

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-45020
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Mewbourne Oil Company		6. State Oil & Gas Lease No.
3. Address of Operator PO Box 5270, Hobbs, NM 88240		7. Lease Name or Unit Agreement Name Sapphire 11/12 B3NN St Com 321485
4. Well Location Unit Letter <u>N</u> : <u>500</u> feet from the <u>S</u> line and <u>1470</u> feet from the <u>W</u> line Section <u>11</u> Township <u>19S</u> Range <u>29E</u> NMPM County <u>Eddy</u>		8. Well Number <u>2H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3377'		9. OGRID Number <u>14744</u>
		10. Pool name or Wildcat Turkey Track; Bone Spring (60660)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mewbourne Oil Company requests permission to make the following changes:

- 1) Change name to Sapphire 11/12 B2KK St Com #1H. **320836**
- 2) Change BHL to 1635' FSL & 2537' FWL (Sec. 12)
- 3) See attached new directional plan & C-102.

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 14 2018

RECEIVED

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE ENGINEER DATE 9/14/18

Type or print name Klay Kirkes E-mail address: kkirkes@mewbourne.com PHONE: 575-390-6706

For State Use Only
APPROVED BY: [Signature] TITLE Business Ops Spec DATE 9-15-2018
Conditions of Approval (if any)

RWP 9-17-18

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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 & Natural Resources Department
NM OIL CONSERVATION
ARTESIA DISTRICT
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

SEP 14 2018

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45020		2 Pool Code 60660		3 Pool Name TURKEY TRACK BONE SPRING	
4 Property Code 3208316		5 Property Name SAPPHIRE 11/12 B2KK STATE COM			6 Well Number 1H
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3377'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
N	11	19S	29E		500	SOUTH	1470	WEST	EDDY

11 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 K	12	19S	29E		1635	SOUTH	2537	WEST	EDDY

12 Dedicated Acres 400	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 GEODEIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 607339.9 - E 628734.7 LAT: 32.6693016° N LONG: 104.0493141° W KOP N 607782.9 - E 628360.2 LAT: 32.6705219° N LONG 104.0505272° W LP/FTP N 608105.8 - E 628715.0 LAT: 32.6714069° N LONG 104.0493714° W BOTTOM HOLE N 608437.6 - E 635078.0 LAT: 32.6722705° N LONG 104.0286898° W		CORNER DATA NAD 83 GRID - NM EAST A: FOUND 1/2" REBAR N 606848.2 - E 627266.7 B: FOUND 1/2" REBAR N 612102.4 - E 627248.6 C: FOUND 12"x5"x9" LIMESTONE ROCK N 612112.8 - E 629887.6 D: FOUND 1/2" REBAR N 612096.5 - E 632531.2		E: FOUND 1/2" REBAR N 612083.0 - E 635199.6 F: FOUND BRASS CAP "1916" N 612069.4 - E 637838.3 G: FOUND BRASS CAP "1916" N 609427.4 - E 637829.9 H: FOUND BRASS CAP "1916" N 606787.6 - E 637820.9 I: FOUND 1" IRON PIPE N 606817.4 - E 632546.4 J: FOUND 1/2" REBAR N 606833.5 - E 629906.6		17 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: <i>Bradley C. Bishop</i> Date: 9-17-18 Printed Name: BRADLEY BISHOP E-mail Address: BBISHOP@MEWBOURNE.COM	
18 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. 4-18-2018 Date of Survey Signature and Seal of Professional Surveyor: <i>Robert M. Howett</i> 19680 Certificate Number 7/25/18 NAME CHNG							

RwP 9-17-18

Job No.: LS1804482R

**NM OIL CONSERVATION
ARTESIA DISTRICT**

SEP 14 2018

RECEIVED

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Sapphire 11/12 B2KK St Com #1H

Sec 11, T19S, R29E

SL: 500' FSL & 1470' FWL, Sec 11

BHL: 1635' FSL & 2537' FWL, Sec 12

Plan: Design #1

Standard Planning Report

24 July, 2018

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Sapphire 11/12 B2KK St Com #1H
Well: Sec 11, T19S, R29E
Wellbore: BHL: 1635' FSL & 2537' FWL, Sec 12
Design: Design #1

Local Co-ordinate Reference: Site Sapphire 11/12 B2KK St Com #1H
TVD Reference: WELL @ 3404.0usft (Original Well Elev)
MD Reference: WELL @ 3404.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sapphire 11/12 B2KK St Com #1H			
Site Position:		Northing:	607,340.00 usft	Latitude: 32.6693018
From:	Map	Easting:	628,735.00 usft	Longitude: -104.0493130
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.15 °

Well	Sec 11, T19S, R29E			
Well Position	+N/-S	0.0 usft	Northing:	607,340.00 usft
	+E/-W	0.0 usft	Easting:	628,735.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,404.0 usft
			Ground Level:	3,377.0 usft

Wellbore	BHL: 1635' FSL & 2537' FWL, Sec 12				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/20/2018	6.96	60.34	48,124

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	80.18

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
475.0	0.00	0.00	475.0	0.0	0.0	0.00	0.00	0.00	0.00	
801.1	4.89	319.83	800.7	10.6	-9.0	1.50	1.50	0.00	319.83	
7,273.8	4.89	319.83	7,249.8	432.4	-365.0	0.00	0.00	0.00	0.00	
7,599.9	0.00	0.01	7,575.5	443.0	-374.0	1.50	-1.50	0.00	180.00	KOP: 941' FSL & 109'
8,349.9	90.00	47.61	8,053.0	764.9	-21.3	12.00	12.00	0.00	47.61	
8,353.1	90.00	47.61	8,053.0	767.0	-19.0	0.00	0.00	0.00	0.00	LP/FTP: 1266' FSL &
9,395.9	89.06	90.36	8,062.0	1,132.3	932.0	4.10	-0.09	4.10	91.38	BHL: 1635' FSL & 2537'
14,807.7	89.06	90.36	8,150.8	1,098.0	6,343.0	0.00	0.00	0.00	0.00	BHL: 1635' FSL & 2537'

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Sapphire 11/12 B2KK St Com #1H
 Well: Sec 11, T19S, R29E
 Wellbore: BHL: 1635' FSL & 2537' FWL, Sec 12
 Design: Design #1

Local Co-ordinate Reference: Site Sapphire 11/12 B2KK St Com #1H
 TVD Reference: WELL @ 3404.0usft (Original Well Elev)
 MD Reference: WELL @ 3404.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned 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
SL: 500' FSL & 1470' FWL, Sec 11									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
475.0	0.00	0.00	475.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.38	319.83	500.0	0.1	-0.1	0.0	1.50	1.50	0.00
600.0	1.88	319.83	600.0	1.6	-1.3	-1.0	1.50	1.50	0.00
700.0	3.38	319.83	699.9	5.1	-4.3	-3.3	1.50	1.50	0.00
800.0	4.88	319.83	799.6	10.6	-8.9	-7.0	1.50	1.50	0.00
801.1	4.89	319.83	800.7	10.6	-9.0	-7.0	1.50	1.50	0.00
900.0	4.89	319.83	899.2	17.1	-14.4	-11.3	0.00	0.00	0.00
1,000.0	4.89	319.83	998.9	23.6	-19.9	-15.6	0.00	0.00	0.00
1,100.0	4.89	319.83	1,098.5	30.1	-25.4	-19.9	0.00	0.00	0.00
1,200.0	4.89	319.83	1,198.2	36.6	-30.9	-24.2	0.00	0.00	0.00
1,300.0	4.89	319.83	1,297.8	43.1	-36.4	-28.5	0.00	0.00	0.00
1,400.0	4.89	319.83	1,397.4	49.7	-41.9	-32.8	0.00	0.00	0.00
1,500.0	4.89	319.83	1,497.1	56.2	-47.4	-37.1	0.00	0.00	0.00
1,600.0	4.89	319.83	1,596.7	62.7	-52.9	-41.5	0.00	0.00	0.00
1,700.0	4.89	319.83	1,696.3	69.2	-58.4	-45.8	0.00	0.00	0.00
1,800.0	4.89	319.83	1,796.0	75.7	-63.9	-50.1	0.00	0.00	0.00
1,900.0	4.89	319.83	1,895.6	82.2	-69.4	-54.4	0.00	0.00	0.00
2,000.0	4.89	319.83	1,995.2	88.7	-74.9	-58.7	0.00	0.00	0.00
2,100.0	4.89	319.83	2,094.9	95.3	-80.4	-63.0	0.00	0.00	0.00
2,200.0	4.89	319.83	2,194.5	101.8	-85.9	-67.3	0.00	0.00	0.00
2,300.0	4.89	319.83	2,294.1	108.3	-91.4	-71.6	0.00	0.00	0.00
2,400.0	4.89	319.83	2,393.8	114.8	-96.9	-75.9	0.00	0.00	0.00
2,500.0	4.89	319.83	2,493.4	121.3	-102.4	-80.2	0.00	0.00	0.00
2,600.0	4.89	319.83	2,593.1	127.8	-107.9	-84.5	0.00	0.00	0.00
2,700.0	4.89	319.83	2,692.7	134.4	-113.4	-88.9	0.00	0.00	0.00
2,800.0	4.89	319.83	2,792.3	140.9	-118.9	-93.2	0.00	0.00	0.00
2,900.0	4.89	319.83	2,892.0	147.4	-124.4	-97.5	0.00	0.00	0.00
3,000.0	4.89	319.83	2,991.6	153.9	-129.9	-101.8	0.00	0.00	0.00
3,100.0	4.89	319.83	3,091.2	160.4	-135.4	-106.1	0.00	0.00	0.00
3,200.0	4.89	319.83	3,190.9	166.9	-140.9	-110.4	0.00	0.00	0.00
3,300.0	4.89	319.83	3,290.5	173.4	-146.4	-114.7	0.00	0.00	0.00
3,400.0	4.89	319.83	3,390.1	180.0	-151.9	-119.0	0.00	0.00	0.00
3,500.0	4.89	319.83	3,489.8	186.5	-157.4	-123.3	0.00	0.00	0.00
3,600.0	4.89	319.83	3,589.4	193.0	-162.9	-127.6	0.00	0.00	0.00
3,700.0	4.89	319.83	3,689.0	199.5	-168.4	-131.9	0.00	0.00	0.00
3,800.0	4.89	319.83	3,788.7	206.0	-173.9	-136.2	0.00	0.00	0.00
3,900.0	4.89	319.83	3,888.3	212.5	-179.4	-140.6	0.00	0.00	0.00
4,000.0	4.89	319.83	3,988.0	219.1	-184.9	-144.9	0.00	0.00	0.00
4,100.0	4.89	319.83	4,087.6	225.6	-190.4	-149.2	0.00	0.00	0.00
4,200.0	4.89	319.83	4,187.2	232.1	-195.9	-153.5	0.00	0.00	0.00
4,300.0	4.89	319.83	4,286.9	238.6	-201.4	-157.8	0.00	0.00	0.00
4,400.0	4.89	319.83	4,386.5	245.1	-206.9	-162.1	0.00	0.00	0.00
4,500.0	4.89	319.83	4,486.1	251.6	-212.4	-166.4	0.00	0.00	0.00
4,600.0	4.89	319.83	4,585.8	258.2	-217.9	-170.7	0.00	0.00	0.00
4,700.0	4.89	319.83	4,685.4	264.7	-223.4	-175.0	0.00	0.00	0.00
4,800.0	4.89	319.83	4,785.0	271.2	-228.9	-179.3	0.00	0.00	0.00
4,900.0	4.89	319.83	4,884.7	277.7	-234.4	-183.6	0.00	0.00	0.00
5,000.0	4.89	319.83	4,984.3	284.2	-239.9	-188.0	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Sapphire 11/12 B2KK St Com #1H
Well: Sec 11, T19S, R29E
Wellbore: BHL: 1635' FSL & 2537' FWL, Sec 12
Design: Design #1

Local Co-ordinate Reference: Site Sapphire 11/12 B2KK St Com #1H
TVD Reference: WELL @ 3404.0usft (Original Well Elev)
MD Reference: WELL @ 3404.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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	4.89	319.83	5,083.9	290.7	-245.4	-192.3	0.00	0.00	0.00
5,200.0	4.89	319.83	5,183.6	297.2	-250.9	-196.6	0.00	0.00	0.00
5,300.0	4.89	319.83	5,283.2	303.8	-256.5	-200.9	0.00	0.00	0.00
5,400.0	4.89	319.83	5,382.9	310.3	-262.0	-205.2	0.00	0.00	0.00
5,500.0	4.89	319.83	5,482.5	316.8	-267.5	-209.5	0.00	0.00	0.00
5,600.0	4.89	319.83	5,582.1	323.3	-273.0	-213.8	0.00	0.00	0.00
5,700.0	4.89	319.83	5,681.8	329.8	-278.5	-218.1	0.00	0.00	0.00
5,800.0	4.89	319.83	5,781.4	336.3	-284.0	-222.4	0.00	0.00	0.00
5,900.0	4.89	319.83	5,881.0	342.9	-289.5	-226.7	0.00	0.00	0.00
6,000.0	4.89	319.83	5,980.7	349.4	-295.0	-231.0	0.00	0.00	0.00
6,100.0	4.89	319.83	6,080.3	355.9	-300.5	-235.4	0.00	0.00	0.00
6,200.0	4.89	319.83	6,179.9	362.4	-306.0	-239.7	0.00	0.00	0.00
6,300.0	4.89	319.83	6,279.6	368.9	-311.5	-244.0	0.00	0.00	0.00
6,400.0	4.89	319.83	6,379.2	375.4	-317.0	-248.3	0.00	0.00	0.00
6,500.0	4.89	319.83	6,478.8	382.0	-322.5	-252.6	0.00	0.00	0.00
6,600.0	4.89	319.83	6,578.5	388.5	-328.0	-256.9	0.00	0.00	0.00
6,700.0	4.89	319.83	6,678.1	395.0	-333.5	-261.2	0.00	0.00	0.00
6,800.0	4.89	319.83	6,777.8	401.5	-339.0	-265.5	0.00	0.00	0.00
6,900.0	4.89	319.83	6,877.4	408.0	-344.5	-269.8	0.00	0.00	0.00
7,000.0	4.89	319.83	6,977.0	414.5	-350.0	-274.1	0.00	0.00	0.00
7,100.0	4.89	319.83	7,076.7	421.0	-355.5	-278.4	0.00	0.00	0.00
7,200.0	4.89	319.83	7,176.3	427.6	-361.0	-282.7	0.00	0.00	0.00
7,273.8	4.89	319.83	7,249.8	432.4	-365.0	-285.9	0.00	0.00	0.00
7,300.0	4.50	319.83	7,275.9	434.0	-366.4	-287.0	1.50	-1.50	0.00
7,400.0	3.00	319.83	7,375.7	439.0	-370.6	-290.3	1.50	-1.50	0.00
7,500.0	1.50	319.83	7,475.6	442.0	-373.2	-292.3	1.50	-1.50	0.00
7,599.9	0.00	0.01	7,575.5	443.0	-374.0	-293.0	1.50	-1.50	0.00
KOP: 941' FSL & 1097' FWL, Sec 11									
7,600.0	0.00	47.61	7,575.6	443.0	-374.0	-293.0	0.00	0.00	0.00
7,700.0	12.01	47.61	7,674.9	450.0	-366.3	-284.1	12.01	12.01	0.00
7,800.0	24.01	47.61	7,769.8	470.9	-343.5	-258.1	12.00	12.00	0.00
7,900.0	36.01	47.61	7,856.3	504.5	-306.6	-216.1	12.00	12.00	0.00
8,000.0	48.01	47.61	7,930.4	549.5	-257.3	-159.8	12.00	12.00	0.00
8,100.0	60.01	47.61	7,989.1	604.0	-197.6	-91.7	12.00	12.00	0.00
8,200.0	72.01	47.61	8,029.7	665.5	-130.2	-14.8	12.00	12.00	0.00
8,300.0	84.01	47.61	8,050.4	731.3	-58.1	67.5	12.00	12.00	0.00
8,349.9	90.00	47.61	8,053.0	764.9	-21.3	109.4	12.00	12.00	0.00
8,353.1	90.00	47.61	8,053.0	767.0	-19.0	112.1	0.00	0.00	0.00
LP/FTP: 1266' FSL & 1453' FWL, Sec 11									
8,400.0	89.95	49.54	8,053.0	798.1	16.2	152.1	4.10	-0.10	4.10
8,500.0	89.85	53.64	8,053.2	860.2	94.5	239.9	4.10	-0.10	4.10
8,600.0	89.76	57.74	8,053.5	916.5	177.1	330.8	4.10	-0.10	4.10
8,700.0	89.66	61.83	8,054.0	966.8	263.5	424.6	4.10	-0.10	4.10
8,800.0	89.56	65.93	8,054.7	1,010.9	353.3	520.5	4.10	-0.10	4.10
8,900.0	89.47	70.03	8,055.6	1,048.3	446.0	618.2	4.10	-0.09	4.10
9,000.0	89.38	74.13	8,056.6	1,079.1	541.1	717.2	4.10	-0.09	4.10
9,100.0	89.29	78.23	8,057.7	1,103.0	638.2	816.9	4.10	-0.09	4.10
9,200.0	89.21	82.33	8,059.0	1,119.8	736.7	916.9	4.10	-0.08	4.10
9,300.0	89.13	86.43	8,060.5	1,129.6	836.2	1,016.6	4.10	-0.08	4.10
9,395.9	89.06	90.36	8,062.0	1,132.3	932.0	1,111.5	4.10	-0.08	4.10
9,400.0	89.06	90.36	8,062.0	1,132.3	936.1	1,115.5	0.00	0.00	0.00
9,500.0	89.06	90.36	8,063.7	1,131.7	1,036.1	1,213.9	0.00	0.00	0.00
9,600.0	89.06	90.36	8,065.3	1,131.0	1,136.1	1,312.3	0.00	0.00	0.00
9,700.0	89.06	90.36	8,067.0	1,130.4	1,236.1	1,410.8	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Sapphire 11/12 B2KK St Com #1H
 Well: Sec 11, T19S, R29E
 Wellbore: BHL: 1635' FSL & 2537' FWL, Sec 12
 Design: Design #1

Local Co-ordinate Reference: Site Sapphire 11/12 B2KK St Com #1H
 TVD Reference: WELL @ 3404.0usft (Original Well Elev)
 MD Reference: WELL @ 3404.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned 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)
9,800.0	89.06	90.36	8,068.6	1,129.8	1,336.1	1,509.2	0.00	0.00	0.00
9,900.0	89.06	90.36	8,070.2	1,129.1	1,436.0	1,607.6	0.00	0.00	0.00
10,000.0	89.06	90.36	8,071.9	1,128.5	1,536.0	1,706.0	0.00	0.00	0.00
10,100.0	89.06	90.36	8,073.5	1,127.9	1,636.0	1,804.4	0.00	0.00	0.00
10,200.0	89.06	90.36	8,075.2	1,127.2	1,736.0	1,902.8	0.00	0.00	0.00
10,300.0	89.06	90.36	8,076.8	1,126.6	1,836.0	2,001.2	0.00	0.00	0.00
10,400.0	89.06	90.36	8,078.4	1,126.0	1,936.0	2,099.6	0.00	0.00	0.00
10,500.0	89.06	90.36	8,080.1	1,125.3	2,035.9	2,198.1	0.00	0.00	0.00
10,600.0	89.06	90.36	8,081.7	1,124.7	2,135.9	2,296.5	0.00	0.00	0.00
10,700.0	89.06	90.36	8,083.4	1,124.0	2,235.9	2,394.9	0.00	0.00	0.00
10,800.0	89.06	90.36	8,085.0	1,123.4	2,335.9	2,493.3	0.00	0.00	0.00
10,900.0	89.06	90.36	8,086.6	1,122.8	2,435.9	2,591.7	0.00	0.00	0.00
11,000.0	89.06	90.36	8,088.3	1,122.1	2,535.9	2,690.1	0.00	0.00	0.00
11,100.0	89.06	90.36	8,089.9	1,121.5	2,635.9	2,788.5	0.00	0.00	0.00
11,200.0	89.06	90.36	8,091.6	1,120.9	2,735.8	2,886.9	0.00	0.00	0.00
11,300.0	89.06	90.36	8,093.2	1,120.2	2,835.8	2,985.3	0.00	0.00	0.00
11,400.0	89.06	90.36	8,094.9	1,119.6	2,935.8	3,083.8	0.00	0.00	0.00
11,500.0	89.06	90.36	8,096.5	1,119.0	3,035.8	3,182.2	0.00	0.00	0.00
11,600.0	89.06	90.36	8,098.1	1,118.3	3,135.8	3,280.6	0.00	0.00	0.00
11,700.0	89.06	90.36	8,099.8	1,117.7	3,235.8	3,379.0	0.00	0.00	0.00
11,800.0	89.06	90.36	8,101.4	1,117.1	3,335.7	3,477.4	0.00	0.00	0.00
11,900.0	89.06	90.36	8,103.1	1,116.4	3,435.7	3,575.8	0.00	0.00	0.00
12,000.0	89.06	90.36	8,104.7	1,115.8	3,535.7	3,674.2	0.00	0.00	0.00
12,100.0	89.06	90.36	8,106.3	1,115.2	3,635.7	3,772.6	0.00	0.00	0.00
12,200.0	89.06	90.36	8,108.0	1,114.5	3,735.7	3,871.0	0.00	0.00	0.00
12,300.0	89.06	90.36	8,109.6	1,113.9	3,835.7	3,969.5	0.00	0.00	0.00
12,400.0	89.06	90.36	8,111.3	1,113.3	3,935.6	4,067.9	0.00	0.00	0.00
12,500.0	89.06	90.36	8,112.9	1,112.6	4,035.6	4,166.3	0.00	0.00	0.00
12,600.0	89.06	90.36	8,114.5	1,112.0	4,135.6	4,264.7	0.00	0.00	0.00
12,700.0	89.06	90.36	8,116.2	1,111.4	4,235.6	4,363.1	0.00	0.00	0.00
12,800.0	89.06	90.36	8,117.8	1,110.7	4,335.6	4,461.5	0.00	0.00	0.00
12,900.0	89.06	90.36	8,119.5	1,110.1	4,435.6	4,559.9	0.00	0.00	0.00
13,000.0	89.06	90.36	8,121.1	1,109.5	4,535.6	4,658.3	0.00	0.00	0.00
13,100.0	89.06	90.36	8,122.7	1,108.8	4,635.5	4,756.7	0.00	0.00	0.00
13,200.0	89.06	90.36	8,124.4	1,108.2	4,735.5	4,855.2	0.00	0.00	0.00
13,300.0	89.06	90.36	8,126.0	1,107.6	4,835.5	4,953.6	0.00	0.00	0.00
13,400.0	89.06	90.36	8,127.7	1,106.9	4,935.5	5,052.0	0.00	0.00	0.00
13,500.0	89.06	90.36	8,129.3	1,106.3	5,035.5	5,150.4	0.00	0.00	0.00
13,600.0	89.06	90.36	8,130.9	1,105.7	5,135.5	5,248.8	0.00	0.00	0.00
13,700.0	89.06	90.36	8,132.6	1,105.0	5,235.4	5,347.2	0.00	0.00	0.00
13,800.0	89.06	90.36	8,134.2	1,104.4	5,335.4	5,445.6	0.00	0.00	0.00
13,900.0	89.06	90.36	8,135.9	1,103.8	5,435.4	5,544.0	0.00	0.00	0.00
14,000.0	89.06	90.36	8,137.5	1,103.1	5,535.4	5,642.4	0.00	0.00	0.00
14,100.0	89.06	90.36	8,139.1	1,102.5	5,635.4	5,740.9	0.00	0.00	0.00
14,200.0	89.06	90.36	8,140.8	1,101.9	5,735.4	5,839.3	0.00	0.00	0.00
14,300.0	89.06	90.36	8,142.4	1,101.2	5,835.4	5,937.7	0.00	0.00	0.00
14,400.0	89.06	90.36	8,144.1	1,100.6	5,935.3	6,036.1	0.00	0.00	0.00
14,500.0	89.06	90.36	8,145.7	1,100.0	6,035.3	6,134.5	0.00	0.00	0.00
14,600.0	89.06	90.36	8,147.3	1,099.3	6,135.3	6,232.9	0.00	0.00	0.00
14,700.0	89.06	90.36	8,149.0	1,098.7	6,235.3	6,331.3	0.00	0.00	0.00
14,800.0	89.06	90.36	8,150.6	1,098.0	6,335.3	6,429.7	0.00	0.00	0.00
14,807.7	89.06	90.36	8,150.8	1,098.0	6,343.0	6,437.3	0.00	0.00	0.00

BHL: 1635' FSL & 2537' FWL, Sec 12

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Sapphire 11/12 B2KK St Com #1H
Well: Sec 11, T19S, R29E
Wellbore: BHL: 1635' FSL & 2537' FWL, Sec 12
Design: Design #1

Local Co-ordinate Reference: Site Sapphire 11/12 B2KK St Com #1H
TVD Reference: WELL @ 3404.0usft (Original Well Elev)
MD Reference: WELL @ 3404.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 500' FSL & 1470' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	607,340.00	628,735.00	32.6693018	-104.0493130
KOP: 941' FSL & 1097' f - plan hits target center - Point	0.00	0.01	7,575.5	443.0	-374.0	607,783.00	628,361.00	32.6705223	-104.0505246
LP/FTP: 1266' FSL & 14 - plan hits target center - Point	0.00	0.00	8,053.0	767.0	-19.0	608,107.00	628,716.00	32.6714102	-104.0493681
BHL: 1635' FSL & 2537' - plan misses target center by 2.8usft at 14807.7usft MD (8150.8 TVD, 1098.0 N, 6343.0 E) - Point	0.00	0.00	8,148.0	1,098.0	6,343.0	608,438.00	635,078.00	32.6722715	-104.0286898