29	79.44	80.54	350.50	.23
6600.00	1.04	350.10	6598.86	81.30	-14.05	81.30	82.51	350.20	.52
6700.00	.67	339.04	6698.84	82.74	-14.41	82.74	83.99	350.12	.40

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	.53	319.75	6798.84	83.64	-14.92	83.64	84.96	349.89	.24
6900.00	1.22	298.49	6898.83	84.50	-16.15	84.50	86.03	349.18	.75
7000.00	.83	291.16	6998.81	85.27	-17.77	85.27	87.10	348.23	.41
7100.00	1.30	300.89	7098.79	86.12	-19.41	86.12	88.28	347.30	.50
7200.00	1.24	275.42	7198.77	86.80	-21.47	86.80	89.42	346.11	.56
7300.00	1.09	286.67	7298.75	87.18	-23.45	87.18	90.28	344.94	.27
7400.00	1.01	254.23	7398.73	87.21	-25.21	87.21	90.78	343.88	.59
7500.00	.66	253.92	7498.72	86.81	-26.61	86.81	90.80	342.96	.35
Last Survey Depth Recorded									
7523.00	.61	252.58	7521.72	86.74	-26.86	86.74	90.80	342.79	.23



Mewbourne Oil Co

Eddy County, New Mexico

Sec 29-18S-30E

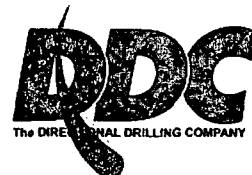
Bradley 28 Fed Com #4H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

21 January, 2013



DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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

System Datum: Mean Sea Level

Site: Sec 29-18S-30E

Site Position: **Northing:** 626,239.39 usft **Latitude:** 32° 43' 16.120 N
From: Map **Easting:** 607,141.79 usft **Longitude:** 103° 59' 5.840 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.19 °

Well: Bradley 28 Fed Com #4H

Well Position **+N-S** 0.0 usft **Northing:** 624,542.21 usft **Latitude:** 32° 42' 59.335 N
+E-W 0.0 usft **Easting:** 606,863.40 usft **Longitude:** 103° 59' 9.164 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** usft **Ground Level:** 3,406.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/20/2012	7.64	60.54	48,724

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	89.89

Survey Program: Date 1/21/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,523.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
7,577.0	13,199.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.33	41.36	100.0	0.2	0.2	0.2	0.33	0.33	0.00
200.0	0.18	22.12	200.0	0.6	0.4	0.4	0.17	-0.15	-19.24
300.0	0.02	355.34	300.0	0.7	0.5	0.5	0.16	-0.16	-26.78
400.0	0.35	197.63	400.0	0.5	0.4	0.4	0.37	0.33	-157.71
500.0	0.78	189.85	500.0	-0.5	0.2	0.2	0.44	0.43	-7.78
600.0	0.71	170.89	600.0	-1.8	0.2	0.2	0.25	-0.07	-18.96
700.0	0.58	164.14	700.0	-2.9	0.4	0.4	0.15	-0.13	-6.75
800.0	0.43	160.20	800.0	-3.7	0.7	0.7	0.15	-0.15	-3.94
900.0	0.40	160.00	900.0	-4.4	0.9	0.9	0.03	-0.03	-0.20

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
1,000.0	0.32	133.42	1,000.0	-4.9	1.2	1.2	0.18	-0.08	-26.58
1,100.0	0.46	111.03	1,100.0	-5.3	1.8	1.8	0.20	0.14	-22.39
1,200.0	1.26	85.86	1,200.0	-5.3	3.3	3.3	0.87	0.80	-25.17
1,300.0	1.30	85.42	1,299.9	-5.1	5.5	5.5	0.04	0.04	-0.44
1,400.0	0.96	71.06	1,399.9	-4.8	7.4	7.4	0.44	-0.34	-14.36
1,500.0	0.72	51.56	1,499.9	-4.1	8.7	8.7	0.37	-0.24	-19.50
1,600.0	0.60	33.86	1,599.9	-3.3	9.5	9.5	0.24	-0.12	-17.70
1,700.0	0.62	16.26	1,699.9	-2.3	10.0	10.0	0.19	0.02	-17.60
1,800.0	0.66	1.60	1,799.9	-1.2	10.1	10.1	0.17	0.04	-14.66
1,900.0	0.79	353.27	1,899.9	0.0	10.1	10.1	0.17	0.13	-8.33
2,000.0	0.83	348.74	1,999.9	1.4	9.8	9.8	0.08	0.04	-4.53
2,100.0	0.85	350.03	2,099.9	2.8	9.6	9.6	0.03	0.02	1.29
2,200.0	0.82	351.22	2,199.8	4.3	9.3	9.3	0.03	-0.03	1.19
2,300.0	0.72	345.89	2,299.8	5.6	9.1	9.1	0.12	-0.10	-5.33
2,400.0	0.67	340.29	2,399.8	6.8	8.7	8.7	0.08	-0.05	-5.60
2,500.0	0.65	341.32	2,499.8	7.9	8.3	8.4	0.02	-0.02	1.03
2,600.0	0.53	337.55	2,599.8	8.8	8.0	8.0	0.13	-0.12	-3.77
2,700.0	0.50	339.64	2,699.8	9.7	7.7	7.7	0.04	-0.03	2.09
2,800.0	0.60	339.62	2,799.8	10.6	7.3	7.3	0.10	0.10	-0.02
2,900.0	0.57	343.14	2,899.8	11.5	7.0	7.0	0.05	-0.03	3.52
3,000.0	0.55	347.09	2,999.8	12.5	6.7	6.8	0.04	-0.02	3.95
3,100.0	0.56	340.41	3,099.8	13.4	6.5	6.5	0.07	0.01	-6.68
3,200.0	0.48	309.99	3,199.8	14.1	6.0	6.0	0.28	-0.08	-30.42
3,300.0	0.56	337.54	3,299.8	14.8	5.5	5.5	0.26	0.08	27.55
3,400.0	0.52	339.55	3,399.8	15.7	5.1	5.2	0.04	-0.04	2.01
3,500.0	0.55	341.73	3,499.8	16.6	4.8	4.9	0.04	0.03	2.18
3,600.0	0.53	342.98	3,599.8	17.5	4.5	4.6	0.02	-0.02	1.25
3,700.0	0.51	342.20	3,699.8	18.4	4.3	4.3	0.02	-0.02	-0.78
3,800.0	0.73	343.81	3,799.8	19.4	4.0	4.0	0.22	0.22	1.61
3,900.0	0.83	354.74	3,899.8	20.7	3.7	3.7	0.18	0.10	10.93
4,000.0	0.82	2.07	3,999.7	22.2	3.7	3.7	0.11	-0.01	7.33
4,100.0	0.75	9.05	4,099.7	23.5	3.8	3.8	0.12	-0.07	6.98
4,200.0	0.65	344.91	4,199.7	24.7	3.8	3.8	0.31	-0.10	-24.14
4,300.0	0.93	329.61	4,299.7	26.0	3.2	3.2	0.35	0.28	-15.30
4,400.0	1.17	308.57	4,399.7	27.3	2.0	2.0	0.45	0.24	-21.04
4,500.0	1.39	324.36	4,499.7	28.9	0.5	0.5	0.41	0.22	15.79
4,600.0	1.71	336.49	4,599.6	31.3	-0.8	-0.8	0.46	0.32	12.13
4,700.0	1.75	348.58	4,699.6	34.1	-1.7	-1.7	0.37	0.04	12.09
4,800.0	1.79	349.69	4,799.5	37.2	-2.3	-2.2	0.05	0.04	1.11
4,900.0	1.78	351.15	4,899.5	40.3	-2.8	-2.7	0.05	-0.01	1.46
5,000.0	1.48	345.14	4,999.5	43.0	-3.4	-3.3	0.34	-0.30	-6.01
5,100.0	1.63	339.53	5,099.4	45.6	-4.2	-4.1	0.21	0.15	-5.61
5,200.0	2.43	355.77	5,199.4	49.1	-4.9	-4.8	0.98	0.80	16.24

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
5,300.0	2.19	353.16	5,299.3	53.1	-5.3	-5.2	0.26	-0.24	-2.61
5,400.0	2.50	2.93	5,399.2	57.1	-5.4	-5.3	0.50	0.31	9.77
5,500.0	1.90	23.16	5,499.1	60.9	-4.6	-4.5	0.97	-0.60	20.23
5,600.0	1.52	356.00	5,599.1	63.7	-4.1	-3.9	0.88	-0.38	-27.16
5,700.0	1.31	354.07	5,699.0	66.2	-4.3	-4.1	0.22	-0.21	-1.93
5,800.0	1.32	323.71	5,799.0	68.2	-5.1	-4.9	0.69	0.01	-30.36
5,900.0	1.12	321.00	5,899.0	69.9	-6.4	-6.2	0.21	-0.20	-2.71
6,000.0	1.18	302.35	5,999.0	71.2	-7.8	-7.7	0.38	0.06	-18.65
6,100.0	1.09	325.78	6,099.0	72.6	-9.2	-9.1	0.47	-0.09	23.43
6,200.0	0.85	326.19	6,198.9	74.0	-10.2	-10.1	0.24	-0.24	0.41
6,300.0	1.30	326.11	6,298.9	75.5	-11.2	-11.1	0.45	0.45	-0.08
6,400.0	1.24	337.99	6,398.9	77.5	-12.3	-12.1	0.27	-0.06	11.88
6,500.0	1.31	328.12	6,498.9	79.4	-13.3	-13.1	0.23	0.07	-9.87
6,600.0	1.04	350.10	6,598.9	81.3	-14.0	-13.9	0.52	-0.27	21.98
6,700.0	0.67	339.04	6,698.8	82.7	-14.4	-14.3	0.40	-0.37	-11.06
6,800.0	0.53	319.75	6,798.8	83.6	-14.9	-14.8	0.24	-0.14	-19.29
6,900.0	1.22	298.49	6,898.8	84.5	-16.2	-16.0	0.75	0.69	-21.26
7,000.0	0.83	291.16	6,998.8	85.3	-17.8	-17.6	0.41	-0.39	-7.33
7,100.0	1.30	300.89	7,098.8	86.1	-19.4	-19.2	0.50	0.47	9.73
7,200.0	1.24	275.42	7,198.8	86.8	-21.5	-21.3	0.56	-0.06	-25.47
7,300.0	1.09	286.67	7,298.7	87.2	-23.5	-23.3	0.27	-0.15	11.25
7,400.0	1.01	254.23	7,398.7	87.2	-25.2	-25.0	0.59	-0.08	-32.44
7,500.0	0.66	253.92	7,498.7	86.8	-26.6	-26.4	0.35	-0.35	-0.31
TIE ON @ 7523' MD / 7521' TVD									
7,523.0	0.61	252.58	7,521.7	86.7	-26.9	-26.7	0.23	-0.22	-5.83
7,577.0	0.70	282.20	7,575.7	86.7	-27.5	-27.3	0.64	0.17	54.85
7,609.0	0.40	37.70	7,607.7	86.9	-27.6	-27.4	2.95	-0.94	360.94
7,640.0	3.90	84.10	7,638.7	87.0	-26.5	-26.3	11.73	11.29	149.68
7,672.0	6.90	87.30	7,670.5	87.2	-23.5	-23.3	9.42	9.38	10.00
7,704.0	10.10	88.30	7,702.2	87.4	-18.7	-18.6	10.01	10.00	3.13
7,736.0	12.90	89.50	7,733.5	87.5	-12.4	-12.2	8.78	8.75	3.75
7,767.0	15.30	92.70	7,763.6	87.4	-4.8	-4.6	8.14	7.74	10.32
7,799.0	17.90	94.30	7,794.3	86.8	4.3	4.5	8.25	8.13	5.00
7,831.0	20.20	91.60	7,824.5	86.3	14.7	14.9	7.70	7.19	-8.44
7,863.0	23.20	91.30	7,854.2	86.0	26.6	26.7	9.38	9.38	-0.94
7,894.0	26.10	90.60	7,882.4	85.8	39.5	39.7	9.40	9.35	-2.26
7,926.0	28.10	90.80	7,910.9	85.6	54.1	54.2	6.26	6.25	0.63
7,957.0	29.80	90.40	7,938.0	85.4	69.1	69.2	5.52	5.48	-1.29
7,989.0	31.70	89.50	7,965.5	85.5	85.4	85.6	6.11	5.94	-2.81
8,021.0	34.10	89.20	7,992.4	85.7	102.8	103.0	7.52	7.50	-0.94
8,053.0	38.60	90.40	8,018.2	85.7	121.8	121.9	14.24	14.06	3.75
8,085.0	43.40	91.80	8,042.3	85.3	142.8	142.9	15.27	15.00	4.38
8,116.0	45.50	92.50	8,064.4	84.5	164.4	164.6	6.96	6.77	2.26

DDC
Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
8,148.0	49.20	90.90	8,086.1	83.8	188.0	188.1	12.13	11.56	-5.00
8,180.0	52.20	90.10	8,106.4	83.6	212.7	212.9	9.57	9.38	-2.50
8,212.0	57.00	89.70	8,124.9	83.6	238.8	239.0	15.03	15.00	-1.25
CROSSED LEASE LINE @ 8240' MD / 8140' TVD									
8,240.0	59.71	91.15	8,139.6	83.4	262.6	262.8	10.63	9.67	5.18
8,243.0	60.00	91.30	8,141.1	83.4	265.2	265.4	10.63	9.71	5.02
8,275.0	63.00	91.80	8,156.4	82.6	293.3	293.5	9.47	9.38	1.56
8,307.0	66.50	91.60	8,170.0	81.8	322.3	322.4	10.95	10.94	-0.63
8,339.0	69.60	91.10	8,182.0	81.1	351.9	352.1	9.80	9.69	-1.56
8,370.0	72.00	91.60	8,192.2	80.4	381.2	381.4	7.89	7.74	1.61
8,402.0	74.30	90.10	8,201.5	79.9	411.8	412.0	8.47	7.19	-4.69
8,434.0	76.70	89.50	8,209.5	80.0	442.8	442.9	7.72	7.50	-1.88
8,465.0	80.20	89.40	8,215.7	80.3	473.2	473.3	11.29	11.29	-0.32
8,497.0	83.30	91.10	8,220.3	80.2	504.8	505.0	11.02	9.69	5.31
8,529.0	86.30	92.40	8,223.2	79.2	536.7	536.8	10.21	9.38	4.06
8,560.0	89.00	92.50	8,224.4	77.9	567.6	567.8	8.72	8.71	0.32
CROSSED HARD LINE @ 8583' MD / 8225' TVD									
8,583.0	88.90	92.40	8,224.9	76.9	590.6	590.7	0.61	-0.43	-0.43
8,663.0	89.30	96.20	8,226.1	70.9	670.3	670.5	4.78	0.50	4.75
8,694.0	89.50	94.60	8,226.4	68.0	701.2	701.3	5.20	0.65	-5.16
8,726.0	89.80	94.30	8,226.6	65.5	733.1	733.2	1.33	0.94	-0.94
8,757.0	89.80	93.90	8,226.7	63.3	764.0	764.1	1.29	0.00	-1.29
8,789.0	88.50	91.80	8,227.2	61.7	796.0	796.1	7.72	-4.06	-6.56
8,821.0	88.50	91.10	8,228.1	60.9	828.0	828.1	2.19	0.00	-2.19
8,853.0	88.60	91.50	8,228.9	60.2	859.9	860.1	1.29	0.31	1.25
8,884.0	88.80	91.60	8,229.6	59.3	890.9	891.0	0.72	0.65	0.32
8,916.0	89.10	91.80	8,230.2	58.4	922.9	923.0	1.13	0.94	0.63
8,948.0	89.00	92.00	8,230.7	57.3	954.9	955.0	0.70	-0.31	0.63
8,979.0	88.50	90.90	8,231.4	56.5	985.9	986.0	3.90	-1.61	-3.55
9,011.0	87.90	91.10	8,232.4	56.0	1,017.8	1,017.9	1.98	-1.88	0.63
9,043.0	87.80	91.60	8,233.6	55.2	1,049.8	1,049.9	1.59	-0.31	1.56
9,107.0	88.10	90.60	8,235.9	54.0	1,113.8	1,113.9	1.63	0.47	-1.56
9,170.0	87.10	88.50	8,238.5	54.5	1,176.7	1,176.8	3.69	-1.59	-3.33
9,233.0	88.20	88.00	8,241.1	56.4	1,239.6	1,239.7	1.92	1.75	-0.79
9,264.0	89.70	88.10	8,241.6	57.5	1,270.6	1,270.7	4.85	4.84	0.32
9,296.0	90.00	88.50	8,241.7	58.4	1,302.6	1,302.7	1.56	0.94	1.25
9,328.0	89.80	88.70	8,241.8	59.2	1,334.6	1,334.7	0.88	-0.63	0.63
9,359.0	89.80	88.70	8,241.9	59.9	1,365.6	1,365.7	0.00	0.00	0.00
9,391.0	89.80	88.70	8,242.0	60.6	1,397.5	1,397.7	0.00	0.00	0.00
9,454.0	89.90	89.00	8,242.2	61.9	1,460.5	1,460.6	0.50	0.16	0.48
9,517.0	89.60	89.40	8,242.4	62.8	1,523.5	1,523.6	0.79	-0.48	0.63
9,579.0	89.80	89.40	8,242.8	63.4	1,585.5	1,585.6	0.32	0.32	0.00
9,642.0	90.10	89.20	8,242.8	64.2	1,648.5	1,648.6	0.57	0.48	-0.32
9,705.0	90.30	89.40	8,242.6	65.0	1,711.5	1,711.6	0.45	0.32	0.32

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
9,769.0	88.50	89.70	8,243.3	65.5	1,775.5	1,775.6	2.85	-2.81	0.47
9,832.0	87.60	89.40	8,245.4	66.0	1,838.5	1,838.6	1.51	-1.43	-0.48
9,895.0	87.60	90.90	8,248.1	65.8	1,901.4	1,901.5	2.38	0.00	2.38
9,958.0	89.70	91.30	8,249.5	64.6	1,964.4	1,964.5	3.39	3.33	0.63
9,990.0	91.20	91.60	8,249.3	63.8	1,996.4	1,996.5	4.78	4.69	0.94
10,021.0	91.50	91.80	8,248.6	62.9	2,027.3	2,027.5	1.16	0.97	0.65
10,084.0	91.10	91.30	8,247.1	61.2	2,090.3	2,090.4	1.02	-0.63	-0.79
10,147.0	91.20	91.30	8,245.9	59.7	2,153.3	2,153.4	0.16	0.16	0.00
10,211.0	91.40	90.90	8,244.4	58.5	2,217.2	2,217.4	0.70	0.31	-0.63
10,274.0	91.00	92.20	8,243.1	56.8	2,280.2	2,280.3	2.16	-0.63	2.06
10,338.0	91.10	92.50	8,241.9	54.2	2,344.1	2,344.2	0.49	0.16	0.47
10,401.0	88.70	91.80	8,242.0	51.8	2,407.1	2,407.2	3.97	-3.81	-1.11
10,464.0	88.40	91.80	8,243.6	49.8	2,470.0	2,470.1	0.48	-0.48	0.00
10,527.0	89.30	92.40	8,244.9	47.5	2,533.0	2,533.1	1.72	1.43	0.95
10,591.0	90.00	92.50	8,245.3	44.8	2,596.9	2,597.0	1.10	1.09	0.16
10,653.0	89.80	92.70	8,245.4	42.0	2,658.9	2,658.9	0.46	-0.32	0.32
10,716.0	89.00	93.10	8,246.0	38.8	2,721.8	2,721.8	1.42	-1.27	0.63
10,779.0	89.30	92.50	8,247.0	35.7	2,784.7	2,784.8	1.06	0.48	-0.95
10,842.0	90.20	92.00	8,247.3	33.2	2,847.6	2,847.7	1.63	1.43	-0.79
10,905.0	90.70	91.80	8,246.8	31.1	2,910.6	2,910.7	0.85	0.79	-0.32
10,969.0	90.50	91.80	8,246.1	29.1	2,974.6	2,974.6	0.31	-0.31	0.00
11,032.0	90.70	91.10	8,245.4	27.5	3,037.5	3,037.6	1.16	0.32	-1.11
11,095.0	89.80	89.50	8,245.2	27.2	3,100.5	3,100.6	2.91	-1.43	-2.54
11,159.0	89.40	89.40	8,245.6	27.8	3,164.5	3,164.6	0.64	-0.63	-0.16
11,222.0	88.20	88.30	8,246.9	29.1	3,227.5	3,227.6	2.58	-1.90	-1.75
11,286.0	89.10	88.10	8,248.4	31.1	3,291.5	3,291.5	1.44	1.41	-0.31
11,349.0	89.80	87.40	8,249.0	33.6	3,354.4	3,354.5	1.57	1.11	-1.11
11,412.0	89.10	88.50	8,249.6	35.8	3,417.4	3,417.4	2.07	-1.11	1.75
11,475.0	88.50	89.40	8,251.0	37.0	3,480.3	3,480.4	1.72	-0.95	1.43
11,538.0	88.20	88.30	8,252.8	38.2	3,543.3	3,543.4	1.81	-0.48	-1.75
11,602.0	89.30	87.80	8,254.2	40.4	3,607.2	3,607.3	1.89	1.72	-0.78
11,665.0	89.70	90.60	8,254.7	41.3	3,670.2	3,670.3	4.49	0.63	4.44
11,729.0	89.80	89.90	8,255.0	41.0	3,734.2	3,734.3	1.10	0.16	-1.09
11,792.0	89.10	91.30	8,255.6	40.4	3,797.2	3,797.3	2.48	-1.11	2.22
11,855.0	88.40	90.80	8,257.0	39.2	3,860.2	3,860.3	1.37	-1.11	-0.79
11,918.0	88.20	91.10	8,258.8	38.2	3,923.2	3,923.2	0.57	-0.32	0.48
11,981.0	89.00	92.20	8,260.4	36.4	3,986.1	3,986.2	2.16	1.27	1.75
12,044.0	89.30	91.10	8,261.3	34.5	4,049.1	4,049.1	1.81	0.48	-1.75
12,108.0	89.30	90.10	8,262.1	33.9	4,113.1	4,113.1	1.56	0.00	-1.56
12,171.0	90.00	91.10	8,262.5	33.2	4,176.1	4,176.1	1.94	1.11	1.59
12,235.0	89.20	92.90	8,262.9	31.0	4,240.0	4,240.1	3.08	-1.25	2.81
12,298.0	89.40	91.50	8,263.7	28.6	4,303.0	4,303.0	2.24	0.32	-2.22
12,361.0	89.40	90.20	8,264.4	27.6	4,366.0	4,366.0	2.06	0.00	-2.06

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 29-18S-30E
Well: Bradley 28 Fed Com #4H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 28 Fed Com #4H
TVD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
MD Reference: WELL @ 3426.0usft (Patterson UTI #45v)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
12,424.0	89.20	89.40	8,265.1	27.8	4,428.9	4,429.0	1.31	-0.32	-1.27
12,487.0	88.70	89.50	8,266.3	28.4	4,491.9	4,492.0	0.81	-0.79	0.16
12,551.0	88.10	89.20	8,268.1	29.2	4,555.9	4,556.0	1.05	-0.94	-0.47
12,614.0	89.40	89.00	8,269.4	30.2	4,618.9	4,618.9	2.09	2.06	-0.32
12,676.0	90.00	88.80	8,269.8	31.4	4,680.9	4,680.9	1.02	0.97	-0.32
12,740.0	90.00	87.80	8,269.8	33.2	4,744.8	4,744.9	1.56	0.00	-1.56
12,802.0	89.00	88.50	8,270.3	35.3	4,806.8	4,806.9	1.97	-1.61	1.13
12,866.0	88.40	88.00	8,271.8	37.2	4,870.8	4,870.8	1.22	-0.94	-0.78
12,929.0	88.20	86.60	8,273.6	40.2	4,933.7	4,933.7	2.24	-0.32	-2.22
12,993.0	88.20	87.60	8,275.6	43.4	4,997.5	4,997.6	1.56	0.00	1.56
13,056.0	88.90	89.40	8,277.2	45.1	5,060.5	5,060.6	3.06	1.11	2.86
13,119.0	89.40	87.60	8,278.2	46.7	5,123.5	5,123.5	2.97	0.79	-2.86
13,151.0	89.40	87.30	8,278.5	48.1	5,155.4	5,155.5	0.94	0.00	-0.94
TD @ 13199' MD / 8279' TVD									
13,199.0	89.40	87.30	8,279.0	50.4	5,203.4	5,203.5	0.00	0.00	0.00

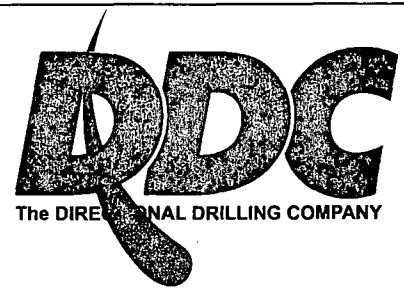
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,523.0	7,521.7	86.7	-26.9	TIE ON @ 7523' MD / 7521' TVD
8,240.0	8,139.6	83.4	262.6	CROSSED LEASE LINE @ 8240' MD / 8140' TVD
8,583.0	8,224.9	76.9	590.6	CROSSED HARD LINE @ 8583' MD / 8225' TVD
13,199.0	8,279.0	50.4	5,203.4	TD @ 13199' MD / 8279' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Bradley 28 Fed Com #4H
 Eddy County, New Mexico
 Rig: Patterson UTI #45
 Created By: TIFFANI MIZELL
 Date: 12/14/2012

Bradley 28 Fed Com #4H
 Eddy County, New Mexico
 Q120597 & WT-12883
 Design #3

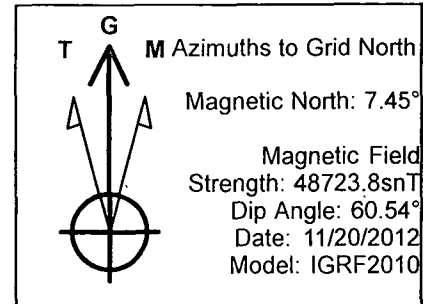


Mewbourne Oil Company

PROJECT DETAILS: Eddy County, New Mexico

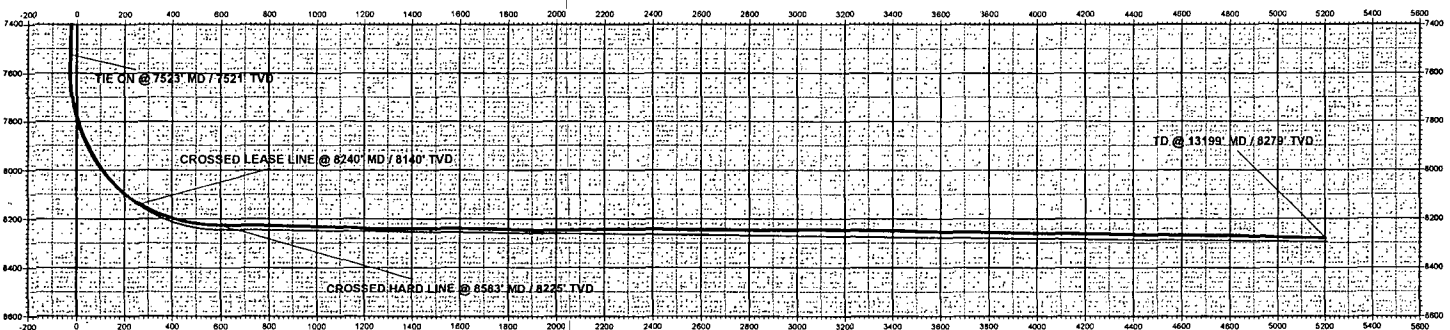
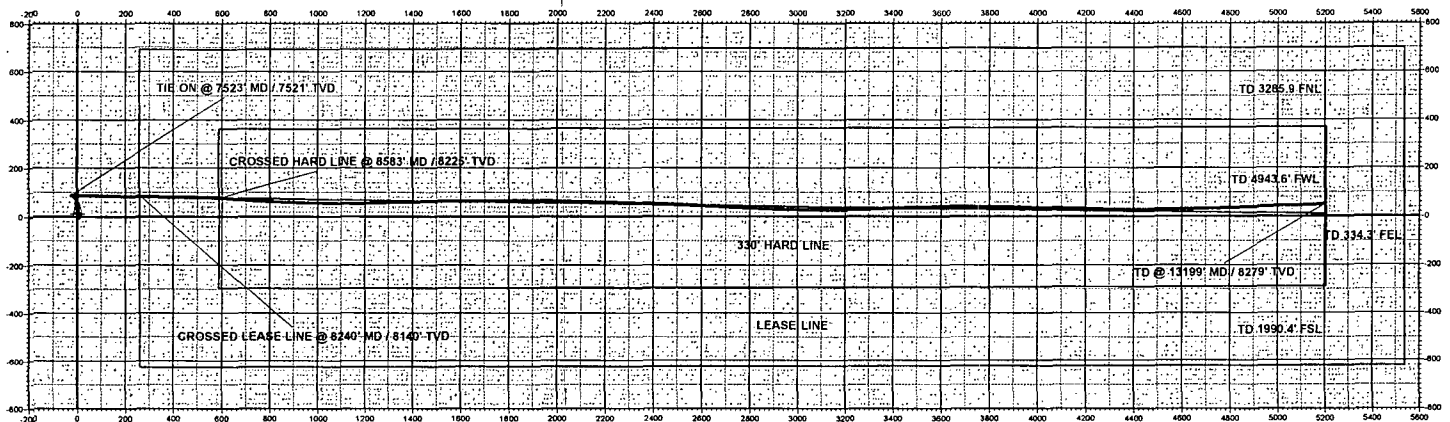
Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: Bradley 28 Fed Com #4H					
+N/-S	+E/-W	Ground Level:	Easting	Latitude	Longitude
0.0	0.0	624542.21	606863.39	32° 42' 59.335 N	103° 59' 9.164 W



DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL Bradley 28 Federal Com #4H Design #2	8296.0	10.2	6207.8	624552.41	612071.19	32° 42' 59.263 N

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
7523.0	0.61	252.58	7521.7	86.7	-26.9	-26.7	0.0	Tie into Gyro	
7612.0	0.61	252.58	7610.7	86.5	-27.8	-27.6	0.9	Build 9.12"/100'	
8598.3	85.37	90.81	8245.3	75.6	693.5	693.6	622.7	EOC @ 93.37' Inc / 90.81° Azm / 8245° TVD	
13343.4	85.37	90.81	8296.0	10.2	6207.8	6207.8	6332.6	TD @ 13199' MD / 8279° TVD	



Vertical Section at 89.89° (200 usft/in)

Operating Company Mewbourne
Well Name & Number Bradley 28 Fed Com #4H
Sales Ticket Number 4742898

Company Rep Jake Nave
Field John Davis
BOT Service Rep John Davis

Date 6/25/2012

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	8,634.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,830.24	12,410	10,680
Bott Liner										
TVD	8,277.00		KOP	7,613.00		Open Hole	6.125		318.3	
Carry Fluid Weight (ppg)	8.6		Propant 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	8319.77							

Zone Length										
30	JR Sleeve_S3 Hyd Set Packer		8319.77	8.63	5.813	3.875				
	4-1/2-13.5 LTC Nipple		8328.40	8.08	5.000	3.920				
	10 Joints of 4-1/2-13.5 LTC Casing		8336.48	381.14	5.000	3.920				
	3.625 EX-Frac Sleeve		8717.62	3.90	5.750		3.525	2286	306	318
	2 Joint of 4-1/2-13.5 LTC Casing		8721.52	76.85	5.000	3.920				
29	Baker Open Hole Packer		8798.37	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing		8802.26	77.51	5.000	3.920				
	3.500 EX-C-Frac Sleeve		8879.77	3.53	5.750		3.448	2375	299	318
	2 Joint of 4-1/2-13.5 LTC Casing		8883.30	76.36	5.000	3.920				
	Baker Open Hole Packer		8959.85	3.89	5.820	3.875		2154		
28	1 Joints of 4-1/2-13.5 LTC Casing		8963.55	37.48	5.000	3.920				
	3.438 EX-C-Frac Sleeve		9001.03	3.53	5.750		3.385	2375	288	318
	2 Joint of 4-1/2-13.5 LTC Casing		9004.56	75.84	5.000	3.920				
	Baker Open Hole Packer		9080.40	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing		9084.29	76.82	5.000	3.920				
27	3.375 EX-C-Frac Sleeve		9161.11	3.53	5.750		3.323	2375	278	318
	2 Joint of 4-1/2-13.5 LTC Casing		9164.64	76.39	5.000	3.920				
	Baker Open Hole Packer		9241.02	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing		9244.92	76.71	5.000	3.920				
	3.313 EX-C-Frac Sleeve		9321.63	3.53	5.750		3.260	2375	267	318
26	3 Joints of 4-1/2-13.5 LTC Casing		9325.16	115.90	5.000	3.920				
	Baker Open Hole Packer		9401.06	3.89	5.820	3.875		2154		

Operating Company Mewbourne
Well Name & Number Bradley 28 Fed Com #4H
Sales Ticket Number 4742898
Date 6/25/2012

Company Rep Jake Nave
Field
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		0.03826	8,634.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,830.24	12,410	10,680
Bott Liner										
TVD	8,277.00		KOP		7,613.00		Open Hole	6.125	318.3	
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)
25		2 Joints of 4-1/2-13.5 LTC Casing	9444.95	76.35	5.000	3.920				
		3:250 EX-C Frac Sleeve	9521.30	3.53	5.750		3:198	2375	257	318
		1 Joint of 4-1/2-13.5 LTC Casing	9524.83	37.28	5.000	3.920				
24		Baker Open Hole Packer	9562.11	3.89	5.820	3:875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9566.00	75.71	5.000	3.920				
		3:188 EX-C Frac Sleeve	9641.71	3:53	5.750		3:135	2375	247	318
23		2 Joints of 4-1/2-13.5 LTC Casing	9645.24	76.40	5.000	3.920				
		Baker Open Hole Packer	9721.64	3.89	5.820	3:875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9725.53	77.20	5.000	3.920				
22		3:125 EX-C Frac Sleeve	9802.73	3:53	5.750		3:073	2375	237	318
		1 Joint of 4-1/2-13.5 LTC Casing	9806.26	37.30	5.000	3.920				
		Baker Open Hole Packer	9843.56	3.89	5.820	3:875		2154		
21		2 Joints of 4-1/2-13.5 LTC Casing	9847.45	76.40	5.000	3.920				
		3:063 EX-C Frac Sleeve	9923.85	3:53	5.750		3:010	2375	228	318
		1 Joints of 4-1/2-13.5 LTC Casing	9927.38	38.83	5.000	3.920				
20		Baker Open Hole Packer	9966.21	3.89	5.820	3:875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9970.10	76.53	5.000	3.920				
		3:000 EX-C Frac sleeve	10046.63	3:53	5.750		2:948	2375	218	318
19		2 Joint of 4-1/2-13.5 LTC Casing	10050.16	75.91	5.000	3.920				
		Baker Open Hole Packer	10126.07	3.89	5.820	3:875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10129.96	75.35	5.000	3.920				
19		2:938 EX-C Frac Sleeve	10205.31	3:53	5.750		2:885	2375	209	318
		2 Joints of 4-1/2-13.5 LTC Casing	10208.84	75.94	5.000	3.920				
		Baker Open Hole Packer	10284.78	3.89	5.820	3:875		2154		
19		2 Joint of 4-1/2-13.5 LTC Casing	10288.67	76.43	5.000	3.920				
		2:875 EX-C Frac Sleeve	10365.10	3:53	5.750		2:823	2375	200	318

Operating Company Mewbourne
 Well Name & Number Bradley 28 Fed Com #4H
 Sales Ticket Number 4742898
 Date 6/25/2012

Company Rep Jake Nave
 Field
 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		0.03826	8,634.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,830.24	12,410	10,680
Bott Liner										
TVD	8,277.00		KOP	7,613.00		Open Hole	6.125			318.3
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)
18		3 Joints of 4-1/2-13.5 LTC Casing	10368.63	112.35	5.000	3.920				
		Baker Open Hole Packer	10480.98	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10484.87	76.59	5.000	3.920				
17		2:813 EX C Frac Sleeve	10561.46	3.53	5.750		2.760	2375	192	318
		2 Joints of 4-1/2-13.5 LTC Casing	10564.99	75.51	5.000	3.920				
		Baker Open Hole Packer	10640.50	3.89	5.820	3.875		2154		
16		2 Joint of 4-1/2-13.5 LTC Casing	10644.39	76.63	5.000	3.920				
		2:750 EX C Frac Sleeve	10721.02	3.53	5.750		2.698	2375	183	318
		2 Joints of 4-1/2-13.5 LTC Casing	10724.55	77.04	5.000	3.920				
15		Baker Open Hole Packer	10801.59	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10805.48	77.66	5.000	3.920				
		2:688 EX C Frac Sleeve	10883.14	3.53	5.750		2.635	2375	175	318
14		2 Joints of 4-1/2-13.5 LTC Casing	10886.67	77.00	5.000	3.920				
		Baker Open Hole Packer	10963.67	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10967.56	77.10	5.000	3.920				
13		2:625 EX C Frac Sleeve	11044.66	3.53	5.750		2.573	2375	166	318
		2 Joint of 4-1/2-13.5 LTC Casing	11048.19	76.73	5.000	3.920				
		Baker Open Hole Packer	11121.92	3.89	5.820	3.875		2154		
12		2 Joints of 4-1/2-13.5 LTC Casing	11128.81	76.38	5.000	3.920				
		2:563 EX C Frac Sleeve	11205.19	3.53	5.750		2.510	2375	158	318
		2 Joints of 4-1/2-13.5 LTC Casing	11208.72	76.65	5.000	3.920				
11		Baker Open Hole Packer	11295.37	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11289.26	76.81	5.000	3.920				
		2:500 EX C Frac Sleeve	11366.07	3.53	5.750		2.448	2375	151	318
10		2 Joint of 4-1/2-13.5 LTC Casing	11369.60	76.34	5.000	3.920				
		Baker Open Hole Packer	11445.94	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Bradley 28 Fed Com #4H
 Sales Ticket Number 4742898

Company Rep Jake Nave
 Field
 BOT Service Rep John Davis
 District Location Odessa, Texas, USA



Date 6/25/2012

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,634.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,830.24	12,410	10,680
Bott Liner										
TVD	8,277.00		KOP	7,613.00		Open Hole	6.125	318.3		
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)
12		1 Joints of 4-1/2-13.5 LTC Casing	11449.83	38.78	5.000	3.920				
		2:438 EX C Frac Sleeve	11488.61	3.53	5.750		2:386	2375	143	318
		2 Joints of 4-1/2-13.5 LTC Casing	11492.14	76.38	5.000	3.920				
11		Baker Open Hole Packer	11568.62	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11572.41	76.63	5.000	3.920				
		2:375 EX C Frac Sleeve	11649.04	3.53	5.750		2:323	2375	136	318
10		2 Joint of 4-1/2-13.5 LTC Casing	11652.57	76.61	5.000	3.920				
		Baker Open Hole Packer	11729.18	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11733.07	75.64	5.000	3.920				
9		2:313 EX C Frac Sleeve	11808.71	3.53	5.750		2:261	2375	129	318
		2 Joints of 4-1/2-13.5 LTC Casing	11812.24	77.18	5.000	3.920				
		Baker Open Hole Packer	11889.42	3.89	5.820	3.875		2154		
8		1 Joints of 4-1/2-13.5 LTC Casing	11893.31	38.40	5.000	3.920				
		2:250 EX Frac Sleeve	11931.71	3.90	5.750		2:150	2286	114	318
		2 Joint of 4-1/2-13.5 LTC Casing	11935.61	76.83	5.000	3.920				
7		Baker Open Hole Packer	12012.44	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12016.33	76.78	5.000	3.920				
		2:125 EX Frac Sleeve	12093.11	3.90	5.750		2:025	2286	101	318
6		2 Joint of 4-1/2-13.5 LTC Casing	12097.01	75.09	5.000	3.920				
		Baker Open Hole Packer	12175.00	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12175.99	75.98	5.000	3.920				
		2:000 EX Frac Sleeve	12251.97	3.90	5.750		1:900	2286	89	318
		2 Joints of 4-1/2-13.5 LTC Casing	12255.87	75.29	5.000	3.920				
		Baker Open Hole Packer	12331.15	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12335.05	76.01	5.000	3.920				
		1:875 EX Frac Sleeve	12411.06	3.90	5.750		1:775	2286	78	318

Company Rep	Jake Nave
Field	
BOT Service Rep	John Davis



**BAKER
HUGHES**

District Location	Odessa, Texas, USA
--------------------------	--------------------

[illegible]