

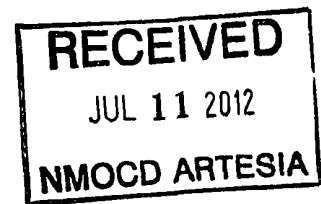
OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE THOMPSON 8 FEDERAL # 2H
COUNTY EDDY

041-0097

STATE OF NEW MEXICO
DEVIATION REPORT

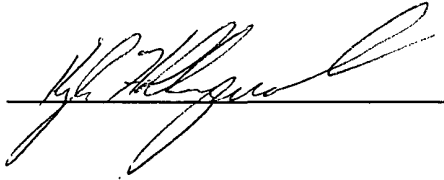
30-015-39295

334	1.00
679	0.42
986	1.25
1,177	2.00
1,364	0.60
1,714	0.75
2,175	0.85
2,573	1.00
2,936	1.25
3,529	0.61
3,845	0.44
4,350	0.60
4,845	1.47
5,296	0.90
5,737	0.80
6,178	0.85
6,654	2.55
7,078	1.29



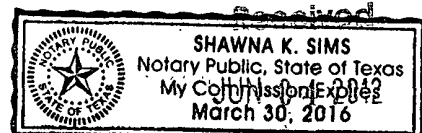
STATE OF TEXAS

COUNTY OF MIDLAND

BY. 

The foregoing instrument was acknowledged before me on 5/29/12, by
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC


Notary Public for Midland County, Texas
My Commission Expires:



Mewbourne Oil Company
Hobbs



Company: Mewbourne Oil Corporation

Lease/Well: Thompson 8 Federal/2H

Rig Name: Patterson 41

State/County: New Mexico/Eddy

Latitude: 32.59

GRID North is 0.13 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB=16 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: thompson 8 fed 2h.ut

Minimum Curvature Method

Report Date/Time: 5/21/2012 / 09:55

Vaughn Energy Services

Fort Worth, Texas

817-741-3610

Surveyor: Mark Havens

Thompson 8 Federal 2H / API 30-015-39295

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	****
200.00	0.51	28.86	200.00	0.78	0.43	0.78	0.90	28.86	0.26
400.00	0.46	226.70	399.99	1.02	0.29	1.02	1.06	15.61	0.48
600.00	0.63	207.70	599.99	-0.50	-0.81	-0.50	0.95	238.18	0.13
800.00	2.38	103.26	799.93	-2.43	2.73	-2.43	3.66	131.71	1.31
1000.00	1.73	89.33	999.80	-3.35	9.79	-3.35	10.35	108.90	0.41
1200.00	0.68	81.33	1199.75	-3.14	13.97	-3.14	14.32	102.67	0.53
1400.00	1.07	84.62	1399.73	-2.79	17.00	-2.79	17.22	99.31	0.20
1600.00	0.93	88.32	1599.70	-2.56	20.48	-2.56	20.64	97.14	0.08
1800.00	3.53	84.02	1799.53	-1.88	28.22	-1.88	28.28	93.80	1.30
2000.00	3.02	85.44	1999.20	-0.82	39.60	-0.82	39.60	91.18	0.25
2200.00	2.76	60.64	2198.96	1.97	49.05	1.97	49.09	87.70	0.63
2400.00	3.57	34.80	2398.66	9.44	56.81	9.44	57.58	80.56	0.81
2600.00	1.79	28.14	2598.43	17.31	61.83	17.31	64.21	74.36	0.90
2800.00	1.89	334.75	2798.34	23.04	61.90	23.04	66.05	69.58	0.83
3000.00	1.06	329.70	2998.28	27.63	59.55	27.63	65.65	65.11	0.42
3200.00	0.87	322.46	3198.25	30.44	57.69	30.44	65.23	62.18	0.11
3400.00	0.76	6.56	3398.23	32.97	56.91	32.97	65.77	59.91	0.31
3600.00	0.52	358.38	3598.22	35.20	57.04	35.20	67.02	58.32	0.13
3800.00	0.50	305.81	3798.21	36.62	56.30	36.62	67.16	56.96	0.23
4000.00	0.60	312.26	3998.20	37.84	54.81	37.84	66.61	55.38	0.06

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'
4200.00	0.52	314.52	4198.19	39.19	53.38	39.19	66.22	53.72	0.04
4400.00	0.66	315.89	4398.18	40.66	51.92	40.66	65.95	51.93	0.07
4600.00	0.98	316.66	4598.16	42.74	49.94	42.74	65.73	49.44	0.16
4800.00	1.19	324.43	4798.12	45.69	47.55	45.69	65.94	46.14	0.13
5000.00	1.43	332.76	4998.07	49.60	45.19	49.60	67.10	42.33	0.15
5200.00	1.35	331.95	5198.01	53.91	42.93	53.91	68.92	38.53	0.04
5400.00	0.91	324.63	5397.97	57.29	40.91	57.29	70.39	35.53	0.23
5600.00	0.78	316.80	5597.95	59.58	39.05	59.58	71.24	33.24	0.09
5800.00	0.56	282.05	5797.94	60.78	37.16	60.78	71.24	31.44	0.23
6000.00	0.67	300.58	5997.93	61.57	35.20	61.57	70.93	29.76	0.11
6200.00	0.91	277.77	6197.91	62.38	32.62	62.38	70.40	27.61	0.20
6400.00	1.71	264.94	6397.85	62.33	28.08	62.33	68.37	24.25	0.42
6600.00	2.05	238.29	6597.75	60.19	22.07	60.19	64.11	20.14	0.46
6800.00	2.13	232.63	6797.62	56.05	16.07	56.05	58.31	16.00	0.11
7000.00	1.38	226.83	6997.52	52.15	11.36	52.15	53.37	12.29	0.39
7200.00	0.74	239.75	7197.49	49.85	8.49	49.85	50.57	9.66	0.34
7250.00	0.70	242.34	7247.48	49.55	7.94	49.55	50.18	9.10	0.11

Mewbourne Oil Co

Eddy County, New Mexico

Sec 8-20S-29E

Thompson 8 Federal Com #2H

Wellbore #1

Survey: MWD

DDC Survey Report

23 May, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Thompson 8 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3303.0usft (Patterson 41)
Site:	Sec 8-20S-29E	MD Reference:	WELL @ 3303.0usft (Patterson 41)
Well:	Thompson 8 Federal Com #2H	North Reference:	Gnd
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 8-20S-29E			
Site Position:		Northing:	579,433.40 usft	Latitude:	32° 35' 33.830 N
From:	Map	Easting:	575,217.33 usft	Longitude:	104° 5' 20.792 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well:	Thompson 8 Federal Com #2H				
Well Position	+N/-S	0.0 usft	Northing:	579,433.40 usft	Latitude: 32° 35' 33.830 N
	+E/-W	0.0 usft	Easting:	575,217.33 usft	Longitude: 104° 5' 20.792 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 3,285.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/20/2012	7.75	60.42	48,697

Design:	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	276.09

Survey Program		Date: 5/23/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	7,250.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,420.0	12,378.0	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 @ 7250' MD / 7248' TVD									
7,250.0	0.70	242.34	7,247.5	49.4	8.0	-2.7	0.00	0.00	0.00
7,420.0	3.20	218.70	7,417.4	45.3	4.1	0.7	1.51	1.47	-13.91
7,452.0	3.20	225.90	7,449.3	43.9	2.9	1.8	1.26	0.00	22.50
7,483.0	5.90	233.40	7,480.2	42.4	1.0	3.5	8.90	8.71	24.19
7,515.0	10.00	244.10	7,511.9	40.2	-2.8	7.1	13.57	12.81	33.44
7,546.0	14.10	252.80	7,542.2	37.9	-8.8	12.8	14.43	13.23	28.06
Crossed Hard Line @ 7578' Md / 7573' TVD									
7,578.0	17.60	260.40	7,573.0	35.9	-17.3	21.1	12.69	10.94	23.75

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Thompson 8 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3303.0usft (Patterson 41)
Site:	Sec 8-20S-29E	MD Reference:	WELL @ 3303.0usft (Patterson 41)
Well:	Thompson 8 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)
7,609.0	20.80	269.60	7,602.3	35.1	-27.5	31.0	14.18	10.32	29.68
7,641.0	24.00	276.10	7,631.9	35.8	-39.6	43.2	12.63	10.00	20.31
7,672.0	27.30	278.50	7,659.8	37.5	-52.9	56.6	11.16	10.65	7.74
7,704.0	30.30	279.60	7,687.9	39.9	-68.1	72.0	9.52	9.38	3.44
7,735.0	34.10	279.80	7,714.1	42.7	-84.4	88.5	12.26	12.26	0.65
7,767.0	37.80	279.00	7,740.0	45.8	-103.0	107.2	11.66	11.56	-2.50
7,798.0	41.30	278.00	7,763.9	48.7	-122.5	127.0	11.48	11.29	-3.23
7,830.0	44.40	278.90	7,787.3	51.9	-144.0	148.7	9.87	9.69	2.81
7,861.0	47.60	278.80	7,808.9	55.3	-166.0	171.0	10.33	10.32	-0.32
7,893.0	50.50	277.60	7,829.8	58.8	-190.0	195.1	9.49	9.06	-3.75
7,925.0	53.50	277.20	7,849.5	62.0	-215.0	220.3	9.43	9.38	-1.25
7,956.0	56.40	277.90	7,867.3	65.3	-240.1	245.7	9.54	9.35	2.26
7,988.0	59.90	277.90	7,884.2	69.1	-267.0	272.9	10.94	10.94	0.00
8,019.0	64.70	277.40	7,898.6	72.7	-294.2	300.3	15.55	15.48	-1.61
8,051.0	68.20	277.00	7,911.4	76.4	-323.3	329.6	11.00	10.94	-1.25
8,082.0	71.30	277.20	7,922.1	80.0	-352.2	358.7	10.02	10.00	0.65
8,114.0	75.50	276.50	7,931.3	83.7	-382.6	389.3	13.29	13.13	-2.19
8,145.0	80.00	275.60	7,937.9	86.8	-412.7	419.6	14.79	14.52	-2.90
8,177.0	84.50	274.60	7,942.2	89.7	-444.3	451.3	14.40	14.06	-3.13
8,261.0	90.20	276.80	7,946.1	98.0	-527.8	535.2	7.27	6.79	2.62
8,293.0	90.40	277.40	7,945.9	101.9	-559.5	567.2	1.98	0.63	1.88
8,325.0	90.70	277.80	7,945.6	106.2	-591.2	599.2	1.56	0.94	1.25
8,357.0	91.00	276.40	7,945.1	110.1	-623.0	631.2	4.47	0.94	-4.38
8,389.0	91.10	275.90	7,944.5	113.6	-654.8	663.2	1.59	0.31	-1.56
8,420.0	90.60	275.30	7,944.1	116.6	-685.6	694.1	2.52	-1.61	-1.94
8,452.0	90.70	275.50	7,943.7	119.6	-717.5	726.1	0.70	0.31	0.63
8,484.0	90.70	275.10	7,943.3	122.6	-749.4	758.1	1.25	0.00	-1.25
8,547.0	91.60	275.80	7,942.0	128.5	-812.1	821.1	1.81	1.43	1.11
8,611.0	90.90	276.50	7,940.6	135.4	-875.7	885.1	1.55	-1.09	1.09
8,675.0	90.50	275.70	7,939.9	142.2	-939.3	949.1	1.40	-0.63	-1.25
8,738.0	90.60	275.10	7,939.3	148.1	-1,002.0	1,012.1	0.97	0.16	-0.95
8,802.0	91.40	274.50	7,938.1	153.5	-1,065.8	1,076.1	1.56	1.25	-0.94
8,865.0	90.60	273.50	7,937.0	157.9	-1,128.6	1,139.0	2.03	-1.27	-1.59
8,928.0	90.60	273.20	7,936.4	161.5	-1,191.5	1,201.9	0.48	0.00	-0.48
8,992.0	90.50	271.80	7,935.8	164.3	-1,255.5	1,265.8	2.19	-0.16	-2.19
9,055.0	91.20	273.40	7,934.8	167.2	-1,318.4	1,328.7	2.77	1.11	2.54
9,119.0	91.00	275.40	7,933.6	172.1	-1,382.2	1,392.6	3.14	-0.31	3.13
9,183.0	91.60	276.30	7,932.2	178.6	-1,445.8	1,456.6	1.69	0.94	1.41
9,246.0	90.80	275.80	7,930.8	185.3	-1,508.5	1,519.6	1.50	-1.27	-0.79
9,310.0	90.80	274.90	7,929.9	191.2	-1,572.2	1,583.6	1.41	0.00	-1.41
9,373.0	91.00	274.50	7,928.9	196.4	-1,635.0	1,646.6	0.71	0.32	-0.63
9,436.0	90.20	274.50	7,928.3	201.3	-1,697.8	1,709.5	1.27	-1.27	0.00
9,500.0	90.60	274.70	7,927.8	206.5	-1,761.6	1,773.5	0.70	0.63	0.31

DDC Survey Report



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Site:	Sec 8-20S-29E	MD Reference:	WELL @ 3303.0usft (Patterson 41)
Well:	Thompson 8 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)
9,564.0	91.30	274.10	7,926.8	211.4	-1,825.4	1,837.5	1.44	1.09	-0.94
9,627.0	90.60	274.80	7,925.7	216.3	-1,888.2	1,900.4	1.57	-1.11	1.11
9,691.0	90.80	274.40	7,925.0	221.4	-1,951.9	1,964.4	0.70	0.31	-0.63
9,754.0	91.10	273.20	7,923.9	225.6	-2,014.8	2,027.4	1.96	0.48	-1.90
9,818.0	90.70	274.50	7,922.9	229.9	-2,078.6	2,091.3	2.12	-0.63	2.03
9,882.0	90.90	276.50	7,922.0	236.0	-2,142.3	2,155.3	3.14	0.31	3.13
9,945.0	90.20	277.30	7,921.4	243.6	-2,204.9	2,218.3	1.69	-1.11	1.27
10,009.0	90.80	277.30	7,920.8	251.7	-2,268.4	2,282.3	0.94	0.94	0.00
10,072.0	91.40	277.70	7,919.6	259.9	-2,330.8	2,345.2	1.14	0.95	0.63
10,136.0	91.10	278.60	7,918.2	269.0	-2,394.1	2,409.2	1.48	-0.47	1.41
10,199.0	89.50	278.00	7,917.9	278.1	-2,456.5	2,472.1	2.71	-2.54	-0.95
10,263.0	89.50	277.80	7,918.5	286.9	-2,519.9	2,536.1	0.31	0.00	-0.31
10,326.0	89.90	277.40	7,918.8	295.2	-2,582.3	2,599.1	0.90	0.63	-0.63
10,390.0	90.30	276.90	7,918.7	303.2	-2,645.8	2,663.0	1.00	0.63	-0.78
10,453.0	91.10	276.70	7,917.9	310.6	-2,708.4	2,726.0	1.31	1.27	-0.32
10,517.0	91.30	276.00	7,916.6	317.7	-2,772.0	2,790.0	1.14	0.31	-1.09
10,580.0	90.40	276.20	7,915.6	324.4	-2,834.6	2,853.0	1.46	-1.43	0.32
10,644.0	90.40	275.00	7,915.2	330.7	-2,898.3	2,917.0	1.87	0.00	-1.88
10,707.0	90.90	275.10	7,914.5	336.2	-2,961.0	2,980.0	0.81	0.79	0.16
10,771.0	91.90	274.60	7,912.9	341.6	-3,024.8	3,044.0	1.75	1.56	-0.78
10,834.0	91.10	274.80	7,911.3	346.8	-3,087.6	3,106.9	1.31	-1.27	0.32
10,897.0	90.00	274.70	7,910.7	352.0	-3,150.3	3,169.9	1.75	-1.75	-0.16
10,961.0	90.50	275.30	7,910.4	357.6	-3,214.1	3,233.9	1.22	0.78	0.94
11,024.0	91.50	275.60	7,909.3	363.5	-3,276.8	3,296.9	1.66	1.59	0.48
11,087.0	91.30	275.10	7,907.7	369.4	-3,339.5	3,359.8	0.85	-0.32	-0.79
11,151.0	89.70	275.30	7,907.2	375.2	-3,403.2	3,423.8	2.52	-2.50	0.31
11,215.0	89.70	275.20	7,907.5	381.1	-3,467.0	3,487.8	0.16	0.00	-0.16
11,279.0	90.70	275.20	7,907.3	386.9	-3,530.7	3,551.8	1.56	1.56	0.00
11,343.0	91.10	275.00	7,906.3	392.6	-3,594.4	3,615.8	0.70	0.63	-0.31
11,407.0	91.60	274.50	7,904.8	397.9	-3,658.2	3,679.8	1.10	0.78	-0.78
11,470.0	90.70	274.30	7,903.5	402.7	-3,721.0	3,742.7	1.46	-1.43	-0.32
11,533.0	90.60	274.00	7,902.8	407.3	-3,783.8	3,805.7	0.50	-0.16	-0.48
11,596.0	91.30	273.60	7,901.8	411.4	-3,846.7	3,868.6	1.28	1.11	-0.63
11,660.0	89.60	273.70	7,901.3	415.5	-3,910.6	3,932.6	2.66	-2.66	0.16
11,724.0	89.10	273.40	7,902.0	419.5	-3,974.4	3,996.5	0.91	-0.78	-0.47
11,756.0	89.10	273.50	7,902.5	421.4	-4,006.4	4,028.5	0.31	0.00	0.31
11,788.0	89.10	273.30	7,903.0	423.3	-4,038.3	4,060.4	0.62	0.00	-0.63
11,820.0	90.30	273.00	7,903.2	425.0	-4,070.3	4,092.4	3.87	3.75	-0.94
11,883.0	92.10	272.30	7,901.8	428.0	-4,133.2	4,155.2	3.07	2.86	-1.11
11,947.0	93.10	271.70	7,898.9	430.2	-4,197.1	4,219.0	1.82	1.56	-0.94
12,011.0	92.80	272.20	7,895.6	432.4	-4,260.9	4,282.8	0.91	-0.47	0.78
12,075.0	92.00	272.60	7,893.0	435.0	-4,324.8	4,346.6	1.40	-1.25	0.63
12,137.0	91.20	272.10	7,891.2	437.6	-4,386.8	4,408.4	1.52	-1.29	-0.81
12,200.0	90.70	272.30	7,890.2	440.0	-4,449.7	4,471.3	0.85	-0.79	0.32

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Thompson 8 Federal Com #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3303.0usft (Patterson 41)
Site:	Sec 8-20S-29E	MD Reference:	WELL @ 3303.0usft (Patterson 41)
Well:	Thompson 8 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)
12,264.0	92.00	272.30	7,888.7	442.6	-4,513.6	4,535.1	2.03	2.03	0.00
12,328.0	93.20	272.60	7,885.8	445.3	-4,577.5	4,598.9	1.93	1.88	0.47
TD @ 12378' MD / 7883' TVD									
12,378.0	93.20	272.60	7,883.0	447.6	-4,627.4	4,648.7	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,250.0	7,247.5	49.4	8.0	TIE IN @ 7250' MD / 7248' TVD
7,578.0	7,573.0	35.9	-17.3	Crossed Hard Line @ 7578' MD / 7573' TVD
12,378.0	7,883.0	447.6	-4,627.4	TD @ 12378' MD / 7883' TVD

Checked By: _____	Approved By: _____	Date: _____
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Company Name: Mewbourne Oil Co
Thompson 8 Federal Com #2H
Eddy County, New Mexico
Rig: Patterson 41
Created By: Dina Chance
Date: 5/23/2012

Thompson 8 Federal Com #2H
Eddy County, New Mexico
Q110188 & WT-12283

WELL DETAILS Thompson 8 Federal Com #2H

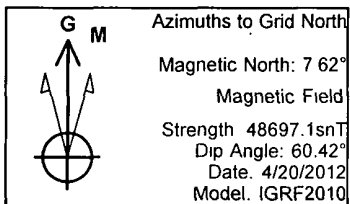
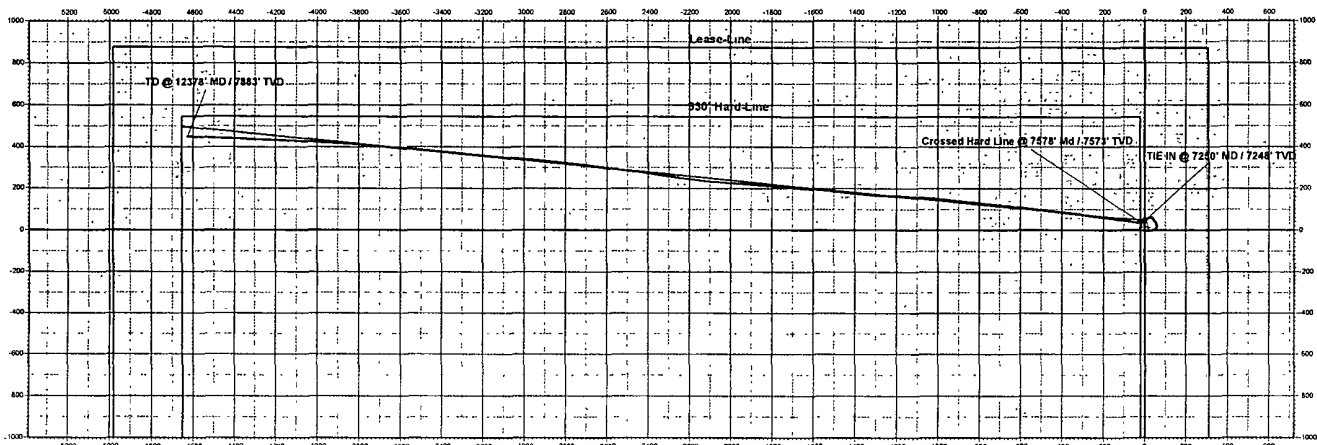
Ground Level: 3285.0
+N-S +E-W Northing Easting
0.0 0.0 579433.40 575217.33
Latitude Longitude
32° 35' 33.830 N 104° 6' 20.792 W

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

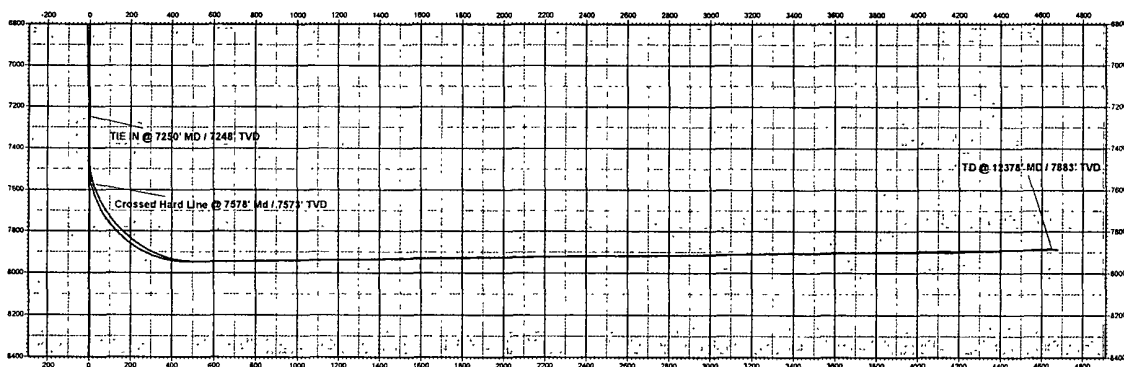


DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Thompson 8 Fed Com #2H	7250.0	498.5	-4653.4	579929.90	570563.90	32° 35' 38.846 N	104° 6' 15.172 W
- plan hits target center							

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSec	Departure	Annotation
7250.0	0.70	242.34	7247.5	49.4	8.0	-2.7	164.2	TIE IN @ 7250' MD / 7248' TVD
7578.0	17.60	260.40	7573.0	55.9	-17.3	21.1	193.8	Crossed Hard Line @ 7578' MD / 7573' TVD
12378.0	93.20	272.60	7883.0	447.6	-4627.4	4648.7	4624.6	TD @ 12378 MD / 7883 TVD



Vertical Section at 276.09° (200 usft/in)

		Do It Once. Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Completion	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 4-Jun-12			
Well Name Thompson 8 Federal 2H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
Page 1 of 3							
KOP 7420'							
TOL 8008.83'							
63°							
7" Shoe 8230							
Drillable FracPORT's to be shipped without handling pups 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			5.875"	4.750			
7" 26# P-110 LT&C Casing			5.850"	3.850	9 47		
4-1/2" 13.50# P-110 LTC LINER JOINTS: 8			4.500"	3.92"	304 52		
Stage 19	Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball		5 630"	3.500	2 65		
SNU0010703	PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			3.840			
8322.82'	4-1/2" 13.50# P-110 LTC LINER JOINTS: 2		4 500"	3.92"	76 50		
311.45BBLs	6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3.92"	6 10		
Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer			5 750"	3.875	5 25		
SNU0009992	PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)						
8408.07'	3' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3.92"	3 10		
4-1/2" 13.50# P-110 LTC LINER JOINTS: 2			4 500"	3.92"	76 60		
Stage 18	Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball		5 630"	3.375	2 65		
SNU0010582	PN: 121332-000022 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			3.840			
8493.02'	4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4 500"	3.92"	114 55		
314.00BBLs	6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3.92"	6 11		
Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer			5 750"	3.875	5 25		
SNU0009755	PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)						
8616.33'	3' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3.92"	3 12		
4-1/2" 13.50# P-110 LTC LINER JOINTS: 2			4 500"	3.92"	76 31		
Stage 17	Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball		5 630"	3.250	2 65		
SNU0010577	PN: 121332-000021 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			3.840			
8701.01'	4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4 500"	3.92"	113 42		
317.12BBLs	6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3.92"	6 12		
Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer			5 750"	3.875	5 25		
SNU0010085	PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)						
8823.20'	3' x 4-1/2" 13 50# P-110 LTC Pup Joint		4.500"	3.92"	3.11		
4-1/2" 13.50# P-110 LTC LINER JOINTS: 3			4 500"	3.92"	113 52		
Stage 16	Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball		5 630"	3.125	2 65		
SNU0010556	PN: 121332-000020 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			3.840			
8945.08'	4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4 500"	3.92"	114.11		
320.78BBLs	6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4.500"	3.92"	6.11		
Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer			5 750"	3.875	5 25		
SNU0009766	PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)						
9067.95'	3' x 4-1/2" 13.50# P-110 LTC Pup Joint		4 500"	3.92"	3.10		
4-1/2" 13.50# P-110 LTC LINER JOINTS: 2			4 500"	3.92"	76 06		
Service Center Midland, TX		Telephone 432-563-8024	Contact Scott Mabry		Telephone Chad Williams 405-255-3223		

		Do It Once Do It Right.	Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Completion
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 4-Jun-12	
Well Name Thompson 8 Federal 2H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM	
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 2 of 3					
Stage 15 SNU0010550 9152.36' 323.89BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	3.000	2 65
			4 500"	3 92"	114 13
			4 500"	3 92"	6 10
			5 750"	3.875	5 25
Stage 14 SNU0010542 9397.50' 327.57BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.875	2 65
			4 500"	3 92"	113 90
			4 500"	3 92"	113 33
			4 500"	3.92"	6 11
			5 750"	3.875	5 25
Stage 13 SNU0010472 9602.98' 330.65BBLs		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" 13.50# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.750	2 65
			4 500"	3 92"	114 02
			4 500"	3 92"	6 01
			5 750"	3.875	5 25
Stage 12 SNU0010461 9847.55' 334.32BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.625	2 65
			4 500"	3 92"	113 39
			4 500"	3 92"	6 08
			5 750"	3.875	5 25
Stage 11 SNU0010425 10092.85' 338.00BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.500	2 65
			4 500"	3 92"	114 91
			4 500"	3 92"	6 11
			5 750"	3.875	5 25
Stage 10 SNU0010423 10339.09' 341.69BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.375	2 65
			4 500"	3 92"	114 26
			4 500"	3 92"	6 12
			5 750"	3.875	5 25
Stage 9 SNU0010418 10584.76' 345.38BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 630"	2.250	2 65
			4 500"	3 92"	114 22
			4 500"	3 92"	6 11
			5 750"	3.875	5 25
Stage 8 SNU0010690 10791.58' 348.48BBLs		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	2.125	2 65
			4 500"	3 92"	114 72
Service Center Midland, TX		Telephone 432-563-8024		Contact Scott Mabry	
				Telephone Chad Williams 405-255-3223	



Do It Once
Do It Right.

Confidential Information - not to be disclosed
outside Mewbourne Oil Company

Final
Completion

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 4-Jun-12		
Well Name Thompson 8 Federal 2H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 3 of 3					
SNU0009760 10915.07'		6' x 4-1/2" 13.50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	6 12
Stage 7		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 750"	3.875"	5 25
SNU0010185 11038.33' 352.18BBLS		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	3 11
Stage 6		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3.92"	114 90
SNU0010309 11161.90'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5 630"	2.000"	2 65
Stage 5		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	114 80
SNU0010178 11246.81' 355.31BBLS		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3.92"	6 12
Stage 4		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" 13.50# P-110 LTC LINER JOINTS: 3	5 750"	3.875"	5 25
SNU0010308 11371.06'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	3 11
Stage 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" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3.92"	76 55
SNU0010176 11455.92' 358.45BBLS		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5 630"	1.875"	2 65
Stage 2		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" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	115 49
SNU0010322 11579.52'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	6 11
Stage 1		Packers Plus 4-1/2" Drillable FracPORT™ with 1.250" Seat for 1.375" High Pressure Ball PN: 121332-000005 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 750"	3.875"	5 25
SNU0010101 11664.47' 361.57BBLS		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	3 11
Stage 0		Packers Plus 4-1/2" Drillable FracPORT™ with 1.125" Seat for 1.250" High Pressure Ball PN: 121332-000004 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	76 50
SNU0010262 11787.72'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5 750"	3.875"	5 25
Stage 0		Packers Plus 4-1/2" Drillable FracPORT™ with 1.000" Seat for 1.125" High Pressure Ball PN: 121332-000007 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	114 82
SNU0010259 11996.22'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	6 13
Stage 0	Packers Plus 4-1/2" Drillable FracPORT™ with 0.875" Seat for 1.000" High Pressure Ball PN: 121332-000006 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5 750"	3.875"	5 25	
SNU0009359 12118.85' 368.93BBLS	6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	3 10	
Stage 0	Packers Plus 4-1/2" Drillable FracPORT™ with 0.750" Seat for 0.875" High Pressure Ball PN: 121332-000008 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3.92"	114 28	
SNU0010263 12242.33'	6' x 4-1/2" 13 50# P-110 LTC Pup Joint 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" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5 630"	1.375"	2 65	
Stage 0	Packers Plus 4-1/2" Drillable FracPORT™ with 0.625" Seat for 0.750" High Pressure Ball PN: 121332-000009 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	114 82	
TMD 12378'	Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)	4 500"	3 92"	6 01	
		4 500"	3.875"	5 25	
		4 500"	3 92"	3 13	
		4 500"	3 92"	76 54	
				2 75	
Service Center Midland, TX	Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223		