



Company: Mewbourne
Lease/Well: Delaware Ranch 11 Fed Com/#2H

Rig Name: Patterson 75
State/County: New Mexico/Eddy
Latitude: 32.06, Longitude: -104.05
GRID North is 0.15 Degrees East of True North
VS-Azi: 0.00 Degrees



30-015-39546

FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : RKB=23 Feet Elevation=2968 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...are ranch 11 fed com 2h_ed.ut

Minimum Curvature Method

Report Date/Time: 12/5/2011 / 21:08

Vaughn Energy Services

Midland, TX

432-563-5444

Zach Garcia

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	0.34	194.39	100.00	-0.29	-0.07	-0.29	0.30	194.39	0.34
200.00	0.31	236.84	200.00	-0.73	-0.37	-0.73	0.82	207.16	0.24
300.00	0.49	148.89	300.00	-1.24	-0.38	-1.24	1.30	196.95	0.57
400.00	0.45	70.63	399.99	-1.48	0.22	-1.48	1.49	171.71	0.60
500.00	0.69	82.59	499.99	-1.27	1.19	-1.27	1.74	136.87	0.27
600.00	0.86	94.26	599.98	-1.24	2.53	-1.24	2.82	116.18	0.23
700.00	0.74	125.23	699.97	-1.67	3.80	-1.67	4.16	113.73	0.44
800.00	0.44	140.34	799.96	-2.34	4.58	-2.34	5.14	117.08	0.33
900.00	0.14	137.19	899.96	-2.73	4.91	-2.73	5.62	119.07	0.30
1000.00	0.34	135.95	999.96	-3.03	5.20	-3.03	6.02	120.26	0.19
1100.00	0.31	168.16	1099.96	-3.51	5.46	-3.51	6.49	122.75	0.18
1200.00	0.24	157.69	1199.96	-3.97	5.60	-3.97	6.86	125.37	0.09
1300.00	0.55	151.57	1299.96	-4.59	5.90	-4.59	7.48	127.85	0.31
1400.00	0.98	183.65	1399.95	-5.86	6.08	-5.86	8.44	133.96	0.59
1500.00	1.10	183.64	1499.93	-7.67	5.96	-7.67	9.71	142.16	0.13
1600.00	1.02	197.11	1599.92	-9.48	5.64	-9.48	11.03	149.28	0.26
1700.00	0.88	198.94	1699.90	-11.06	5.12	-11.06	12.19	155.15	0.14
1800.00	0.78	197.08	1799.89	-12.44	4.67	-12.44	13.29	159.41	0.10
1900.00	0.80	175.42	1899.88	-13.79	4.53	-13.79	14.52	161.82	0.30
2000.00	1.37	175.06	1999.86	-15.69	4.69	-15.69	16.37	163.36	0.57
2100.00	1.45	165.14	2099.83	-18.10	5.12	-18.10	18.81	164.22	0.25
2200.00	1.59	170.99	2199.80	-20.69	5.66	-20.69	21.45	164.71	0.21
2300.00	1.89	142.12	2299.75	-23.36	6.89	-23.36	24.36	163.57	0.92
2400.00	2.65	127.52	2399.67	-26.08	9.74	-26.08	27.84	159.52	0.95
2500.00	1.81	140.48	2499.60	-28.71	12.58	-28.71	31.34	156.33	0.98
2600.00	1.65	158.61	2599.55	-31.27	14.12	-31.27	34.31	155.71	0.57
2700.00	1.42	170.10	2699.52	-33.84	14.86	-33.84	36.95	156.30	0.39
2800.00	1.36	161.93	2799.49	-36.18	15.44	-36.18	39.34	156.90	0.21
2900.00	1.24	148.69	2899.46	-38.23	16.36	-38.23	41.59	156.83	0.32
3000.00	0.93	154.85	2999.45	-39.89	17.27	-39.89	43.47	156.59	0.33
3100.00	0.99	165.79	3099.43	-41.46	17.83	-41.46	45.13	156.73	0.19
3200.00	0.91	183.35	3199.42	-43.08	17.99	-43.08	46.69	157.33	0.30
3300.00	1.23	185.77	3299.40	-44.94	17.84	-44.94	48.35	158.35	0.33
3400.00	1.08	179.65	3399.38	-46.96	17.73	-46.96	50.20	159.31	0.19

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
3500.00	0.69	198.03	3499.37	-48.48	17.55	-48.48	51.56	160.10	0.48
3600.00	0.39	240.77	3599.36	-49.23	17.07	-49.23	52.10	160.88	0.49
3700.00	0.64	264.65	3699.36	-49.44	16.21	-49.44	52.03	161.85	0.33
3800.00	0.77	259.19	3799.35	-49.62	14.99	-49.62	51.84	163.19	0.14
3900.00	0.78	266.92	3899.34	-49.78	13.65	-49.78	51.62	164.66	0.11
4000.00	0.58	229.51	3999.34	-50.15	12.58	-50.15	51.71	165.92	0.48
4100.00	0.63	254.02	4099.33	-50.63	11.67	-50.63	51.96	167.02	0.26
4200.00	0.69	230.81	4199.32	-51.16	10.68	-51.16	52.27	168.21	0.27
4300.00	1.03	222.09	4299.31	-52.21	9.61	-52.21	53.09	169.57	0.36
4400.00	0.85	243.08	4399.30	-53.22	8.34	-53.22	53.87	171.09	0.38
4500.00	1.01	248.06	4499.29	-53.88	6.86	-53.88	54.32	172.74	0.17
4600.00	0.96	221.23	4599.27	-54.84	5.49	-54.84	55.11	174.28	0.46
4700.00	0.80	221.58	4699.26	-55.98	4.48	-55.98	56.16	175.42	0.16
4800.00	1.23	226.52	4799.24	-57.24	3.25	-57.24	57.33	176.75	0.44
4900.00	0.73	240.01	4899.23	-58.29	1.92	-58.29	58.33	178.11	0.54
5000.00	1.12	201.81	4999.22	-59.52	1.00	-59.52	59.53	179.03	0.71
5100.00	0.90	202.41	5099.20	-61.16	0.34	-61.16	61.16	179.68	0.22
5200.00	1.02	207.46	5199.19	-62.67	-0.37	-62.67	62.67	180.34	0.14
5300.00	1.12	220.05	5299.17	-64.20	-1.40	-64.20	64.22	181.25	0.25
5400.00	1.27	190.01	5399.15	-66.04	-2.22	-66.04	66.07	181.93	0.63
5500.00	1.79	189.66	5499.11	-68.67	-2.68	-68.67	68.72	182.23	0.53
5600.00	1.20	182.73	5599.08	-71.25	-2.99	-71.25	71.32	182.40	0.62
5700.00	1.72	184.89	5699.05	-73.79	-3.17	-73.79	73.86	182.46	0.53
5800.00	1.39	174.54	5799.01	-76.49	-3.18	-76.49	76.56	182.38	0.43
5900.00	1.51	179.93	5898.98	-79.01	-3.06	-79.01	79.07	182.22	0.18
6000.00	1.82	212.12	5998.94	-81.67	-3.90	-81.67	81.76	182.74	0.97
6100.00	1.88	199.18	6098.89	-84.56	-5.29	-84.56	84.72	183.58	0.42
6200.00	1.55	224.08	6198.84	-87.07	-6.76	-87.07	87.34	184.44	0.81
6250.00	1.71	226.10	6248.82	-88.07	-7.77	-88.07	88.42	185.04	0.34

HORIZONTAL DISPLACEMENT IS
88.42 FEET AT 185.04 DEGREES

Mewbourne

Eddy County

Deleware Ranch "11" Fed Com

#2H

OH

Design: OH

Pathfinder X & Y Report

20 December, 2011

PATHFINDER®
A Schlumberger Company

Pathfinder Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project: Eddy County			
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	Deleware Ranch "11" Fed Com.				
Site Position:		Northing:	386,801 950 usft	Latitude:	32° 3' 47.256 N
From:	Map	Easting:	586,448 340 usft	Longitude:	104° 3' 15.379 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0 15 °

Well:	#2H					
Well Position	+N/-S	0 0 usft	Northing:	386,801 950 usft	Latitude:	32° 3' 47 256 N
	+E/-W	0 0 usft	Easting:	586,448.340 usft	Longitude:	104° 3' 15.379 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	2,968.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	11/21/2011	7 74	59 94	48,425

Design:	OH			
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	180.07

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date 12/20/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	6,250.0	Gyro #1 (OH)	CB-GYRO-MS	Camera based gyro multishot
6,342.0	11,114 0	MWD #2 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0 0	0 00	0 00	0.0	-2,991 0	0.0	0 0	0 0	0 00	386,801 95	586,448 34
100 0	0.34	194 39	100 0	-2,891 0	-0 3	-0.1	0 3	0.34	386,801.66	586,448.27
200 0	0.31	236 84	200.0	-2,791 0	-0 7	-0.4	0 7	0.24	386,801.23	586,447 97
300 0	0.49	148 89	300 0	-2,691 0	-1 2	-0.4	1 2	0.57	386,800.71	586,447.96
400 0	0.45	70 63	400.0	-2,591 0	-1 5	0 2	1 5	0 59	386,800.48	586,448 55
500 0	0.69	82 59	500 0	-2,491 0	-1 3	1 2	1 3	0.27	386,800 69	586,449 52
600 0	0.86	94.26	600 0	-2,391 0	-1 2	2 5	1 2	0.23	386,800 71	586,450 86
700 0	0.74	125 23	700 0	-2,291 0	-1.7	3 8	1.7	0.44	386,800.28	586,452 14
800 0	0.44	140 34	800 0	-2,191.0	-2 3	4 6	2 3	0 34	386,799.61	586,452.91
900 0	0 14	137 19	900 0	-2,091 0	-2 7	4 9	2.7	0 30	386,799 23	586,453.24
1,000 0	0 34	135.95	1,000 0	-1,991.0	-3 0	5 2	3.0	0 20	386,798 92	586,453 53
1,100 0	0.51	168 16	1,100 0	-1,891.0	-3 5	5 5	3.5	0.18	386,798.44	586,453 79
1,200 0	0.24	157.69	1,200 0	-1,791 0	-4 0	5 6	4 0	0.09	386,797 99	586,453 93
1,300 0	0.55	151 57	1,300 0	-1,691 0	-4 6	5 9	4.6	0 31	386,797.37	586,454.24
1,400 0	0.98	183 65	1,399 9	-1,591.1	-5.9	6 1	5.8	0.59	386,796 09	586,454.41
1,500 0	1 10	183 64	1,499 9	-1,491 1	-7.7	6 0	7 7	0 12	386,794 28	586,454 29
1,600 0	1 C2	197 11	1,599 9	-1,391 1	-9 5	5 6	9 5	0 26	386,792 47	586,453 97
1,700 0	C 88	198 94	1,699.9	-1,291 1	-11.1	5 1	11.0	0 14	386,790 90	586,453 46
1,800.0	C.78	197.08	1,799 9	-1,191 1	-12.4	4 7	12 4	0.10	386,789 52	586,453 01
1,900 0	C 80	175 42	1,899 9	-1,091 1	-13.8	4 5	13 8	0.30	386,788.17	586,452 87
2,000 0	1 37	175 06	1,999.9	-991 1	-15.7	4 7	15.7	0.57	386,786 29	586,453 03

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,100.0	1.45	165.14	2,099.8	-891.2	-18.1	5.1	18.1	0.26	386,783.87	586,453.45	
2,200.0	1.59	170.99	2,199.8	-791.2	-20.7	5.7	20.7	0.21	386,781.28	586,453.99	
2,300.0	1.89	142.12	2,299.8	-691.2	-23.3	6.9	23.3	0.91	386,778.61	586,455.22	
2,400.0	2.65	127.52	2,399.7	-591.3	-26.1	9.7	26.0	0.95	386,775.90	586,458.07	
2,500.0	1.81	140.48	2,499.6	-491.4	-28.7	12.6	28.7	0.97	386,773.27	586,460.91	
2,600.0	1.65	158.61	2,599.6	-391.4	-31.2	14.1	31.2	0.57	386,770.71	586,462.44	
2,700.0	1.42	170.10	2,699.5	-291.5	-33.8	14.8	33.8	0.38	386,768.15	586,463.18	
2,800.0	1.36	161.93	2,799.5	-191.5	-36.1	15.4	36.1	0.21	386,765.80	586,463.76	
2,900.0	1.24	148.69	2,899.5	-91.5	-38.2	16.3	38.2	0.32	386,763.75	586,464.69	
3,000.0	0.93	154.85	2,999.4	8.4	-39.9	17.3	39.8	0.33	386,762.09	586,465.60	
3,100.0	0.99	165.79	3,099.4	108.4	-41.4	17.8	41.4	0.19	386,760.52	586,466.15	
3,200.0	0.91	183.35	3,199.4	208.4	-43.1	18.0	43.0	0.30	386,758.89	586,466.32	
3,300.0	1.23	185.77	3,299.4	308.4	-44.9	17.8	44.9	0.32	386,757.03	586,466.16	
3,400.0	1.08	179.65	3,399.4	408.4	-46.9	17.7	46.9	0.19	386,755.02	586,466.06	
3,500.0	0.69	198.03	3,499.4	508.4	-48.4	17.5	48.4	0.48	386,753.50	586,465.88	
3,600.0	0.39	240.77	3,599.4	608.4	-49.2	17.1	49.2	0.48	386,752.77	586,465.40	
3,700.0	0.64	264.65	3,699.4	708.4	-49.4	16.2	49.4	0.32	386,752.55	586,464.55	
3,800.0	0.77	259.19	3,799.4	808.4	-49.6	15.0	49.6	0.15	386,752.37	586,463.33	
3,900.0	0.78	266.92	3,899.3	908.3	-49.7	13.6	49.7	0.10	386,752.21	586,461.99	
4,000.0	0.58	229.51	3,999.3	1,008.3	-50.1	12.6	50.1	0.48	386,751.84	586,460.93	
4,100.0	0.63	254.02	4,099.3	1,108.3	-50.6	11.7	50.6	0.26	386,751.36	586,460.01	
4,200.0	0.69	230.81	4,199.3	1,208.3	-51.1	10.7	51.1	0.27	386,750.83	586,459.02	
4,300.0	1.03	222.09	4,299.3	1,308.3	-52.2	9.6	52.2	0.36	386,749.78	586,457.95	
4,400.0	0.85	243.08	4,399.3	1,408.3	-53.2	8.3	53.2	0.39	386,748.78	586,456.68	
4,500.0	1.01	248.06	4,499.3	1,508.3	-53.8	6.9	53.8	0.18	386,748.11	586,455.20	
4,600.0	0.96	221.23	4,599.3	1,608.3	-54.8	5.5	54.8	0.46	386,747.15	586,453.83	
4,700.0	0.80	221.58	4,699.3	1,708.3	-55.9	4.5	55.9	0.16	386,746.00	586,452.82	

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company: Mewbourne
Project: Eddy County
Site: Deleware Ranch "11" Fed Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #2H
KB = 23' @ 2991 0usft (Original Well Elev)
KB = 23' @ 2991 0usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
4,800 0	1 23	226 52	4,799 2	1,808 2	-57 2	3 2	57 2	0 44	386,744.74	586,451.58
4,900 0	0 73	240 01	4,899 2	1,908 2	-58 3	1 9	58 3	0 55	386,743 68	586,450.25
5,000.0	1 12	201 81	4,999 2	2,008 2	-59.5	1 0	59.5	0.71	386,742.46	586,449.33
5,100 0	0 90	202 41	5,099 2	2,108 2	-61 1	0 3	61.1	0.22	386,740 83	586,448 67
5,200 0	1 02	207 46	5,199 2	2,208 2	-62 6	-0 4	62 6	0 15	386,739.31	586,447.96
5,300 0	1.12	220 05	5,299.2	2,308 2	-64.2	-1.4	64.2	0.25	386,737.77	586,446.92
5,400.0	1.27	190 01	5,399 2	2,408 2	-66 0	-2.2	66.0	0 64	386,735 93	586,446.10
5,500 0	1.79	189 66	5,499 1	2,508 1	-68 6	-2.7	68.7	0 52	386,733.30	586,445.64
5,600 0	1 20	182.73	5,599.1	2,608 1	-71.2	-3 0	71.2	0.62	386,730.72	586,445.33
5,700.0	1.72	184 89	5,699 0	2,708 0	-73 8	-3.2	73.8	0.52	386,728.17	586,445 15
5,800 0	1.39	174.54	5,799 0	2,808 0	-76.5	-3.2	76 5	0 43	386,725 47	586,445.14
5,900 0	1 51	179 93	5,899 0	2,908.0	-79.0	-3 1	79.0	0 18	386,722.95	586,445.26
6,000 0	1 82	212 12	5,998 9	3,007.9	-81.7	-3 9	81.7	0.97	386,720.28	586,444 42
6,100 0	1 88	199.18	6,098 9	3,107 9	-84 6	-5.3	84.6	0 42	386,717.39	586,443.03
6,200.0	1.55	224 08	6,198.8	3,207 8	-87.1	-6 8	87.1	0.81	386,714.87	586,441 55
6,250 0	1 71	226 10	6,248 8	3,257 8	-88 1	-7.8	88 1	0 34	386,713 87	586,440.55
6,342 0	2 64	250 34	6,340.8	3,349.8	-89 7	-10 8	89.8	1.40	386,712.20	586,437 56
6,374 0	3.87	236 46	6,372 7	3,381 7	-90 6	-12.4	90.6	4 54	386,711.36	586,435.97
6,406 0	8 62	210.18	6,404 5	3,413 5	-93 3	-14.5	93.3	16.95	386,708.68	586,433 86
6,438.0	13 19	205.34	6,435 9	3,444.9	-98 6	-17.3	98.7	14 55	386,703.31	586,431.09
6,470 0	17 50	207 45	6,466.8	3,475 8	-106.2	-21.0	106.2	13.58	386,695.74	586,427.31
6,502 0	19.79	208 51	6,497 1	3,506 1	-115 2	-25 8	115.3	7.23	386,686 71	586,422 50
6,534 0	21 81	207 98	6,527.0	3,536 0	-125 3	-31.2	125.3	6.34	386,676.69	586,417.13
6,565 0	23 74	206 49	6,555 6	3,564 6	-135.9	-36 7	136.0	6 50	386,666 02	586,411 64
6,597 0	26 29	203.67	6,584 6	3,593 6	-148 2	-42.4	148.2	8.79	386,653.76	586,405.92
6,629 0	28 31	201 39	6,613 0	3,622 0	-161 7	-48 0	161.8	7 11	386,640.21	586,400.31
6,661 0	30 16	197 17	6,641 0	3,650 0	-176 5	-53 2	176 6	8 65	386,625 46	586,395 17

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,693.0	32.18	192.95	6,668.3	3,677.3	-192.5	-57.5	192.5	9.29	386,609.47	586,390.88	
6,725.0	34.38	189.52	6,695.1	3,704.1	-209.7	-60.9	209.8	9.05	386,592.25	586,387.48	
6,756.0	36.67	186.53	6,720.3	3,729.3	-227.5	-63.4	227.6	9.27	386,574.42	586,384.98	
6,788.0	38.87	184.51	6,745.6	3,754.6	-247.0	-65.2	247.1	7.89	386,554.91	586,383.10	
6,822.0	40.54	183.37	6,771.8	3,780.8	-268.7	-66.7	268.8	5.36	386,533.25	586,381.61	
6,853.0	42.74	182.32	6,794.9	3,803.9	-289.3	-67.7	289.4	7.44	386,512.67	586,380.60	
6,885.0	44.85	181.00	6,818.0	3,827.0	-311.4	-68.4	311.5	7.18	386,490.54	586,379.96	
6,917.0	47.92	179.15	6,840.1	3,849.1	-334.6	-68.4	334.7	10.47	386,467.38	586,379.94	
6,949.0	52.06	177.92	6,860.7	3,869.7	-359.1	-67.8	359.1	13.27	386,442.88	586,380.57	
6,981.0	57.33	177.92	6,879.2	3,888.2	-385.2	-66.8	385.2	16.47	386,416.79	586,381.52	
7,012.0	61.47	178.71	6,894.9	3,903.9	-411.8	-66.0	411.9	13.53	386,390.13	586,382.30	
7,044.0	64.72	179.25	6,909.4	3,918.4	-440.4	-65.5	440.4	10.27	386,361.60	586,382.81	
7,076.0	67.97	179.74	6,922.3	3,931.3	-469.7	-65.3	469.7	10.25	386,332.29	586,383.06	
7,108.0	70.43	179.90	6,933.6	3,942.6	-499.6	-65.2	499.6	7.70	386,302.38	586,383.16	
7,140.0	72.37	180.02	6,943.8	3,952.8	-529.9	-65.2	530.0	6.07	386,272.05	586,383.18	
7,172.0	74.13	179.43	6,953.0	3,962.0	-560.5	-65.0	560.6	5.78	386,241.41	586,383.33	
7,204.0	76.24	179.28	6,961.2	3,970.2	-591.5	-64.7	591.5	6.61	386,210.48	586,383.67	
7,236.0	77.91	178.74	6,968.4	3,977.4	-622.7	-64.1	622.7	5.47	386,179.30	586,384.21	
7,267.0	80.72	178.80	6,974.1	3,983.1	-653.1	-63.5	653.2	9.07	386,148.85	586,384.87	
7,361.0	91.28	181.13	6,980.7	3,989.7	-746.7	-63.4	746.8	11.50	386,055.21	586,384.91	
7,393.0	92.15	181.47	6,979.7	3,988.7	-778.7	-64.2	778.8	2.92	386,023.24	586,384.19	
7,456.0	90.66	181.07	6,978.2	3,987.2	-841.7	-65.5	841.8	2.45	385,960.27	586,382.79	
7,520.0	89.52	181.02	6,978.1	3,987.1	-905.7	-66.7	905.7	1.78	385,896.28	586,381.62	
7,583.0	90.31	181.66	6,978.2	3,987.2	-968.6	-68.2	968.7	1.61	385,833.30	586,380.15	
7,647.0	89.67	180.78	6,978.1	3,987.1	-1,032.6	-69.6	1,032.7	1.54	385,769.32	586,378.79	
7,709.0	88.99	180.11	6,978.7	3,987.7	-1,094.6	-70.0	1,094.7	1.78	385,707.32	586,378.31	
7,773.0	87.85	178.89	6,980.5	3,989.5	-1,158.6	-69.5	1,158.7	2.61	385,643.35	586,378.86	

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%100usft)	Northing (usft)	Easting (usft)
7,837.0	89.43	180.63	6,982.0	3,991.0	-1,222.6	-69.2	1,222.7	3.67	385,579.38	586,379.13
7,868.0	89.52	180.96	6,982.3	3,991.3	-1,253.6	-69.6	1,253.6	1.10	385,548.38	586,378.70
7,900.0	89.43	181.17	6,982.5	3,991.5	-1,285.6	-70.2	1,285.6	0.71	385,516.39	586,378.11
7,964.0	91.89	181.75	6,981.8	3,990.8	-1,349.5	-71.9	1,349.6	3.95	385,452.42	586,376.48
8,027.0	92.86	181.86	6,979.2	3,988.2	-1,412.4	-73.8	1,412.5	1.55	385,389.50	586,374.49
8,090.0	93.30	178.87	6,975.8	3,984.8	-1,475.3	-74.2	1,475.4	4.79	385,326.60	586,374.09
8,154.0	91.36	177.02	6,973.2	3,982.2	-1,539.2	-72.0	1,539.3	4.19	385,262.70	586,376.39
8,217.0	89.34	177.21	6,972.8	3,981.8	-1,602.2	-68.8	1,602.2	3.22	385,199.79	586,379.56
8,281.0	88.64	176.37	6,974.0	3,983.0	-1,666.1	-65.2	1,666.1	1.71	385,135.90	586,383.14
8,344.0	88.29	176.67	6,975.6	3,984.6	-1,728.9	-61.4	1,729.0	0.73	385,073.04	586,386.96
8,408.0	87.85	176.92	6,977.8	3,986.8	-1,792.8	-57.8	1,792.8	0.79	385,009.17	586,390.54
8,471.0	87.58	176.68	6,980.3	3,989.3	-1,855.6	-54.3	1,855.7	0.57	384,946.32	586,394.05
8,534.0	87.85	176.03	6,982.8	3,991.8	-1,918.4	-50.3	1,918.5	1.12	384,883.50	586,398.06
8,597.0	88.46	176.75	6,984.8	3,993.8	-1,981.3	-46.3	1,981.3	1.50	384,820.66	586,402.02
8,661.0	88.02	176.92	6,986.8	3,995.8	-2,045.2	-42.8	2,045.2	0.74	384,756.79	586,405.55
8,725.0	89.43	177.98	6,988.2	3,997.2	-2,109.1	-39.9	2,109.1	2.76	384,692.87	586,408.40
8,789.0	90.66	178.85	6,988.2	3,997.2	-2,173.1	-38.2	2,173.1	2.35	384,628.89	586,410.17
8,852.0	91.10	178.25	6,987.2	3,996.2	-2,236.0	-36.6	2,236.1	1.18	384,565.92	586,411.76
8,915.0	91.71	177.72	6,985.7	3,994.7	-2,299.0	-34.4	2,299.0	1.28	384,502.98	586,413.98
8,979.0	91.98	177.73	6,983.6	3,992.6	-2,362.9	-31.8	2,362.9	0.42	384,439.06	586,416.52
9,043.0	91.71	177.99	6,981.6	3,990.6	-2,426.8	-29.4	2,426.8	0.59	384,375.14	586,418.90
9,107.0	89.16	180.37	6,981.1	3,990.1	-2,490.8	-28.5	2,490.8	5.45	384,311.16	586,419.82
9,170.0	87.93	182.34	6,982.7	3,991.7	-2,553.7	-30.0	2,553.8	3.69	384,248.20	586,418.33
9,234.0	87.85	182.85	6,985.0	3,994.0	-2,617.6	-32.9	2,617.7	0.81	384,184.31	586,415.44
9,297.0	89.08	183.53	6,986.7	3,995.7	-2,680.5	-36.4	2,680.6	2.23	384,121.43	586,411.93
9,361.0	90.66	184.51	6,986.9	3,995.9	-2,744.4	-40.9	2,744.4	2.91	384,057.59	586,407.44
9,424.0	90.31	183.67	6,986.3	3,995.3	-2,807.2	-45.4	2,807.2	1.44	383,994.76	586,402.95

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company: Mewbourne
Project: Eddy County
Site: Delaware Ranch "11" Fed Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #2H
KB = 23' @ 2991.0usft (Original Well Elev)
KB = 23' @ 2991.0usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,488.0	90.04	183.95	6,986.1	3,995.1	-2,871.1	-49.6	2,871.1	0.61	383,930.90	586,398.70
9,552.0	90.31	183.68	6,985.9	3,994.9	-2,934.9	-53.9	2,935.0	0.60	383,867.04	586,394.44
9,615.0	90.84	183.91	6,985.3	3,994.3	-2,997.8	-58.1	2,997.8	0.92	383,804.18	586,390.27
9,679.0	90.92	183.61	6,984.3	3,993.3	-3,061.6	-62.3	3,061.7	0.49	383,740.33	586,386.07
9,743.0	90.84	183.44	6,983.3	3,992.3	-3,125.5	-66.2	3,125.6	0.29	383,676.46	586,382.14
9,806.0	91.80	183.30	6,981.9	3,990.9	-3,188.4	-69.9	3,188.4	1.54	383,613.58	586,378.44
9,869.0	92.95	180.58	6,979.3	3,988.3	-3,251.3	-72.0	3,251.3	4.68	383,550.68	586,376.31
9,933.0	91.98	179.17	6,976.5	3,985.5	-3,315.2	-71.9	3,315.3	2.67	383,486.74	586,376.45
9,997.0	91.10	176.78	6,974.8	3,983.8	-3,379.1	-69.6	3,379.2	3.98	383,422.81	586,378.71
10,061.0	89.78	177.41	6,974.3	3,983.3	-3,443.1	-66.4	3,443.1	2.29	383,358.90	586,381.95
10,124.0	89.96	177.63	6,974.5	3,983.5	-3,506.0	-63.7	3,506.1	0.45	383,295.96	586,384.68
10,188.0	89.34	177.88	6,974.8	3,983.8	-3,569.9	-61.2	3,570.0	1.04	383,232.01	586,387.18
10,252.0	88.37	178.82	6,976.1	3,985.1	-3,633.9	-59.3	3,634.0	2.11	383,168.05	586,389.03
10,379.0	88.64	180.58	6,979.4	3,988.4	-3,760.9	-58.6	3,760.9	1.40	383,041.10	586,389.69
10,443.0	88.99	180.05	6,980.8	3,989.8	-3,824.8	-59.0	3,824.9	0.99	382,977.11	586,389.34
10,506.0	90.22	179.42	6,981.2	3,990.2	-3,887.8	-58.7	3,887.9	2.19	382,914.12	586,389.63
10,570.0	90.57	179.02	6,980.8	3,989.8	-3,951.8	-57.8	3,951.9	0.83	382,850.12	586,390.50
10,633.0	90.75	179.05	6,980.0	3,989.0	-4,014.8	-56.8	4,014.9	0.29	382,787.14	586,391.56
10,697.0	91.63	177.76	6,978.7	3,987.7	-4,078.8	-55.0	4,078.8	2.44	382,723.18	586,393.34
10,760.0	91.71	178.21	6,976.9	3,985.9	-4,141.7	-52.8	4,141.8	0.73	382,660.24	586,395.56
10,824.0	90.75	176.17	6,975.5	3,984.5	-4,205.6	-49.6	4,205.7	3.52	382,596.34	586,398.69
10,888.0	90.92	175.58	6,974.6	3,983.6	-4,269.4	-45.0	4,269.5	0.96	382,532.51	586,403.30
10,951.0	89.25	174.94	6,974.5	3,983.5	-4,332.2	-39.8	4,332.3	2.84	382,469.73	586,408.50
11,014.0	88.90	176.13	6,975.5	3,984.5	-4,395.0	-34.9	4,395.1	1.97	382,406.93	586,413.41
11,078.0	89.16	175.94	6,976.6	3,985.6	-4,458.9	-30.5	4,458.9	0.50	382,343.09	586,417.83
11,114.0	89.16	176.30	6,977.1	3,986.1	-4,494.8	-28.1	4,494.8	1.00	382,307.18	586,420.27

Pathfinder
Pathfinder X & Y Report

PATHFINDER
A Schlumberger Company

Company:	Mewbourne	Local/Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Site:	Deleware Ranch "11" Fed Com	MD Reference:	KB = 23' @ 2991.0usft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,374.0	6,372.7	-90.6	-12.4	KOP - 6374.0 'MD, 6372.7 'TVD, -90.6 'N, -12.4 'E
7,361.0	6,980.7	-746.7	-63.4	LP - 7361.0 'MD, 6980.7 'TVD, -746.7 'N, -63.4 'E
11,114.0	6,977.1	-4,494.8	-28.1	BHL - 11114.0 'MD, 6977.1 'TVD, -4494.8 'N, -28.1 'E

Checked By: _____	Approved By: _____	Date: _____
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Mewbourne

Project: Eddy County
Site: Delaware Ranch "11" Fed
Well: #2H
Wellbore: OH
Plan: Post Gyro Plan #4 (#2H/OH)



Azimuths to Grid Nor
True North: -0.1
Magnetic North: 7.5

Magnetic Field
Strength: 48424.8sr
Dip Angle: 59.9
Date: 11/21/20
Model: IGRF20

PATHFINDER

A Schlumberger Company

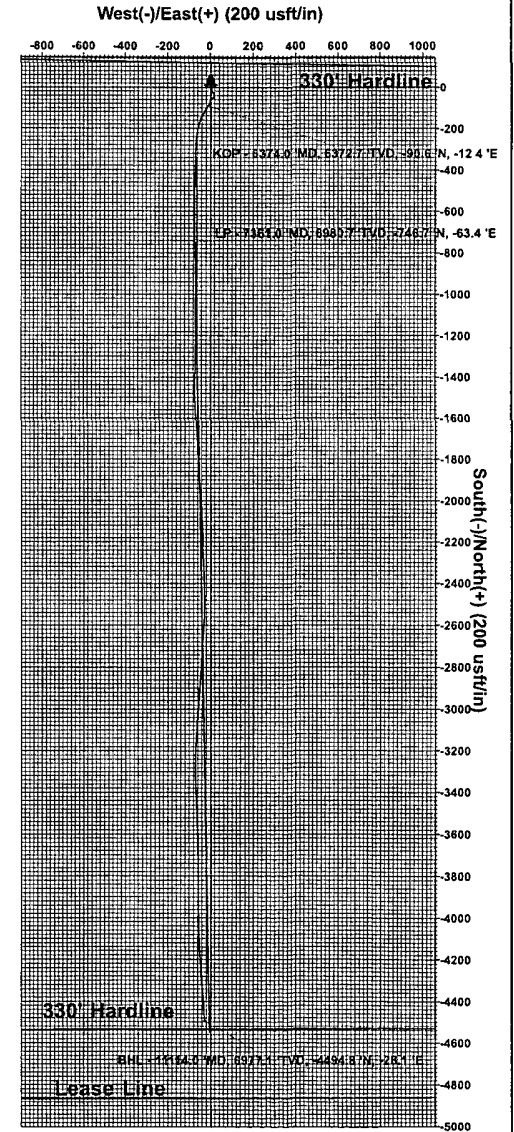
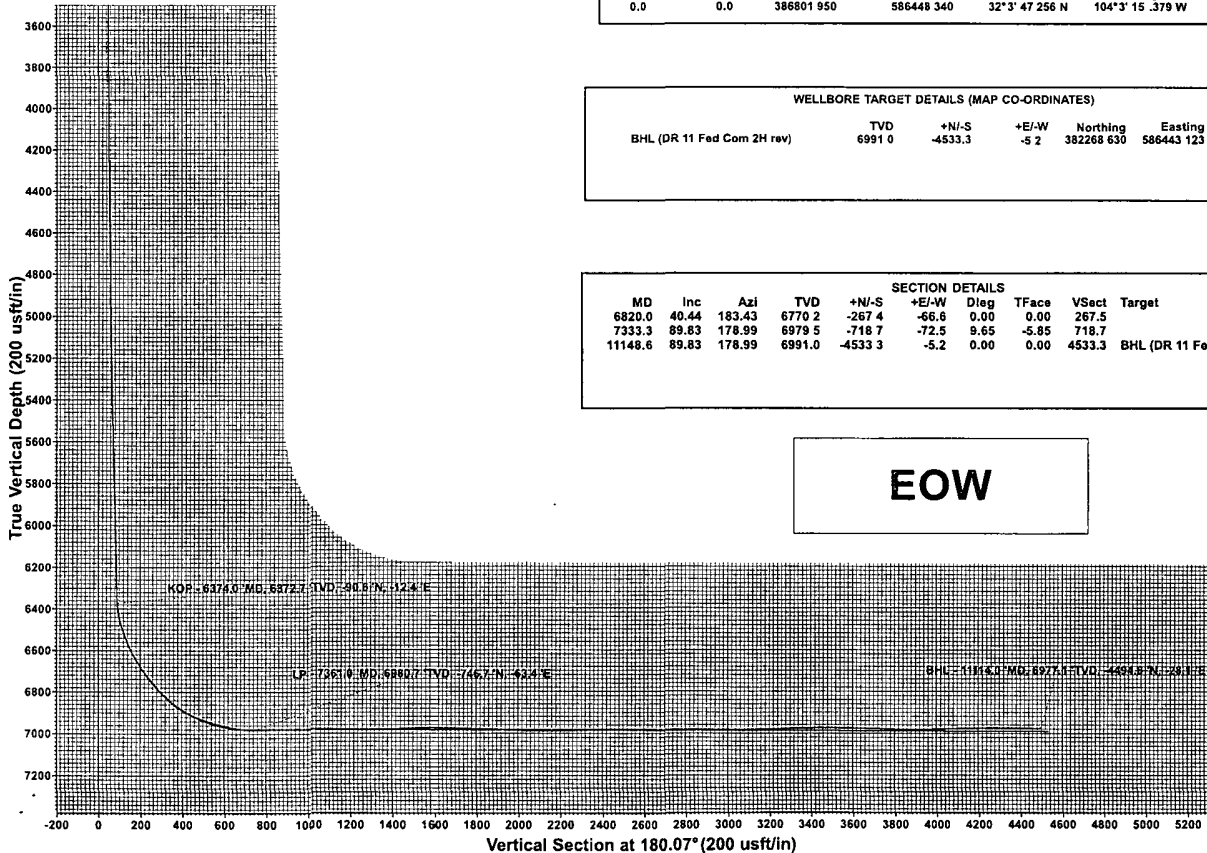
PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

WELL DETAILS #2H						
Ground Elevation 2968.0						
RKB Elevation KB = 23' @ 2991.0usft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	386801.950	586448.340	32° 3' 47.256 N	104° 3' 15.379 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (DR 11 Fed Com 2H rev)	6991.0	-4533.3	-5.2	382268.630	586443.123	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dip	TFace	VSect	Target
6820.0	40.44	183.43	6770.2	-267.4	-66.6	0.00	0.00	267.5	
7333.3	89.83	178.99	6979.5	-718.7	-72.5	9.65	-5.85	718.7	
11148.6	89.83	178.99	6991.0	-4533.3	-5.2	0.00	0.00	4533.3	BHL (DR 11 Fed Com 2H rev)

EOW



Plan: Post Gyro Plan #4 (#2H/OH)	
Created By: Michael Trout	Date: 9:05, December 28 2011
Checked: _____	Date: _____

Mewbourne
Eddy County
Delaware Ranch "11" Fed Com
#2H
Original Well Elev
OH
Post Gyro Plan #4

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 22-Dec-11		
Well Name Delaware Ranch -11- Fed Com #2H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 1 of 3					
REV_					
TOL 7,068 270bbbls					
TD 11,114					
KOP 8,365					
TVD 6,975					
SHOE 7,331					
RSII 7,354					
Stage 20 7,440 276bbbls					
RSII 7,525					
Stage 19 7,610 278bbbls					
RSII 7,697					
Stage 18 7,784 281bbbls					
RSII 7,909					
Stage 17 7,995 284bbbls					
RSII 8,081					
Stage 16 8,167 287bbbls					
RSII 8,253					
Stage 15 8,339 289bbbls					
RSII 8,425					
Stage 14 8,511 292bbbls					
RSII 8,597					
Service Center Midland, TX		Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223	

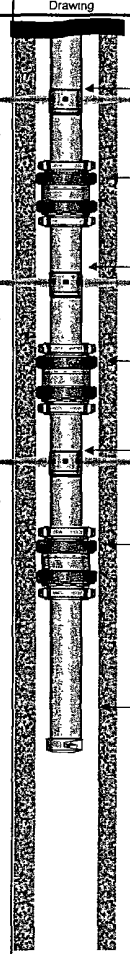


Do It Once
Do It Right

Confidential Information - not to be disclosed
outside Mewbourne Oil Company

Final
Completion

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 22-Dec-11		
Well Name Delaware Ranch -11- Fed Com #2H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(m)	ID(m)	Length
Page 2 of 3					
REV_					
Stage 13		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)S# EA1019990	5 630"	2.750	2 65
8,683		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	3.840	
295bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	76 01
RSII		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)S# EA2010270	4 500"	4 000	6 07
8,768		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 11
			4 500"	4 000	78 01
Stage 12		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)S# EA1019270	5 630"	2.625	2 65
8,854		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	3.840	
297bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	79 11
RSII		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)S# EA2010268	4 500"	4 000	6 07
8,942		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	3 12
			4 500"	4 000	116 67
Stage 11		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)S# EA1019868	5 630"	2.500	2 65
9,067		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	3.840	
300bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	79 17
RSII		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)S# EA2010267	4 500"	4 000	6 07
9,155		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	3 09
			4 500"	4 000	116 31
Stage 10		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)S# EA1019124	5 630"	2.375	2 65
9,280		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	3.840	
304bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	78 81
RSII		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)S# EA2010276	4 500"	4 000	6 07
9,367		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 10
			4 500"	4 000	78 13
Stage 9		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)S# EA1019097	5 630"	2.250	2 65
9,454		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	3.840	
307bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	114 19
RSII		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)S# EA2010275	4 500"	4 000	6 08
9,577		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 09
			4 500"	4 000	77 67
Stage 8		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)S# EA1019034	5 630"	2.125	2 65
9,663		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	3.840	
310bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	115 86
RSII		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)S# EA2010246	4 500"	4 000	6 08
9,787		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 12
			4 500"	4 000	76 39
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)S# EA1018994	5 630"	2.000	2 65
9,872		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	3.840	
313bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	115.90
RSII		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)S# EA3012534	4 500"	4 000	6 10
9,997		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 12
			4 500"	4 000	78 92
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)S# EA1017831	5 630"	1.875	2 65
10,084		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	3.840	
317bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	75 61
RSII		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)S# EA2010279	4 500"	4 000	6 08
10,168		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 12
			4 500"	4 000	77 58
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)S# EA1018957	5 630"	1.750	2 65
10,254		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	3.840	
319bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	114 53
RSII		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)S# EA2010278	4 500"	4 000	6 07
10,377		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	5 750"	3.875	5 25
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 12
			4 500"	4 000	78 06
Service Center Midland, TX			Telephone Chad Williams 405-255-3223		
Telephone 432-563-8024			Contact Scott Mabry		

		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 22-Dec-11			
Well Name Delaware Ranch -11- Fed Com #2H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description		OD(in)	ID(in)	Length	
Page 3 of 3							
REV_							
Stage 4 10,464 322bbls		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)S# EA1018893 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint		5 630"	1.625	2 65	
RSII 10,550		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)S# EA2010272 3' x 4-1/2" 11 6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4 500"	4 000	77 01	
Stage 3 10,635 325bbls		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)S# EA1007682 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint		4 500"	4 000	77 56	
RSII 10,722		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)S# EA2010271 3' x 4-1/2" 11 6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3		5 630"	1.500	2 65	
Stage 2 10,848 328bbls		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)S# EA1009715 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint		4 500"	4 000	77 31	
RSII 10,934		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)S# EA2010229 3' x 4-1/2" 11 6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3		4 500"	4 000	6 07	
Stage 1 11,064 332bbls		6' x 4-1/2" 11 6# P-110 LTC Pup Joint Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)		5 750"	3.875	5 25	
				4 500"	4 000	3 10	
				4 500"	4 000	117 56	
						3 50	
Service Center Midland, TX		Telephone 432-563-8024		Contact Scott Mabry		Telephone Chad Williams 405-255-3223	