



Company: Mewbourne Oil Company

Lease/Well: Burton 4 Federal Com/4H

Location: S4 T20s R29e

Rig Name: Patterson 45

State/County: New Mexico/Eddy

Latitude: 32.60

GRID North is 0.14 Degrees East of True North

VS-Azi: 270.18 Degrees



Depth Reference : RKB = 18 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...ederal com #4h_gyro survey.ut

Minimum Curvature Method

Report Date/Time: 6/25/2012 / 16:22

Vaughn Energy Services

(432) 563-5444

Gardendale, TX

Surveyor: Colby Ware

Burton 4 Federal Com 4H / API 30-015-40204

30-015-40204

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	0.97	36.27	199.99	1.37	1.01	-1.00	1.70	36.27	0.49
400.00	1.72	47.87	399.93	4.76	4.24	-4.22	6.37	41.71	0.40
600.00	2.32	49.37	599.81	9.41	9.54	-9.51	13.40	45.40	0.30
800.00	3.26	52.81	799.57	15.48	17.14	-17.09	23.10	47.91	0.47
1000.00	3.35	54.27	999.24	22.33	26.41	-26.34	34.58	49.79	0.06
1200.00	2.94	59.35	1198.94	28.35	35.56	-35.47	45.48	51.44	0.25
1400.00	2.40	71.93	1398.72	32.26	43.95	-43.85	54.52	53.72	0.39
1600.00	0.81	84.05	1598.64	33.71	49.35	-49.24	59.76	55.66	0.81
1800.00	0.72	82.90	1798.62	34.01	52.00	-51.89	62.14	56.81	0.05
2000.00	0.55	85.80	1998.61	34.24	54.21	-54.10	64.11	57.72	0.08
2200.00	1.07	75.35	2198.59	34.78	56.97	-56.86	66.74	58.60	0.27
2400.00	1.33	71.27	2398.54	35.99	60.97	-60.86	70.80	59.44	0.14
2600.00	1.02	63.21	2598.50	37.55	64.77	-64.65	74.86	59.90	0.18
2800.00	0.82	55.73	2798.47	39.15	67.54	-67.42	78.07	59.90	0.12
3000.00	0.59	50.26	2998.46	40.62	69.52	-69.39	80.52	59.70	0.12
3200.00	0.69	47.28	3198.45	42.10	71.20	-71.06	82.71	59.40	0.05
3400.00	0.81	28.47	3398.43	44.15	72.75	-72.61	85.10	58.75	0.14
3600.00	0.36	8.71	3598.42	46.01	73.52	-73.37	86.73	57.96	0.24
3800.00	0.22	330.83	3798.42	46.96	73.42	-73.27	87.15	57.40	0.11
4000.00	0.91	278.77	3998.41	47.54	71.67	-71.52	86.00	56.44	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
4200.00	1.50	265.46	4198.36	47.58	67.49	-67.34	82.57	54.82	0.33
4400.00	1.96	261.43	4398.27	46.86	61.49	-61.34	77.31	52.69	0.24
4600.00	2.11	260.89	4598.14	45.77	54.46	-54.32	71.14	49.96	0.08
4800.00	2.18	256.66	4798.00	44.30	47.12	-46.98	64.68	46.76	0.09
5000.00	1.62	262.85	4997.89	43.07	40.61	-40.48	59.20	43.32	0.30
5200.00	1.24	273.17	5197.83	42.84	35.65	-35.51	55.74	39.76	0.23
5400.00	0.91	276.18	5397.79	43.13	31.90	-31.77	53.65	36.49	0.17
5600.00	0.62	294.41	5597.78	43.75	29.34	-29.20	52.68	33.85	0.19
5800.00	0.53	304.64	5797.77	44.73	27.59	-27.45	52.55	31.67	0.07
6000.00	0.90	296.06	5997.75	45.94	25.42	-25.28	52.51	28.96	0.19
6200.00	1.13	291.56	6197.72	47.35	22.19	-22.04	52.29	25.11	0.12
6400.00	1.28	276.20	6397.67	48.32	18.13	-17.98	51.61	20.57	0.18
6600.00	1.27	256.10	6597.63	48.02	13.74	-13.59	49.95	15.97	0.22
6800.00	1.18	245.91	6797.58	46.65	9.70	-9.55	47.64	11.75	0.12
7000.00	1.29	247.39	6997.53	44.93	5.73	-5.59	45.30	7.27	0.06
7200.00	1.07	258.17	7197.49	43.69	1.82	-1.69	43.72	2.39	0.16
7280.00	0.88	258.76	7277.48	43.41	0.49	-0.36	43.42	0.65	0.23

OPERATOR MEWBOURNE
WELL/LEASE BURTON 4 FED COM 4H
COUNTY EDDY

045-0084

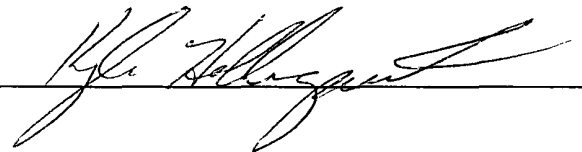
STATE OF NEW MEXICO
DEVIATION REPORT

300	1.73
596	2.00
716	2.94
841	3.34
1,096	3.34
1,222	2.67
1,410	2.61
1,535	1.65
1,727	1.48
3,496	0.55
3,909	0.19
4,321	1.77
4,449	2.24
4,578	1.86
4,703	2.34
4,830	1.91
5,084	1.85
5,214	1.41
5,374	0.74
5,595	0.59
5,882	0.91
6,136	1.72
6,264	1.04
6,386	1.08
6,513	1.03
6,765	0.97
7,178	0.78

STATE OF TEXAS

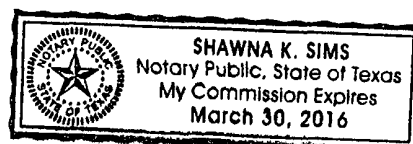
COUNTY OF MIDLAND

BY:



The foregoing instrument was acknowledged before me on 7/17/12, by
Kyle Hollingsworth on behalf of Patterson-UTi Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires:



Mewbourne Oil Co

Eddy County, New Mexico

Sec 4-20S-29E

Burton 4 Fed Com #4H

Wellbore #1

Survey: MWD

DDC Survey Report

09 July, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local/Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3350.0usft (Patterson #45)
Site:	Sec 4-20S-29E	MD Reference:	WELL @ 3350.0usft (Patterson #45)
Well:	Burton 4 Fed Com #4H	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 4-20S-29E		
Site Position:		Northing:	583,552.10 usft
From:	Map	Easting:	580,468.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 36' 14.464 N
		Longitude:	104° 4' 19.299 W
		Grid Convergence:	0 14 °

Well:	Burton 4 Fed Com #4H		
Well Position	+N-S	0.0 usft	Northing: 583,552.10 usft
	+E-W	0.0 usft	Easting: 580,468.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 36' 14.464 N
		Longitude:	104° 4' 19.299 W
		Ground Level:	3,330.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	6/12/2012	7.72
			60.43
			48,691

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	270.18

Survey Program	Date 7/9/2012		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
200.0	7,280.0	Gyro (Wellbore #1)	Good_gyro
7,418.0	12,350.0	MWD (Wellbore #1)	MWD default
			MWD - Standard

Survey	Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn
	Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
	(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
TIE IN @ 7280' MD / 7278' TVD										
	7,280.0	0.88	258.76	7,277.5	43.4	0.5	-0.4	0.00	0.00	0.00
CROSSED HARD LINE @ 7315' MD / 7313' TVD										
	7,315.0	1.17	250.37	7,312.5	43.3	-0.1	0.2	0.94	0.84	-23.97
	7,418.0	2.10	240.00	7,415.4	42.0	-2.7	2.8	0.94	0.90	-10.07
	7,450.0	1.90	238.00	7,447.4	41.4	-3.7	3.8	0.66	-0.63	-6.25
	7,482.0	4.20	257.50	7,479.4	40.9	-5.2	5.4	7.78	7.19	60.94
	7,513.0	7.60	263.70	7,510.2	40.4	-8.4	8.5	11.14	10.97	20.00
	7,545.0	10.70	267.60	7,541.8	40.0	-13.5	13.6	9.87	9.69	12.19

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3350.0usft (Patterson #45)
Site:	Sec 4-20S-29E	MD Reference:	WELL @ 3350.0usft (Patterson #45)
Well:	Burton 4 Fed Com #4H	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)
7,577.0	14.30	270.40	7,573.0	39.9	-20.4	20.5	11.41	11.25	8.75
7,609.0	17.60	271.30	7,603.8	40.1	-29.2	29.3	10.34	10.31	2.81
7,640.0	20.70	271.40	7,633.1	40.3	-39.3	39.5	10.00	10.00	0.32
7,672.0	23.40	270.20	7,662.7	40.5	-51.4	51.5	8.55	8.44	-3.75
7,704.0	26.90	267.20	7,691.7	40.1	-64.9	65.1	11.64	10.94	-9.38
7,735.0	30.90	264.80	7,718.8	39.1	-79.9	80.0	13.43	12.90	-7.74
7,767.0	34.50	264.40	7,745.7	37.4	-97.1	97.2	11.27	11.25	-1.25
7,799.0	37.60	265.30	7,771.6	35.8	-115.8	116.0	9.83	9.69	2.81
7,831.0	41.20	266.30	7,796.3	34.3	-136.1	136.2	11.42	11.25	3.13
7,863.0	44.90	267.70	7,819.7	33.1	-157.9	158.0	11.94	11.56	4.38
7,894.0	49.20	267.90	7,840.8	32.3	-180.6	180.7	13.88	13.87	0.65
7,926.0	53.00	268.30	7,860.9	31.4	-205.5	205.6	11.91	11.88	1.25
7,958.0	56.70	268.10	7,879.3	30.6	-231.6	231.7	11.57	11.56	-0.63
7,990.0	60.70	267.90	7,896.0	29.7	-258.9	259.0	12.51	12.50	-0.63
8,021.0	64.80	267.90	7,910.2	28.7	-286.5	286.6	13.23	13.23	0.00
8,053.0	69.40	267.90	7,922.6	27.6	-315.9	316.0	14.38	14.38	0.00
8,085.0	72.60	268.30	7,933.0	26.6	-346.1	346.2	10.07	10.00	1.25
8,117.0	76.30	268.10	7,941.6	25.6	-377.0	377.0	11.58	11.56	-0.63
8,148.0	80.40	267.90	7,947.9	24.6	-407.3	407.4	13.24	13.23	-0.65
8,180.0	84.40	268.10	7,952.1	23.4	-439.0	439.1	12.52	12.50	0.63
8,190.0	85.00	268.10	7,953.0	23.1	-448.9	449.0	6.00	6.00	0.00
8,255.0	88.90	271.30	7,956.5	22.8	-513.8	513.9	7.76	6.00	4.92
8,287.0	88.80	268.30	7,957.1	22.7	-545.8	545.9	9.38	-0.31	-9.38
8,350.0	89.10	267.90	7,958.3	20.6	-608.8	608.8	0.79	0.48	-0.63
8,413.0	90.30	267.70	7,958.6	18.2	-671.7	671.8	1.93	1.90	-0.32
8,477.0	89.30	268.10	7,958.8	15.8	-735.7	735.7	1.68	-1.56	0.63
8,540.0	90.20	268.80	7,959.1	14.1	-798.7	798.7	1.81	1.43	1.11
8,604.0	89.70	268.60	7,959.2	12.7	-862.6	862.7	0.84	-0.78	-0.31
8,668.0	91.90	270.00	7,958.3	11.9	-926.6	926.7	4.07	3.44	2.19
8,700.0	91.40	269.50	7,957.3	11.7	-958.6	958.6	2.21	-1.56	-1.56
8,764.0	91.10	269.10	7,955.9	11.0	-1,022.6	1,022.6	0.78	-0.47	-0.63
8,828.0	91.40	269.10	7,954.5	10.0	-1,086.6	1,086.6	0.47	0.47	0.00
8,890.0	90.60	269.10	7,953.5	9.0	-1,148.5	1,148.6	1.29	-1.29	0.00
8,954.0	89.70	269.90	7,953.3	8.4	-1,212.5	1,212.6	1.88	-1.41	1.25
9,018.0	89.60	270.20	7,953.7	8.5	-1,276.5	1,276.6	0.49	-0.16	0.47
9,081.0	89.10	269.90	7,954.4	8.5	-1,339.5	1,339.6	0.93	-0.79	-0.48
9,144.0	88.90	269.50	7,955.5	8.2	-1,402.5	1,402.5	0.71	-0.32	-0.63
9,208.0	89.70	269.30	7,956.3	7.5	-1,466.5	1,466.5	1.29	1.25	-0.31
9,272.0	90.40	270.00	7,956.2	7.1	-1,530.5	1,530.5	1.55	1.09	1.09
9,335.0	90.20	269.70	7,955.9	7.0	-1,593.5	1,593.5	0.57	-0.32	-0.48
9,399.0	91.00	269.70	7,955.2	6.6	-1,657.5	1,657.5	1.25	1.25	0.00
9,462.0	91.40	269.10	7,953.9	6.0	-1,720.5	1,720.5	1.14	0.63	-0.95
9,526.0	91.00	269.90	7,952.6	5.4	-1,784.5	1,784.5	1.40	-0.63	1.25

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3350.0usft (Patterson #45)
Site:	Sec 4-20S-29E	MD Reference:	WELL @ 3350.0usft (Patterson #45)
Well:	Burton 4 Fed Com #4H	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)
9,589.0	91.60	270.20	7,951.1	5.5	-1,847.5	1,847.5	1.06	0.95	0.48
9,653.0	90.80	270.20	7,949.8	5.7	-1,911.4	1,911.4	1.25	-1.25	0.00
9,716.0	90.70	270.30	7,949.0	6.0	-1,974.4	1,974.4	0.22	-0.16	0.16
9,780.0	90.80	269.50	7,948.1	5.9	-2,038.4	2,038.4	1.26	0.16	-1.25
9,843.0	90.40	269.30	7,947.5	5.2	-2,101.4	2,101.4	0.71	-0.63	-0.32
9,907.0	90.20	269.10	7,947.1	4.3	-2,165.4	2,165.4	0.44	-0.31	-0.31
9,971.0	90.00	268.30	7,947.0	2.9	-2,229.4	2,229.4	1.29	-0.31	-1.25
10,034.0	89.80	267.90	7,947.1	0.8	-2,292.4	2,292.4	0.71	-0.32	-0.63
10,098.0	89.30	269.10	7,947.6	-0.9	-2,356.3	2,356.3	2.03	-0.78	1.88
10,162.0	89.90	270.00	7,948.1	-1.4	-2,420.3	2,420.3	1.69	0.94	1.41
10,226.0	90.10	269.50	7,948.1	-1.7	-2,484.3	2,484.3	0.84	0.31	-0.78
10,289.0	91.20	269.50	7,947.4	-2.2	-2,547.3	2,547.3	1.75	1.75	0.00
10,353.0	91.40	269.00	7,945.9	-3.1	-2,611.3	2,611.3	0.84	0.31	-0.78
10,416.0	91.50	269.30	7,944.3	-4.0	-2,674.3	2,674.2	0.50	0.16	0.48
10,480.0	92.10	269.90	7,942.3	-4.5	-2,738.2	2,738.2	1.33	0.94	0.94
10,543.0	91.30	270.90	7,940.5	-4.0	-2,801.2	2,801.2	2.03	-1.27	1.59
10,607.0	91.40	271.10	7,938.9	-2.9	-2,865.2	2,865.2	0.35	0.16	0.31
10,670.0	91.40	270.00	7,937.4	-2.3	-2,928.2	2,928.1	1.75	0.00	-1.75
10,733.0	90.20	270.90	7,936.5	-1.8	-2,991.1	2,991.1	2.38	-1.90	1.43
10,796.0	89.50	271.30	7,936.7	-0.6	-3,054.1	3,054.1	1.28	-1.11	0.63
10,860.0	89.80	270.70	7,937.1	0.5	-3,118.1	3,118.1	1.05	0.47	-0.94
10,923.0	89.90	269.90	7,937.2	0.9	-3,181.1	3,181.1	1.28	0.16	-1.27
10,986.0	90.00	269.00	7,937.3	0.2	-3,244.1	3,244.1	1.44	0.16	-1.43
11,050.0	90.00	268.80	7,937.3	-1.0	-3,308.1	3,308.1	0.31	0.00	-0.31
11,113.0	89.90	268.80	7,937.4	-2.3	-3,371.1	3,371.1	0.16	-0.16	0.00
11,175.0	89.60	270.40	7,937.6	-2.7	-3,433.1	3,433.1	2.63	-0.48	2.58
11,239.0	89.60	272.30	7,938.1	-1.2	-3,497.1	3,497.0	2.97	0.00	2.97
11,301.0	89.60	272.30	7,938.5	1.3	-3,559.0	3,559.0	0.00	0.00	0.00
11,364.0	89.90	272.10	7,938.8	3.7	-3,622.0	3,622.0	0.57	0.48	-0.32
11,428.0	90.80	272.30	7,938.4	6.1	-3,685.9	3,685.9	1.44	1.41	0.31
11,491.0	90.90	272.70	7,937.5	8.9	-3,748.9	3,748.9	0.65	0.16	0.63
11,555.0	90.50	273.00	7,936.7	12.1	-3,812.8	3,812.8	0.78	-0.63	0.47
11,619.0	90.40	273.40	7,936.2	15.6	-3,876.7	3,876.7	0.64	-0.16	0.63
11,683.0	89.50	273.70	7,936.2	19.6	-3,940.5	3,940.6	1.48	-1.41	0.47
11,747.0	92.30	273.20	7,935.2	23.5	-4,004.4	4,004.5	4.44	4.38	-0.78
11,811.0	93.70	274.20	7,931.9	27.6	-4,068.2	4,068.3	2.69	2.19	1.56
11,874.0	93.50	274.10	7,927.9	32.1	-4,130.9	4,131.0	0.35	-0.32	-0.16
11,938.0	92.70	273.40	7,924.5	36.3	-4,194.7	4,194.8	1.66	-1.25	-1.09
12,001.0	90.80	272.00	7,922.5	39.3	-4,257.6	4,257.7	3.75	-3.02	-2.22
12,064.0	89.20	271.80	7,922.5	41.4	-4,320.5	4,320.6	2.56	-2.54	-0.32
12,128.0	88.40	271.80	7,923.9	43.4	-4,384.5	4,384.6	1.25	-1.25	0.00
12,191.0	88.80	271.10	7,925.4	45.0	-4,447.4	4,447.6	1.28	0.63	-1.11
12,254.0	89.50	271.30	7,926.3	46.3	-4,510.4	4,510.5	1.16	1.11	0.32
12,299.0	90.00	271.30	7,926.5	47.3	-4,555.4	4,555.5	1.11	1.11	0.00

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3350.0usft (Patterson #45)
Site:	Sec 4-20S-29E	MD Reference:	WELL @ 3350.0usft (Patterson #45)
Well:	Burton 4 Fed Com #4H	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)
TD @ 12350' MD / 7926' TVD									
12,350.0	90.50	271.20	7,926.3	48.4	-4,606.4	4,606.5	1.00	0.98	-0.20

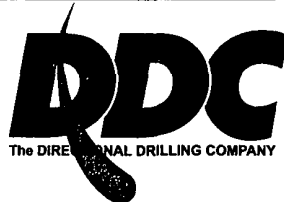
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,280.0	7,277.5	43.4	0.5	TIE IN @ 7280' MD / 7278' TVD
7,315.0	7,312.5	43.3	-0.1	CROSSED HARD LINE @ 7315' MD / 7313' TVD
12,350.0	7,926.3	48.4	-4,606.4	TD @ 12350' MD / 7926' TVD

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

Company Name Mewbourne Oil Co
Burton 4 Fed Com #4H
Eddy County, New Mexico
Rig: Patterson #45
Created By DINA CHANCE
Date 7/9/2012

Burton 4 Fed Com #4H
Eddy County, New Mexico
Q120022 & WT-12430



T G M Azimuths to Grid North
Magnetic North: 7.58°
Magnetic Field
Strength 48691 0snT
Dip Angle: 60.43°
Date: 6/12/2012
Model: IGRF2010

Mewbourne Oil Company

PROJECT DETAILS Eddy County, New Mexico

Geodetic System US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1858
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS Burton 4 Fed Com #4H

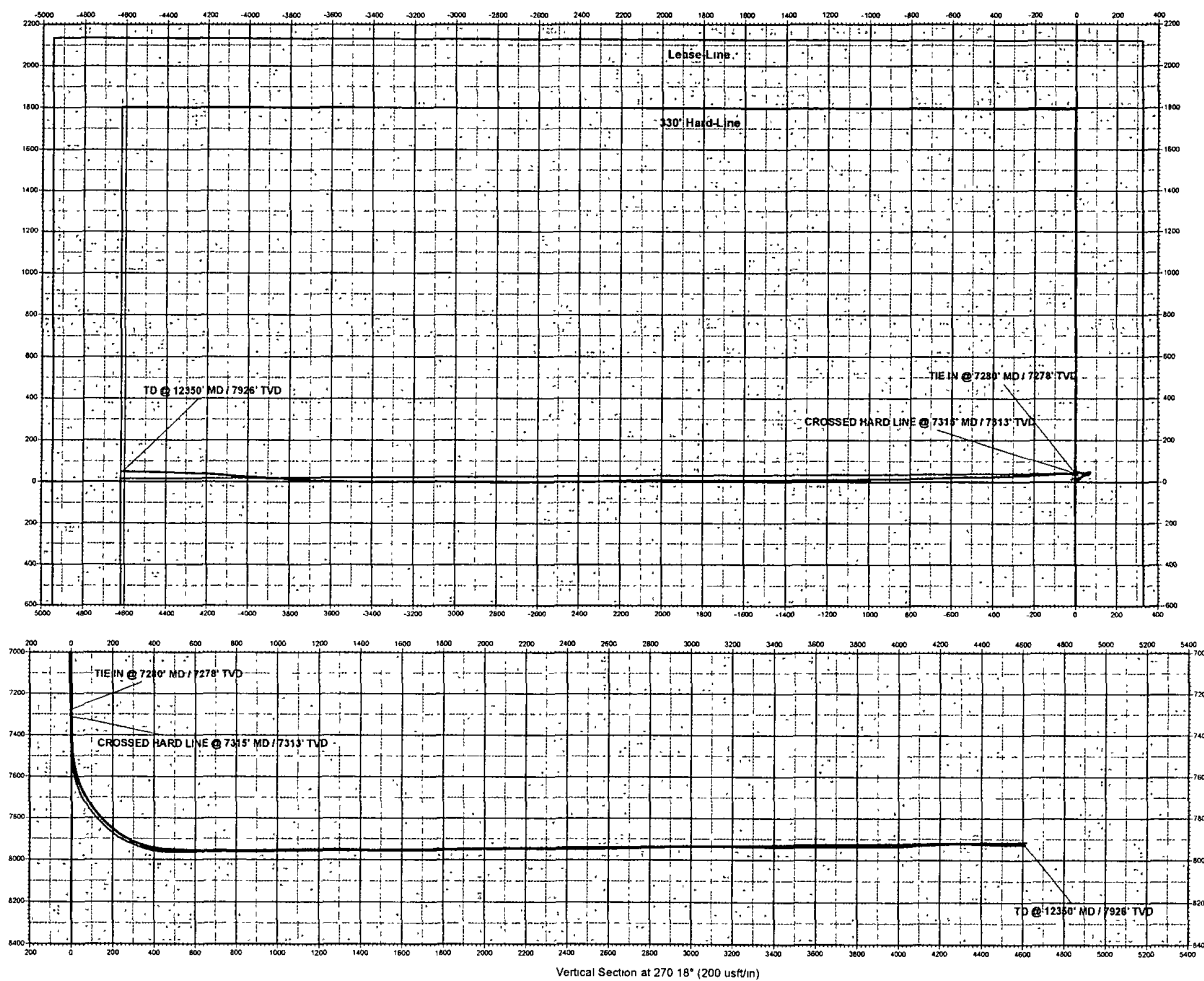
Ground Level 5330.0
+N-S +E-W Northing Easting Latitude Longitude
0.0 0.0 553552.10 580468.00 32° 36' 14.484 N 104° 4' 19.299 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
7280.0	0.88	258.76	7277.6	43.4	0.5	-0.4	165.8	TIE IN @ 7280' MD / 7278' TVD
7318.0	1.17	250.57	7312.6	43.3	-0.1	0.2	188.7	CROSSED HARD LINE @ 7318' MD / 7313' TVD
12350.0	90.50	271.30	7926.3	48.4	-4508.4	4606.5	4775.6	TD @ 12350' MD / 7926' TVD

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Burton 4 Fed Com #4H - plan hits target center	7915.0	14.3	-4617.7	583566.40	575850.30	32° 36' 14.716 N	104° 5' 13.281 W



OPERATOR
WELL/LEASE
COUNTY

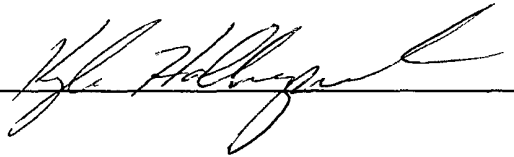
MEWBOURNE
BURTON 4 FED COM 4H
EDDY

045-0084

STATE OF NEW MEXICO
DEVIATION REPORT

300	1.73
596	2.00
716	2.94
841	3.34
1,096	3.34
1,222	2.67
1,410	2.61
1,535	1.65
1,727	1.48
3,496	0.55
3,909	0.19
4,321	1.77
4,449	2.24
4,578	1.86
4,703	2.34
4,830	1.91
5,084	1.85
5,214	1.41
5,374	0.74
5,595	0.59
5,882	0.91
6,136	1.72
6,264	1.04
6,386	1.08
6,513	1.03
6,765	0.97
7,178	0.78

STATE OF TEXAS

BY: 

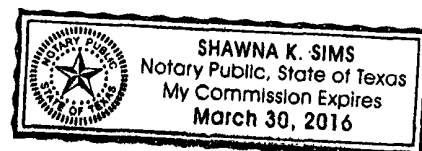
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on 7/17/12, by
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires:

Received

JUL 19 2012



Mewbourne Oil Company
Hobbs

		Do It Once. Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Completion Final	
Prepared for		Company		Date			
Mr. Mickey Young		Mewbourne Oil Company		26-Jun-12			
Well Name		Type of Installation		Location			
Burton 4 Fed Com 4H		19-Stage 4-1/2" StackFRAC® HD		Eddy County, NM			
Depth	Drawing	Description		OD(in)	ID(in)	Length	
12300'						Page 1 of 3	
KOP 7488'							
TOL 7992.68'							
7" Shoe 8243'							
SNU0010391		***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 3' x 4-1/2" 11.60# P-110 BTC x LTC Pup Joint 7" 26# P-110 LT&C Casing		5.875"	4.750"	2 51	
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 7		4 500"	3 92"	300 7	
Stage 19 8300.02'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		5 630"	3.500"	2 65	
SNU0010701 310.40 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 104485-000001 (4 shear pins at 522 psi each: 2,088 psi setting pressure) P-110 Mat'l 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"	128.31	
8437.04'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3 92"	6 09	
SNU0010071 313.86 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	
8628.24'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3 92"	3 11	
SNU0009216 316.71 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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"	87	
8723.55'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		5 630"	3.250"	2 65	
WA1032126 320.21 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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"	130 6	
8628.24'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3 92"	6 09	
SNU0009705 320.21 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	
8958.18'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		4 500"	3 92"	130.41	
EA1029915 320.21 BBL		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	
9097.35'		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) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint		5 750"	3.875"	5 25	
SNU0009767		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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 12	
				4 500"	3 92"	86 91	
Service Center		Telephone		Contact		Telephone	
Midland, TX		432-563-8024		Joey Gonzalez		Chad Williams 405-255-3223	

		Do It Once. Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Completion Final	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 26-Jun-12			
Well Name Burton 4 Fed Com 4H		Type of Installation		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
			Page 2 of 3				
REV_							
Stage 15		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: 2 6' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	3.000	2 65		
9192.63'				3.840			
EA1029465			4 500"	3 92"	86.88		
323.7 BBL			4 500"	3 92"	6 07		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	5.750"	3.875	5 25		
9288.23'			4.500"	3 92"	3.11		
SNU0009332			4.500"	3 92"	87.09		
		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	5.630"	2.875	2 65		
Stage 14			4 500"	3 92"	130.44		
9383.68'			4 500"	3 92"	6.07		
EA1030910			5 750"	3.875	5.25		
326.55 BBL			4 500"	3 92"	3.1		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	4 500"	3.92"	87.06		
9522.84'			5 630"	2.750	2 65		
SNU0009333			4 500"	3 92"	86.93		
		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	4 500"	3 92"	6.08		
Stage 13			5 750"	3.875	5 25		
9618.25'			4 500"	3 92"	3 12		
EA1030115			4 500"	3 92"	43 53		
330.04 BBL			5 630"	2.625	2 65		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	4 500"	3 92"	129 12		
9713.91'			4 500"	3 92"	6.1		
SNU0009706			5 750"	3.875	5.25		
		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	4 500"	3 92"	2 8		
Stage 12			4 500"	3 92"	86 14		
9765.81'			5 630"	2.500	2 65		
EA1028723			4 500"	3 92"	130.1		
332.24 BBL			4 500"	3 92"	6 08		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	5 750"	3.875	5 25		
9903.68'			4 500"	3 92"	3 13		
SNU0009991			4 500"	3 92"	86 96		
		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	5 630"	2.500	2 65		
Stage 11			4 500"	3 92"	130.1		
9997.87'			4 500"	3 92"	6 08		
EA1031232			5 750"	3.875	5 25		
335.70 BBL			4 500"	3 92"	3 13		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	4 500"	3 92"	86 96		
10136.70'			5 630"	2.375	2 65		
SNU0009708			4 500"	3 92"	130 76		
		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	4 500"	3 92"	6 06		
Stage 10			5 750"	3.875	5 25		
10232.04'			4 500"	3 92"	3 11		
EA1030249			4 500"	3 92"	87 28		
339.19 BBL			5 630"	2.250	2 65		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	4 500"	3 92"	174.12		
10371.51'			4 500"	3 92"	6 06		
SNU0010047			5 750"	3.875	5 25		
		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: 4 6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4 500"	3 92"	174.12		
Stage 9			4 500"	3 92"	6 06		
10467.15'			5 750"	3.875	5 25		
EA1030186			4 500"	3 92"	3 11		
342.69 BBL			4 500"	3 92"	87 28		
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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	5 630"	2.125	2 65		
10649.98'			4 500"	3 92"	130.36		
SNU0009200			5 630"	2.125	2 65		
		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: 3	4 500"	3 92"	130 47		
Stage 8							
10788.70'							
EA1031069							
347.48 BBL							
Service Center		Telephone	Contact		Telephone		
Midland, TX		432-563-8024	Joey Gonzalez		Chad Williams 405-255-3223		



Do It Once.
Do It Right.

Confidential Information - not to be disclosed
outside Mewbourne Oil Company

Completion
Final

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 26-Jun-12		
Well Name Burton 4 Fed Com 4H		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					
REV_					
10927.92'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	6 1
SNU0010006		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 11
Stage 7		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 94
11023.22'		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball	5 630"	2.000	2 65
EA1030156		PN: 121332-000011 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
351.28 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4.500"	3 92"	86.89
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	6 07
11118.83'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0009199		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 11
Stage 6		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	87 04
11214.23'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball	5 630"	1.875	2 65
EA1030158		PN: 121332-000010 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
354.12 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	87 05
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4.500"	3 92"	5 8
11309.73'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0010253		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 1
Stage 5		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	87.11
11405.19'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball	5 630"	1.750	2 65
SNU0010175		PN: 121332-000009 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
356.97 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	130.07
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	6 1
11544.01'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0009709		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	2 81
Stage 4		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 85
11638.92'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball	5 630"	1.625	2 65
SNU0010102		PN: 121332-000008 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
360.42 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 95
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	5 71
11734.23'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0009330		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3.11
Stage 3		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 97
11829.56'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball	5 630"	1.500	2 65
SNU0010098		PN: 121332-000007 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
363.29 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3 92"	129.76
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	5.72
11967.69'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0009203		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 12
Stage 2		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 94
12063.00'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball	5 630"	1.375	2 65
SNU0009357		PN: 121332-000006 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
366.76 BBL		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4 500"	3.92"	130 53
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	5 67
12201.85'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K 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
SNU0001028		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 12
Stage 1		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4 500"	3 92"	86 68
		6' x 4-1/2" 11 60# P-110 LTC Pup Joint			
		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)			3 1
TMD					
Service Center Midland, TX			Telephone 432-563-8024		
Contact Joey Gonzalez			Telephone Chad Williams 405-255-3223		