

Aries 20 Federal Com #4H

450' FSL & 330' FWL, Sec 20, T18S, R30E

Eddy Co., NM

30-015-40427

WELL BORE #1



Job Number: SVCO-121295

Company: Mewbourne Oil & Gas

Lease/Well: Aries 20 Fed Com 4H

Location: Eddy County, NM

Rlg Name: Patterson #45

RKB: 17.5'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 7.76°

Grid: East To Grid North

File name: F:\SURVEY\2012SU~1\MEWBOU~1\CONROE\ARIES\20FC4H.SVY

Date/Time: 13-Sep-12 / 08:26

Curve Name: Surface - 7500' M.D. (SRG)

*Label bore #1
#2*

Received

OCT 02 2012

Mewbourne Oil Company
Hobbs

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 87.34

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
Surface MD to 7,500' MD is, to the best of
our knowledge a true and accurate account of the
well bore.

Bryan Roberts
MS Energy Services

9/13/12
Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.35	99.78	200.00	-.10	.60	.60	.61	99.78	.17
400.00	.44	80.63	399.99	-.08	1.96	1.96	1.96	92.41	.08
600.00	.47	60.46	599.99	.45	3.43	3.45	3.46	82.58	.08
800.00	.09	185.65	799.99	.70	4.13	4.16	4.19	80.45	.26
1000.00	.58	70.11	999.98	.88	5.07	5.10	5.14	80.11	.31
1200.00	1.42	67.23	1199.95	2.19	8.30	8.40	8.59	75.25	.42
1400.00	1.56	55.46	1399.88	4.69	12.83	13.04	13.66	69.93	.17
1600.00	1.56	29.34	1599.81	8.61	16.41	16.79	18.53	62.32	.35
1800.00	1.58	21.25	1799.74	13.55	18.74	19.35	23.13	54.14	.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
2000.00	1.81	24.26	1999.65	19.00	21.04	21.90	28.35	47.92	.12
2200.00	1.73	24.20	2199.55	24.63	23.57	24.69	34.10	43.74	.04
2400.00	1.44	33.47	2399.48	29.48	26.20	27.54	39.44	41.62	.19
2600.00	2.11	31.87	2599.38	34.70	29.53	31.11	45.57	40.39	.34
2800.00	1.24	14.95	2799.29	39.92	32.03	33.85	51.18	38.74	.50
3000.00	1.23	11.97	2999.25	44.11	33.03	35.05	55.11	36.83	.03
3200.00	1.49	359.74	3199.19	48.81	33.47	35.70	59.18	34.43	.19
3400.00	.68	10.76	3399.15	52.58	33.68	36.08	62.44	32.64	.42
3600.00	.83	3.49	3599.14	55.19	33.99	36.51	64.82	31.62	.09
3800.00	1.04	295.48	3799.12	57.42	32.44	35.07	65.95	29.46	.53
4000.00	.69	321.98	3999.09	59.15	30.06	32.77	66.35	26.94	.26
4200.00	1.76	247.41	4199.05	58.92	26.48	29.18	64.59	24.20	.86
4400.00	2.95	257.53	4398.88	56.63	18.62	21.22	59.61	18.20	.63
4600.00	4.25	260.59	4598.48	54.30	6.28	8.79	54.66	6.60	.66
4800.00	4.49	269.16	4797.90	52.98	-8.86	-6.39	53.71	350.51	.35
5000.00	4.09	274.80	4997.34	53.46	-23.79	-21.29	58.51	336.01	.29
5200.00	3.85	272.49	5196.86	54.35	-37.61	-35.05	66.09	325.32	.14
5400.00	3.21	283.99	5396.49	55.99	-49.75	-47.10	74.90	318.38	.48
5600.00	2.75	276.05	5596.22	57.85	-59.96	-57.21	83.32	313.98	.31
5800.00	2.04	294.65	5796.04	59.84	-67.96	-65.11	90.55	311.36	.52
6000.00	1.90	342.45	5995.94	64.49	-72.20	-69.13	96.81	311.77	.80
6200.00	.88	350.08	6195.88	69.16	-73.46	-70.17	100.90	313.27	.52
6400.00	1.49	10.98	6395.83	73.23	-73.23	-69.75	103.56	315.00	.37
6600.00	1.93	13.42	6595.74	79.06	-71.95	-68.21	106.90	317.69	.22
6800.00	.68	10.46	6795.69	83.50	-70.96	-67.01	109.58	319.64	.63
7000.00	1.21	239.95	6995.67	83.61	-72.57	-68.61	110.71	319.04	.87
7200.00	1.55	247.07	7195.62	81.50	-76.89	-73.02	112.04	316.67	.19
7400.00	1.91	254.54	7395.52	79.56	-82.59	-78.81	114.68	313.93	.21

Last Survey Depth Recorded

7500.00	1.79	248.12	7495.47	78.53	-85.65	-81.91	116.20	312.52	.24
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OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
ARIES 20 FED COM 4H
EDDY

045-0086

Well bore #1

STATE OF NEW MEXICO
DEVIATION REPORT

239	0.47	7,246	1.59
451	0.48		
689	0.49		
937	0.35		
1,192	1.00		
1,447	0.96		
1,749	1.41		
2,003	1.82		
2,256	0.70		
2,574	1.76		
2,826	1.51		
3,082	1.47		
3,368	1.09		
3,685	0.90		
4,035	1.15		
4,352	1.89		
4,543	3.33		
4,669	4.57		
4,799	4.66		
4,894	4.27		
4,989	4.18		
5,116	4.30		
5,211	3.66		
5,307	3.59		
5,404	3.19		
5,497	2.93		
5,626	2.58		
5,720	2.53		
5,815	2.32		
5,943	2.13		
6,132	0.81		
6,356	1.63		
6,452	1.59		
6,579	1.90		
6,674	2.19		
6,801	0.67		
6,960	0.36		

BY:

[Signature]

STATE OF TEXAS

COUNTY OF MIDLAND

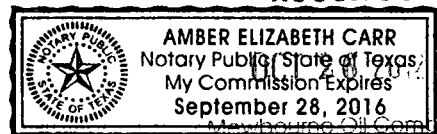
The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

10/15/2012, by

Amber Elizabeth Carr

Notary Public for Midland County, Texas
My Commission Expires:

Received



Mewbourne Oil Company
Hobbs

Mewbourne Oil Co

Eddy County, New Mexico

Sec 20-18S-30E

Aries 20 Fed Com #4H

Wellbore #1

Survey: MWD

DDC Survey Report

28 September, 2012



DDC
Survey Report

Wellbore #1



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Aries 20 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Site:	Sec 20-18S-30E	MD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Well:	Aries 20 Fed Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project: Eddy County, New Mexico			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Sec 20-18S-30E				
Site Position:		Northing:	631,082.30 usft	Latitude:	32° 44' 4.205 N	
From:	Map	Easting:	602,014.20 usft	Longitude:	104° 0' 5.683 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.18 °

Well	Aries 20 Fed Com #4H					
Well Position	+N-S	0.0 usft	Northing:	628,306.43 usft	Latitude:	32° 43' 36.733 N
	+E-W	0.0 usft	Easting:	602,152.98 usft	Longitude:	104° 0' 4.160 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,475.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/30/2012	7.67	60.55	48,750

Design:	Wellbore #1
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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	87.34

Survey Program		Date	9/28/2012	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	7,500.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,672.0	12,685.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	TIE IN @ 7500 MD / 7500 TVD									
	7,500.0	1.79	248.12	7,495.5	78.5	-85.6	-81.9	0.00	0.00	0.00
	7,672.0	1.30	223.00	7,667.4	76.1	-89.5	-85.8	0.48	-0.28	-14.60
	7,704.0	1.70	103.80	7,699.4	75.7	-89.3	-85.6	8.11	1.25	-372.50
	7,736.0	6.20	86.10	7,731.3	75.7	-87.1	-83.5	14.40	14.06	-55.31
	7,768.0	10.50	76.10	7,763.0	76.5	-82.5	-78.9	14.13	13.44	-31.25
	7,799.0	13.90	72.00	7,793.3	78.4	-76.2	-72.5	11.31	10.97	-13.23
	7,831.0	14.90	68.80	7,824.3	81.1	-68.7	-64.9	3.99	3.13	-10.00
	7,863.0	18.70	64.60	7,854.9	84.7	-60.3	-56.3	12.46	11.88	-13.13
	7,895.0	22.50	65.20	7,884.8	89.5	-50.1	-45.9	11.89	11.88	1.88

DDC
Survey Report



Wellbore # 1

Company:	Newbourne Oil Co	Local Co-ordinate Reference:	Well Aries 20 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Site:	Sec 20-18S-30E	MD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Well:	Aries 20 Fed Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,926.0	26.20	68.70	7,913.1	94.5	-38.3	-33.9	12.81	11.94	11.29
7,958.0	29.90	71.20	7,941.3	99.6	-24.2	-19.5	12.13	11.56	7.81
7,990.0	34.20	73.90	7,968.4	104.7	-8.0	-3.1	14.16	13.44	8.44
CROSSED HARD LINE @ 8003' MD / 7979' TVD									
8,003.0	35.78	74.84	7,979.1	106.7	-0.8	4.2	12.84	12.15	7.26
8,022.0	38.10	76.10	7,994.3	109.6	10.3	15.3	12.84	12.21	6.61
8,053.0	42.10	78.70	8,018.0	113.9	29.7	35.0	13.99	12.90	8.39
8,085.0	45.60	82.00	8,041.1	117.6	51.6	57.0	13.06	10.94	10.31
8,117.0	49.00	84.80	8,062.8	120.3	75.0	80.5	12.42	10.63	8.75
8,149.0	53.00	85.20	8,082.9	122.4	99.7	105.3	12.54	12.50	1.25
8,181.0	56.80	85.40	8,101.3	124.6	125.8	131.5	11.89	11.88	0.63
8,212.0	60.00	86.20	8,117.5	126.5	152.1	157.8	10.55	10.32	2.58
8,244.0	65.10	84.80	8,132.3	128.7	180.4	186.2	16.40	15.94	-4.38
8,276.0	68.20	84.50	8,145.0	131.5	209.7	215.6	9.73	9.69	-0.94
8,308.0	69.50	85.80	8,156.5	134.0	239.4	245.4	5.56	4.06	4.06
8,339.0	71.10	87.20	8,167.0	135.8	268.5	274.6	6.69	5.16	4.52
8,371.0	71.60	86.80	8,177.2	137.4	298.8	304.9	1.96	1.56	-1.25
8,403.0	75.50	88.10	8,186.3	138.7	329.5	335.6	12.79	12.19	4.06
8,434.0	78.60	89.00	8,193.2	139.5	359.7	365.8	10.39	10.00	2.90
8,453.0	81.20	89.30	8,196.5	139.8	378.4	384.5	13.77	13.68	1.58
8,542.0	87.40	87.90	8,205.4	141.9	466.9	473.0	7.14	6.97	-1.57
8,574.0	88.80	90.80	8,206.4	142.3	498.8	504.9	10.06	4.38	9.06
8,606.0	89.20	91.90	8,207.0	141.6	530.8	536.8	3.66	1.25	3.44
8,636.0	89.10	91.90	8,207.4	140.6	560.8	566.7	0.33	-0.33	0.00
8,668.0	89.40	91.90	8,207.8	139.5	592.8	598.6	0.94	0.94	0.00
8,732.0	89.60	91.30	8,208.4	137.7	656.8	662.4	0.99	0.31	-0.94
8,795.0	89.60	90.70	8,208.8	136.6	719.8	725.3	0.95	0.00	-0.95
8,859.0	89.50	90.50	8,209.4	135.9	783.7	789.2	0.35	-0.16	-0.31
8,921.0	89.80	89.90	8,209.7	135.7	845.7	851.1	1.08	0.48	-0.97
8,985.0	90.00	90.00	8,209.8	135.8	909.7	915.1	0.35	0.31	0.16
9,048.0	90.90	89.60	8,209.3	136.0	972.7	978.0	1.56	1.43	-0.63
9,111.0	89.70	89.50	8,209.0	136.5	1,035.7	1,041.0	1.91	-1.90	-0.16
9,175.0	89.20	89.60	8,209.6	137.0	1,099.7	1,104.9	0.80	-0.78	0.16
9,239.0	89.40	89.60	8,210.4	137.4	1,163.7	1,168.9	-0.31	0.31	0.00
9,301.0	89.60	88.60	8,211.0	138.4	1,225.7	1,230.8	1.64	0.32	-1.61
9,364.0	89.80	88.20	8,211.3	140.2	1,288.7	1,293.8	0.71	0.32	-0.63
9,427.0	89.20	87.60	8,211.8	142.5	1,351.6	1,356.8	1.35	-0.95	-0.95
9,490.0	89.10	87.70	8,212.8	145.1	1,414.6	1,419.8	0.22	-0.16	0.16
9,554.0	89.40	87.70	8,213.6	147.6	1,478.5	1,483.8	0.47	0.47	0.00
9,617.0	88.90	87.30	8,214.5	150.4	1,541.5	1,546.8	1.02	-0.79	-0.63
9,680.0	88.30	87.70	8,216.1	153.1	1,604.4	1,609.8	1.14	-0.95	0.63
9,743.0	88.60	87.20	8,217.8	155.9	1,667.3	1,672.7	0.93	0.48	-0.79
9,806.0	88.50	87.30	8,219.4	159.0	1,730.2	1,735.7	0.22	-0.16	0.16

DDC
Survey Report

Wellbore #1



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Aries 20 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Site:	Sec 20-18S-30E	MD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Well:	Aries 20 Fed Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000:1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,869.0	89.40	87.60	8,220.5	161.8	1,793.1	1,798.7	1.51	1.43	0.48
9,933.0	89.40	87.80	8,221.2	164.3	1,857.1	1,862.7	0.31	0.00	0.31
9,997.0	90.90	86.50	8,221.0	167.5	1,921.0	1,926.7	3.10	2.34	-2.03
10,060.0	89.80	87.00	8,220.6	171.1	1,983.9	1,989.7	1.92	-1.75	0.79
10,123.0	89.10	87.00	8,221.3	174.4	2,046.8	2,052.7	1.11	-1.11	0.00
10,187.0	89.40	86.80	8,222.1	177.8	2,110.7	2,116.7	0.56	0.47	-0.31
10,250.0	89.40	86.60	8,222.8	181.5	2,173.6	2,179.7	0.32	0.00	-0.32
10,314.0	89.40	86.80	8,223.4	185.2	2,237.5	2,243.7	0.31	0.00	0.31
10,377.0	89.10	86.60	8,224.2	188.8	2,300.4	2,306.7	0.57	-0.48	-0.32
10,440.0	89.40	86.30	8,225.1	192.7	2,363.2	2,369.6	0.67	0.48	-0.48
10,504.0	88.80	86.10	8,226.1	196.9	2,427.1	2,433.6	0.99	-0.94	-0.31
10,567.0	88.70	86.90	8,227.5	200.8	2,490.0	2,496.6	1.28	-0.16	1.27
10,631.0	89.30	87.70	8,228.6	203.8	2,553.9	2,560.6	1.56	0.94	1.25
10,694.0	89.40	88.20	8,229.3	206.0	2,616.8	2,623.6	0.81	0.16	0.79
10,757.0	88.30	88.40	8,230.5	207.9	2,679.8	2,686.6	1.77	-1.75	0.32
10,820.0	88.90	88.70	8,232.1	209.5	2,742.8	2,749.5	1.06	0.95	0.48
10,884.0	89.70	89.40	8,232.9	210.6	2,806.7	2,813.5	1.66	1.25	1.09
10,947.0	89.40	89.10	8,233.4	211.4	2,869.7	2,876.5	0.67	-0.48	-0.48
11,010.0	88.90	89.10	8,234.3	212.4	2,932.7	2,939.4	0.79	-0.79	0.00
11,072.0	90.50	89.20	8,234.6	213.3	2,994.7	3,001.4	2.59	2.58	0.16
11,135.0	89.80	89.60	8,234.5	213.9	3,057.7	3,064.3	1.28	-1.11	0.63
11,199.0	89.20	89.50	8,235.0	214.5	3,121.7	3,128.3	0.95	-0.94	-0.16
11,262.0	90.00	89.50	8,235.5	215.0	3,184.7	3,191.2	1.27	1.27	0.00
11,325.0	89.80	89.20	8,235.6	215.7	3,247.7	3,254.2	0.57	-0.32	-0.48
11,388.0	89.90	89.20	8,235.7	216.6	3,310.7	3,317.2	0.16	0.16	0.00
11,452.0	89.50	89.50	8,236.1	217.3	3,374.7	3,381.1	0.78	-0.63	0.47
11,515.0	90.40	90.00	8,236.1	217.6	3,437.7	3,444.1	1.63	1.43	0.79
11,578.0	91.70	89.80	8,235.0	217.7	3,500.7	3,507.0	2.09	2.06	-0.32
11,641.0	90.70	89.80	8,233.6	217.9	3,563.7	3,569.9	1.59	-1.59	0.00
11,704.0	90.00	89.80	8,233.3	218.1	3,626.6	3,632.9	1.11	-1.11	0.00
11,768.0	89.20	89.80	8,233.7	218.4	3,690.6	3,696.8	1.25	-1.25	0.00
11,831.0	88.00	90.50	8,235.2	218.2	3,753.6	3,759.7	2.20	-1.90	1.11
11,894.0	89.00	90.60	8,236.9	217.6	3,816.6	3,822.6	1.60	1.59	0.16
11,956.0	89.70	89.90	8,237.6	217.3	3,878.6	3,884.5	1.60	1.13	-1.13
12,020.0	90.00	89.60	8,237.8	217.6	3,942.6	3,948.4	0.66	0.47	-0.47
12,083.0	89.80	89.30	8,237.9	218.2	4,005.6	4,011.4	0.57	-0.32	-0.48
12,147.0	89.80	88.80	8,238.1	219.3	4,069.6	4,075.4	0.78	0.00	-0.78
12,210.0	89.80	88.00	8,238.3	221.0	4,132.6	4,138.4	1.27	0.00	-1.27
12,273.0	89.50	87.50	8,238.7	223.5	4,195.5	4,201.4	0.93	-0.48	-0.79
12,336.0	88.60	86.50	8,239.8	226.8	4,258.4	4,264.3	2.14	-1.43	-1.59
12,399.0	88.30	86.20	8,241.5	230.8	4,321.3	4,327.3	0.67	-0.48	-0.48
12,463.0	88.30	85.70	8,243.4	235.3	4,385.1	4,391.3	0.78	0.00	-0.78
12,526.0	88.00	85.10	8,245.4	240.4	4,447.8	4,454.2	1.06	-0.48	-0.95
12,590.0	88.10	84.80	8,247.6	246.0	4,511.5	4,518.1	0.49	0.16	-0.47

DDC
Survey Report

Wellbore #1 

Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Aries 20 Fed Com #4H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Site:	Sec 20-18S-30E	MD Reference:	WELL @ 3493.0usft (Patterson UTI #45)
Well:	Aries 20 Fed Com #4H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,633.0	88.10	84.40	8,249.0	250.1	4,554.3	4,561.0	0.93	0.00	-0.93
TD @ 12685' MD / 8251' TVD									
12,685.0	88.10	84.40	8,250.7	255.1	4,606.1	4,612.9	0.00	0.00	0.00

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,500.0	7,495.5	78.5	-85.6	TIE IN @ 7500' MD / 7500' TVD
8,003.0	7,979.1	106.7	-0.8	CROSSED HARD LINE @ 8003' MD / 7979' TVD
12,685.0	8,250.7	255.1	4,606.1	TD @ 12685' MD / 8251' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Aries 20 Fed Com #4H
 Eddy County, New Mexico
 Rig: Patterson UTI #45
 Created By: DINA CHANCE
 Date: 9/28/2012

Aries 20 Fed Com #4H
 Eddy County, New Mexico
 Q110838 & WT-12649
 Design #3

Well bore #1



Mewbourne Oil Company

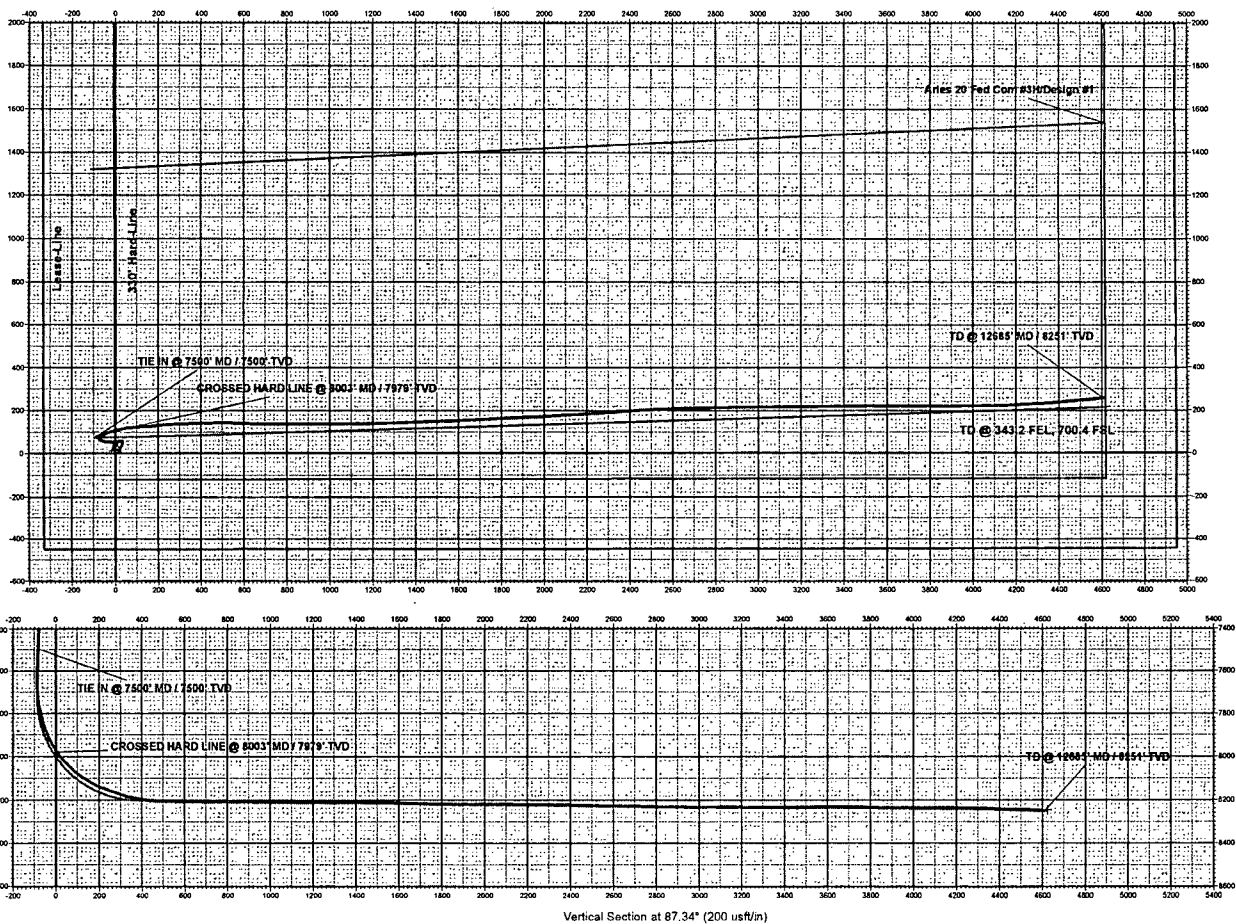
PROJECT DETAILS: Eddy County, New Mexico
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: Aries 20 Fed Com #4H					
+N-S	+E-W	Ground Level:	3475.0	Latitude	Longitude
0.0	0.0	Northing	628506.42	602162.932° 43' 36.733 N	104° 0' 4.160 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
PBHL Aries 20 Fed Com #4H 8248.0	214.9	4619.1	628521.32	606772.07	32° 43' 38.713 N	103° 59' 10.080 W
- plan hits target center						

ANNOTATIONS						
MD	Inc	Azi	TVD	+N-S	+E-W	VSec/Departure
7600.0	1.78	248.12	7495.5	78.5	-85.6	-81.9
8003.0	36.78	74.84	7979.1	108.7	-0.8	4.2
12686.0	88.10	84.40	8250.7	265.1	4606.1	4612.9
TD @ 12686' MD / 8251' TVD						

Azimuths to Grid North
 Magnetic North: 7.49°
 Magnetic Field
 Strength: 48750.2snT
 Dip Angle: 60.55°
 Date: 8/30/2012
 Model: IGRF2010



1c611 bore #1

Operating Company NEWMBOURNE OIL COMPANY
Well Name & Number ARIES 20 FED COM #4H
Sales Ticket Number 0
Date 9/28/2012

Company Rep RUSSEL BERRYMAN
Field SANTO NINO
BOT Service Rep CHARLES RAY MOSLEY
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse			
Casing	7.000	26.00	P-110	6.276	0.000	LT&C	0.03826	8,507.00	9,960	7,220			
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,352.43	12,410	10,680			
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-			
TVD		8,250.00		KOP		7,645.00	Open Hole		6.125	Casing Vol. (bbl)	317.1		
Carry Fluid Weight (ppg)		8.8		Proppant Content (ppa)					Max Drill Out Size		0		
	Comm. Number		Description			Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Disp (BBL)
Liner Top	1	10292414		JR Setting Sleeve/2RH Profile			8287.57	4.75	5.750	4.750			

Zone Length	H409400008	S3 Hyd Set Packer	8292.32	4.67	5.813	3.875		1670		
30		4-1/2-13.5 LTC Nipple	8296.99	8.11	5.000	3.920				
328.5		7 Joints of 4-1/2-13.5 LTC Casing	8305.10	269.50	5.000	3.920				
	H80970074	3.625 EX Frac Sleeve	8574.60	3.90	5.750		3.525	2375	309	321
		1 Joint of 4-1/2-13.5 LTC Casing	8578.50	38.38	5.000	3.920				
29	H409360008	Baker Open Hole Packer	8616.88	3.89	5.820	3.875		2154		
202.7		2 Joints of 4-1/2-13.5 LTC Casing	8620.77	76.82	5.000	3.920				
	H809490001	3.500 EX-C Frac Sleeve	8697.59	3.90	5.750		3.448	2375	295	323
		3 Joint of 4-1/2-13.5 LTC Casing	8701.49	114.16	5.000	3.920				
	H409360008	Baker Open Hole Packer	8815.65	3.89	5.820	3.875		2154		
28		2 Joints of 4-1/2-13.5 LTC Casing	8819.54	77.08	5.000	3.920				
165.5	H809490002	3.438 EX-C Frac Sleeve	8896.62	3.90	5.750		3.385	2375	285	326
		2 Joint of 4-1/2-13.5 LTC Casing	8900.52	76.72	5.000	3.920				
	H409360008	Baker Open Hole Packer	8977.24	3.89	5.820	3.875		2154		
27		1 Joints of 4-1/2-13.5 LTC Casing	8981.13	38.45	5.000	3.920				
126.4	H809490003	3.375 EX_C Frac Sleeve	9019.58	3.90	5.750		3.323	2375	274	328
		2 Joint of 4-1/2-13.5 LTC Casing	9023.48	76.28	5.000	3.920				
	H409360008	Baker Open Hole Packer	9099.76	3.89	5.820	3.875		2154		
26		1 Joints of 4-1/2-13.5 LTC Casing	9103.65	38.00	5.000	3.920				
88.08	H809490004	3.313 EX-C Frac Sleeve	9141.65	3.90	5.750		3.260	2375	264	330
		1 Joints of 4-1/2-13.5 LTC Casing	9145.55	38.40	5.000	3.920				
	H409360008	Baker Open Hole Packer	9183.95	3.89	5.820	3.875		2154		
25		2 Joints of 4-1/2-13.5 LTC Casing	9187.84	76.08	5.000	3.920				
125.9	H809490005	3.250 EX-C Frac Sleeve	9263.92	3.90	5.750		3.198	2375	254	332
		1 Joint of 4-1/2-13.5 LTC Casing	9267.82	38.10	5.000	3.920				
	H409360008	Baker Open Hole Packer	9305.92	3.89	5.820	3.875		2154		
24		2 Joints of 4-1/2-13.5 LTC Casing	9309.81	76.65	5.000	3.920				
163.6	H809490006	3.188 EX-C Frac Sleeve	9386.46	3.90	5.750		3.135	2375	244	333
		2 Joints of 4-1/2-13.5 LTC Casing	9390.36	75.27	5.000	3.920				
	H409360008	Baker Open Hole Packer	9465.63	3.89	5.820	3.875		2154		
23		2 Joints of 4-1/2-13.5 LTC Casing	9469.52	75.54	5.000	3.920				
164	H809490007	3.125 EX-C Frac Sleeve	9545.06	3.90	5.750		3.073	2375	235	336
		2 Joint of 4-1/2-13.5 LTC Casing	9548.96	76.80	5.000	3.920				
	H409360008	Baker Open Hole Packer	9625.76	3.89	5.820	3.875		2154		

Wellbore
#1

Operating Company NEWMBOURNE OIL COMPANY
Well Name & Number ARIES 20 FED COM #4H
Sales Ticket Number 0
Date 9/28/2012

Company Rep RUSSEL BERRYMAN
Field SANTO NINO
BOT Service Rep CHARLES RAY MOSLEY
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	8,507.00	9,960	7,220
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,352.43	12,410	10,680
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-
TVD	8,250.00		KOP		7,645.00		Open Hole	6.125	Casing Vol. (bbl)	317.1
Carry Fluid Weight (ppg)	8.8		Propant Content (ppa)				Max Drill Out Size		0	
	Comm. Number	Description	Depth	Length	OD	ID	Ball Seal ID	Shear Press	Max Rate (BPM)	Displ (BBL)
22		2 Joints of 4-1/2-13.5 LTC Casing	9629.65	76.49	5.000	3.920				
125.5	H809490008	3.063 EX-C Frac Sleeve	9706.14	3.90	5.750		3.010	2375	225	338
		1 Joints of 4-1/2-13.5 LTC Casing	9710.04	37.28	5.000	3.920				
	H409360008	Baker Open Hole Packer	9747.32	3.89	5.820	3.875		2154		
21		2 Joints of 4-1/2-13.5 LTC Casing	9751.21	74.69	5.000	3.920				
124.4	H809490009	3.000 EX-C Frac sleeve	9825.90	3.90	5.750		2.948	2375	216	340
		1 Joint of 4-1/2-13.5 LTC Casing	9829.80	38.03	5.000	3.920				
	H409360008	Baker Open Hole Packer	9867.83	3.89	5.820	3.875		2154		
20		2 Joints of 4-1/2-13.5 LTC Casing	9871.72	76.42	5.000	3.920				
164.2	H809490010	2.938 EX-C Frac Sleeve	9948.14	3.90	5.750		2.885	2375	207	342
		2 Joints of 4-1/2-13.5 LTC Casing	9952.04	76.05	5.000	3.920				
	H409360008	Baker Open Hole Packer	10028.09	3.89	5.820	3.875		2154		
19		2 Joint of 4-1/2-13.5 LTC Casing	10031.98	75.33	5.000	3.920				
163.4	H809490011	2.875 EX-C Frac Sleeve	10107.31	3.90	5.750		2.823	2375	198	344
		2 Joints of 4-1/2-13.5 LTC Casing	10111.21	76.37	5.000	3.920				
	H409360008	Baker Open Hole Packer	10187.58	3.89	5.820	3.875		2154		
18		2 Joint of 4-1/2-13.5 LTC Casing	10191.47	75.80	5.000	3.920				
125.6	H809490012	2.813 EX_C Frac Sleeve	10267.27	3.90	5.750		2.760	2375	189	347
		1 Joints of 4-1/2-13.5 LTC Casing	10271.17	38.07	5.000	3.920				
	H409360008	Baker Open Hole Packer	10309.24	3.89	5.820	3.875		2154		
17		2 Joint of 4-1/2-13.5 LTC Casing	10313.13	76.52	5.000	3.920				
165.4	H809490013	2.750 EX_C Frac Sleeve	10389.65	3.90	5.750		2.698	2375	181	348
		2 Joints of 4-1/2-13.5 LTC Casing	10393.55	77.20	5.000	3.920				
	H409360008	Baker Open Hole Packer	10470.75	3.89	5.820	3.875		2154		
16		1 Joint of 4-1/2-13.5 LTC Casing	10474.64	38.18	5.000	3.920				
126.2	H809490014	2.688 EX_C Frac Sleeve	10512.82	3.90	5.750		2.635	2375	173	350
		2 Joints of 4-1/2-13.5 LTC Casing	10516.72	76.37	5.000	3.920				
	H409360008	Baker Open Hole Packer	10593.09	3.89	5.820	3.875		2154		
15		2 Joints of 4-1/2-13.5 LTC Casing	10596.98	74.59	5.000	3.920				
163.7	H809490015	2.625 EX_C Frac Sleeve	10671.57	3.90	5.750		2.573	2375	165	353
		2 Joint of 4-1/2-13.5 LTC Casing	10675.47	77.45	5.000	3.920				
	H409360008	Baker Open Hole Packer	10752.92	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-13.5 LTC Casing	10756.81	73.86	5.000	3.920				
122.8	H809490016	2.563 EX_C Frac Sleeve	10830.67	3.90	5.750		2.510	2375	157	355
		1 Joints of 4-1/2-13.5 LTC Casing	10834.57	37.30	5.000	3.920				
	H409360008	Baker Open Hole Packer	10871.87	3.89	5.820	3.875		2154		
13		2 Joints of 4-1/2-13.5 LTC Casing	10875.76	76.61	5.000	3.920				
165.1	H809490017	2.500 EX_C Frac Sleeve	10952.37	3.90	5.750		2.448	2375	149	357

Well bore
#1

Operating Company MEWBOURNE OIL COMPANY
Well Name & Number ARIES 20 FED COM #4H
Sales Ticket Number 0

Company Rep RUSSEL BERRYMAN
Field SANTO NINO
BOT Service Rep CHARLES RAY MOSLEY
District Location Odessa, Texas, USA



Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing 7.000	26.00	P110	6.276	0.0	LT&C	0.03826	8,507.00	9,960	7,220
Top Liner 4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,352.43	12,410	10,680
Bott Liner 0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-
TVD	8,250.00	KOP	7,645.00	Open Hole	6.125	Casing Vol. (bbl)	317.1		
Carry Fluid Weight (ppg)	8.8	Propan Content (ppa)		Max Drill Out Size	0				

Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Disp (BBL)
	2 Joint of 4-1/2-13.5 LTC Casing	10956.27	76.81	5.000	3.920				
H409360008	Baker Open Hole Packer	11033.08	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11036.97	38.05	5.000	3.920				
H809490018	2.438 EX_C Frac Sleeve	11075.02	3.90	5.750		2.386	2375	141	359
	2 Joints of 4-1/2-13.5 LTC Casing	11078.92	74.49	5.000	3.920				
H409360008	Baker Open Hole Packer	11153.41	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	11157.30	75.92	5.000	3.920				
H809490019	2.375 EX_C Frac Sleeve	11233.22	3.90	5.750		2.323	2375	134	361
	2 Joint of 4-1/2-13.5 LTC Casing	11237.12	75.63	5.000	3.920				
H409360008	Baker Open Hole Packer	11312.75	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	11316.64	77.30	5.000	3.920				
H809490020	2.313 EX_C Frac Sleeve	11393.94	3.90	5.750		2.261	2375	127	363
	2 Joints of 4-1/2-13.5 LTC Casing	11397.84	75.56	5.000	3.920				
H409360008	Baker Open Hole Packer	11473.40	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11477.29	36.76	5.000	3.920				
H8098700	2.250 EX Frac Sleeve	11514.05	3.90	5.750		2.150	2286	113	365
	3 Joint of 4-1/2-13.5 LTC Casing	11517.95	112.68	5.000	3.920				
H409360008	Baker Open Hole Packer	11630.63	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	11634.52	81.18	5.000	3.920				
H809870042	2.125 EX Frac Sleeve	11715.70	3.90	5.750		2.025	2286	100	368
	2 Joint of 4-1/2-13.5 LTC Casing	11719.60	76.40	5.000	3.920				
H409360008	Baker Open Hole Packer	11796.00	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11799.89	43.55	5.000	3.920				
H809870088	2.000 EX Frac Sleeve	11843.44	3.90	5.750		1.900	2286	88	370
	2 Joints of 4-1/2-13.5 LTC Casing	11847.34	86.79	5.000	3.920				
H409360008	Baker Open Hole Packer	11934.13	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11938.02	37.81	5.000	3.920				
H809870087	1.875 EX Frac Sleeve	11975.83	3.90	5.750		1.775	2286	77	372
	2 Joint of 4-1/2-13.5 LTC Casing	11979.73	75.86	5.000	3.920				
H409360008	Baker Open Hole Packer	12055.59	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	12059.48	38.41	5.000	3.920				
H809870086	1.750 EX Frac Sleeve	12097.89	3.90	5.750		1.650	2286	66	374
	2 Joint of 4-1/2-13.5 LTC Casing	12101.79	76.84	5.000	3.920				
H409360008	Baker Open Hole Packer	12178.63	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	12182.52	43.57	5.000	3.920				
H809870085	1.625 EX Frac Sleeve	12226.09	3.90	5.750		1.525	2286	57	376
	2 Joints of 4-1/2-13.5 LTC Casing	12229.99	76.76	5.000	3.920				
H409360008	Baker Open Hole Packer	12306.75	3.89	5.820	3.875		2154		

[illegible]