JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
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(505) 982-2151 (Fax)

jamesbruc@aol.com

May 18, 2014

Michael McMillan
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. McMillan:

Pursuant to NMAC 19.15.15.13, Mewbourne Oil Company applies for approval of an unorthodox oil well location for the following well:

Well:	Mad Dog State Com. Well No. 1H
Surface location:	150 feet FNL & 2180 feet FEL
Projected bottom hole location:	330 feet FNL & 1650 feet FEL
Well unit (project area):	W½E½ of Section 35, Township 23 South, Range 34 East, N.M.P.M., Lea County, New Mexico

The well was drilled to a depth sufficient to test the Bone Spring formation (Antelope Ridge-Bone Spring Pool). The pool is spaced on 40 acres, with wells to be located no closer than 330 feet to a quarter-quarter section line. A Form C-102 is attached as Exhibit A.

The actual bottom hole location is 400 feet FSL and 1588 feet FEL. The Division's Hobbs Office has determined that the last 500 feet of the lateral was closer than 1650 feet FEL of Section 35, and thus unorthodox location approval is required.

Attached as Exhibit B is a Midland Map Co. plat. The well unit is comprised of two state leases: Lease V-8253 covering the N½ of Section 35, and Lease V-8275 covering the S½ of Section 35. The well unit and all offsetting acreage has the same ownership. Thus, there is no adversely affected party, and notice of this application has not been given to any offsets.

Please contact me if you need any further information on this application.

Very truly yours,

James Bruce

Attorney for Mewbourne Oil Company

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

HOBBS OCD
MAY 20 2014
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-40981	2200	Antelope Ridge; Bone Spring

Property Code	Property Name	Well Number
39669	MAD DOG 35 BO STATE COM	1H

OGRID No.	Operator Name	Elevation
14744	MEWBOURNE OIL COMPANY	3426

Surface Location

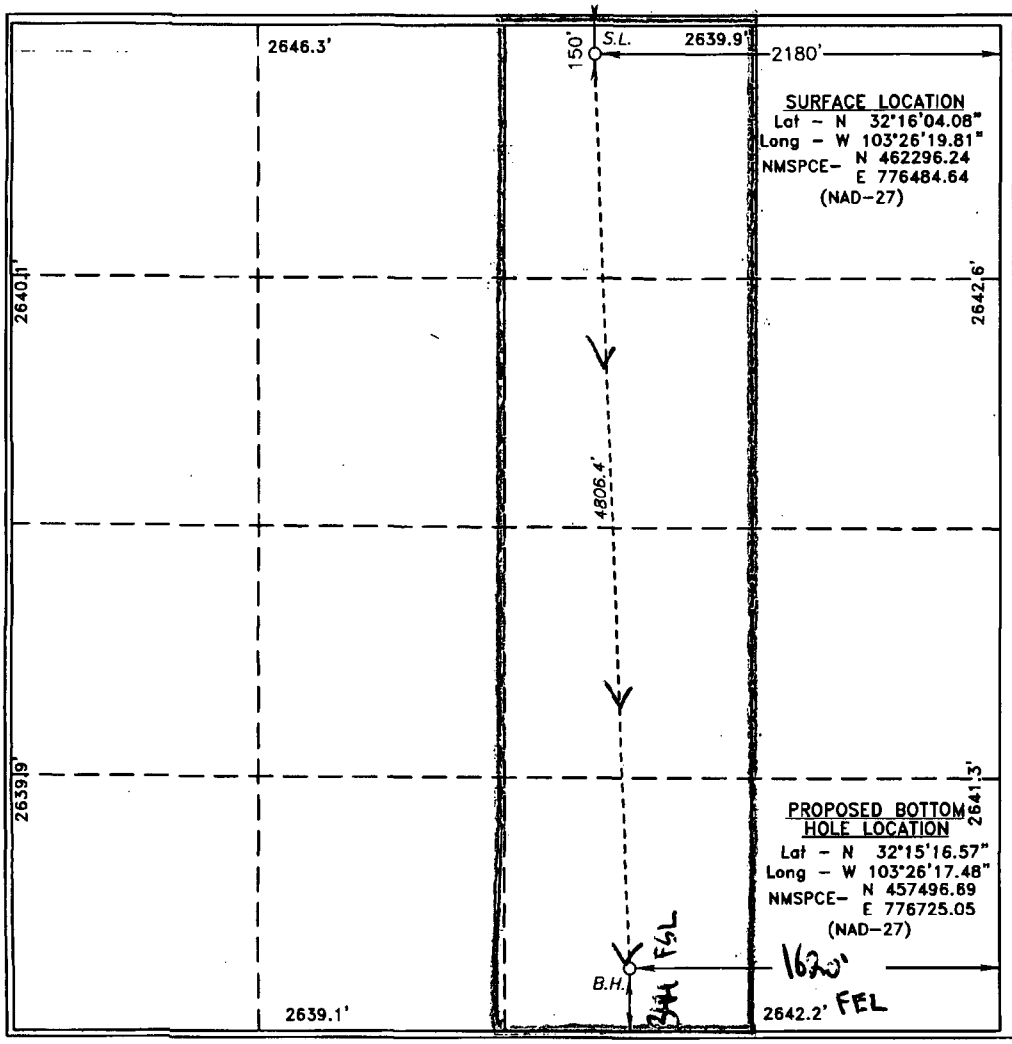
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	35	23 S	34 E		150	NORTH	2180	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	23 S	34 E		~~344~~ 345	SOUTH	~~1620~~ 1582	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jackie Lathan 5/8/14
Signature Date

Jackie Lathan
Printed Name

Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL SURVEYOR

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 27947

MAY 27 2014

Results of Directional Survey

API number:	30-025-40981			
OGRID:		Operator:	MEWBOURNE OIL CO	
		Property:	MAD DOG 35 BO STATE COM	# 1H

surface	ULSTR:	B	35	T	23S	R	34E
				150	FNL	2180	FEL
BH Loc	ULSTR:	O	35	T	23S	R	34E
16150 MD		11350.1 TVD		345	FSL	1582	FEL
				4935	FNL		
Top Perf/OH	ULSTR:	B	35	T	23S	R	34E
11790 MD		11419.6 TVD		612	FNL	2094	FEL
Bot Perf/OH	ULSTR:	O	35	T	23S	R	34E
16095 MD		11352.6 TVD		400	FSL	1588	FEL
				4880	FNL		

	MD	N/S	E/W	VD
	11715	-387.10	87.70	11415.1
TOP PERFS/OH	**11790**	-462.00	86.40	11419.60
	11790	-462.00	86.40	11419.60
	16031	-4666.50	584.80	11355.40
BOT PERFS/OH	**16095**	-4730.02	591.87	11352.63
	16098	-4733.00	592.20	11352.50

NEXT TO LAST	16098	-4733.00	592.20	11352.50
LAST READING	16150	-4784.60	598.40	11350.10
TD	**16150**	-4784.60	598.40	11350.10

Surface Location	150	FN	2180	FE
Projected BHL	4935	FN	1582	FE
Location of				
Top Perfs/OH	612	FN	2094	FE
Bottom Perfs/OH	4880	FN	1588	FE

SUMMARY of Subsurface Locations

Surface Location	B-35-23S-34E	150	FN	2180	FE	Vert. Depth
Top Perfs/OH	B-35-23S-34E	612	FN	2094	FE	11419.60
Bottom Perfs/OH	O-35-23S-34E	4880	FN	1588	FE	11352.63
Projected TD	O-35-23S-34E	4935	FN	1582	FE	11350.10

MAY 27 2014

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011

Permit 161576

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-40981	2200	ANTELOPE RIDGE;BONE SPRING

4. Property Code	5. Property Name	6. Well No.
39669	MAD DOG 35 BO STATE COM	001H

7. OGRID No.	8. Operator Name	9. Elevation
14744	MEWBOURNE OIL CO	3426

10. Surface Location

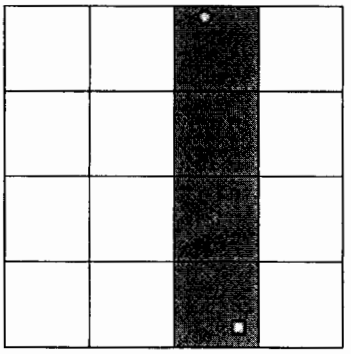
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	35	23S	34E		150	N	2180	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	35	23S	34E	O	330	S	1650	E	LEA

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
160.00			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

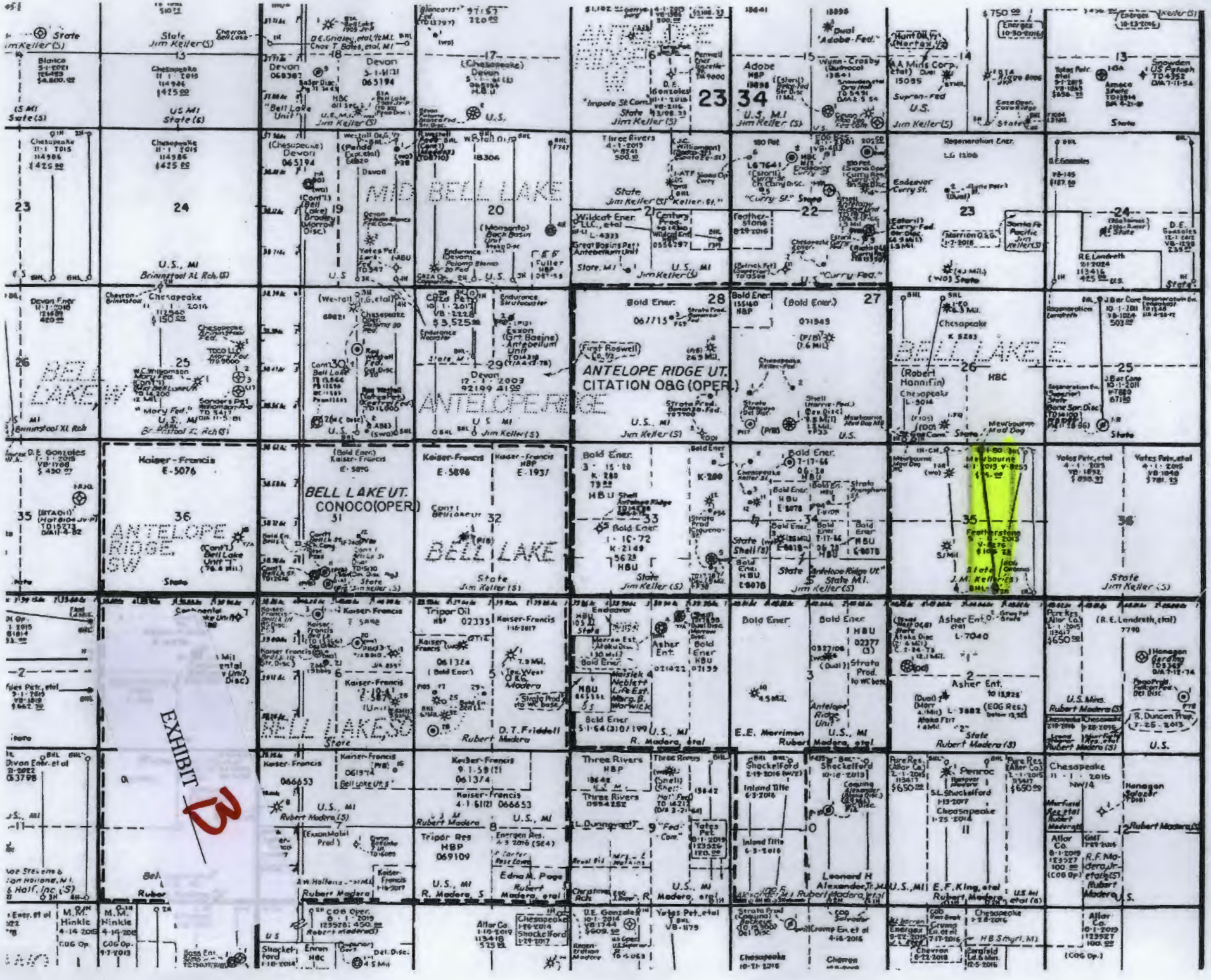
E-Signed By: Monty Whetstone
Title: Vice President Operations
Date: 1/30/2013

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gary Jones
Date of Survey: 1/15/2013
Certificate Number: 7977

EXHIBIT A


T
23
S
BELL LAKE
ANTELOPE RIDGE
ANTELOPE RIDGE UT.
CITATION O&G (OPER.)
BELL LAKE UT.
CONOCO(OPER)
ANTELOPE RIDGE SW
BELL LAKE SE
EXHIBIT 3

Mewbourne Oil Company .

Lea County N.M.
Section 35-23S-34E Mad Dog 35 BO State Com #1H
Mad Dog 35 BO State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

05 May, 2014

Stryker Directional
Survey Report

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

Project	Lea County N.M.		
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	Section 35-23S-34E Mad Dog 35 BO State Com #1H				
Site Position:		**Northing:**	462,296.24 usft	**Latitude:**	32° 16' 4.086 N
From:	Map	**Easting:**	776,484.64 usft	**Longitude:**	103° 26' 19.818 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.48 °

Well	Mad Dog 35 BO State Com #1H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	462,296.24 usft	**Latitude:**	32° 16' 4.086 N
	+E/-W	0.0 usft	**Easting:**	776,484.64 usft	**Longitude:**	103° 26' 19.818 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,426.0 usft

Wellbore	Original Hole

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	3/7/2014	7.19	60.18	48,384

Design	Original Hole				
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	173.17

Survey Program **Date** 5/5/2014

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
100.0	10,700.0	VES Gryo Survey #1 (Original Hole)	GyroFlex	
10,818.0	16,150.0	MWD Survey #2 (Original Hole)	MWD	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	0.38	317.85	100.0	0.2	-0.2	-0.3	0.38	0.38	0.00
200.0	0.29	346.20	200.0	0.7	-0.5	-0.8	0.19	-0.09	28.35
300.0	0.44	5.46	300.0	1.4	-0.5	-1.4	0.19	0.15	19.26
400.0	1.03	33.75	400.0	2.5	0.0	-2.5	0.68	0.59	28.29
500.0	1.14	27.63	500.0	4.1	1.0	-4.0	0.16	0.11	-6.12
600.0	1.58	42.63	599.9	6.0	2.4	-5.7	0.56	0.44	15.00
700.0	1.70	21.52	699.9	8.4	3.8	-7.9	0.61	0.12	-21.11
800.0	1.75	32.32	799.9	11.1	5.2	-10.4	0.33	0.05	10.80

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

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)
900.0	1.89	38.20	899.8	13.7	7.0	-12.7	0.23	0.14	5.88
1,000.0	1.89	47.76	999.8	16.1	9.3	-14.9	0.31	0.00	9.56
1,100.0	2.11	45.34	1,099.7	18.5	11.8	-16.9	0.24	0.22	-2.42
1,200.0	2.51	23.07	1,199.6	21.8	14.0	-20.0	0.97	0.40	-22.27
1,300.0	2.78	21.07	1,299.5	26.1	15.7	-24.0	0.29	0.27	-2.00
1,400.0	2.97	38.32	1,399.4	30.4	18.2	-28.0	0.88	0.19	17.25
1,500.0	2.96	34.48	1,499.2	34.5	21.3	-31.7	0.20	-0.01	-3.84
1,600.0	3.20	29.92	1,599.1	39.1	24.1	-35.9	0.34	0.24	-4.56
1,700.0	3.43	24.25	1,698.9	44.2	26.7	-40.7	0.40	0.23	-5.67
1,800.0	3.76	23.62	1,798.7	49.9	29.3	-46.1	0.33	0.33	-0.63
1,900.0	3.98	17.88	1,898.5	56.3	31.6	-52.1	0.45	0.22	-5.74
2,000.0	4.15	20.72	1,998.3	62.9	34.0	-58.5	0.26	0.17	2.84
2,100.0	4.74	20.98	2,098.0	70.2	36.8	-65.3	0.59	0.59	0.26
2,200.0	5.07	26.63	2,197.6	78.0	40.2	-72.7	0.58	0.33	5.65
2,300.0	5.42	25.54	2,297.2	86.2	44.2	-80.3	0.36	0.35	-1.09
2,400.0	5.67	34.95	2,396.7	94.5	49.1	-88.0	0.94	0.25	9.41
2,500.0	5.89	28.45	2,496.2	103.1	54.4	-95.9	0.69	0.22	-6.50
2,600.0	5.99	27.70	2,595.7	112.2	59.2	-104.4	0.13	0.10	-0.75
2,700.0	5.92	26.93	2,695.1	121.4	64.0	-112.9	0.11	-0.07	-0.77
2,800.0	5.86	22.12	2,794.6	130.7	68.3	-121.7	0.50	-0.06	-4.81
2,900.0	5.64	24.74	2,894.1	139.9	72.2	-130.4	0.34	-0.22	2.62
3,000.0	5.32	22.97	2,993.6	148.7	76.1	-138.6	0.36	-0.32	-1.77
3,100.0	5.24	32.82	3,093.2	156.8	80.4	-146.1	0.91	-0.08	9.85
3,200.0	4.43	34.36	3,192.9	163.8	85.0	-152.5	0.82	-0.81	1.54
3,300.0	3.46	33.44	3,292.6	169.5	88.9	-157.7	0.97	-0.97	-0.92
3,400.0	2.91	43.50	3,392.5	173.9	92.3	-161.7	0.78	-0.55	10.06
3,500.0	1.96	50.21	3,492.4	176.8	95.4	-164.2	0.99	-0.95	6.71
3,600.0	1.03	64.89	3,592.3	178.3	97.5	-165.4	1.00	-0.93	14.68
3,700.0	1.56	90.96	3,692.3	178.6	99.7	-165.5	0.78	0.53	26.07
3,800.0	2.33	93.35	3,792.3	178.5	103.0	-165.0	0.77	0.77	2.39
3,900.0	2.62	94.89	3,892.2	178.2	107.4	-164.2	0.30	0.29	1.54
4,000.0	2.62	92.92	3,992.1	177.9	111.9	-163.3	0.09	0.00	-1.97
4,100.0	2.53	92.99	4,092.0	177.6	116.4	-162.5	0.09	-0.09	0.07
4,200.0	2.40	109.42	4,191.9	176.8	120.6	-161.2	0.72	-0.13	16.43
4,300.0	3.21	105.92	4,291.7	175.4	125.2	-159.2	0.83	0.81	-3.50
4,400.0	4.19	104.06	4,391.5	173.7	131.5	-156.8	0.99	0.98	-1.86
4,500.0	4.06	102.03	4,491.3	172.1	138.5	-154.4	0.20	-0.13	-2.03
4,600.0	3.98	101.28	4,591.0	170.7	145.4	-152.2	0.10	-0.08	-0.75
4,700.0	3.75	105.95	4,690.8	169.1	151.9	-149.8	0.39	-0.23	4.67
4,800.0	3.31	107.88	4,790.6	167.3	157.8	-147.4	0.46	-0.44	1.93
4,900.0	2.55	101.03	4,890.5	166.0	162.7	-145.5	0.84	-0.76	-6.85
5,000.0	2.20	102.29	4,990.4	165.2	166.8	-144.2	0.35	-0.35	1.26

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

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)
5,100.0	1.49	116.50	5,090.3	164.2	169.8	-142.8	0.84	-0.71	14.21
5,200.0	1.04	129.97	5,190.3	163.0	171.7	-141.4	0.54	-0.45	13.47
5,300.0	1.04	134.39	5,290.3	161.8	173.0	-140.1	0.08	0.00	4.42
5,400.0	0.92	134.65	5,390.3	160.6	174.2	-138.7	0.12	-0.12	0.26
5,500.0	0.96	132.12	5,490.3	159.5	175.4	-137.5	0.06	0.04	-2.53
5,600.0	0.81	129.43	5,590.3	158.5	176.6	-136.3	0.16	-0.15	-2.69
5,700.0	0.59	133.88	5,690.3	157.6	177.5	-135.4	0.23	-0.22	4.45
5,800.0	0.39	111.23	5,790.3	157.2	178.2	-134.9	0.27	-0.20	-22.65
5,900.0	0.26	125.69	5,890.2	156.9	178.7	-134.5	0.15	-0.13	14.46
6,000.0	0.62	124.31	5,990.2	156.5	179.3	-134.0	0.36	0.36	-1.38
6,100.0	0.15	104.75	6,090.2	156.1	179.9	-133.6	0.48	-0.47	-19.56
6,200.0	0.36	112.17	6,190.2	156.0	180.3	-133.4	0.21	0.21	7.42
6,300.0	0.57	93.70	6,290.2	155.8	181.1	-133.2	0.26	0.21	-18.47
6,400.0	0.59	58.41	6,390.2	156.1	182.1	-133.3	0.35	0.02	-35.29
6,500.0	0.57	92.16	6,490.2	156.3	183.0	-133.5	0.34	-0.02	33.75
6,600.0	0.76	74.20	6,590.2	156.5	184.1	-133.5	0.28	0.19	-17.96
6,700.0	0.55	50.32	6,690.2	157.0	185.1	-133.8	0.34	-0.21	-23.88
6,800.0	0.77	75.86	6,790.2	157.4	186.2	-134.2	0.36	0.22	25.54
6,900.0	0.30	78.94	6,890.2	157.7	187.1	-134.3	0.47	-0.47	3.08
7,000.0	0.48	69.97	6,990.2	157.8	187.7	-134.4	0.19	0.18	-8.97
7,100.0	0.62	67.92	7,090.2	158.2	188.6	-134.6	0.14	0.14	-2.05
7,200.0	0.39	116.05	7,190.2	158.3	189.4	-134.6	0.46	-0.23	48.13
7,300.0	0.71	75.67	7,290.2	158.3	190.3	-134.5	0.48	0.32	-40.38
7,400.0	0.44	93.76	7,390.2	158.4	191.3	-134.5	0.32	-0.27	18.09
7,500.0	0.47	82.47	7,490.2	158.4	192.1	-134.4	0.09	0.03	-11.29
7,600.0	0.42	82.12	7,590.2	158.5	192.9	-134.5	0.05	-0.05	-0.35
7,700.0	0.34	73.91	7,690.2	158.6	193.5	-134.5	0.10	-0.08	-8.21
7,800.0	0.72	63.61	7,790.2	159.0	194.4	-134.8	0.39	0.38	-10.30
7,900.0	0.41	333.82	7,890.2	159.6	194.8	-135.3	0.83	-0.31	-89.79
8,000.0	0.39	343.55	7,990.2	160.3	194.5	-136.0	0.07	-0.02	9.73
8,100.0	0.60	324.92	8,090.2	161.0	194.1	-136.8	0.26	0.21	-18.63
8,200.0	0.23	325.64	8,190.2	161.6	193.7	-137.4	0.37	-0.37	0.72
8,300.0	0.45	292.37	8,290.2	161.9	193.2	-137.8	0.29	0.22	-33.27
8,400.0	0.64	329.26	8,390.2	162.6	192.6	-138.5	0.39	0.19	36.89
8,500.0	0.31	338.40	8,490.2	163.3	192.2	-139.3	0.34	-0.33	9.14
8,600.0	0.79	314.70	8,590.1	164.0	191.6	-140.1	0.52	0.48	-23.70
8,700.0	0.79	289.57	8,690.1	164.7	190.5	-140.9	0.34	0.00	-25.13
8,800.0	0.72	285.78	8,790.1	165.1	189.2	-141.5	0.09	-0.07	-3.79
8,900.0	0.68	293.05	8,890.1	165.5	188.1	-142.0	0.10	-0.04	7.27
9,000.0	0.57	317.74	8,990.1	166.1	187.2	-142.7	0.29	-0.11	24.69
9,100.0	0.68	309.18	9,090.1	166.9	186.4	-143.5	0.14	0.11	-8.56
9,200.0	0.55	290.25	9,190.1	167.4	185.5	-144.2	0.24	-0.13	-18.93
9,300.0	1.44	277.46	9,290.1	167.8	183.8	-144.7	0.91	0.89	-12.79

Stryker Directional
Survey Report

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

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)
9,400.0	2.16	274.81	9,390.0	168.1	180.7	-145.4	0.72	0.72	-2.65
9,500.0	3.12	269.58	9,489.9	168.2	176.1	-146.1	0.99	0.96	-5.23
9,600.0	3.37	271.20	9,589.8	168.3	170.4	-146.8	0.27	0.25	1.62
9,700.0	3.01	268.50	9,689.6	168.2	164.8	-147.5	0.39	-0.36	-2.70
9,800.0	2.83	280.65	9,789.5	168.6	159.8	-148.4	0.64	-0.18	12.15
9,900.0	3.07	276.12	9,889.4	169.4	154.7	-149.8	0.33	0.24	-4.53
10,000.0	2.28	272.89	9,989.2	169.8	150.0	-150.7	0.80	-0.79	-3.23
10,100.0	1.54	256.27	10,089.2	169.5	146.8	-150.9	0.92	-0.74	-16.62
10,200.0	1.03	223.88	10,189.2	168.6	144.8	-150.2	0.87	-0.51	-32.39
10,300.0	1.93	211.27	10,289.1	166.5	143.3	-148.3	0.95	0.90	-12.61
10,400.0	1.58	206.32	10,389.1	163.8	141.8	-145.8	0.38	-0.35	-4.95
10,500.0	1.71	207.29	10,489.0	161.3	140.5	-143.4	0.13	0.13	0.97
10,600.0	1.72	215.69	10,589.0	158.7	139.0	-141.1	0.25	0.01	8.40
10,700.0	2.14	240.52	10,688.9	156.6	136.5	-139.2	0.93	0.42	24.83
10700' MD VES Gryo									
10,818.0	3.20	204.60	10,806.8	152.5	133.2	-135.6	1.64	0.90	-30.44
10,850.0	4.80	199.40	10,838.7	150.4	132.4	-133.6	5.12	5.00	-16.25
10,881.0	7.40	193.60	10,869.6	147.3	131.5	-130.6	8.61	8.39	-18.71
10,913.0	10.60	192.20	10,901.2	142.4	130.4	-125.9	10.02	10.00	-4.38
10,945.0	12.90	194.60	10,932.5	136.0	128.8	-119.7	7.35	7.19	7.50
10,977.0	15.20	197.10	10,963.5	128.6	126.7	-112.6	7.43	7.19	7.81
11,008.0	18.40	198.50	10,993.2	120.0	124.0	-104.4	10.40	10.32	4.52
11,041.0	20.80	198.70	11,024.3	109.6	120.4	-94.5	7.28	7.27	0.61
11,072.0	23.50	201.30	11,053.0	98.6	116.4	-84.0	9.26	8.71	8.39
11,104.0	25.10	198.80	11,082.2	86.2	111.9	-72.3	5.94	5.00	-7.81
11,136.0	26.10	193.70	11,111.0	72.9	108.1	-59.6	7.56	3.13	-15.94
11,167.0	28.50	190.60	11,138.6	59.0	105.1	-46.1	9.00	7.74	-10.00
11,199.0	31.70	189.00	11,166.3	43.2	102.4	-30.8	10.31	10.00	-5.00
11,231.0	35.40	187.10	11,192.9	25.7	99.9	-13.7	12.02	11.56	-5.94
11,262.0	39.30	185.50	11,217.6	7.0	97.9	4.7	12.96	12.58	-5.16
11,294.0	43.40	183.70	11,241.6	-14.0	96.2	25.4	13.34	12.81	-5.63
11,326.0	47.70	182.30	11,264.0	-36.8	95.0	47.9	13.80	13.44	-4.38
11,357.0	50.70	181.80	11,284.2	-60.3	94.2	71.1	9.75	9.68	-1.61
11,389.0	52.80	181.10	11,304.0	-85.4	93.5	95.9	6.78	6.56	-2.19
11,421.0	55.70	181.10	11,322.7	-111.4	93.0	121.6	9.06	9.06	0.00
11,452.0	59.50	180.90	11,339.3	-137.5	92.6	147.6	12.27	12.26	-0.65
11,484.0	63.70	180.20	11,354.6	-165.7	92.3	175.5	13.27	13.13	-2.19
11,516.0	67.00	179.90	11,367.9	-194.8	92.3	204.4	10.35	10.31	-0.94
11,547.0	69.60	180.20	11,379.4	-223.6	92.2	232.9	8.44	8.39	0.97
11,579.0	73.00	181.30	11,389.6	-253.9	91.8	263.0	11.11	10.63	3.44
11,611.0	76.10	182.00	11,398.2	-284.7	91.0	293.5	9.91	9.69	2.19
11,643.0	79.10	182.10	11,405.0	-315.9	89.8	324.4	9.38	9.38	0.31

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

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)
11,674.0	81.50	182.00	11,410.2	-346.5	88.7	354.6	7.75	7.74	-0.32
11,706.0	84.20	180.90	11,414.2	-378.2	87.9	386.0	9.10	8.44	-3.44
11,715.0	84.60	181.60	11,415.1	-387.1	87.7	394.8	8.93	4.44	7.78
11,790.0	88.50	180.40	11,419.6	-462.0	86.4	469.0	5.44	5.20	-1.60
11,813.4	89.60	180.55	11,420.0	-485.4	86.3	492.2	4.73	4.69	0.63
LP Mad Dog 35 BO State Com #1H									
11,822.0	90.00	180.60	11,420.0	-494.0	86.2	500.7	4.73	4.69	0.62
11,853.0	89.60	180.40	11,420.1	-525.0	85.9	531.5	1.44	-1.29	-0.65
11,948.0	89.80	178.40	11,420.6	-620.0	86.9	625.9	2.12	0.21	-2.11
12,043.0	94.40	177.60	11,417.2	-714.8	90.2	720.5	4.91	4.84	-0.84
12,137.0	92.70	176.20	11,411.3	-808.5	95.3	814.1	2.34	-1.81	-1.49
12,232.0	87.80	174.90	11,410.9	-903.2	102.6	909.0	5.34	-5.16	-1.37
12,327.0	87.80	172.60	11,414.6	-997.5	113.0	1,003.9	2.42	0.00	-2.42
12,423.0	88.00	173.40	11,418.1	-1,092.8	124.7	1,099.8	0.86	0.21	0.83
12,517.0	89.30	172.30	11,420.3	-1,186.0	136.4	1,193.8	1.81	1.38	-1.17
12,612.0	92.00	173.00	11,419.2	-1,280.2	148.5	1,288.8	2.94	2.84	0.74
12,708.0	90.40	170.40	11,417.2	-1,375.2	162.4	1,384.7	3.18	-1.67	-2.71
12,802.0	92.60	170.90	11,414.8	-1,467.9	177.6	1,478.6	2.40	2.34	0.53
12,897.0	92.00	170.90	11,410.9	-1,561.6	192.6	1,573.4	0.63	-0.63	0.00
12,992.0	90.80	169.70	11,408.6	-1,655.2	208.7	1,668.3	1.79	-1.26	-1.26
13,087.0	93.50	173.00	11,405.1	-1,749.0	222.9	1,763.1	4.49	2.84	3.47
13,182.0	92.10	174.10	11,400.4	-1,843.3	233.6	1,858.0	1.87	-1.47	1.16
13,277.0	93.60	174.90	11,395.7	-1,937.8	242.7	1,952.9	1.79	1.58	0.84
13,372.0	91.40	175.30	11,391.6	-2,032.3	250.8	2,047.7	2.35	-2.32	0.42
13,467.0	90.90	175.50	11,389.6	-2,127.0	258.4	2,142.6	0.57	-0.53	0.21
13,562.0	89.90	174.60	11,389.0	-2,221.6	266.6	2,237.6	1.42	-1.05	-0.95
13,657.0	91.30	173.40	11,388.0	-2,316.1	276.5	2,332.6	1.94	1.47	-1.26
13,752.0	90.40	172.30	11,386.6	-2,410.4	288.4	2,427.5	1.50	-0.95	-1.16
13,847.0	93.00	173.90	11,383.8	-2,504.6	299.8	2,522.5	3.21	2.74	1.68
13,942.0	92.00	173.00	11,379.6	-2,598.9	310.6	2,617.4	1.42	-1.05	-0.95
14,037.0	89.70	170.50	11,378.2	-2,692.9	324.2	2,712.3	3.58	-2.42	-2.63
14,132.0	89.80	169.50	11,378.6	-2,786.5	340.7	2,807.2	1.06	0.11	-1.05
14,227.0	88.50	168.10	11,380.0	-2,879.6	359.2	2,901.9	2.01	-1.37	-1.47
14,322.0	90.30	169.70	11,381.0	-2,972.8	377.4	2,996.6	2.53	1.89	1.68
14,417.0	90.10	168.30	11,380.7	-3,066.1	395.6	3,091.4	1.49	-0.21	-1.47
14,512.0	92.20	170.00	11,378.8	-3,159.4	413.5	3,186.1	2.84	2.21	1.79
14,607.0	91.80	168.80	11,375.5	-3,252.7	430.9	3,280.9	1.33	-0.42	-1.26
14,702.0	91.40	170.40	11,372.8	-3,346.1	448.1	3,375.6	1.74	-0.42	1.68
14,796.0	90.00	168.30	11,371.7	-3,438.5	465.4	3,469.4	2.68	-1.49	-2.23
14,891.0	91.50	171.20	11,370.4	-3,531.9	482.3	3,564.2	3.44	1.58	3.05
14,987.0	92.40	175.50	11,367.2	-3,627.2	493.4	3,660.1	4.57	0.94	4.48
15,082.0	93.20	175.10	11,362.5	-3,721.8	501.2	3,755.0	0.94	0.84	-0.42
15,177.0	93.50	176.90	11,357.0	-3,816.4	507.8	3,849.7	1.92	0.32	1.89

Stryker Directional
Survey Report

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	**TVD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	**MD Reference:**	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

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)
15,272.0	91.30	176.30	11,353.0	-3,911.1	513.5	3,944.4	2.40	-2.32	-0.63
15,303.0	90.60	175.80	11,352.5	-3,942.0	515.6	3,975.4	2.77	-2.26	-1.61
15,335.0	89.50	174.10	11,352.4	-3,973.9	518.4	4,007.4	6.33	-3.44	-5.31
15,366.0	88.80	172.30	11,352.9	-4,004.7	522.1	4,038.3	6.23	-2.26	-5.81
15,461.0	89.10	174.40	11,354.6	-4,099.0	533.1	4,133.3	2.23	0.32	2.21
15,556.0	88.80	176.00	11,356.4	-4,193.7	541.0	4,228.2	1.71	-0.32	1.68
15,651.0	88.40	174.80	11,358.7	-4,288.3	548.6	4,323.1	1.33	-0.42	-1.26
15,746.0	89.10	174.20	11,360.8	-4,382.9	557.7	4,418.1	0.97	0.74	-0.63
15,841.0	90.10	174.90	11,361.4	-4,477.4	566.8	4,513.1	1.28	1.05	0.74
15,936.0	92.40	174.60	11,359.4	-4,572.0	575.5	4,608.0	2.44	2.42	-0.32
16,031.0	92.40	174.10	11,355.4	-4,666.5	584.8	4,702.9	0.53	0.00	-0.53
16,098.0	92.60	173.20	11,352.5	-4,733.0	592.2	4,769.8	1.37	0.30	-1.34
16,150.0	92.60	173.20	11,350.1	-4,784.6	598.4	4,821.8	0.00	0.00	0.00

16150' MD Projected to Bit - PBHL Mad Dog 35 BO State Com #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,700.0	10,688.9	156.6	136.5	10700' MD VES Gryo
16,150.0	11,350.1	-4,784.6	598.4	16150' MD Projected to Bit

McMillan, Michael, EMNRD

From: Kautz, Paul, EMNRD
Sent: Thursday, May 22, 2014 2:44 PM
To: McMillan, Michael, EMNRD
Subject: RE: Mewbourne Mad Dog 35 State Com #1H API 30-025-40981

Hi Mike,

[2200] ANTELOPE RIDGE;BONE SPRING

Status: New, Not Drilled

Last Produced:
Bottomhole Location: O-35-23S-34E 330 FSL 1650 FEL
Lat/Long: 0 0
Acreage:160 35-23S-34E Units: B G J O

Paul

From: McMillan, Michael, EMNRD
Sent: Thursday, May 22, 2014 1:13 PM
To: Kautz, Paul, EMNRD
Subject: Mewbourne Mad Dog 35 State Com #1H API 30-025-40981

Paul:
Can you tell me the pool for the Mewbourne Mad Dog 35 State Com #1H API 30-025-40981 Surface: Unit B Section 35 23S34E

BHL: Unit O

Section 35 23S34E
Thanks
Mike