

Submit 1 Copy To Appropriate District Office
 District I
 1625 N French Dr., Hobbs, NM 88240
 District II
 1301 W Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV
 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 October 13, 2009

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-39426
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. VB-994 (SL) VB-1005 (BHL)
7. Lease Name or Unit Agreement Name Hayhurst 23 State Com
8. Well Number 2H
9. OGRID Number 14744
10. Pool name or Wildcat Hay Hollow; Bone Spring North 30216
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3335' GL

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
PO Box 5270, Hobbs, NM 88241

4. Well Location
 Unit Letter O _____ : _____ 330' feet from the South _____ line and 1700' _____ feet from the East _____ line
 Section 23 Township 25S Range 27E NMPM Eddy County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Comp Sundry <input checked="" type="checkbox"/>	

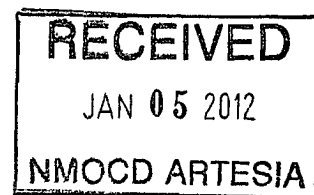
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/20/11 Frac Bone Spring Ports from 6890' MD (6456' TVD) to 10818' MD (6435' TVD) in 20 stages w/800,000 gals 15# Linear Gel carrying 375,000# 100 Mesh Sand & 1,320,000 gals 20# XL carrying 1,736,500# 20/40 sand. Flowback well for cleanup.

12/28/11 RIH w/ 2 7/8" 6.5# L80 tbg to 6066'. Put well on production

Spud Date: 11/13/2011

Rig Release Date: 12/08/2011



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jackie Lathan TITLE Hobbs Regulatory DATE 01/05/12

Type or print name Jackie Lathan E-mail address: jlathan@mewbourne.com PHONE: 575-393-5905

For State Use Only

APPROVED BY: T.C. Shepard TITLE Geologist DATE 1/13/2012
 Conditions of Approval (if any):

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

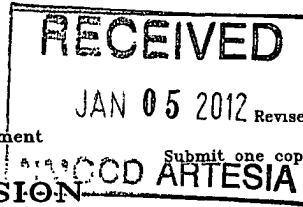
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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1000 Rio Brazos Rd., Aztec, NM 87410

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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505



Form C-102
July 16, 2010

Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-39226	Pool Code 30216	Pool Name Hay Hollow; Bonnie Springs Swth
Property Code 38826	Property Name HAYHURST "23" STATE COM	Well Number 2H
OGRID No. 1A7A4	Operator Name MEWBOURNE OIL COMPANY	Elevation 3061'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	25 S	27 E		330	SOUTH	1700	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	23	25 S	27 E		340	North	1718	EAST	Eddy

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *N M Young* Date: 1/2/12

Printed Name: N M Young

Email Address: _____

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed: SEPTEMBER 27 2011

Signature & Seal of Professional Surveyor: *[Signature]*

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 25341



Company: Mewbourne Oil & Gas
 Lease/Well: Hayhurst "23" ST/2H
 Location S23 T25S R27E
 Rig Name: Patterson 46
 State/County: New Mexico/Eddy
 Latitude: 32 11, Longitude: -104.16
 GRID North is 0.09 Degrees East of True North
 VS-Azi: 0.00 Degrees



30-015-39426

RKB : 10 feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: hayhurst23st2h_ed.ut
 Minimum Curvature Method
 Report Date/Time: 11/24/2011 / 06 17

Vaughn Energy Services
 Fort Worth, Texas
 817-741-3610
 Ray Seago

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	267.83	100.00	-0.02	-0.62	-0.02	0.62	267.83	0.71
200.00	1.43	285.13	199.98	0.28	-2.43	0.28	2.45	276.53	0.78
300.00	1.41	295.71	299.95	1.14	-4.74	1.14	4.88	283.47	0.26
400.00	1.42	288.31	399.92	2.06	-7.02	2.06	7.32	286.33	0.18
500.00	2.11	329.04	499.87	4.02	-9.14	4.02	9.99	293.74	1.38
600.00	2.17	336.74	599.81	7.34	-10.84	7.34	13.09	304.11	0.30
700.00	1.53	305.28	699.76	9.85	-12.68	9.85	16.05	307.86	1.18
800.00	1.15	275.89	799.73	10.72	-14.76	10.72	18.24	306.00	0.77
900.00	1.14	251.30	899.71	10.51	-16.70	10.51	19.73	302.18	0.49
1000.00	1.39	256.44	999.68	9.90	-18.82	9.90	21.27	297.75	0.27
1100.00	1.32	258.90	1099.66	9.40	-21.14	9.40	23.13	293.97	0.09
1200.00	1.28	234.28	1199.63	8.52	-23.18	8.52	24.69	290.19	0.56
1300.00	1.59	220.88	1299.60	6.82	-24.99	6.82	25.91	285.26	0.46
1400.00	1.95	224.37	1399.55	4.55	-27.09	4.55	27.47	279.54	0.37
1500.00	1.31	199.93	1499.51	2.26	-28.67	2.26	28.76	274.51	0.93
1600.00	1.56	167.10	1599.48	-0.14	-28.75	-0.14	28.76	269.72	0.85
1700.00	1.23	137.32	1699.45	-2.26	-27.72	-2.26	27.81	265.34	0.78
1800.00	2.87	85.85	1799.39	-2.87	-24.49	-2.87	24.66	263.32	2.32
1900.00	4.53	84.22	1899.18	-2.29	-18.06	-2.29	18.21	262.78	1.65
2000.00	5.18	84.42	1998.82	-1.45	-9.65	-1.45	9.76	261.43	0.65
2100.00	4.35	86.56	2098.48	-0.79	-1.37	-0.79	1.58	240.11	0.84
2200.00	2.99	79.47	2198.27	-0.08	4.99	-0.08	4.99	90.95	1.43
2300.00	2.47	78.69	2298.16	0.82	9.67	0.82	9.70	85.16	0.52
2400.00	2.14	79.93	2398.07	1.57	13.62	1.57	13.71	83.43	0.33
2500.00	1.83	77.42	2498.01	2.24	17.02	2.24	17.17	82.50	0.32
2600.00	1.61	74.79	2597.97	2.96	19.94	2.96	20.15	81.56	0.23
2700.00	1.66	73.97	2697.93	3.73	22.68	3.73	22.99	80.67	0.05
2800.00	1.71	85.00	2797.89	4.26	25.55	4.26	25.91	80.54	0.33
2900.00	1.20	85.13	2897.85	4.47	28.08	4.47	28.43	80.95	0.51
3000.00	0.97	91.76	2997.84	4.54	29.96	4.54	30.30	81.39	0.26
3100.00	0.89	93.44	3097.82	4.46	31.58	4.46	31.90	81.96	0.09
3200.00	0.75	116.01	3197.81	4.13	32.94	4.13	33.20	82.85	0.35
3300.00	0.25	132.91	3297.81	3.69	33.69	3.69	33.90	83.75	0.51
3400.00	0.35	84.95	3397.81	3.57	34.16	3.57	34.35	84.04	0.26
3500.00	0.37	150.66	3497.80	3.31	34.63	3.31	34.79	84.53	0.39

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
3600.00	0.27	185.71	3597.80	2.80	34.77	2.80	34.88	85.39	0.22
3700.00	0.17	296.08	3697.80	2.64	34.61	2.64	34.71	85.64	0.37
3800.00	0.28	195.69	3797.80	2.47	34.40	2.47	34.49	85.90	0.36
3900.00	0.49	261.15	3897.80	2.16	33.92	2.16	33.98	86.35	0.45
4000.00	0.37	213.49	3997.80	1.83	33.32	1.83	33.37	86.86	0.36
4100.00	0.12	244.45	4097.80	1.51	33.04	1.51	33.08	87.38	0.28
4200.00	0.66	178.97	4197.79	0.89	32.96	0.89	32.97	88.45	0.62
4300.00	1.11	189.47	4297.78	-0.64	32.81	-0.64	32.82	91.11	0.47
4400.00	0.77	210.86	4397.77	-2.17	32.31	-2.17	32.38	93.84	0.48
4500.00	0.79	211.74	4497.76	-3.34	31.60	-3.34	31.77	96.03	0.02
4600.00	1.17	198.46	4597.75	-4.90	30.91	-4.90	31.29	99.00	0.44
4700.00	0.94	217.12	4697.73	-6.52	30.09	-6.52	30.79	102.23	0.41
4800.00	1.39	233.75	4797.71	-7.89	28.61	-7.89	29.68	105.42	0.56
4900.00	1.18	208.61	4897.68	-9.51	27.14	-9.51	28.76	109.32	0.60
5000.00	1.42	217.98	4997.66	-11.39	25.89	-11.39	28.28	113.76	0.32
5100.00	1.49	229.00	5097.63	-13.22	24.15	-13.22	27.53	118.70	0.29
5200.00	1.36	228.26	5197.59	-14.86	22.28	-14.86	26.78	123.71	0.12
5300.00	1.18	215.15	5297.57	-16.49	20.80	-16.49	26.55	128.41	0.34
5400.00	1.23	198.71	5397.55	-18.35	19.87	-18.35	27.04	132.72	0.35
5500.00	1.50	206.17	5497.52	-20.54	18.95	-20.54	27.94	137.30	0.33
5600.00	1.22	204.31	5597.49	-22.69	17.93	-22.69	28.92	141.68	0.28
5700.00	1.26	195.54	5697.47	-24.72	17.19	-24.72	30.11	145.18	0.19
5730.00	1.31	198.35	5727.46	-25.37	17.00	-25.37	30.54	146.18	0.27

HORIZONTAL DISPLACEMENT IS
30.54 FEET AT 146.18 DEGREES

Mewbourne Oil Co

Eddy County, New Mexico

Sec 23, T25S, R27E

Hayhurst 23 State Com #2H

Wellbore #1

Survey: MWD

DDC Survey Report

04 January, 2012



DDC
Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Hayhurst 23 State Com #2H
Project: Eddy County, New Mexico	TVD Reference: WELL @ 3082.0usft (Patterson UTI #46)
Site: Sec 23, T25S, R27E	MD Reference: WELL @ 3082.0usft (Patterson UTI #46)
Well: Hayhurst 23 State 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 23, T25S, R27E		
Site Position:	Northing: 403,383.52 usft	Latitude: 32° 6' 32.023 N
From: Map	Easting: 554,479.12 usft	Longitude: 104° 9' 26.579 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.09 °

Well Hayhurst 23 State Com #2H		
Well Position +N/-S 0.0 usft	Northing: 403,383.52 usft	Latitude: 32° 6' 32.023 N
+E/-W 0.0 usft	Easting: 554,479.12 usft	Longitude: 104° 9' 26.579 W
Position Uncertainty 0.0 usft	Wellhead Elevation: usft	Ground Level: 3,061.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/24/2011	7.80	59.97	48,448

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	146.17

Survey Program	Date 1/4/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	5,730.0	VES Gyro (Wellbore #1)	Good_gyro	Good Gyro
5,843.0	10,876.0	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)
Tie In									
5,730.0	1.31	198.35	5,727.5	-25.3	17.0	30.5	0.00	0.00	0.00
5,843.0	1.40	167.10	5,840.4	-27.9	16.9	32.6	0.65	0.08	-27.65
5,874.0	1.50	160.40	5,871.4	-28.7	17.1	33.3	0.63	0.32	-21.61
5,906.0	1.10	26.20	5,903.4	-28.8	17.4	33.6	7.50	-1.25	-419.38
5,938.0	4.70	357.10	5,935.4	-27.2	17.5	32.3	11.80	11.25	-90.94
5,969.0	7.60	357.70	5,966.2	-23.9	17.3	29.5	9.36	9.35	1.94
6,001.0	10.60	356.80	5,997.8	-18.8	17.1	25.1	9.39	9.38	-2.81
6,033.0	14.10	357.10	6,029.0	-12.0	16.7	19.3	10.94	10.94	0.94
6,065.0	17.60	357.20	6,059.8	-3.3	16.3	11.8	10.94	10.94	0.31

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Hayhurst 23 State Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3082.0usft (Patterson UTI #46)
Site:	Sec 23, T25S, R27E	MD Reference:	WELL @ 3082.0usft (Patterson UTI #46)
Well:	Hayhurst 23 State 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)
Crossed Hard Line									
6,075.0	18.63	357.52	6,069.3	-0.2	16.1	9.1	10.37	10.32	3.23
6,096.0	20.80	358.10	6,089.1	6.9	15.8	3.1	10.37	10.32	2.75
6,128.0	24.00	0.10	6,118.7	19.1	15.7	-7.2	10.28	10.00	6.25
6,160.0	27.10	0.60	6,147.5	32.9	15.8	-18.6	9.71	9.69	1.56
6,192.0	29.80	359.40	6,175.7	48.2	15.8	-31.2	8.62	8.44	-3.75
6,224.0	32.80	357.90	6,203.0	64.8	15.4	-45.3	9.69	9.38	-4.69
6,255.0	36.00	358.30	6,228.6	82.3	14.8	-60.1	10.35	10.32	1.29
6,287.0	39.10	358.10	6,254.0	101.8	14.2	-76.6	9.69	9.69	-0.63
6,319.0	42.40	357.90	6,278.2	122.6	13.4	-94.4	10.32	10.31	-0.63
6,351.0	45.80	358.10	6,301.2	144.9	12.7	-113.3	10.63	10.63	0.63
6,382.0	49.30	357.90	6,322.1	167.7	11.9	-132.7	11.30	11.29	-0.65
6,414.0	52.70	357.70	6,342.2	192.6	10.9	-153.9	10.64	10.63	-0.63
6,445.0	56.60	358.50	6,360.2	217.9	10.1	-175.4	12.76	12.58	2.58
6,477.0	59.90	359.40	6,377.0	245.1	9.6	-198.2	10.59	10.31	2.81
6,509.0	63.30	359.40	6,392.2	273.2	9.3	-221.8	10.63	10.63	0.00
6,540.0	67.20	359.40	6,405.2	301.3	9.0	-245.3	12.58	12.58	0.00
6,572.0	70.10	358.60	6,416.8	331.1	8.5	-270.4	9.36	9.06	-2.50
6,604.0	72.80	358.40	6,427.0	361.5	7.7	-296.0	8.46	8.44	-0.63
6,635.0	75.30	358.70	6,435.5	391.3	6.9	-321.2	8.12	8.06	0.97
6,667.0	78.90	359.10	6,442.7	422.4	6.3	-347.4	11.32	11.25	1.25
6,699.0	82.20	359.90	6,447.9	454.0	6.0	-373.8	10.60	10.31	2.50
6,731.0	84.40	359.40	6,451.7	485.8	5.8	-400.3	7.05	6.88	-1.56
6,749.0	85.80	359.30	6,453.2	503.7	5.6	-415.3	7.80	7.78	-0.56
6,831.0	89.80	359.20	6,456.3	585.6	4.6	-483.9	4.88	4.88	-0.12
6,862.0	89.80	357.90	6,456.5	616.6	3.8	-510.1	4.19	0.00	-4.19
6,894.0	89.60	359.00	6,456.6	648.6	2.9	-537.2	3.49	-0.63	3.44
6,926.0	89.60	359.50	6,456.8	680.6	2.5	-564.0	1.56	0.00	1.56
6,958.0	89.80	358.40	6,457.0	712.6	1.9	-590.9	3.49	0.63	-3.44
6,989.0	90.00	358.70	6,457.1	743.6	1.1	-617.1	1.16	0.65	0.97
7,021.0	90.00	0.10	6,457.1	775.6	0.8	-643.8	4.38	0.00	4.38
7,085.0	90.20	359.30	6,457.0	839.6	0.5	-697.2	1.29	0.31	-1.25
7,148.0	90.40	359.70	6,456.6	902.6	-0.1	-749.8	0.71	0.32	0.63
7,211.0	90.30	0.80	6,456.2	965.6	0.2	-802.0	1.75	-0.16	1.75
7,274.0	90.60	0.20	6,455.7	1,028.6	0.7	-854.0	1.06	0.48	-0.95
7,338.0	90.60	359.60	6,455.1	1,092.6	0.6	-907.2	0.94	0.00	-0.94
7,401.0	90.10	0.70	6,454.7	1,155.6	0.8	-959.5	1.92	-0.79	1.75
7,465.0	90.90	358.40	6,454.1	1,219.6	0.3	-1,012.9	3.80	1.25	-3.59
7,528.0	90.30	0.00	6,453.5	1,282.5	-0.6	-1,065.7	2.71	-0.95	2.54
7,592.0	89.80	357.70	6,453.4	1,346.5	-1.9	-1,119.6	3.68	-0.78	-3.59
7,655.0	89.90	357.60	6,453.6	1,409.5	-4.5	-1,173.3	0.22	0.16	-0.16
7,719.0	90.30	359.70	6,453.5	1,473.5	-6.0	-1,227.3	3.34	0.63	3.28
7,782.0	90.60	358.10	6,453.0	1,536.4	-7.2	-1,280.3	2.58	0.48	-2.54

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Hayhurst 23 State Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3082.0usft (Patterson UTI #46)
Site:	Sec 23, T25S, R27E	MD Reference:	WELL @ 3082.0usft (Patterson UTI #46)
Well:	Hayhurst 23 State 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)
7,846.0	89.50	358.10	6,452.9	1,600.4	-9.3	-1,334.6	1.72	-1.72	0.00
7,908.0	89.80	358.10	6,453.3	1,662.4	-11.4	-1,387.2	0.48	0.48	0.00
7,972.0	90.20	359.10	6,453.3	1,726.3	-12.9	-1,441.2	1.68	0.63	1.56
8,035.0	90.60	0.60	6,452.9	1,789.3	-13.1	-1,493.6	2.46	0.63	2.38
8,099.0	90.30	2.70	6,452.4	1,853.3	-11.2	-1,545.8	3.31	-0.47	3.28
8,163.0	90.60	0.90	6,451.9	1,917.3	-9.2	-1,597.8	2.85	0.47	-2.81
8,226.0	90.90	2.00	6,451.0	1,980.2	-7.6	-1,649.2	1.81	0.48	1.75
8,290.0	91.30	0.20	6,449.8	2,044.2	-6.4	-1,701.7	2.88	0.63	-2.81
8,353.0	90.20	359.60	6,449.0	2,107.2	-6.5	-1,754.0	1.99	-1.75	-0.95
8,417.0	90.50	1.30	6,448.6	2,171.2	-6.0	-1,806.9	2.70	0.47	2.66
8,481.0	90.30	1.00	6,448.1	2,235.2	-4.7	-1,859.4	0.56	-0.31	-0.47
8,545.0	90.50	1.10	6,447.7	2,299.2	-3.6	-1,911.9	0.35	0.31	0.16
8,608.0	89.40	359.40	6,447.7	2,362.2	-3.3	-1,964.0	3.21	-1.75	-2.70
8,672.0	89.00	358.50	6,448.6	2,426.2	-4.5	-2,017.8	1.54	-0.63	-1.41
8,735.0	88.50	359.70	6,450.0	2,489.1	-5.4	-2,070.7	2.06	-0.79	1.90
8,767.0	90.50	359.40	6,450.3	2,521.1	-5.7	-2,097.4	6.32	6.25	-0.94
8,798.0	92.00	359.70	6,449.6	2,552.1	-5.9	-2,123.3	4.93	4.84	0.97
8,830.0	92.80	357.50	6,448.3	2,584.1	-6.7	-2,150.3	7.31	2.50	-6.88
8,893.0	92.20	358.90	6,445.5	2,647.0	-8.7	-2,203.6	2.42	-0.95	2.22
8,925.0	92.30	358.20	6,444.3	2,679.0	-9.5	-2,230.6	2.21	0.31	-2.19
8,956.0	91.30	358.30	6,443.3	2,709.9	-10.5	-2,256.9	3.24	-3.23	0.32
8,988.0	91.20	358.10	6,442.6	2,741.9	-11.5	-2,284.0	0.70	-0.31	-0.63
9,020.0	90.40	0.20	6,442.2	2,773.9	-11.9	-2,310.8	7.02	-2.50	6.56
9,052.0	90.60	358.30	6,441.9	2,805.9	-12.4	-2,337.7	5.97	0.63	-5.94
9,084.0	90.40	359.90	6,441.6	2,837.9	-12.9	-2,364.5	5.04	-0.63	5.00
9,115.0	89.50	358.50	6,441.6	2,868.9	-13.3	-2,390.5	5.37	-2.90	-4.52
9,147.0	89.50	359.50	6,441.9	2,900.9	-13.8	-2,417.4	3.12	0.00	3.13
9,179.0	89.20	0.60	6,442.3	2,932.9	-13.8	-2,444.0	3.56	-0.94	3.44
9,210.0	89.20	1.10	6,442.7	2,963.9	-13.4	-2,469.4	1.61	0.00	1.61
9,242.0	89.20	0.90	6,443.1	2,995.9	-12.8	-2,495.7	0.62	0.00	-0.63
9,274.0	90.20	358.90	6,443.3	3,027.9	-12.9	-2,522.3	6.99	3.13	-6.25
9,337.0	90.50	358.60	6,442.9	3,090.8	-14.2	-2,575.4	0.67	0.48	-0.48
9,400.0	90.60	359.60	6,442.3	3,153.8	-15.2	-2,628.3	1.60	0.16	1.59
9,464.0	90.90	358.00	6,441.5	3,217.8	-16.6	-2,682.2	2.54	0.47	-2.50
9,527.0	90.50	358.40	6,440.7	3,280.8	-18.5	-2,735.6	0.90	-0.63	0.63
9,590.0	91.30	357.80	6,439.7	3,343.7	-20.6	-2,789.0	1.59	1.27	-0.95
9,654.0	90.10	0.80	6,438.9	3,407.7	-21.4	-2,842.6	5.05	-1.88	4.69
9,717.0	90.10	1.00	6,438.8	3,470.7	-20.4	-2,894.4	0.32	0.00	0.32
9,781.0	90.60	0.60	6,438.4	3,534.7	-19.5	-2,947.0	1.00	0.78	-0.63
9,844.0	91.20	1.40	6,437.5	3,597.7	-18.4	-2,998.7	1.59	0.95	1.27
9,908.0	90.20	1.40	6,436.7	3,661.6	-16.9	-3,051.0	1.56	-1.56	0.00
9,972.0	90.30	0.10	6,436.4	3,725.6	-16.0	-3,103.7	2.04	0.16	-2.03
10,036.0	90.90	1.20	6,435.7	3,789.6	-15.3	-3,156.5	1.96	0.94	1.72
10,099.0	90.80	359.30	6,434.8	3,852.6	-15.0	-3,208.6	3.02	-0.16	-3.02

DDC
Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Hayhurst 23 State Com #2H
Project: Eddy County, New Mexico	TVD Reference: WELL @ 3082.0usft (Patterson UTI #46)
Site: Sec 23, T25S, R27E	MD Reference: WELL @ 3082 0usft (Patterson UTI #46)
Well: Hayhurst 23 State Com #2H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

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)
10,162.0	89 80	359.80	6,434.5	3,915.6	-15.5	-3,261.2	1.77	-1.59	0.79
10,225.0	90 10	0 60	6,434.5	3,978.6	-15.3	-3,313.4	1.36	0.48	1.27
10,288.0	90 70	359 70	6,434.1	4,041.6	-15.1	-3,365.7	1.72	0.95	-1.43
10,352.0	89.50	359 80	6,434.0	4,105.6	-15.4	-3,419.0	1.88	-1.88	0.16
10,415.0	86 90	0 70	6,435.9	4,168.6	-15.1	-3,471.2	4.37	-4.13	1.43
10,447.0	86 60	0 60	6,437.8	4,200.5	-14.8	-3,497.5	0.99	-0.94	-0.31
10,479.0	89 20	359.10	6,438.9	4,232.5	-14.9	-3,524.1	9.38	8.13	-4.69
10,511.0	89.80	358.70	6,439.2	4,264.5	-15.5	-3,551.0	2.25	1.88	-1.25
10,543.0	89.20	0 50	6,439.5	4,296.5	-15.7	-3,577.7	5.93	-1.88	5.63
10,574.0	90 30	0 50	6,439.6	4,327.5	-15.4	-3,603.3	3.55	3.55	0.00
10,606.0	90.90	359 50	6,439.3	4,359.5	-15.4	-3,629.9	3.64	1.88	-3.13
10,637.0	90.50	0 00	6,438.9	4,390.5	-15.6	-3,655.7	2.07	-1.29	1.61
10,669.0	91.00	359 40	6,438.5	4,422.5	-15.7	-3,682.4	2.44	1.56	-1.88
10,701.0	92.30	0 20	6,437.6	4,454.5	-15.8	-3,709.0	4.77	4.06	2.50
10,733.0	91.40	358.30	6,436.5	4,486.4	-16.3	-3,735.8	6.57	-2.81	-5.94
10,764.0	90.60	359.20	6,436.0	4,517.4	-16.9	-3,761.9	3.88	-2.58	2.90
10,796.0	90.90	358 70	6,435.6	4,549.4	-17.5	-3,788.8	1.82	0.94	-1.56
10,828.0	91.00	359.70	6,435.0	4,581.4	-18.0	-3,815.7	3.14	0.31	3.13
TD @ 10876' MD									
10,876.0	91.00	359.70	6,434.2	4,629.4	-18.2	-3,855.7	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,730.0	5,727.5	-25.3	17.0	Tie In
6,075.0	6,069.3	-0.2	16.1	Crossed Hard Line
10,876.0	6,434.2	4,629.4	-18.2	TD @ 10876' MD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Hayhurst 23 State Com #2H
 Eddy County, New Mexico
 Rig: Patterson UTI #46
 Created By: Dina Chance
 Date: 11/4/2012

Hayhurst 23 State Com #2H
 Eddy County, New Mexico
 Q110708 & WT-11656

WELL DETAILS Hayhurst 23 State Com #2H

Ground Level: 3061.0
 Northing: 403383.52
 Easting: 554479.12
 Latitude: 32° 6' 32.023 N
 Longitude: 104° 9' 26.679 W

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

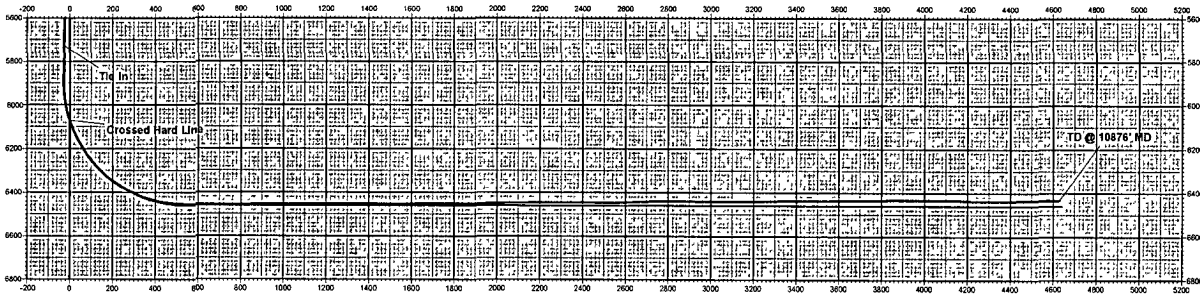
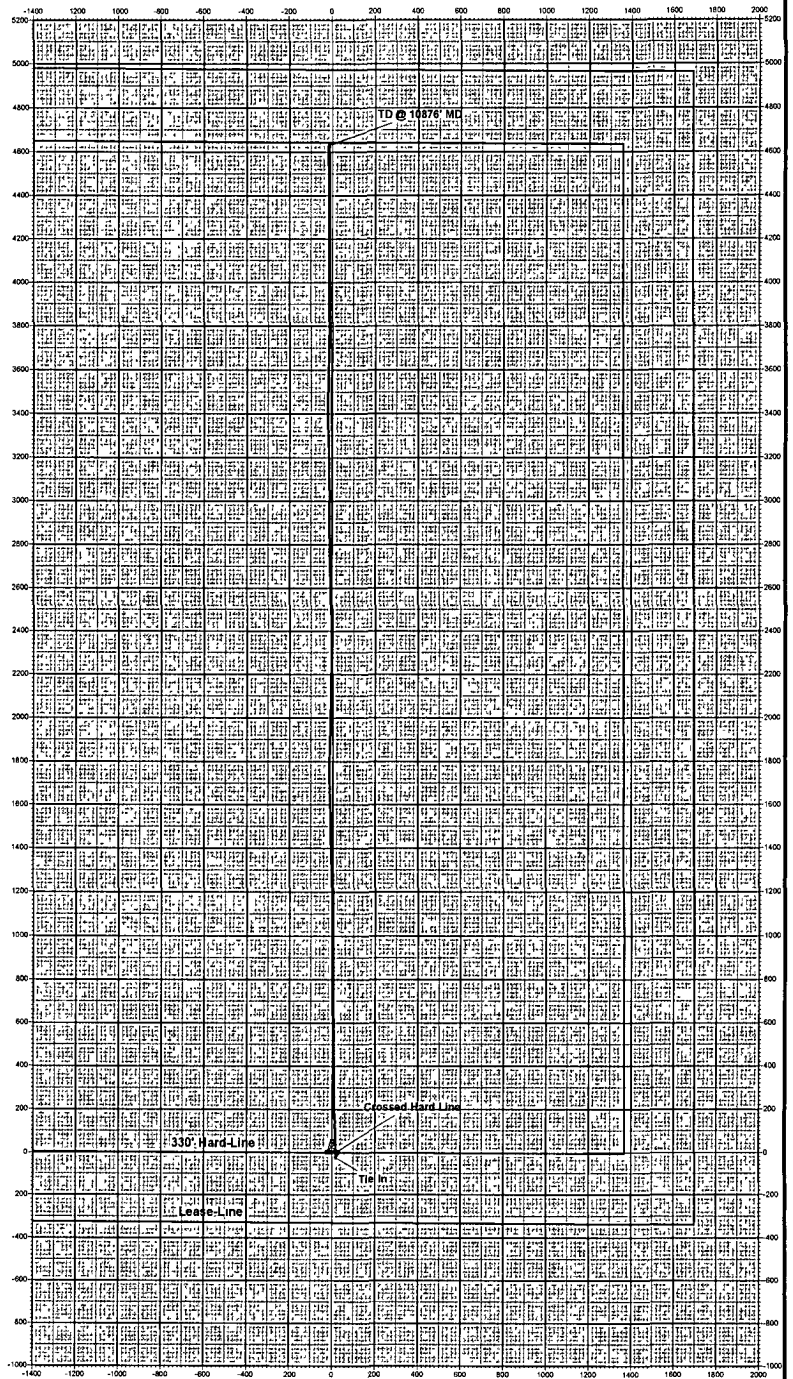
DESIGN TARGET DETAILS

Name	TVD	+N-S	+E/W	Northing	Easting	Latitude	Longitude
PBHL Hayhurst 23 State Com #2H Design #2 -plan hits target center	6482.0	4641.9	-11.5	408025.42	554467.62	32° 7' 17.962 N	104° 9' 26.626 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E/W	V Sect	Departure	Annotation
8730.0	1.34	138.35	5727.5	-25.3	17.0	30.5	141.2	Tie In
6075.0	18.63	357.52	6069.3	-0.2	16.1	9.1	174.3	Crossed Hard Line
10876.0	91.00	359.70	6434.2	4629.4	-19.2	-3865.7	4804.6	TD @ 10876' MD

T G M Azimuths to Grid North
 Magnetic North: 7.71°
 Magnetic Field
 Strength: 48447.6snT
 Dip Angle: 59.97°
 Date: 10/24/2011
 Model: IGRF2010



Vertical Section at 359.86° (200 usf/in)

Prepared for		Company	Date		
Mr. Mickey Young		Mewbourne Oil Company	14-Nov-11		
Well Name		Type of Installation	Location		
Hayhurst -23- State Com #2H		20-Stage 4-1/2" StackFRAC® HD	Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_			Page 1 of 3		
SNU0006753 MD 6541 5'		<p>***Drillable FracPORT's to be shipped without handling pups***</p> <p>Latched Seal Assembly 7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000004 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure) SF Bottom Guide</p>	5.875" 5.850"	4.750 3.875 3.850	4 46 6 37
		7" 26# P-110 LT&C Casing			
EA1002272 Stage 20 MD 6890 26' 255 4 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 9 Packers Plus 4-1/2" Drillable FracPORT™ with 3.625" Seat for 3.750" High Pressure Ball PN: 121332-000024 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.625 3.840	342.35 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 4 6' x 4-1/2" 11.6# P-110 LTC x BTC Pup Joint	4 500" 4 500"	4 000 4 000	152 86 6 09
EA3012494 MD 7051 86'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 BTC x LTC Pup Joint	4 500"	4 000	3 1
EA3011508 Stage 19 MD 7171 23' 259.76 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.500 3.840	111 02 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	77 51 6 08
EA3012358 MD 7257 47'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	3 09
EA3011443 Stage 18 MD 7343.14' 262 43 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 121332-000022 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.375 3.840	77 33 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	114 49 6 08
EA3012357 MD 7466 36'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	3 09
EA1016700 Stage 17 MD 7549 89' 265 63 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 121332-000021 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.250 3.840	75.19 2.65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	116 23 6 09
EA3012451 MD 7674 86'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	3 11
EA1017680 Stage 16 MD 7759 43' 268.88 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 121332-000020 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.125 3.840	76 21 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	77.96 6 09
EA3012456 MD 7846.13'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	3 1
EA3011769 Stage 15 MD 7970 33' 272.14 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 121332-000019 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 3.000 3.840	115 85 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	115.82 6 09
EA3012450 MD 8094 89'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4.000	3 1
EA3011247 Stage 14 MD 8219 49' 276 BBL		<p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 121332-000018 (5 shear pins at 314 psi each: 1,570 psi opening pressure)</p>	4 500" 5 630"	4 000 2.875 3.840	116 25 2 65
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500" 4 500"	4 000 4 000	77.52 6 08
EA3012452 MD 8305 74'		<p>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)</p>	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	3 09
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	76 52

Service Center: Midland, TX
Telephone: 432-563-8024
Contact: Scott Mabry

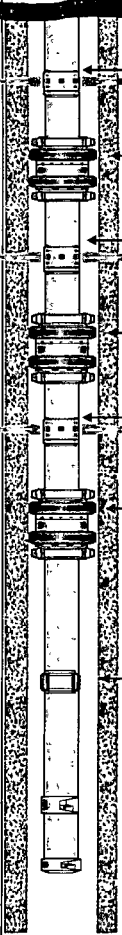
Telephone: Chad Williams 405-255-3223

Prepared for		Company	Date		
Mr. Mickey Young		Mewbourne Oil Company	14-Nov-11		
Well Name		Type of Installation	Location		
Hayhurst -23- State Com #2H		20-Stage 4-1/2" StackFRAC® HD	Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 2 of 3					
EA3011913		Stage 13			
MD 8390 6' 278 66 BBL		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	5.630"	2.750"	2.65
EA3012459		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	114.79
MD 8514.12'		6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	6.08
EA1016030		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	5.750"	3.875"	5.25
Stage 12		6' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	3.09
MD 8598 93' 281 9 BBL		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	76.47
EA2010359		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.630"	2.625"	2.65
MD 8683.24'		6' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	75.59
EA1017397		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	6.07
Stage 11		3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	3.1
MD 8805.24' 161 08 BBL		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	113.65
EA3012439		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.630"	2.500"	2.65
MD 8929.05'		6' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	6.07
EA1015898		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.750"	3.875"	5.25
Stage 10		3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	3.09
MD 9014 08' 288 32 BBL		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	5.630"	2.375"	2.65
EA3012457		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	77.78
MD 9100 58'		6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	6.07
EA1017930		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.750"	3.875"	5.25
Stage 9	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	3.09	
MD 9185 35' 290 98 BBL	Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	76.43	
EA3012458	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.630"	2.250"	2.65	
MD 9305 98'	6' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	111.9	
EA1017912	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	6.08	
Stage 8	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	3.09	
MD 9391 47' 294 17 BBL	Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	77.15	
EA3008565	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	5.630"	2.125"	2.65	
MD 9477.88'	6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	77.69	
EA1015771	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	6.07	
Stage 7	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	5.750"	3.875"	5.25	
MD 9599.83' 297.4 BBL	Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball PN: 121332-000011 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	3.06	
EA3008572	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	113.64	
MD 9686 01'	6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	5.630"	2.000"	2.65	
EA1015652	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	77.46	
Stage 6	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	6.07	
MD 9771.9' 300 07 BBL	Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 121332-000010 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	5.630"	1.875"	2.65	
EA3012367	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	77.57	
MD 9895 38'	6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	114.74	
EA1016134	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	6.09	
Stage 5	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	5.750"	3.875"	5.25	
MD 9980.6' 303.3 BBL	Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 121332-000009 (5 shear pins at 314 psi each; 1,570 psi opening pressure)	4.500"	4.000"	3.07	
EA3012538	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	76.9	
MD 10028.18'	6' x 4-1/2" 11.6# P-110 LTC Pup Joint 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 1	5.630"	1.750"	2.65	
	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)	4.500"	4.000"	38.86	
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	6.07	
		4.500"	4.000"	3.07	
		4.500"	4.000"	78.46	

Service Center: Midland, TX
Telephone: 432-563-8024
Contact: Scott Mabry

Telephone: Chad Williams 405-255-3223

Prepared for Mr. Mickey Young	Company Mewbourne Oil Company	Date 14-Nov-11
Well Name Hayhurst -23- State Com #2H	Type of Installation 20-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM

Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 3 of 3					
REV_ EA1017271 Stage 4 MD10114.96 305.39 BBL		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball PN: 121332-000008 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 4 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	5.630"	1.625	2.65
EA2010331 MD10276.28		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	152.6
EA1012832 Stage 3 MD10397.68 309.77 BBL		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball PN: 121332-000007 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.08
EA2010339 MD10482.76		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	113.07
EA1005773 Stage 2 MD10603.91 312.97 BBL		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball PN: 121332-000006 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.06
EA3008563 MD10729.18		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.06
Stage 1 MD 10814.9' 316.23 BBL		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)	4.500"	4.000	3.09
			4.500"	4.000	77.38

Service Center Midland, TX	Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223
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OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE HAYHURST 23 ST COM 2H
COUNTY EDDY

STATE OF NEW MEXICO
DEVIATION REPORT

280	1.29
648	1.29
902	0.92
1,092	0.56
1,219	1.47
1,314	1.11
1,567	1.40
1,789	2.02
2,011	5 00
2,074	5.20
2,200	3 05
2,366	1.98
2,588	1.41
2,810	1.23
3,443	0.56
4,236	0.31
4,648	0.81
5,029	1.22
5,443	1 24

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STATE OF TEXAS

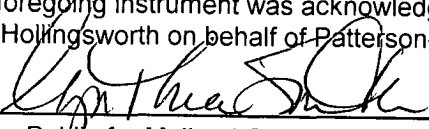
COUNTY OF MIDLAND

BY: 

Received

JAN 09 2012

The foregoing instrument was acknowledged before me on December 22, 2011, by Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC, Mewbourne Oil Company Hobbs


Notary Public for Midland County, Texas
My Commission Expires: November 6, 2014

