OPERATOR MEWBOURNE OIL COMPANY 046-0087
WELL/LEASE VOYAGER 11 EH FED COM 1H
COUNTY EDDY

STATE OF NEW MEXICO
DEVIATION REPORT 30-015-41258

207	1.16	6,924	4.20
536	0.96	7,080	4.10
934	2.27	7,238	2.10
1,186	2.62	7,394	3.10
1,345	3.43	7,551	3.10
1,698	3.66	7,708	2.90
1,920	0.86	7,865	2.60
2,229	1.00	8,025	3.00
2,577	0.69	8,184	2.60
2,735	1.10		
2,893	0.80		
3,052	0.70		
3,212	0.90		
3,370	1.21		
3,593	1.80		
3,688	1.80		
3,784	2.10		
3,974	1.70		
4,069	1.70		
4,169	2.20		
4,386	2.70		
4,481	2.70		
4,577	3.20		
4,673	3.10		
4,763	3.00		
4,862	3.10		
4,957	3.50		
5,051	4.20		
5,337	4.90		
5,432	4.70		
5,527	4.20		
5,812	3.20		
5,971	3.20		
6,162	2.90		
6,289	2.70		
6,447	2.30		
6,641	4.40		
6,765	4.20		

BY: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on 5/9/13, by Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Amber Elizabeth Carr
Notary Public for Midland County, Texas

AMBER ELIZABETH CARR
Notary Public, State of Texas
My Commission Expires
September 28, 2016

Company: Mewbourne Oil Company
Lease/Well: Voyager "11" EH Federal Com/ No. 001H
Location: S11 T28s R27e
Rig Name: Patterson 46
State/County: New Mexico/ Eddy
Latitude: 32.59, Longitude: -104.26
GRID North is 0.04 Degrees East of True North
VS-Azi: 0.00 Degrees

RKB : 20.5'

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: ...eh fed com #1h gyro survey.ut
Minimum Curvature Method
Report Date/Time: 4/26/2013 / 08:15

Vaughn Energy Services
Gardendale, Texas 79758
432-563-5444
Survey Engineer: Dustin Wedel
Voyager "11" EH Federal Com No. 001H / API 30-015-41258

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	0.99	280.00	100.00	0.15	-0.85	0.15	0.86	280.00	0.99
200.00	1.07	305.90	199.98	0.85	-2.46	0.85	2.60	289.03	0.47
300.00	1.11	307.93	299.96	1.99	-3.98	1.99	4.45	296.59	0.06
400.00	1.06	310.91	399.94	3.19	-5.44	3.19	6.31	300.40	0.08
500.00	1.29	316.69	499.92	4.62	-6.91	4.62	8.31	303.75	0.26
600.00	1.62	322.32	599.89	6.56	-8.55	6.56	10.78	307.49	0.35
700.00	1.63	311.71	699.85	8.62	-10.47	8.62	13.57	309.46	0.30
800.00	2.11	321.29	799.80	11.00	-12.68	11.00	16.79	310.94	0.57
900.00	1.81	311.26	899.74	13.48	-15.03	13.48	20.19	311.90	0.45
1000.00	2.08	316.59	999.68	15.84	-17.46	15.84	23.57	312.22	0.32
1100.00	2.09	312.28	1099.61	18.38	-20.05	18.38	27.20	312.51	0.16
1200.00	2.07	310.44	1199.55	20.77	-22.77	20.77	30.82	312.38	0.07
1300.00	2.25	308.52	1299.48	23.17	-25.68	23.17	34.58	312.06	0.20
1400.00	2.17	306.50	1399.40	25.52	-28.74	25.52	38.43	311.60	0.11
1500.00	1.95	309.65	1499.34	27.73	-31.57	27.73	42.02	311.29	0.25
1600.00	1.66	298.90	1599.29	29.52	-34.15	29.52	45.14	310.84	0.45
1700.00	1.40	292.03	1699.25	30.67	-36.55	30.67	47.71	310.01	0.32
1800.00	1.28	285.89	1799.23	31.44	-38.75	31.44	49.90	309.05	0.19

Survey Date: 04/19/2013

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
1900.00	1.17	279.42	1899.20	31.91	-40.83	31.91	51.82	308.01	0.18
2000.00	1.05	279.54	1999.19	32.23	-42.74	32.23	53.53	307.02	0.12
2100.00	0.80	285.81	2099.17	32.57	-44.32	32.57	55.00	306.31	0.27
2200.00	1.00	287.19	2199.16	33.02	-45.83	33.02	56.48	305.77	0.20
2300.00	0.73	284.10	2299.15	33.43	-47.28	33.43	57.90	305.26	0.28
2400.00	1.04	282.97	2399.14	33.79	-48.78	33.79	59.34	304.71	0.32
2500.00	0.87	290.20	2499.12	34.26	-50.38	34.26	60.92	304.22	0.21
2600.00	0.84	294.18	2599.11	34.82	-51.75	34.82	62.38	303.93	0.07
2700.00	0.76	313.63	2699.10	35.57	-52.90	35.57	63.75	303.92	0.28
2800.00	0.90	295.08	2799.09	36.36	-54.09	36.36	65.17	303.91	0.30
2900.00	0.46	308.95	2899.08	36.94	-55.11	36.94	66.35	303.84	0.47
3000.00	0.56	319.17	2999.08	37.56	-55.74	37.56	67.22	303.98	0.14
3100.00	0.68	314.59	3099.07	38.35	-56.48	38.35	68.27	304.18	0.12
3200.00	0.78	331.59	3199.07	39.36	-57.23	39.36	69.46	304.52	0.24
3300.00	0.87	357.20	3299.06	40.72	-57.59	40.72	70.53	305.27	0.38
3400.00	1.51	13.52	3399.03	42.76	-57.32	42.76	71.51	306.73	0.72
3500.00	1.45	9.43	3499.00	45.29	-56.80	45.29	72.65	308.57	0.12
3600.00	1.78	0.14	3598.96	48.08	-56.59	48.08	74.26	310.35	0.42
3700.00	1.96	359.91	3698.91	51.34	-56.59	51.34	76.41	312.22	0.18
3800.00	1.91	359.88	3798.85	54.71	-56.60	54.71	78.72	314.03	0.05
3900.00	1.64	349.01	3898.80	57.78	-56.87	57.78	81.08	315.46	0.43
4000.00	1.68	347.70	3998.76	60.62	-57.46	60.62	83.53	316.54	0.05
4100.00	1.88	333.18	4098.71	63.52	-58.51	63.52	86.36	317.35	0.49
4200.00	2.24	315.84	4198.65	66.39	-60.62	66.39	89.90	317.60	0.72
4300.00	2.53	313.02	4298.56	69.30	-63.59	69.30	94.06	317.46	0.31
4400.00	2.65	309.59	4398.46	72.28	-66.99	72.28	98.55	317.18	0.20
4500.00	2.63	313.10	4498.35	75.32	-70.45	75.32	103.13	316.92	0.16
4600.00	2.79	311.80	4598.24	78.51	-73.93	78.51	107.84	316.72	0.17
4700.00	2.67	311.35	4698.13	81.67	-77.49	81.67	112.59	316.50	0.12
4800.00	2.70	311.29	4798.02	84.76	-81.01	84.76	117.25	316.30	0.03
4900.00	3.23	319.20	4897.89	88.45	-84.62	88.45	122.41	316.27	0.67
5000.00	3.83	326.77	4997.70	93.38	-88.30	93.38	128.51	316.60	0.76
5100.00	4.50	333.28	5097.43	99.68	-91.89	99.68	135.58	317.33	0.82
5200.00	4.78	329.51	5197.10	106.78	-95.77	106.78	143.44	318.11	0.41
5300.00	4.66	323.55	5296.77	113.64	-100.30	113.64	151.58	318.57	0.50
5400.00	4.73	315.30	5396.43	119.84	-105.62	119.84	159.74	318.61	0.68
5500.00	4.20	311.32	5496.13	125.19	-111.26	125.19	167.49	318.37	0.61
5600.00	3.90	303.21	5595.88	129.47	-116.86	129.47	174.41	317.93	0.64
5700.00	3.97	297.42	5695.64	132.92	-122.78	132.92	180.95	317.27	0.40

Survey Date: 04/19/2013

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
5800.00	3.15	291.61	5795.45	135.53	-128.41	135.53	186.70	316.55	0.90
5900.00	3.13	284.81	5895.30	137.24	-133.61	137.24	191.53	315.77	0.37
6000.00	2.85	288.25	5995.16	138.72	-138.61	138.72	196.10	315.02	0.34
6016.00	2.74	290.90	6011.14	138.98	-139.34	138.98	196.80	314.93	1.05

Survey Date: 04/19/2013

Mewbourne Oil Co

Eddy County, New Mexico
Sec 11,T20S,R27E
Voyager 11 EH Fed Com 1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

07 May, 2013

DDC
Survey Report

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**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 11,T20S,R27E

Site Position:		**Northing:**	578,255.56 usft	**Latitude:**	32° 35' 22.950 N
From:	Map	**Easting:**	522,872.95 usft	**Longitude:**	104° 15' 32.649 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.04 °

Well Voyager 11 EH Fed Com 1H

Well Position	**+N/-S**	0.0 usft	**Northing:**	578,255.56 usft	**Latitude:**	32° 35' 22.950 N
	+E/-W	0.0 usft	**Easting:**	522,872.95 usft	**Longitude:**	104° 15' 32.649 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,349.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/5/2013	7.71	60.36	48,580

Design Wellbore #1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	92.22

Survey Program **Date** 5/7/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	5,400.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
5,459.0	10,680.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.99	280.00	100.0	0.2	-0.9	-0.9	0.99	0.99	0.00
200.0	1.07	305.90	200.0	0.8	-2.5	-2.5	0.47	0.08	25.90
300.0	1.11	307.93	300.0	2.0	-4.0	-4.1	0.06	0.04	2.03
400.0	1.06	310.91	399.9	3.2	-5.4	-5.6	0.08	-0.05	2.98
500.0	1.29	316.69	499.9	4.6	-6.9	-7.1	0.26	0.23	5.78
600.0	1.62	322.32	599.9	6.6	-8.5	-8.8	0.36	0.33	5.63
700.0	1.63	311.71	699.8	8.6	-10.5	-10.8	0.30	0.01	-10.61
800.0	2.11	321.29	799.8	11.0	-12.7	-13.1	0.57	0.48	9.58
900.0	1.81	311.26	899.7	13.5	-15.0	-15.5	0.45	-0.30	-10.03

DDC
Survey Report

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**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)
1,000.0	2.08	316.59	999.7	15.8	-17.5	-18.1	0.32	0.27	5.33
1,100.0	2.09	312.28	1,099.6	18.4	-20.1	-20.8	0.16	0.01	-4.31
1,200.0	2.07	310.44	1,199.5	20.8	-22.8	-23.6	0.07	-0.02	-1.84
1,300.0	2.25	308.52	1,299.5	23.2	-25.7	-26.6	0.19	0.18	-1.92
1,400.0	2.17	306.50	1,399.4	25.5	-28.7	-29.7	0.11	-0.08	-2.02
1,500.0	1.95	309.65	1,499.3	27.7	-31.6	-32.6	0.25	-0.22	3.15
1,600.0	1.66	298.90	1,599.3	29.5	-34.2	-35.3	0.44	-0.29	-10.75
1,700.0	1.40	292.03	1,699.3	30.7	-36.6	-37.7	0.32	-0.26	-6.87
1,800.0	1.28	285.89	1,799.2	31.4	-38.8	-40.0	0.19	-0.12	-6.14
1,900.0	1.17	279.42	1,899.2	31.9	-40.8	-42.1	0.18	-0.11	-6.47
2,000.0	1.05	279.54	1,999.2	32.2	-42.8	-44.0	0.12	-0.12	0.12
2,100.0	0.80	285.81	2,099.2	32.6	-44.3	-45.6	0.27	-0.25	6.27
2,200.0	1.00	287.19	2,199.2	33.0	-45.8	-47.1	0.20	0.20	1.38
2,300.0	0.73	284.10	2,299.1	33.4	-47.3	-48.5	0.27	-0.27	-3.09
2,400.0	1.04	282.97	2,399.1	33.8	-48.8	-50.1	0.31	0.31	-1.13
2,500.0	0.87	290.20	2,499.1	34.3	-50.4	-51.7	0.21	-0.17	7.23
2,600.0	0.84	294.18	2,599.1	34.8	-51.8	-53.1	0.07	-0.03	3.98
2,700.0	0.76	313.63	2,699.1	35.6	-52.9	-54.3	0.28	-0.08	19.45
2,800.0	0.90	295.08	2,799.1	36.4	-54.1	-55.5	0.30	0.14	-18.55
2,900.0	0.46	308.95	2,899.1	37.0	-55.1	-56.5	0.47	-0.44	13.87
3,000.0	0.56	319.17	2,999.1	37.6	-55.8	-57.2	0.13	0.10	10.22
3,100.0	0.68	314.59	3,099.1	38.4	-56.5	-58.0	0.13	0.12	-4.58
3,200.0	0.78	331.59	3,199.1	39.4	-57.3	-58.7	0.24	0.10	17.00
3,300.0	0.87	357.20	3,299.1	40.7	-57.6	-59.1	0.38	0.09	25.61
3,400.0	1.51	13.52	3,399.0	42.8	-57.3	-59.0	0.72	0.64	16.32
3,500.0	1.45	9.43	3,499.0	45.3	-56.8	-58.5	0.12	-0.06	-4.09
3,600.0	1.78	0.14	3,599.0	48.1	-56.6	-58.4	0.42	0.33	-9.29
3,700.0	1.96	359.91	3,698.9	51.4	-56.6	-58.6	0.18	0.18	-0.23
3,800.0	1.91	359.88	3,798.9	54.8	-56.6	-58.7	0.05	-0.05	-0.03
3,900.0	1.64	349.01	3,898.8	57.8	-56.9	-59.1	0.43	-0.27	-10.87
4,000.0	1.68	347.70	3,998.8	60.7	-57.5	-59.8	0.06	0.04	-1.31
4,100.0	1.88	333.18	4,098.7	63.6	-58.5	-61.0	0.49	0.20	-14.52
4,200.0	2.24	315.84	4,198.6	66.4	-60.6	-63.2	0.72	0.36	-17.34
4,300.0	2.53	313.02	4,298.6	69.3	-63.6	-66.3	0.31	0.29	-2.82
4,400.0	2.65	309.59	4,398.5	72.3	-67.0	-69.8	0.20	0.12	-3.43
4,500.0	2.63	313.10	4,498.4	75.3	-70.5	-73.3	0.16	-0.02	3.51
4,600.0	2.79	311.80	4,598.2	78.5	-74.0	-76.9	0.17	0.16	-1.30
4,700.0	2.67	311.35	4,698.1	81.7	-77.5	-80.6	0.12	-0.12	-0.45
4,800.0	2.70	311.29	4,798.0	84.8	-81.0	-84.3	0.03	0.03	-0.06
4,900.0	3.23	319.20	4,897.9	88.5	-84.6	-88.0	0.67	0.53	7.91
5,000.0	3.83	326.77	4,997.7	93.4	-88.3	-91.9	0.76	0.60	7.57
5,100.0	4.50	333.28	5,097.4	99.7	-91.9	-95.7	0.82	0.67	6.51
5,200.0	4.78	329.51	5,197.1	106.8	-95.8	-99.9	0.41	0.28	-3.77

DDC
Survey Report

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**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)
5,300.0	4.66	323.55	5,296.8	113.7	-100.3	-104.6	0.50	-0.12	-5.96
TIE IN @ 5400' MD / 5396.4' TVD									
5,400.0	4.73	315.30	5,396.4	119.9	-105.6	-110.2	0.68	0.07	-8.25
5,459.0	3.50	323.30	5,455.3	123.0	-108.4	-113.1	2.30	-2.08	13.56
5,491.0	1.10	31.80	5,487.3	124.1	-108.8	-113.6	10.19	-7.50	214.06
5,523.0	4.20	98.70	5,519.2	124.2	-107.5	-112.2	12.19	9.69	209.06
5,554.0	8.40	97.10	5,550.0	123.7	-104.1	-108.9	13.56	13.55	-5.16
5,586.0	12.10	92.80	5,581.5	123.3	-98.5	-103.2	11.80	11.56	-13.44
5,617.0	16.00	89.80	5,611.6	123.1	-91.0	-95.7	12.79	12.58	-9.68
5,649.0	19.40	89.50	5,642.1	123.2	-81.2	-85.9	10.63	10.63	-0.94
5,681.0	22.80	89.00	5,671.9	123.3	-69.7	-74.4	10.64	10.63	-1.56
5,713.0	25.90	89.40	5,701.1	123.5	-56.5	-61.3	9.70	9.69	1.25
5,744.0	28.80	90.60	5,728.6	123.5	-42.3	-47.0	9.52	9.35	3.87
5,776.0	31.80	92.00	5,756.2	123.1	-26.1	-30.9	9.63	9.38	4.38
5,807.0	35.00	92.80	5,782.1	122.4	-9.1	-13.8	10.42	10.32	2.58
5,839.0	38.40	92.90	5,807.7	121.5	10.0	5.3	10.63	10.63	0.31
5,870.0	41.70	91.80	5,831.5	120.6	29.9	25.2	10.89	10.65	-3.55
5,902.0	45.50	90.30	5,854.6	120.2	52.0	47.3	12.31	11.88	-4.69
5,934.0	49.60	89.40	5,876.2	120.3	75.6	70.9	12.98	12.81	-2.81
5,966.0	53.80	89.20	5,896.1	120.6	100.7	96.0	13.13	13.13	-0.63
5,998.0	57.80	89.60	5,914.0	120.9	127.2	122.4	12.54	12.50	1.25
6,029.0	61.80	90.60	5,929.6	120.8	153.9	149.1	13.20	12.90	3.23
CROSSED HARDLINE @ 6044' MD / 5936.5' TVD									
6,044.0	63.72	90.93	5,936.5	120.7	167.3	162.5	12.96	12.81	2.23
6,061.0	65.90	91.30	5,943.7	120.4	182.7	177.9	12.96	12.81	2.15
6,093.0	70.10	92.30	5,955.7	119.4	212.3	207.5	13.44	13.13	3.13
6,124.0	73.80	93.30	5,965.3	118.0	241.7	237.0	12.32	11.94	3.23
6,156.0	76.80	93.50	5,973.4	116.2	272.6	267.9	9.39	9.38	0.63
6,188.0	80.20	94.00	5,979.8	114.1	303.9	299.3	10.73	10.63	1.56
6,219.0	84.30	94.40	5,984.0	111.9	334.5	330.0	13.29	13.23	1.29
6,224.0	84.70	94.40	5,984.5	111.5	339.5	334.9	8.00	8.00	0.00
6,301.0	88.40	92.40	5,989.1	106.9	416.2	411.8	5.46	4.81	-2.60
6,332.0	86.80	93.50	5,990.4	105.3	447.1	442.7	6.26	-5.16	3.55
6,363.0	85.90	93.50	5,992.4	103.4	478.0	473.7	2.90	-2.90	0.00
6,394.0	85.70	93.50	5,994.7	101.5	508.9	504.6	0.65	-0.65	0.00
6,457.0	86.40	94.50	5,999.0	97.2	571.6	567.4	1.93	1.11	1.59
6,519.0	86.50	94.20	6,002.8	92.5	633.3	629.2	0.51	0.16	-0.48
6,583.0	86.60	93.60	6,006.7	88.1	697.0	693.1	0.95	0.16	-0.94
6,646.0	86.50	93.40	6,010.5	84.3	759.8	756.0	0.35	-0.16	-0.32
6,709.0	87.20	93.80	6,013.9	80.3	822.6	818.8	1.28	1.11	0.63
6,773.0	87.70	94.30	6,016.8	75.8	886.3	882.7	1.10	0.78	0.78
6,836.0	87.70	93.80	6,019.3	71.4	949.1	945.7	0.79	0.00	-0.79
6,899.0	87.50	93.50	6,022.0	67.4	1,012.0	1,008.6	0.57	-0.32	-0.48
6,963.0	87.70	93.50	6,024.6	63.5	1,075.8	1,072.5	0.31	0.31	0.00

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,026.0	86.10	92.60	6,028.0	60.1	1,138.6	1,135.4	2.91	-2.54	-1.43
7,058.0	85.70	92.70	6,030.3	58.6	1,170.5	1,167.3	1.29	-1.25	0.31
7,089.0	85.30	92.90	6,032.8	57.1	1,201.3	1,198.2	1.44	-1.29	0.65
7,121.0	85.50	92.90	6,035.3	55.5	1,233.2	1,230.1	0.63	0.63	0.00
7,152.0	86.20	94.10	6,037.6	53.6	1,264.1	1,261.0	4.47	2.26	3.87
7,184.0	87.20	93.80	6,039.4	51.4	1,295.9	1,293.0	3.26	3.13	-0.94
7,216.0	86.90	93.60	6,041.1	49.4	1,327.8	1,324.9	1.13	-0.94	-0.63
7,279.0	86.60	92.60	6,044.6	46.0	1,390.6	1,387.8	1.65	-0.48	-1.59
7,311.0	88.40	95.20	6,046.0	43.8	1,422.5	1,419.8	9.88	5.63	8.13
7,343.0	90.20	96.10	6,046.4	40.6	1,454.4	1,451.7	6.29	5.63	2.81
7,374.0	90.10	95.80	6,046.3	37.4	1,485.2	1,482.6	1.02	-0.32	-0.97
7,406.0	89.10	95.50	6,046.6	34.3	1,517.0	1,514.6	3.26	-3.13	-0.94
7,438.0	87.70	94.70	6,047.5	31.4	1,548.9	1,546.5	5.04	-4.38	-2.50
7,470.0	86.00	94.50	6,049.2	28.9	1,580.7	1,578.4	5.35	-5.31	-0.63
7,501.0	85.30	94.70	6,051.6	26.4	1,611.6	1,609.3	2.35	-2.26	0.65
7,533.0	85.60	94.60	6,054.1	23.8	1,643.4	1,641.2	0.99	0.94	-0.31
7,564.0	86.50	93.80	6,056.2	21.5	1,674.2	1,672.1	3.88	2.90	-2.58
7,596.0	87.10	93.40	6,058.0	19.5	1,706.1	1,704.0	2.25	1.88	-1.25
7,627.0	87.20	93.50	6,059.6	17.7	1,737.0	1,735.0	0.46	0.32	0.32
7,659.0	87.20	93.30	6,061.1	15.8	1,768.9	1,767.0	0.62	0.00	-0.63
7,723.0	86.50	93.10	6,064.6	12.2	1,832.7	1,830.8	1.14	-1.09	-0.31
7,786.0	87.30	93.90	6,068.1	8.4	1,895.5	1,893.7	1.79	1.27	1.27
7,849.0	87.10	94.00	6,071.1	4.0	1,958.3	1,956.6	0.35	-0.32	0.16
7,913.0	87.60	93.80	6,074.1	-0.3	2,022.0	2,020.5	0.84	0.78	-0.31
7,976.0	87.30	94.70	6,076.9	-5.0	2,084.8	2,083.4	1.50	-0.48	1.43
8,040.0	87.70	94.00	6,079.7	-9.8	2,148.6	2,147.3	1.26	0.63	-1.09
8,103.0	88.00	94.20	6,082.1	-14.3	2,211.4	2,210.3	0.57	0.48	0.32
8,165.0	88.30	94.90	6,084.1	-19.2	2,273.1	2,272.2	1.23	0.48	1.13
8,229.0	88.90	95.90	6,085.6	-25.3	2,336.8	2,336.0	1.82	0.94	1.56
8,292.0	89.80	96.60	6,086.3	-32.1	2,399.4	2,398.9	1.81	1.43	1.11
8,324.0	90.50	97.10	6,086.2	-35.9	2,431.2	2,430.8	2.69	2.19	1.56
8,356.0	89.20	97.40	6,086.3	-40.0	2,463.0	2,462.7	4.17	-4.06	0.94
8,387.0	88.10	97.20	6,087.1	-43.9	2,493.7	2,493.5	3.61	-3.55	-0.65
8,419.0	86.50	96.60	6,088.6	-47.8	2,525.4	2,525.4	5.34	-5.00	-1.88
8,450.0	86.00	95.60	6,090.6	-51.0	2,556.2	2,556.2	3.60	-1.61	-3.23
8,482.0	86.00	95.40	6,092.8	-54.1	2,588.0	2,588.1	0.62	0.00	-0.63
8,514.0	85.40	94.60	6,095.2	-56.9	2,619.8	2,620.0	3.12	-1.88	-2.50
8,546.0	85.60	94.10	6,097.7	-59.3	2,651.6	2,651.9	1.68	0.63	-1.56
8,577.0	85.70	94.20	6,100.1	-61.5	2,682.4	2,682.8	0.46	0.32	0.32
8,609.0	86.70	93.50	6,102.2	-63.7	2,714.2	2,714.7	3.81	3.13	-2.19
8,640.0	86.10	92.40	6,104.2	-65.3	2,745.1	2,745.6	4.04	-1.94	-3.55
8,672.0	85.80	92.50	6,106.4	-66.6	2,777.0	2,777.5	0.99	-0.94	0.31
8,703.0	85.50	92.50	6,108.8	-68.0	2,807.9	2,808.4	0.97	-0.97	0.00

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**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)
8,735.0	86.40	92.40	6,111.0	-69.4	2,839.8	2,840.4	2.83	2.81	-0.31
8,766.0	86.30	92.30	6,113.0	-70.6	2,870.7	2,871.3	0.46	-0.32	-0.32
8,798.0	86.50	92.50	6,115.0	-72.0	2,902.6	2,903.2	0.88	0.63	0.63
8,830.0	87.30	92.70	6,116.7	-73.4	2,934.5	2,935.2	2.58	2.50	0.63
8,894.0	87.50	93.30	6,119.6	-76.8	2,998.4	2,999.1	0.99	0.31	0.94
8,957.0	87.50	93.90	6,122.4	-80.7	3,061.2	3,062.0	0.95	0.00	0.95
9,020.0	87.30	93.50	6,125.3	-84.8	3,124.0	3,125.0	0.71	-0.32	-0.63
9,083.0	87.40	93.50	6,128.2	-88.6	3,186.8	3,187.9	0.16	0.16	0.00
9,146.0	86.90	92.70	6,131.3	-92.0	3,249.7	3,250.8	1.50	-0.79	-1.27
9,210.0	87.40	93.40	6,134.5	-95.4	3,313.5	3,314.7	1.34	0.78	1.09
9,273.0	86.80	93.00	6,137.7	-98.9	3,376.3	3,377.6	1.14	-0.95	-0.63
9,337.0	86.70	93.40	6,141.3	-102.5	3,440.1	3,441.5	0.64	-0.16	0.63
9,401.0	86.30	93.20	6,145.2	-106.2	3,503.9	3,505.4	0.70	-0.63	-0.31
9,464.0	86.00	93.10	6,149.4	-109.6	3,566.6	3,568.2	0.50	-0.48	-0.16
9,527.0	86.80	92.60	6,153.4	-112.8	3,629.4	3,631.1	1.50	1.27	-0.79
9,590.0	89.00	95.60	6,155.7	-117.3	3,692.2	3,694.0	5.90	3.49	4.76
9,622.0	89.20	95.70	6,156.2	-120.4	3,724.1	3,725.9	0.70	0.63	0.31
9,654.0	88.10	94.90	6,157.0	-123.4	3,755.9	3,757.9	4.25	-3.44	-2.50
9,685.0	86.90	94.40	6,158.3	-125.9	3,786.8	3,788.8	4.19	-3.87	-1.61
9,717.0	87.30	95.40	6,159.9	-128.6	3,818.6	3,820.7	3.36	1.25	3.13
9,749.0	88.50	96.60	6,161.1	-131.9	3,850.4	3,852.7	5.30	3.75	3.75
9,781.0	88.70	97.10	6,161.9	-135.8	3,882.2	3,884.5	1.68	0.63	1.56
9,812.0	88.00	95.30	6,162.8	-139.1	3,913.0	3,915.4	6.23	-2.26	-5.81
9,844.0	87.10	95.40	6,164.1	-142.1	3,944.8	3,947.4	2.83	-2.81	0.31
9,876.0	86.90	95.70	6,165.8	-145.2	3,976.6	3,979.3	1.13	-0.63	0.94
9,907.0	86.40	95.20	6,167.6	-148.1	4,007.4	4,010.2	2.28	-1.61	-1.61
9,970.0	86.50	95.80	6,171.5	-154.1	4,070.0	4,072.9	0.96	0.16	0.95
10,033.0	85.50	94.10	6,175.9	-159.6	4,132.6	4,135.7	3.12	-1.59	-2.70
10,063.0	84.60	93.20	6,178.5	-161.5	4,162.5	4,165.6	4.23	-3.00	-3.00
10,095.0	85.10	93.10	6,181.4	-163.2	4,194.3	4,197.5	1.59	1.56	-0.31
10,126.0	85.80	93.10	6,183.8	-164.9	4,225.1	4,228.4	2.26	2.26	0.00
10,158.0	86.80	93.30	6,185.9	-166.7	4,257.0	4,260.3	3.19	3.13	0.63
10,190.0	87.10	92.70	6,187.6	-168.3	4,288.9	4,292.2	2.09	0.94	-1.88
10,221.0	86.50	91.90	6,189.3	-169.6	4,319.9	4,323.2	3.22	-1.94	-2.58
10,285.0	87.30	91.40	6,192.8	-171.4	4,383.7	4,387.1	1.47	1.25	-0.78
10,348.0	88.50	91.60	6,195.1	-173.1	4,446.7	4,450.0	1.93	1.90	0.32
10,380.0	89.40	92.00	6,195.7	-174.1	4,478.7	4,482.0	3.08	2.81	1.25
10,411.0	89.80	92.00	6,195.9	-175.2	4,509.6	4,513.0	1.29	1.29	0.00
10,443.0	89.00	91.90	6,196.2	-176.3	4,541.6	4,545.0	2.52	-2.50	-0.31
10,475.0	88.00	91.70	6,197.1	-177.3	4,573.6	4,577.0	3.19	-3.13	-0.63
10,506.0	86.50	92.00	6,198.6	-178.3	4,604.5	4,608.0	4.93	-4.84	0.97
10,570.0	86.20	91.90	6,202.6	-180.4	4,668.4	4,671.9	0.49	-0.47	-0.16
10,629.0	87.30	93.10	6,206.0	-183.0	4,727.2	4,730.8	2.76	1.86	2.03

DDC
Survey Report

Company:	Mewbourne Oil Co	**Local Co-ordinate Reference:**	Well Voyager 11 EH Fed Com 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Site:	Sec 11,T20S,R27E	**MD Reference:**	WELL @ 3369.0usft (Patterson-UTI #46)
Well:	Voyager 11 EH Fed Com 1H	**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 @ 10680' MD / 6208.4' TVD									
10,680.0	87.30	93.10	6,208.4	-185.8	4,778.1	4,781.7	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,400.0	5,396.4	119.9	-105.6	TIE IN @ 5400' MD / 5396.4' TVD
6,044.0	5,936.5	120.7	167.3	CROSSED HARDLINE @ 6044' MD / 5936.5' TVD
10,680.0	6,208.4	-185.8	4,778.1	TD @ 10680' MD / 6208.4' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Voyager 11 EH Fed Com 1H
Eddy County, New Mexico
Rig: Patterson-UTI #46
Created By: TIFFANI MIZELL
Date: 5/8/2013

Voyager 11 EH Fed Com 1H
Eddy County, New Mexico
Q120743 & WT-13286
Design #2

The DIRECTIONAL DRILLING COMPANY

Mewbourne Oil Company

T G M

Azimuths to Grid North

Magnetic North: 7.67°

Magnetic Field
Strength: 48580.2snT
Dip Angle: 60.36°
Date: 4/5/2013
Model: IGRF2010

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

WELL DETAILS: Voyager 11 EH Fed Com 1H

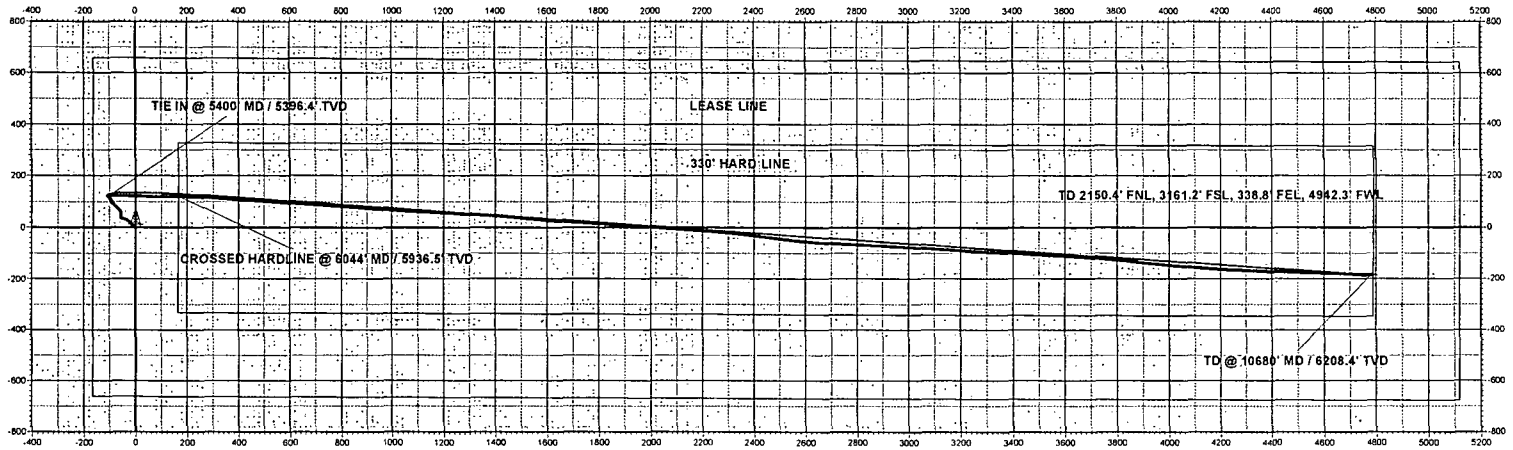
+N/-S	+E/-W	Ground Level: Northing	Easting	3349.0 Latitude	Longitude
0.0	0.0	578255.56	522872.95	32° 35' 22.950 N	104° 15' 32.649 W

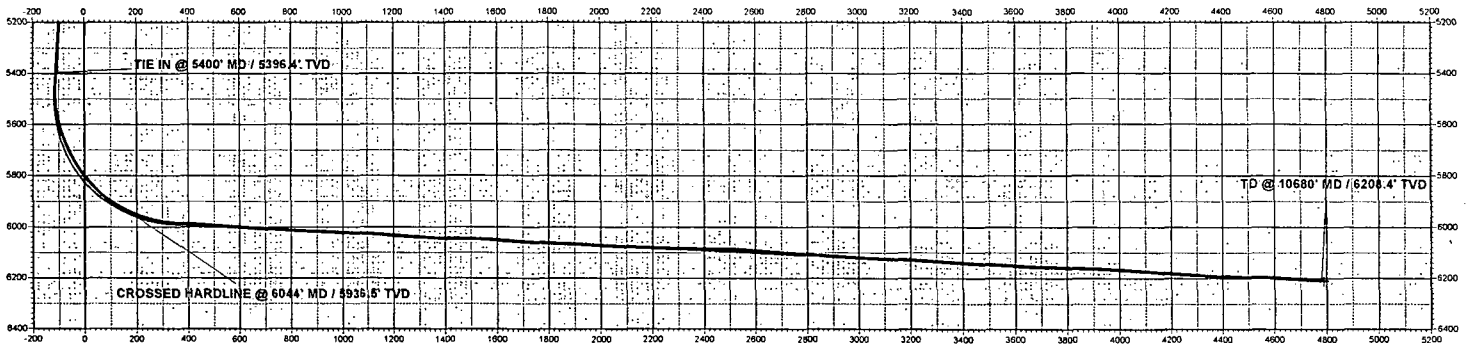
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Voyager 11 EH Fed Com 1H Design #2 - plan hits target center	6210.0	-185.5	4786.9	578070.06	527659.85	32° 35' 21.078 N	104° 14' 36.699 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
5400.0	4.73	315.30	5396.4	119.9	-105.6	-110.2	170.2	TIE IN @ 5400' MD / 5396.4' TVD
6044.0	63.72	90.93	5936.5	120.7	167.3	162.5	452.2	CROSSED HARDLINE @ 6044' MD / 5936.5' TVD
10680.0	87.30	93.10	6208.4	-185.8	4778.1	4781.7	5074.2	TD @ 10680' MD / 6208.4' TVD





Vertical Section at 92.22° (200 usft/in)

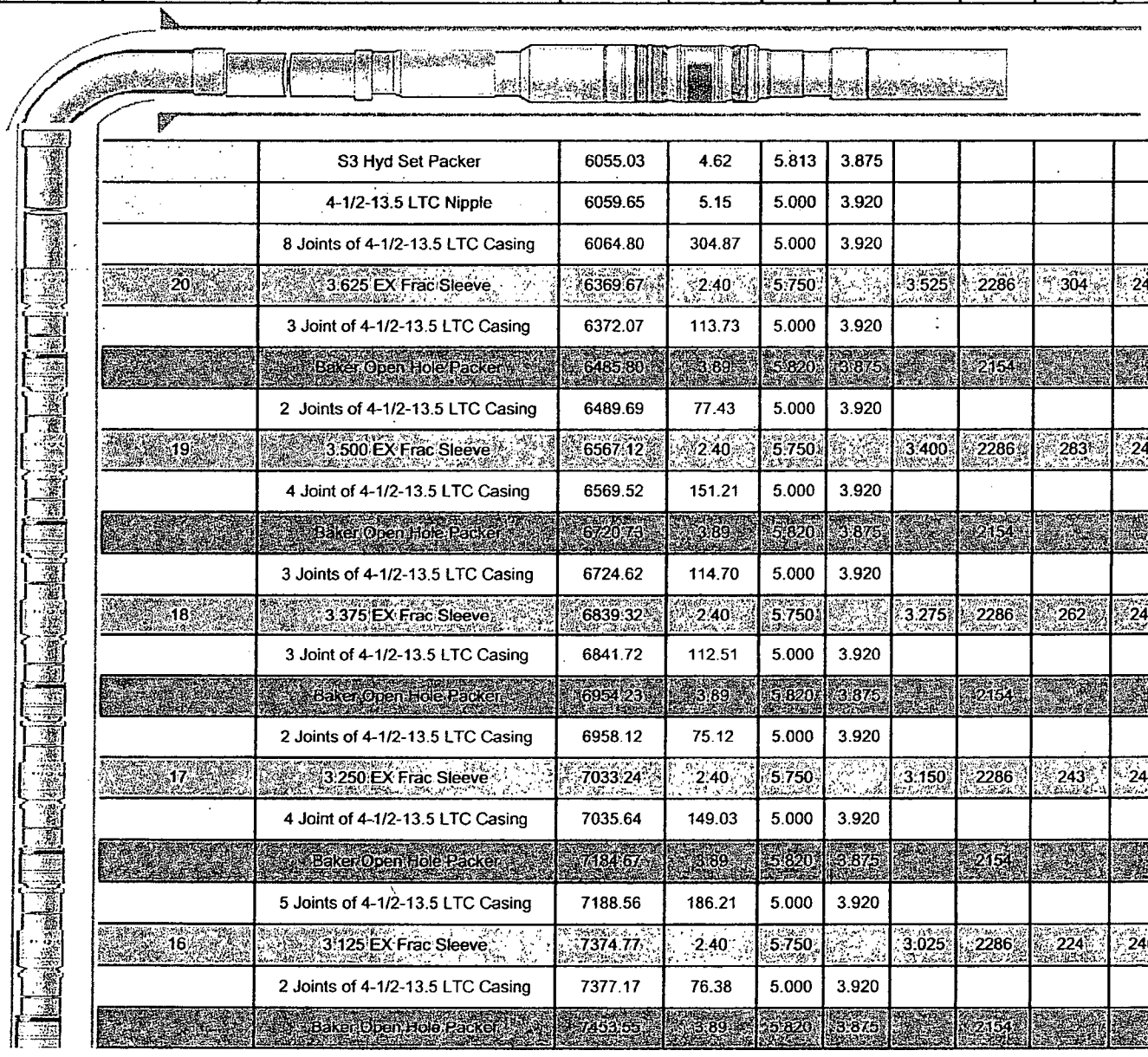
Operating Company	Mewbourne	**Company Rep**	lynn simmons		
Well Name & Number	voyager 11 EH Fed Com #1H	**Field**			
Sales Ticket Number		**BOT Service Rep**	charles mosley		
Date	5/6/2013	**District Location**	Odessa, Texas, USA		

BAKER HUGHES

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,275.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,608.82	4,525	10,680
Bott Liner										

TVD	6,208.00	KOP	5,488.00	Open Hole	6.125	Casing Vol. (bbl)	240.1
Carry Fluid Weight (ppg)	8.75	Propant Content (ppa)				Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBLs)
Liner Top 1		JR Setting Sleeve_RH Profile	6051.00	4.03						



Zone Length										
		S3 Hyd Set Packer	6055.03	4.62	5.813	3.875				
		4-1/2-13.5 LTC Nipple	6059.65	5.15	5.000	3.920				
		8 Joints of 4-1/2-13.5 LTC Casing	6064.80	304.87	5.000	3.920				
20	20	3.625 EX Frac Sleeve	6369.67	2.40	5.750		3.525	2286	304	240
		3 Joint of 4-1/2-13.5 LTC Casing	6372.07	113.73	5.000	3.920				
		Baker Open Hole Packer	6485.80	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	6489.69	77.43	5.000	3.920				
19	19	3.500 EX Frac Sleeve	6567.12	2.40	5.750		3.400	2286	283	240
		4 Joint of 4-1/2-13.5 LTC Casing	6569.52	151.21	5.000	3.920				
		Baker Open Hole Packer	6720.73	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	6724.62	114.70	5.000	3.920				
18	18	3.375 EX Frac Sleeve	6839.32	2.40	5.750		3.275	2286	262	240
		3 Joint of 4-1/2-13.5 LTC Casing	6841.72	112.51	5.000	3.920				
		Baker Open Hole Packer	6954.23	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	6958.12	75.12	5.000	3.920				
17	17	3.250 EX Frac Sleeve	7033.24	2.40	5.750		3.150	2286	243	240
		4 Joint of 4-1/2-13.5 LTC Casing	7035.64	149.03	5.000	3.920				
		Baker Open Hole Packer	7184.67	3.89	5.820	3.875		2154		
		5 Joints of 4-1/2-13.5 LTC Casing	7188.56	186.21	5.000	3.920				
16	16	3.125 EX Frac Sleeve	7374.77	2.40	5.750		3.025	2286	224	240
		2 Joints of 4-1/2-13.5 LTC Casing	7377.17	76.38	5.000	3.920				
		Baker Open Hole Packer	7453.55	3.89	5.820	3.875		2154		

Operating Company	Mewbourne	**Company Rep**	lynn simmons		
Well Name & Number	voyager 11 EH Fed Com #1H	**Field**			
Sales Ticket Number		**BOT Service Rep**	charles mosley		
Date	5/6/2013	**District Location**	Odessa, Texas, USA		

BAKER HUGHES

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,275.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,608.82	4,525	10,680
Bott Liner										

TVD	6,208.00	KOP	5,488.00	Open Hole	6.125	Casing Vol. (bbl) 240.1
Carry Fluid Weight (ppg)	8.75	Propant Content (ppa)		Max Drill Out Size	0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
		3 Joints of 4-1/2-13.5 LTC Casing	7457.44	114.47	5.000	3.920				
15	15	3.000 EX Frac sleeve	7571.91	2.40	5.750		2.900	2286	206	240
		2 Joint of 4-1/2-13.5 LTC Casing	7574.31	76.11	5.000	3.920				
		Baker Open Hole Packer	7650.42	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	7654.31	114.53	5.000	3.920				
14	14	2.875 EX Frac Sleeve	7768.84	2.40	5.750		2.775	2286	188	240
		3 Joints of 4-1/2-13.5 LTC Casing	7771.24	115.10	5.000	3.920				
		Baker Open Hole Packer	7886.34	3.89	5.820	3.875		2154		
		3Joints of 4-1/2-13.5 LTC Casing	7890.23	114.04	5.000	3.920				
13	13	2.750 EX Frac Sleeve	8004.27	2.40	5.750		2.650	2286	172	240
		2 Joint of 4-1/2-13.5 LTC Casing	8006.67	76.75	5.000	3.920				
		Baker Open Hole Packer	8083.42	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	8087.31	112.73	5.000	3.920				
12	12	2.625 EX Frac Sleeve	8200.04	2.40	5.750		2.525	2286	156	240
		2 Joints of 4-1/2-13.5 LTC Casing	8202.44	74.78	5.000	3.920				
		Baker Open Hole Packer	8277.22	3.89	5.820	3.875		2154		
		3Joints of 4-1/2-13.5 LTC Casing	8281.11	113.97	5.000	3.920				
11	11	2.500 EX Frac Sleeve	8395.08	2.40	5.750		2.400	2286	141	240
		3 Joint of 4-1/2-13.5 LTC Casing	8397.48	112.71	5.000	3.920				
		Baker Open Hole Packer	8510.19	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	8514.08	114.29	5.000	3.920				
10	10	2.38 EX Frac Sleeve	8628.37	2.40	5.750		2.275	2286	127	240
		2 Joints of 4-1/2-13.5 LTC Casing	8630.77	76.96	5.000	3.920				
		Baker Open Hole Packer	8707.73	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	8711.62	111.49	5.000	3.920				
9	9	2.250 EX Frac Sleeve	8823.11	2.40	5.750		2.150	2286	113	240

Operating Company	Mewbourne	**Company Rep**	lynn simmons		
Well Name & Number	voyager 11 EH Fed Com #1H	**Field**			
Sales Ticket Number		**BOT Service Rep**	charles mosley		
Date	5/6/2013	**District Location**	Odessa, Texas, USA		

BAKER HUGHES

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,275.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,608.82	4,525	10,680
Bott Liner										

TVD	6,208.00	KOP	5,488.00	Open Hole	6.125	Casing Vol. (bbl)	240.1
Carry Fluid Weight (ppg)	8.75	Propant Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
		3 Joints of 4-1/2-13.5 LTC Casing	8825.51	110.37	5.000	3.920				
		Baker Open Hole Packer	8935.88	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	8939.77	112.76	5.000	3.920				
8	8	2.125 EX Frac Sleeve	9052.53	2.40	5.750		2.025	2286	100	240
		2 Joints of 4-1/2-13.5 LTC Casing	9054.93	76.40	5.000	3.920				
		Baker Open Hole Packer	9131.33	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	9135.22	114.66	5.000	3.920				
7	7	2.000 EX Frac Sleeve	9249.88	2.40	5.750		1.900	2286	88	240
		3 Joints of 4-1/2-13.5 LTC Casing	9252.28	113.93	5.000	3.920				
		Baker Open Hole Packer	9366.21	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	9370.10	113.22	5.000	3.920				
6	6	1.875 EX Frac Sleeve	9483.32	2.40	5.750		1.775	2286	77	240
		3 Joints of 4-1/2-13.5 LTC Casing	9485.72	113.02	5.000	3.920				
		Baker Open Hole Packer	9598.74	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9602.63	112.82	5.000	3.920				
5	5	1.750 EX Frac Sleeve	9715.45	2.40	5.750		1.650	2286	67	240
		3 Joint of 4-1/2-13.5 LTC Casing	9717.85	115.08	5.000	3.920				
		Baker Open Hole Packer	9832.93	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9836.82	112.63	5.000	3.920				
4	4	1.625 EX Frac Sleeve	9949.45	2.40	5.750		1.525	2286	57	240
		3 Joints of 4-1/2-13.5 LTC Casing	9951.85	114.78	5.000	3.920				
		Baker Open Hole Packer	10066.63	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10070.52	113.64	5.000	3.920				
3	3	1.500 DBL Ball Frac Sleeve	10184.16	2.40	5.750		1.400	2286	48	240
		3 Joint of 4-1/2-13.5 LTC Casing	10186.56	114.61	5.000	3.920				
		Baker Open Hole Packer	10301.17	3.89	5.820	3.875		2154		

Operating Company	Mewbourne	**Company Rep**	lynn simmons		
Well Name & Number	voyager 11 EH Fed Com #1H	**Field**			
Sales Ticket Number		**BOT Service Rep**	charles mosley		
Date	5/6/2013	**District Location**	Odessa, Texas, USA		

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	6,275.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,608.82	4,525	10,680
Bott Liner										

TVD	6,208.00	KOP	5,488.00	Open Hole	6.125	Casing Vol. (bbl)	240.1
Carry Fluid Weight (ppg)	8.75	Propant Content (ppa)				Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
		3 Joints of 4-1/2-13.5 LTC Casing	10305.06	112.31	5.000	3.920				
2	2	1.375 DBL Ball Frac Sleeve	10417.37	2.40	5.750		1.275	2286	40	240
		3 Joints of 4-1/2-13.5 LTC Casing	10419.77	112.09	5.000	3.920				
		Baker Open Hole Packer	10531.86	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10535.75	114.79	5.000	3.920				
1	1	1.250 Ball Seat	10650.54	2.41	5.000	3.920		3048		
		Pup Joint	10652.95	5.15	5.000	3.920				
		Float Shoe	10658.10	1.90						
			10660.00							