

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
LONG DRAW 10 FED COM 1H
EDDY

101-0107

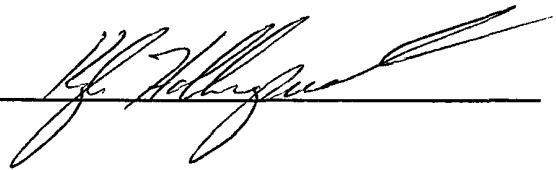
STATE OF NEW MEXICO
DEVIATION REPORT

30-015-37079

220	0.10
630	0.81
1,050	0.25
1,457	0.84

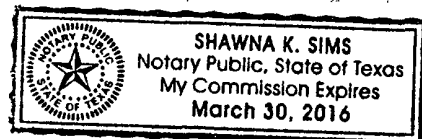
STATE OF TEXAS

COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on 06/28/12, by
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires:





Company: MEWBOURNE OIL COMPANY
Lease/Well: LONG DRAW 10 NC FED COM/NO. 001H

Rig Name: PATTERSON 101
State/County: NEW MEXICO/EDDY

Latitude: 32.58
GRID North is 0.08 Degrees West of True North
VS-Azi: 0.45 Degrees



DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: longdraw 10nc fed com 1h_ed.ut

Minimum Curvature Method

Report Date/Time: 6/14/2012 / 12:47

VAUGHN ENERGY SERVICES

CORPUS CHRISTI, TX

1-800-606-4976

SURVEYOR: ADAM GWYN

LONG DRAW 10 NC FED COM NO. 001 / API 30-015-37079

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	0.39	234.52	100.00	-0.20	-0.28	-0.20	0.34	234.52	0.39
200.00	0.43	254.11	200.00	-0.50	-0.91	-0.50	1.04	241.44	0.14
300.00	0.33	257.52	299.99	-0.66	-1.56	-0.67	1.69	246.96	0.10
400.00	0.36	258.90	399.99	-0.79	-2.15	-0.80	2.29	249.94	0.03
500.00	0.57	264.40	499.99	-0.90	-2.96	-0.92	3.09	253.14	0.21
600.00	0.34	223.28	599.99	-1.16	-3.66	-1.19	3.84	252.35	0.38
700.00	0.72	239.49	699.98	-1.70	-4.41	-1.74	4.72	248.87	0.41
800.00	0.67	248.54	799.97	-2.24	-5.49	-2.28	5.93	247.84	0.12
900.00	0.72	224.62	899.97	-2.90	-6.48	-2.95	7.09	245.90	0.29
1000.00	0.70	231.08	999.96	-3.73	-7.39	-3.79	8.28	243.24	0.08
1100.00	0.71	224.35	1099.95	-4.55	-8.30	-4.62	9.47	241.25	0.08
1200.00	0.38	187.40	1199.95	-5.32	-8.77	-5.39	10.26	238.76	0.47
1300.00	0.82	243.11	1299.94	-5.98	-9.46	-6.05	11.19	237.72	0.69
1400.00	0.78	207.01	1399.93	-6.90	-10.41	-6.99	12.49	236.44	0.50
1500.00	0.79	243.46	1499.92	-7.82	-11.33	-7.90	13.76	235.40	0.49
1600.00	0.59	168.20	1599.92	-8.62	-11.84	-8.72	14.65	233.94	0.85
1618.00	0.62	182.36	1617.92	-8.81	-11.83	-8.90	14.75	233.32	0.85



Stryker Energy Services

SURVEY CALCULATION REPORT

Minimum Curvature Calculations

Operator: Mewbourne Oil
 Lease Name: Long Draw 10 NC Federal Com #1
 Job Number:
 Comments: Tie-In to Stryker Gyro Multi-Shot
 Survey Company: Stryker MWD

Target TVD: 2,551.00 Feet
 Target Angle: 90.25 Degrees
 Section Plane: 0.45 Degrees
 Declination Corrected to Grid: 7.9896 E Degrees
 Bit to Survey Offset: 47 Feet

Survey No.	Measured Depth	Drift (Degrees)	Azimuth (Degrees)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	BUR	DLS	KBTVD	Target
T/I	1,618	0.6	182.4	N/A	1,617.9	-8.9	-8.8	-11.8	N/A	N/A	1617.9	936.7
1	1,720	0.6	1.1	102	1,719.9	-8.9	-8.8	-11.8	0.0	1.2	1719.9	834.7
2	1,752	2.9	7.0	32	1,751.9	-7.9	-7.8	-11.7	7.2	7.2	1751.8	802.7
3	1,783	5.7	4.5	31	1,782.8	-5.6	-5.5	-11.5	9.0	9.1	1782.8	771.8
4	1,815	8.9	359.6	32	1,814.5	-1.5	-1.5	-11.4	10.0	10.2	1814.5	740.0
5	1,847	11.1	357.0	32	1,846.0	4.0	4.1	-11.6	6.9	7.0	1846.1	708.5
6	1,879	13.1	355.3	32	1,877.3	10.7	10.8	-12.1	6.3	6.3	1877.4	677.2
7	1,910	14.3	355.6	31	1,907.4	18.0	18.1	-12.6	3.9	3.9	1907.5	647.0
8	1,942	15.3	359.2	32	1,938.4	26.2	26.3	-13.0	3.1	4.2	1938.5	616.0
9	1,974	17.1	3.2	32	1,969.1	35.1	35.2	-12.8	5.6	6.6	1969.3	585.3
10	2,006	19.2	5.0	32	1,999.5	45.0	45.1	-12.1	6.6	6.8	1999.7	554.8
11	2,037	21.3	5.0	31	2,028.6	55.7	55.8	-11.1	6.8	6.8	2028.8	525.7
12	2,069	23.3	4.2	32	2,058.2	67.8	67.9	-10.2	6.3	6.3	2058.5	496.0
13	2,101	25.8	3.0	32	2,087.3	81.1	81.2	-9.3	7.8	8.0	2087.7	466.9
14	2,133	27.8	2.4	32	2,115.9	95.5	95.6	-8.7	6.3	6.3	2116.3	438.2
15	2,165	30.2	2.0	32	2,143.9	111.0	111.1	-8.1	7.5	7.5	2144.3	410.2
16	2,197	32.6	2.0	32	2,171.2	127.7	127.8	-7.5	7.5	7.5	2171.7	382.8
17	2,229	34.9	1.7	32	2,197.8	145.5	145.5	-6.9	7.2	7.2	2198.4	356.1
18	2,260	37.1	1.5	31	2,222.8	163.7	163.7	-6.4	7.1	7.1	2223.6	331.0
19	2,291	39.4	1.7	31	2,247.2	182.9	182.9	-5.9	7.4	7.4	2248.0	306.5
20	2,323	41.6	1.9	32	2,271.5	203.7	203.7	-5.2	6.9	6.9	2272.4	282.1
21	2,354	44.0	2.0	31	2,294.3	224.7	224.7	-4.5	7.7	7.7	2295.2	259.3
22	2,386	46.1	2.1	32	2,316.9	247.3	247.4	-3.7	6.6	6.6	2318.0	236.6
23	2,417	48.4	1.6	31	2,337.9	270.1	270.1	-3.0	7.4	7.5	2339.1	215.4
24	2,449	50.6	1.2	32	2,358.7	294.4	294.5	-2.4	6.9	6.9	2360.0	194.5
25	2,474	52.3	1.5	25	2,374.3	314.0	314.0	-1.9	6.8	6.9	2375.6	178.9
26	2,506	54.5	1.2	32	2,393.4	339.7	339.7	-1.3	6.9	6.9	2394.8	159.7
27	2,538	57.4	1.0	32	2,411.3	366.2	366.2	-0.8	9.1	9.1	2412.9	141.7
28	2,569	59.7	1.3	31	2,427.4	392.6	392.6	-0.3	7.4	7.5	2429.2	125.4
29	2,600	61.5	1.5	31	2,442.7	419.6	419.6	0.4	5.8	5.8	2444.5	110.0
30	2,632	62.9	1.4	32	2,457.6	447.9	447.9	1.1	4.4	4.4	2459.5	95.0
31	2,663	64.4	1.7	31	2,471.3	475.7	475.7	1.9	4.8	4.9	2473.4	81.1
32	2,694	66.7	1.4	31	2,484.2	503.9	503.9	2.6	7.4	7.5	2486.4	68.2
33	2,726	69.3	1.5	32	2,496.2	533.6	533.6	3.4	8.1	8.1	2498.5	56.0



Stryker Energy Services

SURVEY CALCULATION REPORT

Minimum Curvature Calculations

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 Survey Company: Stryker MWD

Target TVD: 2,551.00 Feet
 Target Angle: 90.25 Degrees
 Section Plane: 0.45 Degrees
 Declination Corrected to Grid: 7.9896 E Degrees
 Bit to Survey Offset: 47 Feet

Survey No.	Measured Depth	Drift (Degrees)	Azimuth (Degrees)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	BUR	DLS	KBTVD	Target
34	2,757	72.0	1.3	31	2,506.4	562.8	562.8	4.1	8.7	8.7	2508.9	45.6
35	2,788	73.9	1.3	31	2,515.5	592.4	592.4	4.8	6.1	6.1	2518.1	36.4
36	2,820	76.4	1.4	32	2,523.7	623.4	623.3	5.5	7.8	7.8	2526.4	28.1
37	2,852	78.9	1.0	32	2,530.6	654.6	654.6	6.2	7.8	7.9	2533.4	21.1
38	2,883	80.8	0.8	31	2,536.0	685.1	685.1	6.6	6.1	6.2	2539.0	15.5
39	2,913	82.3	0.5	30	2,540.4	714.8	714.8	7.0	5.0	5.1	2543.6	11.0
40	2,944	83.7	1.0	31	2,544.2	745.6	745.5	7.4	4.5	4.8	2547.5	7.1
41	2,973	85.4	1.0	29	2,547.0	774.4	774.4	7.9	5.9	5.9	2550.3	4.2
42	3,001	87.2	0.9	28	2,548.8	802.4	802.3	8.3	6.4	6.4	2552.3	2.3
43	3,033	88.4	0.3	32	2,550.0	834.4	834.3	8.7	3.8	4.2	2553.6	0.9
44	3,065	90.2	0.1	32	2,550.4	866.3	866.3	8.8	5.6	5.7	2554.2	0.4
45	3,096	90.0	359.7	31	2,550.3	897.3	897.3	8.7	-0.6	1.4	2554.3	0.3
46	3,160	89.6	359.6	64	2,550.6	961.3	961.3	8.3	-0.6	0.6	2554.8	-0.2
47	3,222	90.5	0.4	62	2,550.5	1023.3	1,023.3	8.3	1.5	1.9	2555.0	-0.4
48	3,285	90.3	1.0	63	2,550.1	1086.3	1,086.3	9.1	-0.3	1.0	2554.8	-0.3
49	3,348	89.8	0.7	63	2,550.0	1149.3	1,149.3	10.0	-0.8	0.9	2555.0	-0.5
50	3,412	89.5	0.8	64	2,550.4	1213.3	1,213.3	10.9	-0.5	0.5	2555.7	-1.2
51	3,475	90.1	0.8	63	2,550.6	1276.3	1,276.3	11.8	1.0	1.0	2556.2	-1.7
52	3,539	89.8	0.5	64	2,550.7	1340.3	1,340.3	12.5	-0.5	0.7	2556.5	-2.0
53	3,602	90.9	0.3	63	2,550.3	1403.3	1,403.3	12.9	1.7	1.8	2556.4	-1.9
54	3,665	90.5	0.3	63	2,549.5	1466.3	1,466.3	13.3	-0.6	0.6	2555.9	-1.4
55	3,729	90.1	0.4	64	2,549.2	1530.3	1,530.3	13.6	-0.6	0.6	2555.9	-1.3
56	3,792	89.6	0.0	63	2,549.4	1593.3	1,593.3	13.9	-0.8	1.0	2556.3	-1.8
57	3,856	92.5	0.2	64	2,548.2	1657.3	1,657.2	14.0	4.5	4.5	2555.4	-0.9
58	3,919	91.2	0.1	63	2,546.1	1720.3	1,720.2	14.1	-2.1	2.1	2553.7	0.9
59	3,983	90.7	359.7	64	2,545.1	1784.2	1,784.2	14.0	-0.8	1.0	2552.9	1.7
60	4,046	90.4	359.6	63	2,544.5	1847.2	1,847.2	13.6	-0.5	0.5	2552.5	2.0
61	4,109	89.9	359.6	63	2,544.3	1910.2	1,910.2	13.2	-0.8	0.8	2552.7	1.9
62	4,172	89.8	359.3	63	2,544.5	1973.2	1,973.2	12.6	-0.2	0.5	2553.1	1.4
63	4,236	89.8	359.1	64	2,544.7	2037.2	2,037.2	11.7	0.0	0.3	2553.6	0.9
64	4,300	89.7	358.8	64	2,545.0	2101.2	2,101.2	10.5	-0.2	0.5	2554.2	0.4
65	4,363	89.9	0.2	63	2,545.2	2164.2	2,164.2	10.0	0.3	2.2	2554.6	-0.1
66	4,426	89.6	359.9	63	2,545.5	2227.2	2,227.2	10.0	-0.5	0.7	2555.2	-0.7
67	4,490	90.1	1.6	64	2,545.6	2291.2	2,291.1	10.9	0.8	2.8	2555.6	-1.1



Stryker Energy Services

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil
Lease Name: Long Draw 10 NC Federal Com #1
Job Number:
Comments: Tie-In to Stryker Gyro Multi-Shot
Survey Company: Stryker MWD

Target TVD: 2,551.00 Feet
Target Angle: 90.25 Degrees
Section Plane: 0.45 Degrees
Declination Corrected to Grid: 7.9896 E Degrees
Bit to Survey Offset: 47 Feet

Survey No.	Measured Depth	Drift (Degrees)	Azimuth (Degrees)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	BUR	DLS	KBTVD	+Above -Below Target
68	4,553	89.7	1.6	63	2,545.8	2354.2	2,354.1	12.6	-0.6	0.6	2556.0	-1.5
69	4,617	90.5	2.1	64	2,545.6	2418.1	2,418.1	14.7	1.3	1.5	2556.2	-1.7
70	4,680	90.3	1.6	63	2,545.2	2481.1	2,481.1	16.7	-0.3	0.9	2556.0	-1.5
71	4,743	89.8	1.5	63	2,545.2	2544.1	2,544.0	18.4	-0.8	0.8	2556.3	-1.7
72	4,807	90.8	1.0	64	2,544.8	2608.1	2,608.0	19.8	1.6	1.7	2556.2	-1.7
73	4,870	90.6	1.1	63	2,544.0	2671.1	2,671.0	21.0	-0.3	0.4	2555.7	-1.2
74	4,934	90.4	0.7	64	2,543.5	2735.1	2,735.0	22.0	-0.3	0.7	2555.4	-0.9
75	4,997	90.1	0.4	63	2,543.2	2798.1	2,798.0	22.6	-0.5	0.7	2555.4	-0.9
76	5,060	89.5	0.2	63	2,543.4	2861.1	2,861.0	22.9	-1.0	1.0	2555.9	-1.4
77	5,124	90.5	1.2	64	2,543.4	2925.1	2,925.0	23.7	1.6	2.2	2556.2	-1.7
78	5,187	90.1	1.0	63	2,543.1	2988.1	2,988.0	24.9	-0.6	0.7	2556.1	-1.6
79	5,250	91.1	1.3	63	2,542.4	3051.1	3,050.9	26.2	1.6	1.7	2555.8	-1.2
80	5,314	90.7	0.8	64	2,541.4	3115.0	3,114.9	27.4	-0.6	1.0	2555.0	-0.5
81	5,377	90.3	0.7	63	2,540.9	3178.0	3,177.9	28.2	-0.6	0.7	2554.8	-0.2
82	5,441	90.2	0.4	64	2,540.6	3242.0	3,241.9	28.8	-0.2	0.5	2554.8	-0.2
83	5,505	89.9	0.4	64	2,540.6	3306.0	3,305.9	29.2	-0.5	0.5	2555.0	-0.4
84	5,568	91.1	0.5	63	2,540.0	3369.0	3,368.9	29.7	1.9	1.9	2554.7	-0.2
85	5,631	90.7	0.6	63	2,539.0	3432.0	3,431.9	30.3	-0.6	0.7	2554.0	0.5
86	5,694	90.2	0.4	63	2,538.5	3495.0	3,494.9	30.9	-0.8	0.9	2553.8	0.8
87	5,758	89.7	0.6	64	2,538.6	3559.0	3,558.9	31.5	-0.8	0.8	2554.1	0.4
88	5,821	89.4	0.5	63	2,539.1	3622.0	3,621.9	32.1	-0.5	0.5	2554.9	-0.3
89	5,885	90.6	1.2	64	2,539.1	3686.0	3,685.9	33.0	1.9	2.2	2555.2	-0.6
90	5,948	90.5	0.8	63	2,538.5	3749.0	3,748.9	34.1	-0.2	0.7	2554.8	-0.3
91	6,010	90.3	0.9	62	2,538.0	3811.0	3,810.9	35.0	-0.3	0.4	2554.7	-0.1
92	6,071	90.0	0.3	61	2,537.9	3872.0	3,871.8	35.7	-0.5	1.1	2554.8	-0.2
93	6,131	89.9	0.1	60	2,537.9	3932.0	3,931.8	35.9	-0.2	0.4	2555.1	-0.6
94	6,193	90.8	1.0	62	2,537.5	3994.0	3,993.8	36.5	1.5	2.1	2555.0	-0.4
95	6,254	90.7	0.7	61	2,536.7	4055.0	4,054.8	37.4	-0.2	0.5	2554.4	0.1
96	6,316	90.3	0.8	62	2,536.2	4117.0	4,116.8	38.2	-0.6	0.7	2554.2	0.4
97	6,378	89.9	1.0	62	2,536.1	4179.0	4,178.8	39.2	-0.6	0.7	2554.3	0.2
98	6,441	90.5	0.4	63	2,535.9	4242.0	4,241.8	39.9	1.0	1.3	2554.4	0.1
99	6,502	90.5	0.1	61	2,535.3	4303.0	4,302.8	40.2	0.0	0.5	2554.1	0.4
100	6,563	90.3	359.8	61	2,534.9	4364.0	4,363.8	40.1	-0.3	0.6	2554.0	0.6
101	6,625	89.8	359.9	62	2,534.9	4426.0	4,425.8	40.0	-0.8	0.8	2554.2	0.4



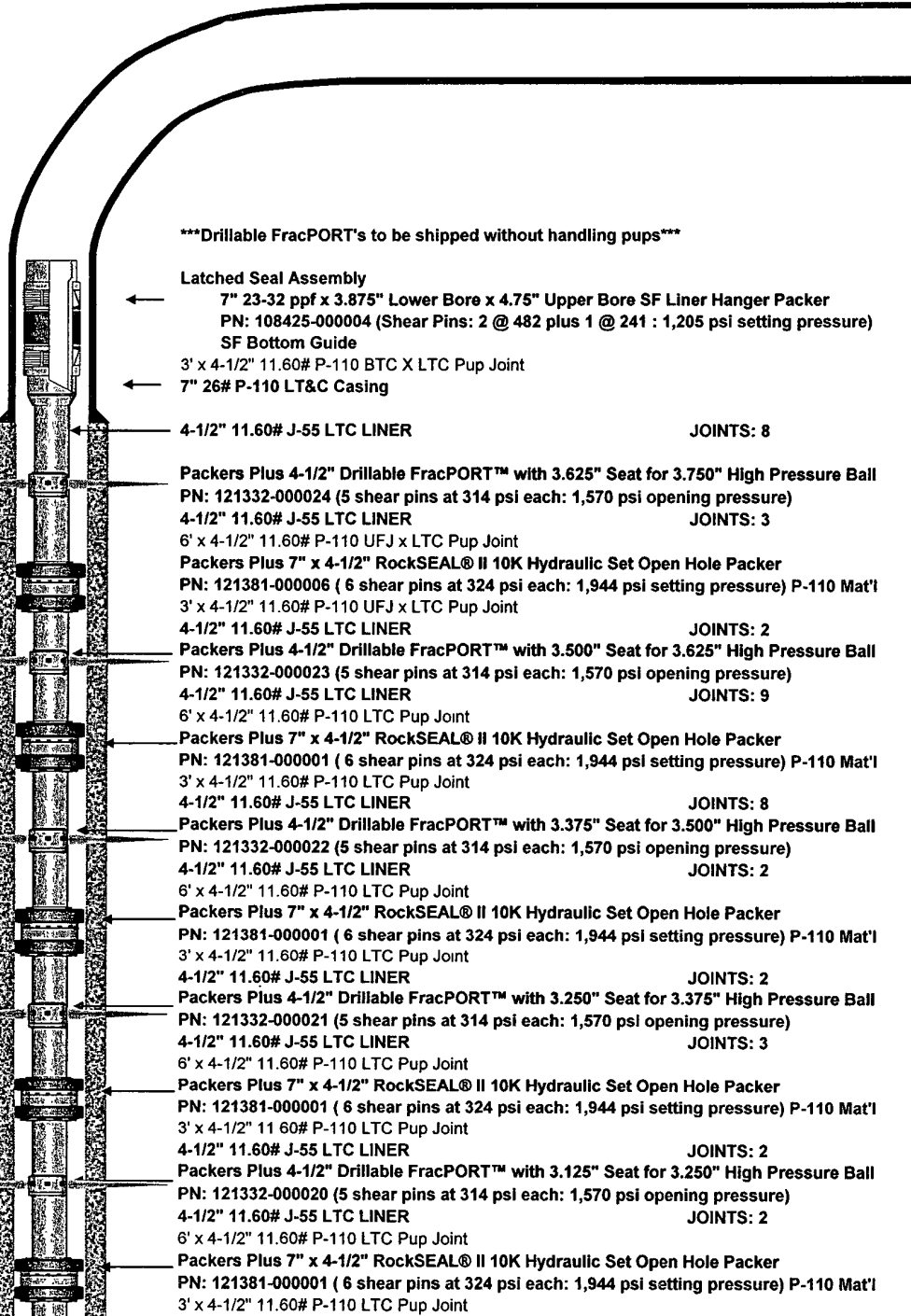
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Target TVD: 2,551.00 Feet
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Section Plane: 0.45 Degrees
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Bit to Survey Offset: 47 Feet

Survey No.	Measured Depth	Drift (Degrees)	Azimuth (Degrees)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	BUR	DLS	KBTVD	+Above -Below Target
102	6,688	91.0	359.4	63	2,534.4	4489.0	4,488.8	39.6	1.9	2.1	2554.0	0.5
103	6,752	90.7	358.9	64	2,533.5	4552.9	4,552.8	38.6	-0.5	0.9	2553.3	1.2
104	6,815	90.6	358.1	63	2,532.8	4615.9	4,615.8	37.0	-0.2	1.3	2552.9	1.6
105	6,879	91.2	0.3	64	2,531.8	4679.9	4,679.7	36.1	0.9	3.6	2552.2	2.4
106	6,942	91.2	0.3	63	2,530.4	4742.9	4,742.7	36.4	0.0	0.0	2551.1	3.4
107	7,006	90.3	0.3	64	2,529.6	4806.9	4,806.7	36.8	-1.4	1.4	2550.6	4.0
108	7,069	89.9	0.0	63	2,529.5	4869.9	4,869.7	36.9	-0.6	0.8	2550.7	3.8
109	7,132	89.7	359.4	63	2,529.7	4932.8	4,932.7	36.6	-0.3	1.0	2551.2	3.3
110	7,195	89.6	359.5	63	2,530.1	4995.8	4,995.7	36.0	-0.2	0.2	2551.9	2.6
111	7,258	90.0	0.7	63	2,530.3	5058.8	5,058.7	36.1	0.6	2.0	2552.4	2.1
112	7,321	89.7	0.7	63	2,530.5	5121.8	5,121.7	36.9	-0.5	0.5	2552.8	1.7
113	7,385	89.6	0.4	64	2,530.9	5185.8	5,185.7	37.5	-0.2	0.5	2553.5	1.0
114	7,448	89.4	0.7	63	2,531.4	5248.8	5,248.7	38.1	-0.3	0.6	2554.3	0.2
115	7,511	89.5	0.5	63	2,532.0	5311.8	5,311.7	38.8	0.2	0.4	2555.2	-0.7
116	7,575	89.3	0.5	64	2,532.7	5375.8	5,375.7	39.3	-0.3	0.3	2556.2	-1.6
Bit/Td	7,622	89.3	0.1	47	2,533.3	5422.8	5,422.7	39.6	0.0	0.9	2556.9	-2.4

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 20-Jun-12		
Well Name Long Draw 10 NC Fed Com 1H		Type of Installation 17-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_			Page 1 of 3		
KOP 1734'					
TOL 2725.88' 69°	***Drillable FracPORT's to be shipped without handling pups***				
7" Shoe 3020'	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	9.21
Stage 17 EA3017298 3072.14' 109.76BBLS	4-1/2" 11.60# J-55 LTC LINER JOINTS: 8 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) 4-1/2" 11.60# J-55 LTC LINER JOINTS: 3 6' x 4-1/2" 11.60# P-110 UFJ x LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000006 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 UFJ x LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	337.05
EA3003511 3208.13'	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" 11.60# J-55 LTC LINER JOINTS: 9 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 8		5.630"	3.625	2.65
Stage 16 SNU00011210 3300.60' 113.31BBLS	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 3		4.500"	4.000	127.74
EA3003530 3690.41'	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" 11.60# J-55 LTC LINER JOINTS: 3 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	5.60
Stage 15 SNU0010587 4040.09' 124.77BBLS	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		5.750"	3.875	5.25
EA30003572 4134.23'	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	2.23
Stage 14 SNU0010816 4227.38' 127.67BBLS	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	84.99
EA4001779 4362.24'	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		5.630"	3.500	2.65
Stage 13 SNU0010813 4455.28' 131.21BBLS	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	381.83
EA4001320 4549.30'	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" 11.60# J-55 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l 3' x 4-1/2" 11.60# P-110 LTC Pup Joint 4-1/2" 11.60# J-55 LTC LINER JOINTS: 2		4.500"	4.000	5.33
			5.750"	3.875	5.25
			4.500"	4.000	3.06
			4.500"	4.000	341.37
			5.630"	3.375	2.65
			4.500"	4.000	85.41
			4.500"	4.000	6.08
			5.750"	3.875	5.25
			4.500"	4.000	3.10
			4.500"	4.000	84.80
			5.630"	3.250	2.65
			4.500"	4.000	126.11
			4.500"	4.000	6.10
			5.750"	3.875	5.25
			4.500"	4.000	3.07
			4.500"	4.000	84.72
			5.630"	3.125	2.65
			4.500"	4.000	85.31
			4.500"	4.000	6.06
			5.750"	3.875	5.25
			4.500"	4.000	3.02
			4.500"	4.000	85.34
Service Center			Telephone		
Midland, TX			Chad Williams 405-255-3223		
Telephone			Contact		
432-563-8024			Scott Mabry		



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Final
Completion

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 20-Jun-12		
Well Name Long Draw 10 NC Fed Com 1H		Type of Installation 17-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_			Page 2 of 3		
Stage 12			5 630"	3.000	2.65
SNU0011327		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball		3.840	
4642.91'		PN: 121332-000019 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
134.11BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 5	4.500"	4 000	213.45
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4 000	6.08
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5.750"	3.875	5.25
EA4001325		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
4865.09'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.04
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 4	4.500"	4.000	170.73
Stage 11			5.630"	2.875	2.65
EM0041645		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball		3.840	
5044.11'		PN: 121332-000018 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
140.33BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 3	4 500"	4 000	128.02
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4 500"	4 000	6.06
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5 750"	3.875	5.25
EA4001317		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
5180.84'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4 000	3.01
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4.500"	4 000	84.66
Stage 10			5.630"	2.750	2.65
SNU0011317		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball		3.840	
5273.76'		PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
143.89BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4.500"	4.000	85.38
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	6.07
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5.750"	3.875	5.25
EA4001319		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
5367.86'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.01
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4 500"	4 000	85.40
Stage 9			5.630"	2.625	2.65
SNU0011186		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball		3.840	
5461.52'		PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
146.80BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4.500"	4.000	85.42
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	6.11
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5.750"	3.875	5.25
EA4001318		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
5555.70'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.05
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4 500"	4 000	85.10
Stage 8			5.630"	2.500	2.65
EA1024803		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball		3.840	
5649.10'		PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
149.71BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 4	4 500"	4.000	169.69
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4 500"	4.000	6.09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5 750"	3.875	5.25
EA4001324		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
5827.53'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.01
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 5	4.500"	4.000	213.38
Stage 7			5 630"	2.375	2.65
EA1030255		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball		3.840	
6049.17'		PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
155.91BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4.500"	4 000	85.32
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	6.10
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5 750"	3.875	5.25
EA4001330		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
6143.24'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3 05
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 2	4 500"	4.000	85.35
Stage 6			5.630"	2.250	2.65
SNU0010591		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball		3.840	
6236.89'		PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
158.82BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 4	4 500"	4.000	170.43
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4 500"	4 000	6.09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5.750"	3.875	5.25
EA4001326		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure) P-110 Mat'l			
6416.06'		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.01
		4-1/2" 11.60# J-55 LTC LINER JOINTS: 4	4 500"	4.000	170.73
Stage 5			5.630"	2.125	2.65
SNU0010768		Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball		3.840	
6595.05'		PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure)			
164.37BBLs		4-1/2" 11.60# J-55 LTC LINER JOINTS: 5	4.500"	4 000	212.62
Service Center Telephone Contact			Telephone		
Midland, TX 432-563-8024 Scott Mabry			Chad Williams 405-255-3223		



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Final
Completion

Prepared for Mr. Mickey Young	Company Mewbourne Oil Company	Date 20-Jun-12
Well Name Long Draw 10 NC Fed Com 1H	Type of Installation 17-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM

Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 3 of 3					
REV_		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	6.08
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer	5.750"	3.875	5.25
EA2000066 6816.40'		PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l			
		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	3.02
		4-1/2" 11.60# J-55 LTC LINER	4.500"	4.000	213.08
Stage 4		JOINTS: 5	5.630"	2.000	2.65
EA1028476 7037.75'		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball		3.840	
		PN: 121332-000011 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			
		4-1/2" 11.60# J-55 LTC LINER	4.500"	4.000	83.37
171.23BBLs		JOINTS: 2	4.500"	4.000	6.09
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	5.750"	3.875	5.25
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer			
EA4001323 7129.86'		PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l	4.500"	4.000	3.02
		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	85.35
		4-1/2" 11.60# J-55 LTC LINER	5.630"	1.875	2.65
Stage 3		JOINTS: 2			
EA10301057 7223.48'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball		3.840	
		PN: 121332-000010 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			
		4-1/2" 11.60# J-55 LTC LINER	4.500"	4.000	128.08
174.11BBLs		JOINTS: 3	4.500"	4.000	6.07
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	5.750"	3.875	5.25
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer			
EA4001322 7360.28'		PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l	4.500"	4.000	3.02
		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	84.62
		4-1/2" 11.60# J-55 LTC LINER	5.630"	1.750	2.65
Stage 2		JOINTS: 2			
EA1028688 7453.17'		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball		3.840	
		PN: 121332-000009 (5 shear pins at 314 psi each: 1,570 psi opening pressure)			
		4-1/2" 11.60# J-55 LTC LINER	4.500"	4.000	41.80
177.67BBLs		JOINTS: 1	4.500"	4.000	6.07
		6' x 4-1/2" 11.60# P-110 LTC Pup Joint	5.750"	3.875	5.25
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer			
EA4001331 7503.69'		PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure) P-110 Mat'l	4.500"	4.000	3.04
		3' x 4-1/2" 11.60# P-110 LTC Pup Joint	4.500"	4.000	85.27
		4-1/2" 11.60# J-55 LTC LINER			
Stage 1		JOINTS: 2			
7600.00'					
179.91BBLs					
TMD 7622'		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)			2.75

Service Center Midland, TX	Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223
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