

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

State of New Mexico
Energy, Minerals and Natural Resources Department

HOBBS OCD

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40982	Pool Code 2200	Pool Name Antelope Ridge; Bone Spring
Property Code 39670	Property Name MAD DOG 35 CN STATE COM	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3449

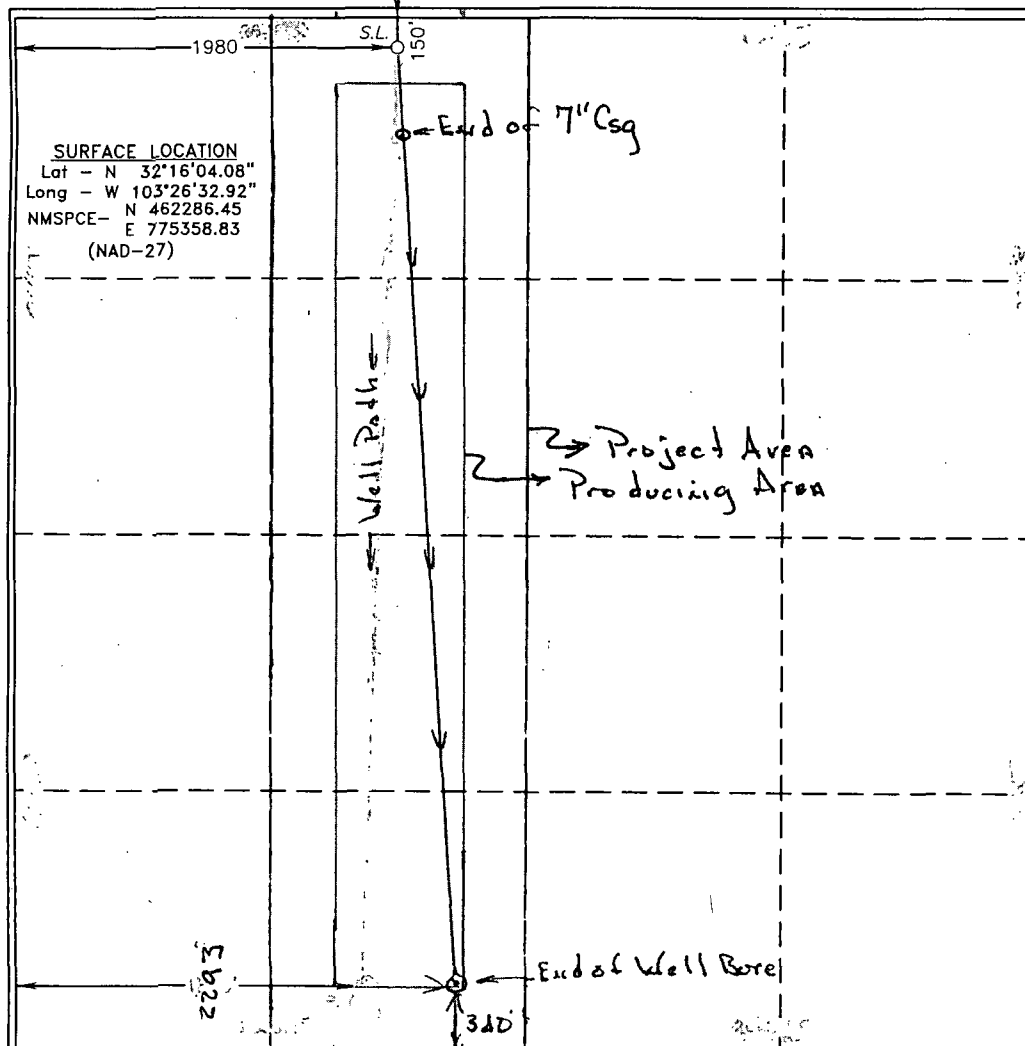
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	23 S	34 E		150	NORTH	1980	WEST	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
N	35	23 S	34 E		340	SOUTH	2293	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No. 373				2332		

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.

Signature: [Signature] Date: 7/11/13

Printed Name: N. M. Young

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 supervision, and that the same is true and correct to the best of my belief.

Date Surveyed JANUARY 2013	Signature [Signature]
Professional Surveyor 7977	Basin No. 27946
Certificate No. Gary L. Jones	7977
BASIN SURVEYS 27946	

JUL 17 2013

HOBBSON
JUL 12 2013
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Mewbourne Oil Co

Lea County, NM

Sec 35, T23S, R34E

Mad Dog 35 CN State Com 1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

24 June, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mad Dog 35 CN State Com 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3469.0usft (Trinidad #110)
Site:	Sec 35, T23S, R34E	MD Reference:	WELL @ 3469.0usft (Trinidad #110)
Well:	Mad Dog 35 CN State Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM		
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 35, T23S, R34E		
Site Position:		Northing:	462,286.45 usft
From:	Map	Easting:	775,358.83 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 4.082 N
		Longitude:	103° 26' 32.929 W
		Grid Convergence:	0.48 °

Well	Mad Dog 35 CN State Com 1H		
Well Position	+N/-S	0.0 usft	Northing: 462,286.45 usft
	+E/-W	0.0 usft	Easting: 775,358.83 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 4.082 N
		Longitude:	103° 26' 32.929 W
		Ground Level:	3,449.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/24/2013	7.29	60.20	48,462

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	175.57	

Survey Program	Date 6/24/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,793.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
10,873.0	16,100.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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	0.22	158.29	100.0	-0.2	0.1	0.2	0.22	0.22	0.00
200.0	0.47	285.99	200.0	-0.2	-0.3	0.2	0.63	0.25	127.70
300.0	0.68	250.55	300.0	-0.3	-1.2	0.2	0.40	0.21	-35.44
400.0	1.13	287.26	400.0	-0.2	-2.7	0.0	0.71	0.45	36.71
500.0	1.62	265.75	500.0	0.0	-5.1	-0.3	0.70	0.49	-21.51
600.0	1.68	274.32	599.9	0.0	-7.9	-0.6	0.25	0.06	8.57
700.0	2.29	265.42	699.9	-0.1	-11.4	-0.8	0.68	0.61	-8.90
800.0	2.28	267.04	799.8	-0.4	-15.4	-0.8	0.07	-0.01	1.62
900.0	2.17	275.59	899.7	-0.3	-19.2	-1.2	0.35	-0.11	8.55

DDC Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Mad Dog 35 CN State Com 1H
Project: Lea County, NM	TVD Reference: WELL @ 3469.0usft (Trinidad #110)
Site: Sec 35, T23S, R34E	MD Reference: WELL @ 3469.0usft (Trinidad #110)
Well: Mad Dog 35 CN State 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	1.61	276.32	999.6	0.1	-22.5	-1.8	0.56	-0.56	0.73
1,100.0	1.56	282.78	1,099.6	0.5	-25.2	-2.5	0.19	-0.05	6.46
1,200.0	1.30	281.76	1,199.6	1.1	-27.7	-3.2	0.26	-0.26	-1.02
1,300.0	1.34	290.93	1,299.5	1.7	-29.9	-4.0	0.21	0.04	9.17
1,400.0	1.09	304.65	1,399.5	2.7	-31.8	-5.1	0.38	-0.25	13.72
1,500.0	1.05	311.45	1,499.5	3.8	-33.2	-6.4	0.13	-0.04	6.80
1,600.0	1.34	302.72	1,599.5	5.1	-34.9	-7.7	0.34	0.29	-8.73
1,700.0	0.71	301.48	1,699.5	6.0	-36.4	-8.8	0.63	-0.63	-1.24
1,800.0	1.40	303.68	1,799.5	7.0	-37.9	-9.9	0.69	0.69	2.20
1,900.0	1.56	322.73	1,899.4	8.8	-39.8	-11.8	0.51	0.16	19.05
2,000.0	1.54	330.14	1,999.4	11.0	-41.3	-14.2	0.20	-0.02	7.41
2,100.0	1.63	335.25	2,099.3	13.5	-42.5	-16.7	0.17	0.09	5.11
2,200.0	2.21	336.68	2,199.3	16.5	-43.9	-19.9	0.58	0.58	1.43
2,300.0	2.52	347.83	2,299.2	20.5	-45.1	-23.9	0.55	0.31	11.15
2,400.0	2.77	347.00	2,399.1	25.0	-46.1	-28.4	0.25	0.25	-0.83
2,500.0	2.87	352.90	2,499.0	29.8	-47.0	-33.3	0.31	0.10	5.90
2,600.0	2.79	353.52	2,598.9	34.7	-47.6	-38.3	0.09	-0.08	0.62
2,700.0	2.87	2.25	2,698.7	39.6	-47.8	-43.2	0.44	0.08	8.73
2,800.0	2.85	11.69	2,798.6	44.6	-47.2	-48.1	0.47	-0.02	9.44
2,900.0	2.81	5.98	2,898.5	49.4	-46.4	-52.9	0.28	-0.04	-5.71
3,000.0	3.04	14.33	2,998.4	54.4	-45.5	-57.8	0.48	0.23	8.35
3,100.0	3.06	24.54	3,098.2	59.4	-43.7	-62.6	0.54	0.02	10.21
3,200.0	3.18	24.63	3,198.1	64.4	-41.5	-67.4	0.12	0.12	0.09
3,300.0	3.44	21.22	3,297.9	69.7	-39.2	-72.5	0.33	0.26	-3.41
3,400.0	3.64	30.72	3,397.7	75.2	-36.5	-77.8	0.62	0.20	9.50
3,500.0	2.97	20.50	3,497.5	80.4	-34.0	-82.8	0.89	-0.67	-10.22
3,600.0	2.41	28.05	3,597.4	84.7	-32.1	-86.9	0.66	-0.56	7.55
3,700.0	2.04	27.84	3,697.4	88.1	-30.3	-90.2	0.37	-0.37	-0.21
3,800.0	2.39	38.68	3,797.3	91.3	-28.1	-93.2	0.54	0.35	10.84
3,900.0	3.67	44.28	3,897.1	95.2	-24.6	-96.8	1.31	1.28	5.60
4,000.0	3.85	54.57	3,996.9	99.5	-19.6	-100.7	0.70	0.18	10.29
4,100.0	4.14	54.59	4,096.7	103.5	-13.9	-104.3	0.29	0.29	0.02
4,200.0	3.75	53.84	4,196.4	107.5	-8.4	-107.8	0.39	-0.39	-0.75
4,300.0	3.88	59.98	4,296.2	111.1	-2.8	-111.0	0.43	0.13	6.14
4,400.0	4.90	59.95	4,395.9	115.0	3.8	-114.3	1.02	1.02	-0.03
4,500.0	5.74	61.16	4,495.5	119.5	11.9	-118.2	0.85	0.84	1.21
4,600.0	6.22	68.80	4,595.0	123.9	21.4	-121.9	0.93	0.48	7.64
4,700.0	6.32	74.43	4,694.4	127.3	31.7	-124.5	0.62	0.10	5.63
4,800.0	6.27	67.88	4,793.8	130.9	42.1	-127.2	0.72	-0.05	-6.55
4,900.0	5.29	64.19	4,893.2	134.9	51.3	-130.6	1.05	-0.98	-3.69
5,000.0	3.37	61.09	4,993.0	138.3	58.0	-133.5	1.93	-1.92	-3.10
5,100.0	2.16	56.57	5,092.8	140.8	62.1	-135.6	1.23	-1.21	-4.52
5,200.0	1.92	47.66	5,192.8	143.0	65.0	-137.5	0.40	-0.24	-8.91

DDC Survey Report



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Site: Sec 35, T23S, R34E	MD Reference: WELL @ 3469.0usft (Trinidad #110)
Well: Mad Dog 35 CN State 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	1.74	52.85	5,292.7	145.0	67.4	-139.4	0.24	-0.18	5.19
5,400.0	1.61	39.00	5,392.7	147.0	69.5	-141.2	0.42	-0.13	-13.85
5,500.0	1.57	41.20	5,492.6	149.1	71.3	-143.2	0.07	-0.04	2.20
5,600.0	1.67	35.95	5,592.6	151.4	73.0	-145.3	0.18	0.10	-5.25
5,700.0	1.15	35.60	5,692.6	153.4	74.5	-147.1	0.52	-0.52	-0.35
5,800.0	0.50	10.06	5,792.6	154.6	75.1	-148.3	0.73	-0.65	-25.54
5,900.0	0.51	316.37	5,892.6	155.4	74.9	-149.1	0.46	0.01	-53.69
6,000.0	0.93	335.69	5,992.6	156.4	74.3	-150.2	0.48	0.42	19.32
6,100.0	0.90	342.75	6,092.5	157.9	73.7	-151.7	0.12	-0.03	7.06
6,200.0	1.05	322.82	6,192.5	159.4	72.9	-153.3	0.37	0.15	-19.93
6,300.0	0.80	348.07	6,292.5	160.8	72.2	-154.7	0.47	-0.25	25.25
6,400.0	0.73	348.80	6,392.5	162.1	71.9	-156.1	0.07	-0.07	0.73
6,500.0	0.74	338.51	6,492.5	163.3	71.6	-157.3	0.13	0.01	-10.29
6,600.0	0.80	359.46	6,592.5	164.6	71.3	-158.6	0.29	0.06	20.95
6,700.0	0.66	345.79	6,692.5	165.9	71.2	-159.9	0.22	-0.14	-13.67
6,800.0	0.75	335.52	6,792.5	167.0	70.8	-161.1	0.15	0.09	-10.27
6,900.0	0.64	299.15	6,892.5	167.9	70.0	-162.0	0.45	-0.11	-36.37
7,000.0	0.54	306.84	6,992.5	168.5	69.2	-162.6	0.13	-0.10	7.69
7,100.0	0.95	286.21	7,092.5	169.0	68.0	-163.2	0.48	0.41	-20.63
7,200.0	0.77	318.86	7,192.4	169.7	66.7	-164.1	0.51	-0.18	32.65
7,300.0	0.88	280.04	7,292.4	170.4	65.6	-164.8	0.56	0.11	-38.82
7,400.0	0.52	231.54	7,392.4	170.2	64.4	-164.7	0.66	-0.36	-48.50
7,500.0	0.77	268.51	7,492.4	169.9	63.4	-164.5	0.47	0.25	36.97
7,600.0	1.26	233.62	7,592.4	169.2	61.9	-164.0	0.77	0.49	-34.89
7,700.0	1.27	228.70	7,692.4	167.9	60.1	-162.7	0.11	0.01	-4.92
7,800.0	1.34	230.45	7,792.4	166.4	58.4	-161.4	0.08	0.07	1.75
7,900.0	0.72	229.92	7,892.3	165.2	57.0	-160.3	0.62	-0.62	-0.53
8,000.0	1.27	274.77	7,992.3	164.9	55.4	-160.1	0.91	0.55	44.85
8,100.0	1.38	270.97	8,092.3	165.0	53.1	-160.4	0.14	0.11	-3.80
8,200.0	1.31	277.93	8,192.3	165.2	50.8	-160.8	0.18	-0.07	6.96
8,300.0	1.22	275.59	8,292.2	165.5	48.6	-161.2	0.10	-0.09	-2.34
8,400.0	1.61	272.58	8,392.2	165.6	46.1	-161.6	0.40	0.39	-3.01
8,500.0	1.14	259.37	8,492.2	165.5	43.8	-161.6	0.56	-0.47	-13.21
8,600.0	1.16	248.83	8,592.2	165.0	41.8	-161.2	0.21	0.02	-10.54
8,700.0	1.50	247.08	8,692.1	164.1	39.7	-160.5	0.34	0.34	-1.75
8,800.0	1.30	245.73	8,792.1	163.1	37.4	-159.7	0.20	-0.20	-1.35
8,900.0	1.16	212.63	8,892.1	161.8	35.9	-158.5	0.71	-0.14	-33.10
9,000.0	1.02	203.53	8,992.1	160.1	35.0	-156.9	0.22	-0.14	-9.10
9,100.0	1.00	178.42	9,092.1	158.4	34.6	-155.3	0.44	-0.02	-25.11
9,200.0	0.67	189.88	9,192.0	157.0	34.6	-153.9	0.37	-0.33	11.46
9,300.0	1.66	193.22	9,292.0	155.0	34.1	-151.9	0.99	0.99	3.34
9,400.0	2.07	212.85	9,392.0	152.1	32.8	-149.1	0.75	0.41	19.63
9,500.0	1.94	226.44	9,491.9	149.4	30.6	-146.6	0.49	-0.13	13.59

DDC Survey Report



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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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)
9,600.0	1.11	242.65	9,591.9	147.8	28.5	-145.1	0.93	-0.83	16.21
9,700.0	2.00	250.48	9,691.8	146.8	26.0	-144.3	0.91	0.89	7.83
9,800.0	1.08	257.09	9,791.8	146.0	23.5	-143.7	0.94	-0.92	6.61
9,900.0	1.11	257.77	9,891.8	145.5	21.6	-143.4	0.03	0.03	0.68
10,000.0	1.07	244.93	9,991.8	144.9	19.8	-143.0	0.25	-0.04	-12.84
10,100.0	2.13	245.48	10,091.7	143.8	17.3	-142.0	1.06	1.06	0.55
10,200.0	3.01	254.79	10,191.6	142.3	13.0	-140.9	0.97	0.88	9.31
10,300.0	3.41	244.07	10,291.5	140.3	7.8	-139.3	0.72	0.40	-10.72
10,400.0	3.32	235.53	10,391.3	137.4	2.8	-136.8	0.51	-0.09	-8.54
10,500.0	3.42	222.49	10,491.1	133.5	-1.6	-133.3	0.77	0.10	-13.04
10,600.0	2.26	211.09	10,591.0	129.7	-4.7	-129.6	1.28	-1.16	-11.40
10,700.0	2.65	210.57	10,690.9	126.0	-6.9	-126.1	0.39	0.39	-0.52
TIE ON @ 10793' MD / 10784' TVD									
10,793.0	3.03	227.39	10,783.8	122.5	-9.8	-122.9	0.98	0.41	18.09
10,873.0	5.40	181.20	10,863.6	117.3	-11.4	-117.8	4.95	2.96	-57.74
10,918.0	10.20	170.80	10,908.2	111.2	-10.8	-111.7	11.08	10.67	-23.11
10,963.0	14.90	164.70	10,952.1	101.7	-8.6	-102.1	10.84	10.44	-13.56
11,008.0	18.60	168.00	10,995.2	89.1	-5.6	-89.3	8.49	8.22	7.33
11,053.0	22.90	167.10	11,037.2	73.5	-2.2	-73.5	9.58	9.56	-2.00
11,099.0	26.80	168.00	11,079.0	54.7	2.0	-54.3	8.52	8.48	1.96
11,144.0	30.60	167.50	11,118.4	33.5	6.6	-32.9	8.46	8.44	-1.11
11,189.0	34.30	167.10	11,156.4	10.0	11.9	-9.0	8.24	8.22	-0.89
11,234.0	37.70	170.60	11,192.8	-16.0	17.0	17.2	8.83	7.56	7.78
11,279.0	41.40	172.20	11,227.5	-44.3	21.2	45.8	8.53	8.22	3.56
11,324.0	45.80	175.40	11,260.1	-75.1	24.5	76.8	10.94	9.78	7.11
11,368.0	50.40	177.90	11,289.5	-107.8	26.4	109.5	11.28	10.45	5.68
11,413.0	54.20	176.40	11,317.0	-143.4	28.2	145.1	8.85	8.44	-3.33
CROSSED HARDLINE @ 11458' MD / 11341.8' TVD									
11,458.0	58.70	176.60	11,341.8	-180.8	30.5	182.6	10.01	10.00	0.44
11,503.0	62.70	177.70	11,363.9	-220.0	32.4	221.8	9.14	8.89	2.44
11,548.0	67.00	180.10	11,383.0	-260.7	33.2	262.5	10.70	9.56	5.33
11,593.0	71.60	180.50	11,398.9	-302.8	33.0	304.4	10.26	10.22	0.89
11,639.0	76.20	180.50	11,411.6	-346.9	32.6	348.4	10.00	10.00	0.00
11,685.0	81.50	180.50	11,420.5	-392.1	32.2	393.4	11.52	11.52	0.00
11,754.0	85.20	180.30	11,428.5	-460.6	31.7	461.7	5.37	5.36	-0.29
11,786.0	86.90	181.00	11,430.7	-492.5	31.4	493.4	5.74	5.31	2.19
11,818.0	88.80	179.90	11,431.9	-524.5	31.1	525.3	6.86	5.94	-3.44
11,849.0	89.50	180.10	11,432.4	-555.5	31.1	556.2	2.35	2.26	0.65
11,881.0	89.30	179.40	11,432.7	-587.5	31.3	588.1	2.27	-0.63	-2.19
11,913.0	91.40	179.10	11,432.5	-619.5	31.7	620.1	6.63	6.56	-0.94
12,006.0	91.40	177.70	11,430.2	-712.4	34.3	712.9	1.50	0.00	-1.51
12,102.0	90.80	177.10	11,428.4	-808.3	38.6	808.8	0.88	-0.63	-0.63
12,198.0	93.10	177.50	11,425.1	-904.1	43.1	904.7	2.43	2.40	0.42
12,291.0	93.60	178.00	11,419.7	-996.9	46.8	997.5	0.76	0.54	0.54

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mad Dog 35 CN State Com 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3469.0usft (Trinidad #110)
Site:	Sec 35, T23S, R34E	MD Reference:	WELL @ 3469.0usft (Trinidad #110)
Well:	Mad Dog 35 CN State 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)
12,386.0	93.10	177.10	11,414.1	-1,091.6	50.8	1,092.3	1.08	-0.53	-0.95
12,480.0	89.90	175.40	11,411.7	-1,185.4	57.0	1,186.2	3.85	-3.40	-1.81
12,575.0	90.00	175.90	11,411.8	-1,280.1	64.2	1,281.2	0.54	0.11	0.53
12,670.0	91.90	177.70	11,410.2	-1,374.9	69.5	1,376.2	2.75	2.00	1.89
12,764.0	89.80	176.40	11,408.8	-1,468.8	74.3	1,470.1	2.63	-2.23	-1.38
12,857.0	91.30	176.30	11,407.9	-1,561.6	80.3	1,563.1	1.62	1.61	-0.11
12,952.0	89.40	174.50	11,407.3	-1,656.3	87.9	1,658.1	2.75	-2.00	-1.89
13,046.0	89.30	175.00	11,408.4	-1,749.9	96.5	1,752.1	0.54	-0.11	0.53
13,141.0	90.30	174.70	11,408.7	-1,844.5	105.0	1,847.1	1.10	1.05	-0.32
13,235.0	92.50	174.50	11,406.4	-1,938.0	113.8	1,941.0	2.35	2.34	-0.21
13,329.0	90.00	173.80	11,404.4	-2,031.5	123.4	2,035.0	2.76	-2.66	-0.74
13,424.0	90.20	173.60	11,404.2	-2,125.9	133.8	2,129.9	0.30	0.21	-0.21
13,519.0	90.50	174.70	11,403.6	-2,220.5	143.5	2,224.9	1.20	0.32	1.16
13,613.0	90.80	172.60	11,402.6	-2,313.9	153.9	2,318.8	2.26	0.32	-2.23
13,708.0	91.00	171.30	11,401.1	-2,407.9	167.2	2,413.6	1.38	0.21	-1.37
13,803.0	89.70	170.10	11,400.5	-2,501.7	182.6	2,508.3	1.86	-1.37	-1.26
13,898.0	90.40	169.40	11,400.4	-2,595.1	199.5	2,602.8	1.04	0.74	-0.74
13,993.0	89.90	170.50	11,400.2	-2,688.7	216.1	2,697.3	1.27	-0.53	1.16
14,088.0	91.80	172.60	11,398.8	-2,782.6	230.0	2,792.1	2.98	2.00	2.21
14,183.0	92.20	171.90	11,395.4	-2,876.7	242.8	2,886.9	0.85	0.42	-0.74
14,278.0	93.70	175.00	11,390.5	-2,970.9	253.6	2,981.7	3.62	1.58	3.26
14,374.0	92.50	174.70	11,385.4	-3,066.4	262.2	3,077.5	1.29	-1.25	-0.31
14,468.0	92.80	174.30	11,381.0	-3,159.9	271.2	3,171.4	0.53	0.32	-0.43
14,564.0	90.30	175.40	11,378.4	-3,255.5	279.9	3,267.3	2.84	-2.60	1.15
14,659.0	88.90	175.70	11,379.1	-3,350.2	287.2	3,362.3	1.51	-1.47	0.32
14,754.0	88.60	175.70	11,381.1	-3,444.9	294.4	3,457.3	0.32	-0.32	0.00
14,849.0	89.90	176.40	11,382.4	-3,539.6	300.9	3,552.3	1.55	1.37	0.74
14,945.0	89.30	175.90	11,383.1	-3,635.4	307.3	3,648.3	0.81	-0.63	-0.52
15,040.0	91.40	175.90	11,382.5	-3,730.2	314.1	3,743.3	2.21	2.21	0.00
15,135.0	91.80	175.90	11,379.8	-3,824.9	320.9	3,838.2	0.42	0.42	0.00
15,230.0	90.70	175.60	11,377.8	-3,919.6	328.0	3,933.2	1.20	-1.16	-0.32
15,325.0	91.60	174.50	11,375.8	-4,014.2	336.2	4,028.2	1.50	0.95	-1.16
15,420.0	91.60	174.10	11,373.2	-4,108.7	345.6	4,123.1	0.42	0.00	-0.42
15,515.0	91.30	176.80	11,370.8	-4,203.4	353.1	4,218.1	2.86	-0.32	2.84
15,578.0	89.60	177.00	11,370.3	-4,266.3	356.5	4,281.1	2.72	-2.70	0.32
15,610.0	90.00	178.70	11,370.4	-4,298.3	357.7	4,313.0	5.46	1.25	5.31
15,641.0	90.80	179.60	11,370.2	-4,329.3	358.2	4,344.0	3.88	2.58	2.90
15,705.0	89.30	179.10	11,370.1	-4,393.2	358.9	4,407.8	2.47	-2.34	-0.78
15,736.0	89.20	179.30	11,370.5	-4,424.2	359.3	4,438.8	0.72	-0.32	0.65
15,768.0	89.60	179.90	11,370.9	-4,456.2	359.6	4,470.7	2.25	1.25	1.88
15,800.0	89.60	179.90	11,371.1	-4,488.2	359.6	4,502.6	0.00	0.00	0.00
15,831.0	90.40	180.80	11,371.1	-4,519.2	359.4	4,533.5	3.88	2.58	2.90
15,863.0	90.80	181.90	11,370.8	-4,551.2	358.7	4,565.3	3.66	1.25	3.44

DDC
Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Mad Dog 35 CN State Com 1H
Project: Lea County, NM	TVD Reference: WELL @ 3469.0usft (Trinidad #110)
Site: Sec 35, T23S, R34E	MD Reference: WELL @ 3469.0usft (Trinidad #110)
Well: Mad Dog 35 CN State 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)
15,895.0	91.30	181.90	11,370.2	-4,583.2	357.6	4,597.1	1.56	1.56	0.00
15,926.0	91.60	181.90	11,369.4	-4,614.2	356.6	4,627.9	0.97	0.97	0.00
15,958.0	92.10	182.40	11,368.4	-4,646.1	355.4	4,659.7	2.21	1.56	1.56
15,990.0	92.00	182.40	11,367.2	-4,678.1	354.1	4,691.5	0.31	-0.31	0.00
16,050.0	91.80	180.80	11,365.2	-4,738.0	352.4	4,751.1	2.69	-0.33	-2.67
TD @ 16100' MD / 11363.7' TVD									
16,100.0	91.80	180.80	11,363.7	-4,788.0	351.7	4,800.9	0.00	0.00	0.00

Design Annotations

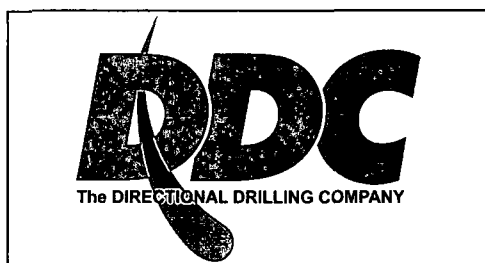
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,793.0	10,783.8	122.5	-9.8	TIE ON @ 10793' MD / 10784' TVD
11,458.0	11,341.8	-180.8	30.5	CROSSED HARDLINE @ 11458' MD / 11341.8' TVD
16,100.0	11,363.7	-4,788.0	351.7	TD @ 16100' MD / 11363.7' TVD

Checked By: _____	Approved By: _____	Date: _____
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Company Name: Mewbourne Oil Co
 Mad Dog 35 CN State Com 1H
 Lea County, NM
 Rig: Trinidad #110
 Created By: TIFFANI MIZELL
 Date: 6/25/2013

Mad Dog 35 CN State Com 1H
 Lea County, NM
 Q130104 & WT-13423
 Design #2 (Tie-In)

Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 6.81°

Magnetic Field
 Strength: 48462.4snT

Dip Angle: 60.20°

Date: 5/24/2013

Model: IGRF2010

PROJECT DETAILS: Lea County, NM

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: Mad Dog 35 CN State Com 1H

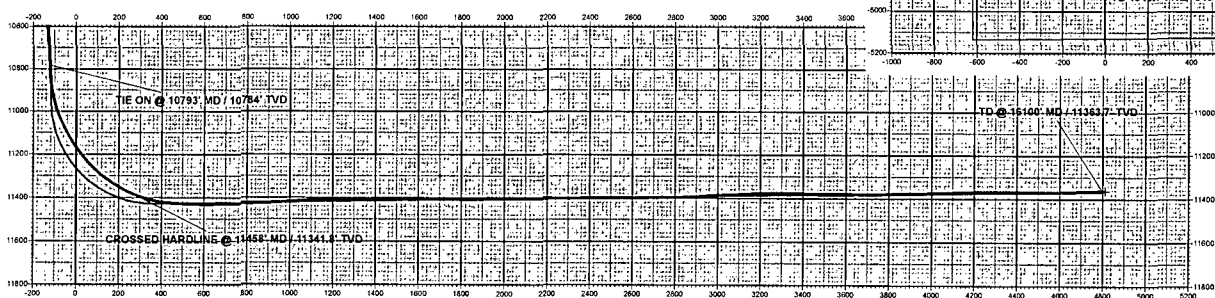
Ground Level: 3449.0
 Northing Easting Latitude Longitude
 0.0 0.0 462286.46 775559.83 32° 16' 4.082" N 103° 26' 52.929" W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
BHL Mad Dog 35 CN State Com 1H Design #1	11364.0	-4797.9	371.8	457488.56	775730.66	32° 15' 16.675" N	103° 26' 29.064" W
plan hits target center							

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSECT	Departure	Annotation
10793.0	3.03	227.39	10793.9	122.5	-8.5	-122.9	371.7	TIE ON @ 10793' MD / 10784' TVD
11458.0	69.70	176.60	11341.8	-180.8	30.5	182.8	679.4	CROSSED HARDLINE @ 11458' MD / 11341.8' TVD
16100.0	91.80	180.80	11363.7	-4789.0	351.7	4800.9	5303.7	TD @ 16100' MD / 11363.7' TVD



Vertical Section at 175.57' (200 usft/in)

