

Santa Fe Main Office  
Phone: (505) 476-3441  
General Information  
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State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

Online Phone Directory Visit:  
<https://www.emnrd.nm.gov/ocd/contact-us/>

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

|                                                                                                                                                                                                                                                                                                                        |  |                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(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.)<br>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other |  | WELL API NO.<br>30-015-57326                                                                        |
| 2. Name of Operator<br>MEWBOURNE OIL COMPANY                                                                                                                                                                                                                                                                           |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 3. Address of Operator<br>4801 BUSINESS PARK BLVD HOBBS NM 88241                                                                                                                                                                                                                                                       |  | 6. State Oil & Gas Lease No.                                                                        |
| 4. Well Location<br>Unit Letter <u>I</u> : <u>2160</u> feet from the <u>SOUTH</u> line and <u>280</u> feet from the <u>EAST</u> line<br>Section <u>32</u> Township <u>21S</u> Range <u>26E</u> NMPM County <u>EDDY</u>                                                                                                 |  | 7. Lease Name or Unit Agreement Name<br>BUFFALO NICKEL 33/35 STATE COM                              |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3256'                                                                                                                                                                                                                                                            |  | 8. Well Number <u>716H</u>                                                                          |
|                                                                                                                                                                                                                                                                                                                        |  | 9. OGRID Number<br>14744                                                                            |
|                                                                                                                                                                                                                                                                                                                        |  | 10. Pool name or Wildcat<br>ESPERANZA, BONE SPRING                                                  |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input checked="" type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/><br>DOWNHOLE COMMINGLE <input type="checkbox"/><br>CLOSED-LOOP SYSTEM <input type="checkbox"/><br>OTHER: <input type="checkbox"/> |  | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/><br>CASING/CEMENT JOB <input type="checkbox"/><br>OTHER: <input type="checkbox"/> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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 approval for the following changes to the APD API (30-015-57326)

1. Change well name from Buffalo Nickel 33/34 State Com 716H to Buffalo Nickel 33/35 State Com 716H

2. Move BHL from Sec 34 T21S R26E 1980' FSL and 100' FEL to Sec 35 T21S R26E 1980' FSL and 2344' FWL.

3. Change dedicated acreage from 1121.12 to 800 acres.

Spud Date:

11/25/25

Rig Release Date:

12/2/25

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

SIGNATURE Brett Miller TITLE PETROLEUM ENGINEER DATE 10/27/2025

Type or print name BRETT MILLER E-mail address: brett.miller@mewbourne.com PHONE: 505-280-6768  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of Approval (if any): \_\_\_\_\_

|                                                          |                                                                                                     |                                     |                      |                                                    |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|----------------------------------------------------|
| C-102<br><br>Submit Electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONSERVATION DIVISION |                                     | Revised July 9, 2024 |                                                    |
|                                                          |                                                                                                     |                                     | Submittal<br>Type:   | <input type="checkbox"/> Initial Submittal         |
|                                                          |                                                                                                     |                                     |                      | <input checked="" type="checkbox"/> Amended Report |
|                                                          |                                                                                                     | <input type="checkbox"/> As Drilled |                      |                                                    |

## WELL LOCATION INFORMATION

|                                                                                                                                                        |                                                        |                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| API Number<br>30-015-57326                                                                                                                             | Pool Code<br>71120                                     | Pool Name<br>AVALON, WOLFCAMP (GAS)                                                                                                                    |
| Property Code<br>337809                                                                                                                                | Property Name<br><b>BUFFALO NICKEL 33/35 STATE COM</b> | Well Number<br><b>716H</b>                                                                                                                             |
| OGRID No.<br>14744                                                                                                                                     | Operator Name<br><b>MEWBOURNE OIL COMPANY</b>          | Ground Level Elevation<br><b>3256'</b>                                                                                                                 |
| Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal |                                                        | Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal |

## Surface Location

|                |                      |                        |                     |     |                                 |                                |                                 |                                   |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL<br><b>I</b> | Section<br><b>32</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>2160 FSL</b> | Ft. from E/W<br><b>280 FEL</b> | Latitude<br><b>32.4348613°N</b> | Longitude<br><b>104.3074573°W</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

## Bottom Hole Location

|                |                      |                        |                     |     |                                 |                                 |                                 |                                   |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL<br><b>K</b> | Section<br><b>35</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1980 FSL</b> | Ft. from E/W<br><b>2344 FWL</b> | Latitude<br><b>32.4341760°N</b> | Longitude<br><b>104.2641977°W</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------|

|                               |                                          |                                          |                                                                                                               |                                |
|-------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
| Dedicated Acres<br><b>800</b> | Infill or Defining Well<br><b>INFILL</b> | Defining Well API<br><b>30-015-57327</b> | Overlapping Spacing Unit (Y/N)<br><b>N</b>                                                                    | Consolidation Code<br><b>C</b> |
| Order Numbers. <b>N/A</b>     |                                          |                                          | Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                |

## Kick Off Point (KOP)

|                |                      |                        |                     |     |                                 |                                |                                 |                                   |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL<br><b>I</b> | Section<br><b>32</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1980 FSL</b> | Ft. from E/W<br><b>243 FEL</b> | Latitude<br><b>32.4343728°N</b> | Longitude<br><b>104.3073624°W</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

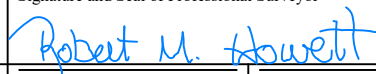
## First Take Point (FTP)

|                |                      |                        |                     |     |                                 |                                |                                 |                                   |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL<br><b>L</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1980 FSL</b> | Ft. from E/W<br><b>330 FWL</b> | Latitude<br><b>32.4344125°N</b> | Longitude<br><b>104.3055068°W</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|

## Last Take Point (LTP)

|                |                      |                        |                     |     |                                 |                                 |                                 |                                   |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------|
| UL<br><b>K</b> | Section<br><b>35</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1980 FSL</b> | Ft. from E/W<br><b>2344 FWL</b> | Latitude<br><b>32.4341760°N</b> | Longitude<br><b>104.2641977°W</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------|

|                                                         |                                                                                                    |                                         |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|
| Unitized Area or Area of Uniform Interest<br><b>N/A</b> | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation:<br><b>3256'</b> |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                     |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>OPERATOR CERTIFICATIONS</b><br><br><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i><br><br><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i><br><br><b>Brett Miller</b> 10/30/2025 |  | <b>SURVEYOR CERTIFICATIONS</b><br><br><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i><br><br> |                                     |
| Signature<br><b>BRETT MILLER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Signature and Seal of Professional Surveyor<br>                                                                                                                                                                                                                 |                                     |
| Printed Name<br><b>BRETT.MILLER@MEWBOURNE.COM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Certificate Number<br><b>19680</b>                                                                                                                                                                                                                                                                                                                  | Date of Survey<br><b>06/04/2025</b> |
| Email Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                     |                                     |

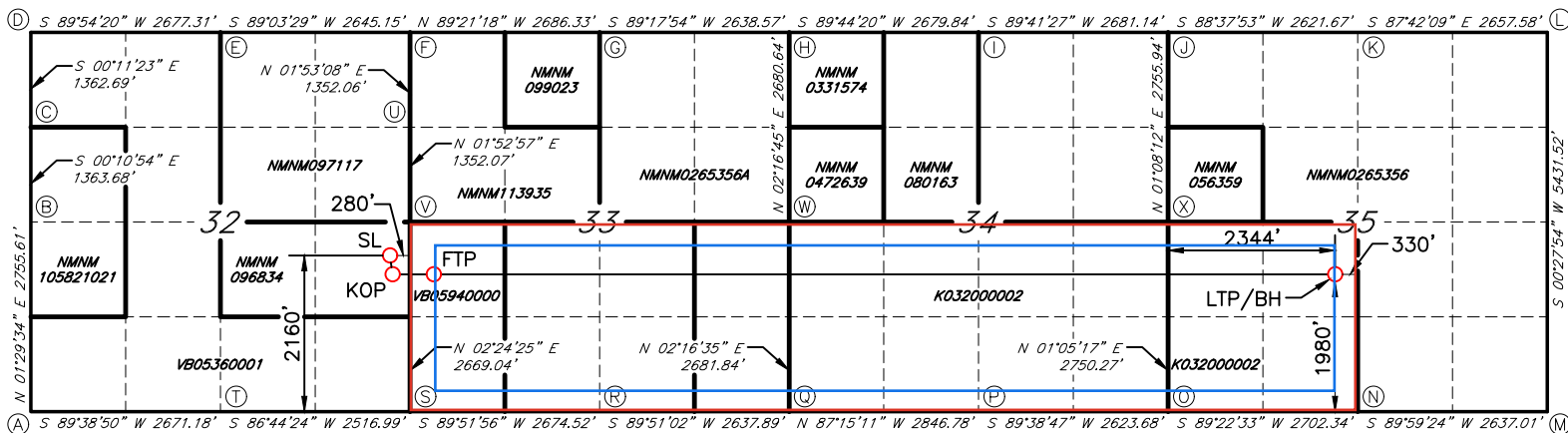
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

## ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

## BUFFALO NICKEL 33/35 STATE COM #716H



GEODETIC DATA  
NAD 83 GRID — NM EAST

SURFACE LOCATION (SL)  
2160' FSL & 280' FEL SEC.32  
N: 521934.6 — E: 549320.7

LAT: 32.4348613° N  
LONG: 104.3074573° W

KICK OFF POINT (KOP)  
1980' FSL & 243' FEL SEC.32  
N: 521756.9 — E: 549350.0

LAT: 32.4343728° N  
LONG: 104.3073624° W

FIRST TAKE POINT (FTP)  
1980' FSL & 330' FWL SEC.33  
N: 521771.5 — E: 549922.5

LAT: 32.4344125° N  
LONG: 104.3055068° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)  
1980' FSL & 2344' FWL SEC.35  
N: 521691.2 — E: 562667.1

LAT: 32.4341760° N  
LONG: 104.2641977° W

CORNER DATA  
NAD 83 GRID — NM EAST

A: FOUND BRASS CAP "1943"  
N: 519633.4 — E: 544326.6

B: FOUND BRASS CAP "1943"  
N: 522387.4 — E: 544398.4

C: FOUND BRASS CAP "1976"  
N: 523750.7 — E: 544394.1

D: FOUND BRASS CAP "1943"  
N: 525113.1 — E: 544389.6

E: FOUND BRASS CAP "1976"  
N: 525117.5 — E: 547066.2

F: FOUND BRASS CAP "1976"  
N: 525161.0 — E: 549710.4

G: FOUND BRASS CAP "1976"  
N: 525130.7 — E: 552395.9

H: FOUND BRASS CAP "1976"  
N: 525163.0 — E: 555033.6

I: FOUND BRASS CAP "1976"  
N: 525175.3 — E: 557712.8

J: FOUND BRASS CAP "1976"  
N: 525189.7 — E: 560393.2

K: FOUND NAIL W/ WASHER  
N: 525252.3 — E: 563013.5

L: CALCULATED CORNER  
N: 525145.8 — E: 565668.3

M: FOUND REBAR  
N: 519715.8 — E: 565624.2

N: FOUND REBAR  
N: 519715.3 — E: 562987.9

O: FOUND REBAR  
N: 519685.9 — E: 560286.3

P: FOUND BRASS CAP "1943"  
N: 519669.7 — E: 557663.3

Q: FOUND BRASS CAP "1943"  
N: 519806.1 — E: 554820.5

R: FOUND ALUM CAP PS & PE "5412"  
N: 519799.2 — E: 552183.3

S: FOUND BRASS CAP "1943"  
N: 519792.9 — E: 549509.4

T: FOUND BRASS CAP "1943"  
N: 519649.8 — E: 546997.1

U: FOUND 1/2" REBAR  
N: 523810.0 — E: 549665.9

V: FOUND BRASS CAP "1976"  
N: 522459.0 — E: 549621.5

W: FOUND BRASS CAP "1976"  
N: 522485.2 — E: 554927.0

X: FOUND COTTON SPINDLE  
N: 522435.0 — E: 560338.6

JOB #: LS25010027D2

| Mewbourne Oil Company               |             |                |                     |        |               |              |               |
|-------------------------------------|-------------|----------------|---------------------|--------|---------------|--------------|---------------|
| Buffalo Nickel 33/35 State Com 716H |             |                |                     |        |               |              |               |
| SHL: 2160' FSL & 280' FEL (Sec 32)  |             |                |                     |        |               |              |               |
| BHL: 1980' FSL & 2344' FWL (Sec 35) |             |                |                     |        |               |              |               |
| Casing Type                         | Fluid Type  | Hole Size (in) | Casing Description  | Top MD | Setting Depth | Sacks Cement | Top of Cement |
| Conductor                           | Fresh Water | 26             | 20" 94# H40 STC     | 0      | 200           | 360          | 0'            |
| Surface                             | Brine       | 17.5           | 13.375" 48# H40 STC | 0'     | 648           | 390          | 0'            |
| Intermediate                        | Fresh Water | 12.25          | 9.625" 36# J55 LTC  | 0'     | 2080          | 500          | 0'            |
| Production                          | Cut-Brine   | 8.75           | 7" 26# P110 LTC     | 0'     | 7767          | 980          | 673'          |
| Liner                               | OBM         | 6.125          | 4.5" 13.5# P110 LTC | 7567'  | 21417         | 880          | 7567'         |

| Formation      | Est. Top (TVD) | Formation                 | Est. Top (TVD) |
|----------------|----------------|---------------------------|----------------|
| Rustler        |                | Delaware (Lamar)          |                |
| Castile        |                | Bell Canyon               |                |
| Salt Top       |                | Cherry Canyon             | 2155           |
| Marker Bed 126 |                | Manzanita Marker          |                |
| Salt Base      |                | Basal Brushy Canyon       | 3236           |
| Yates          | 368            | Bone Spring               | 4612           |
| Seven Rivers   |                | 1st Bone Spring Carbonate | 5492           |
| Queen          |                | 1st Bone Spring Sand      | 5843           |
| Capitan        | 723            | 2nd Bone Spring Carbonate | 6093           |
| Grayburg       |                | 2nd Bone Spring Sand      | 6421           |
| San Andres     |                | 3rd Bone Spring Carbonate | 6736           |
| Glorietta      |                | 3rd Bone Spring Sand      | 7908           |
| Yeso           |                | Wolfcamp                  | 8280           |

# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83

Buffalo Nickel 33/35 State Com #716H

Sec 32, T21S, R26E

SHL: 2160' FSL & 280' FEL (Sec 32)

BHL: 1980' FSL & 2344' FWL (Sec 35)

Plan: Design #1

## **Standard Planning Report**

30 October, 2025

Planning Report

|           |                                      |                              |                                           |
|-----------|--------------------------------------|------------------------------|-------------------------------------------|
| Database: | Hobbs                                | Local Co-ordinate Reference: | Site Buffalo Nickel 33/35 State Com #716H |
| Company:  | Mewbourne Oil Company                | TVD Reference:               | WELL @ 3284.0usft (Original Well Elev)    |
| Project:  | Eddy County, New Mexico NAD 83       | MD Reference:                | WELL @ 3284.0usft (Original Well Elev)    |
| Site:     | Buffalo Nickel 33/35 State Com #716H | North Reference:             | Grid                                      |
| Well:     | Sec 32, T21S, R26E                   | Survey Calculation Method:   | Minimum Curvature                         |
| Wellbore: | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                              |                                           |
| Design:   | Design #1                            |                              |                                           |

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

|                       |          |                                      |                 |            |              |
|-----------------------|----------|--------------------------------------|-----------------|------------|--------------|
| Site                  |          | Buffalo Nickel 33/35 State Com #716H |                 |            |              |
| Site Position:        |          | Northing:                            | 521,934.60 usft | Latitude:  | 32.4348613   |
| From:                 | Map      | Easting:                             | 549,320.70 usft | Longitude: | -104.3074572 |
| Position Uncertainty: | 0.0 usft | Slot Radius:                         | 13-3/16 "       |            |              |

|                      |                    |          |                     |                 |               |              |
|----------------------|--------------------|----------|---------------------|-----------------|---------------|--------------|
| Well                 | Sec 32, T21S, R26E |          |                     |                 |               |              |
| Well Position        | +N/-S              | 0.0 usft | Northing:           | 521,934.60 usft | Latitude:     | 32.4348613   |
|                      | +E/-W              | 0.0 usft | Easting:            | 549,320.70 usft | Longitude:    | -104.3074572 |
| Position Uncertainty |                    | 0.0 usft | Wellhead Elevation: | 3,284.0 usft    | Ground Level: | 3,256.0 usft |
| Grid Convergence:    |                    | 0.01 °   |                     |                 |               |              |

|           |                                     |             |                 |               |                     |
|-----------|-------------------------------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | BHL: 1980' FSL & 2344' FWL (Sec 35) |             |                 |               |                     |
| Magnetics | Model Name                          | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010                            | 12/31/2014  | 7.50            | 60.17         | 48,284.79079935     |

|                   |                         |              |               |               |
|-------------------|-------------------------|--------------|---------------|---------------|
| 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           | 91.04         |

| Plan Survey Tool Program |                    |                   | Date                            | 10/30/2025 |  |
|--------------------------|--------------------|-------------------|---------------------------------|------------|--|
| Depth From<br>(usft)     | Depth To<br>(usft) | Survey (Wellbore) | Tool Name                       | Remarks    |  |
| 1                        | 0.0                | 21,417.5          | Design #1 (BHL: 1980' FSL & 234 |            |  |

|                       |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| 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    |                      |
| 648.0                 | 0.00            | 0.00        | 648.0                 | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 721.2                 | 1.46            | 170.64      | 721.2                 | -0.9         | 0.2          | 2.00                    | 2.00                   | 0.00                  | 170.64  |                      |
| 7,694.1               | 1.46            | 170.64      | 7,691.8               | -176.8       | 29.1         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 7,767.3               | 0.00            | 0.00        | 7,765.0               | -177.7       | 29.3         | 2.00                    | -2.00                  | 0.00                  | 180.00  | KOP: 1980' FSL & 24: |
| 8,650.7               | 88.29           | 90.28       | 8,338.0               | -180.4       | 585.4        | 9.99                    | 9.99                   | 0.00                  | 90.28   |                      |
| 21,417.5              | 88.29           | 90.28       | 8,719.0               | -243.4       | 13,346.4     | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL: 1980' FSL & 234 |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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                  |
| SHL: 2160' FSL & 280' FEL (Sec 32) |                 |             |                       |              |              |                         |                         |                        |                       |
| 50.0                               | 0.00            | 0.00        | 50.0                  | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                              | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 150.0                              | 0.00            | 0.00        | 150.0                 | 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                  |
| 250.0                              | 0.00            | 0.00        | 250.0                 | 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                  |
| 350.0                              | 0.00            | 0.00        | 350.0                 | 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                  |
| 450.0                              | 0.00            | 0.00        | 450.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                              | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 550.0                              | 0.00            | 0.00        | 550.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                              | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 648.0                              | 0.00            | 0.00        | 648.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 650.0                              | 0.04            | 170.64      | 650.0                 | 0.0          | 0.0          | 0.0                     | 2.00                    | 2.00                   | 0.00                  |
| 700.0                              | 1.04            | 170.64      | 700.0                 | -0.5         | 0.1          | 0.1                     | 2.00                    | 2.00                   | 0.00                  |
| 721.2                              | 1.46            | 170.64      | 721.2                 | -0.9         | 0.2          | 0.2                     | 2.00                    | 2.00                   | 0.00                  |
| 750.0                              | 1.46            | 170.64      | 750.0                 | -1.6         | 0.3          | 0.3                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                              | 1.46            | 170.64      | 800.0                 | -2.9         | 0.5          | 0.5                     | 0.00                    | 0.00                   | 0.00                  |
| 850.0                              | 1.46            | 170.64      | 849.9                 | -4.2         | 0.7          | 0.8                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                              | 1.46            | 170.64      | 899.9                 | -5.4         | 0.9          | 1.0                     | 0.00                    | 0.00                   | 0.00                  |
| 950.0                              | 1.46            | 170.64      | 949.9                 | -6.7         | 1.1          | 1.2                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                            | 1.46            | 170.64      | 999.9                 | -8.0         | 1.3          | 1.5                     | 0.00                    | 0.00                   | 0.00                  |
| 1,050.0                            | 1.46            | 170.64      | 1,049.9               | -9.2         | 1.5          | 1.7                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                            | 1.46            | 170.64      | 1,099.9               | -10.5        | 1.7          | 1.9                     | 0.00                    | 0.00                   | 0.00                  |
| 1,150.0                            | 1.46            | 170.64      | 1,149.9               | -11.7        | 1.9          | 2.1                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                            | 1.46            | 170.64      | 1,199.8               | -13.0        | 2.1          | 2.4                     | 0.00                    | 0.00                   | 0.00                  |
| 1,250.0                            | 1.46            | 170.64      | 1,249.8               | -14.3        | 2.4          | 2.6                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                            | 1.46            | 170.64      | 1,299.8               | -15.5        | 2.6          | 2.8                     | 0.00                    | 0.00                   | 0.00                  |
| 1,350.0                            | 1.46            | 170.64      | 1,349.8               | -16.8        | 2.8          | 3.1                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                            | 1.46            | 170.64      | 1,399.8               | -18.0        | 3.0          | 3.3                     | 0.00                    | 0.00                   | 0.00                  |
| 1,450.0                            | 1.46            | 170.64      | 1,449.8               | -19.3        | 3.2          | 3.5                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                            | 1.46            | 170.64      | 1,499.7               | -20.6        | 3.4          | 3.8                     | 0.00                    | 0.00                   | 0.00                  |
| 1,550.0                            | 1.46            | 170.64      | 1,549.7               | -21.8        | 3.6          | 4.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                            | 1.46            | 170.64      | 1,599.7               | -23.1        | 3.8          | 4.2                     | 0.00                    | 0.00                   | 0.00                  |
| 1,650.0                            | 1.46            | 170.64      | 1,649.7               | -24.3        | 4.0          | 4.5                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                            | 1.46            | 170.64      | 1,699.7               | -25.6        | 4.2          | 4.7                     | 0.00                    | 0.00                   | 0.00                  |
| 1,750.0                            | 1.46            | 170.64      | 1,749.7               | -26.9        | 4.4          | 4.9                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                            | 1.46            | 170.64      | 1,799.6               | -28.1        | 4.6          | 5.2                     | 0.00                    | 0.00                   | 0.00                  |
| 1,850.0                            | 1.46            | 170.64      | 1,849.6               | -29.4        | 4.8          | 5.4                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                            | 1.46            | 170.64      | 1,899.6               | -30.7        | 5.1          | 5.6                     | 0.00                    | 0.00                   | 0.00                  |
| 1,950.0                            | 1.46            | 170.64      | 1,949.6               | -31.9        | 5.3          | 5.8                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                            | 1.46            | 170.64      | 1,999.6               | -33.2        | 5.5          | 6.1                     | 0.00                    | 0.00                   | 0.00                  |
| 2,050.0                            | 1.46            | 170.64      | 2,049.6               | -34.4        | 5.7          | 6.3                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                            | 1.46            | 170.64      | 2,099.5               | -35.7        | 5.9          | 6.5                     | 0.00                    | 0.00                   | 0.00                  |
| 2,150.0                            | 1.46            | 170.64      | 2,149.5               | -37.0        | 6.1          | 6.8                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                            | 1.46            | 170.64      | 2,199.5               | -38.2        | 6.3          | 7.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,250.0                            | 1.46            | 170.64      | 2,249.5               | -39.5        | 6.5          | 7.2                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                            | 1.46            | 170.64      | 2,299.5               | -40.7        | 6.7          | 7.5                     | 0.00                    | 0.00                   | 0.00                  |
| 2,350.0                            | 1.46            | 170.64      | 2,349.5               | -42.0        | 6.9          | 7.7                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                            | 1.46            | 170.64      | 2,399.4               | -43.3        | 7.1          | 7.9                     | 0.00                    | 0.00                   | 0.00                  |
| 2,450.0                            | 1.46            | 170.64      | 2,449.4               | -44.5        | 7.3          | 8.2                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                            | 1.46            | 170.64      | 2,499.4               | -45.8        | 7.5          | 8.4                     | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |  |
| 2,550.0               | 1.46            | 170.64      | 2,549.4               | -47.0        | 7.8          | 8.6                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,600.0               | 1.46            | 170.64      | 2,599.4               | -48.3        | 8.0          | 8.8                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,650.0               | 1.46            | 170.64      | 2,649.4               | -49.6        | 8.2          | 9.1                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,700.0               | 1.46            | 170.64      | 2,699.3               | -50.8        | 8.4          | 9.3                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,750.0               | 1.46            | 170.64      | 2,749.3               | -52.1        | 8.6          | 9.5                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,800.0               | 1.46            | 170.64      | 2,799.3               | -53.3        | 8.8          | 9.8                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,850.0               | 1.46            | 170.64      | 2,849.3               | -54.6        | 9.0          | 10.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,900.0               | 1.46            | 170.64      | 2,899.3               | -55.9        | 9.2          | 10.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,950.0               | 1.46            | 170.64      | 2,949.3               | -57.1        | 9.4          | 10.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,000.0               | 1.46            | 170.64      | 2,999.2               | -58.4        | 9.6          | 10.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,050.0               | 1.46            | 170.64      | 3,049.2               | -59.7        | 9.8          | 10.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,100.0               | 1.46            | 170.64      | 3,099.2               | -60.9        | 10.0         | 11.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,150.0               | 1.46            | 170.64      | 3,149.2               | -62.2        | 10.3         | 11.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,200.0               | 1.46            | 170.64      | 3,199.2               | -63.4        | 10.5         | 11.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,250.0               | 1.46            | 170.64      | 3,249.2               | -64.7        | 10.7         | 11.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,300.0               | 1.46            | 170.64      | 3,299.1               | -66.0        | 10.9         | 12.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,350.0               | 1.46            | 170.64      | 3,349.1               | -67.2        | 11.1         | 12.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,400.0               | 1.46            | 170.64      | 3,399.1               | -68.5        | 11.3         | 12.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,450.0               | 1.46            | 170.64      | 3,449.1               | -69.7        | 11.5         | 12.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,500.0               | 1.46            | 170.64      | 3,499.1               | -71.0        | 11.7         | 13.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,550.0               | 1.46            | 170.64      | 3,549.1               | -72.3        | 11.9         | 13.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,600.0               | 1.46            | 170.64      | 3,599.1               | -73.5        | 12.1         | 13.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,650.0               | 1.46            | 170.64      | 3,649.0               | -74.8        | 12.3         | 13.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,700.0               | 1.46            | 170.64      | 3,699.0               | -76.0        | 12.5         | 13.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,750.0               | 1.46            | 170.64      | 3,749.0               | -77.3        | 12.7         | 14.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,800.0               | 1.46            | 170.64      | 3,799.0               | -78.6        | 13.0         | 14.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,850.0               | 1.46            | 170.64      | 3,849.0               | -79.8        | 13.2         | 14.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,900.0               | 1.46            | 170.64      | 3,899.0               | -81.1        | 13.4         | 14.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,950.0               | 1.46            | 170.64      | 3,948.9               | -82.4        | 13.6         | 15.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,000.0               | 1.46            | 170.64      | 3,998.9               | -83.6        | 13.8         | 15.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,050.0               | 1.46            | 170.64      | 4,048.9               | -84.9        | 14.0         | 15.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,100.0               | 1.46            | 170.64      | 4,098.9               | -86.1        | 14.2         | 15.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,150.0               | 1.46            | 170.64      | 4,148.9               | -87.4        | 14.4         | 16.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,200.0               | 1.46            | 170.64      | 4,198.9               | -88.7        | 14.6         | 16.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,250.0               | 1.46            | 170.64      | 4,248.8               | -89.9        | 14.8         | 16.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,300.0               | 1.46            | 170.64      | 4,298.8               | -91.2        | 15.0         | 16.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,350.0               | 1.46            | 170.64      | 4,348.8               | -92.4        | 15.2         | 16.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,400.0               | 1.46            | 170.64      | 4,398.8               | -93.7        | 15.4         | 17.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,450.0               | 1.46            | 170.64      | 4,448.8               | -95.0        | 15.7         | 17.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,500.0               | 1.46            | 170.64      | 4,498.8               | -96.2        | 15.9         | 17.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,550.0               | 1.46            | 170.64      | 4,548.7               | -97.5        | 16.1         | 17.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,600.0               | 1.46            | 170.64      | 4,598.7               | -98.7        | 16.3         | 18.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,650.0               | 1.46            | 170.64      | 4,648.7               | -100.0       | 16.5         | 18.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,700.0               | 1.46            | 170.64      | 4,698.7               | -101.3       | 16.7         | 18.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,750.0               | 1.46            | 170.64      | 4,748.7               | -102.5       | 16.9         | 18.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,800.0               | 1.46            | 170.64      | 4,798.7               | -103.8       | 17.1         | 19.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,850.0               | 1.46            | 170.64      | 4,848.6               | -105.0       | 17.3         | 19.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,900.0               | 1.46            | 170.64      | 4,898.6               | -106.3       | 17.5         | 19.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,950.0               | 1.46            | 170.64      | 4,948.6               | -107.6       | 17.7         | 19.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,000.0               | 1.46            | 170.64      | 4,998.6               | -108.8       | 17.9         | 19.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,050.0               | 1.46            | 170.64      | 5,048.6               | -110.1       | 18.2         | 20.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,100.0               | 1.46            | 170.64      | 5,098.6               | -111.4       | 18.4         | 20.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,150.0               | 1.46            | 170.64      | 5,148.5               | -112.6       | 18.6         | 20.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,200.0               | 1.46            | 170.64      | 5,198.5               | -113.9       | 18.8         | 20.8                    | 0.00                    | 0.00                   | 0.00                  |  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |  |
| 5,250.0                            | 1.46            | 170.64      | 5,248.5               | -115.1       | 19.0         | 21.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,300.0                            | 1.46            | 170.64      | 5,298.5               | -116.4       | 19.2         | 21.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,350.0                            | 1.46            | 170.64      | 5,348.5               | -117.7       | 19.4         | 21.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0                            | 1.46            | 170.64      | 5,398.5               | -118.9       | 19.6         | 21.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,450.0                            | 1.46            | 170.64      | 5,448.4               | -120.2       | 19.8         | 22.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0                            | 1.46            | 170.64      | 5,498.4               | -121.4       | 20.0         | 22.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,550.0                            | 1.46            | 170.64      | 5,548.4               | -122.7       | 20.2         | 22.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0                            | 1.46            | 170.64      | 5,598.4               | -124.0       | 20.4         | 22.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,650.0                            | 1.46            | 170.64      | 5,648.4               | -125.2       | 20.6         | 22.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0                            | 1.46            | 170.64      | 5,698.4               | -126.5       | 20.9         | 23.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,750.0                            | 1.46            | 170.64      | 5,748.3               | -127.7       | 21.1         | 23.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0                            | 1.46            | 170.64      | 5,798.3               | -129.0       | 21.3         | 23.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,850.0                            | 1.46            | 170.64      | 5,848.3               | -130.3       | 21.5         | 23.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0                            | 1.46            | 170.64      | 5,898.3               | -131.5       | 21.7         | 24.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,950.0                            | 1.46            | 170.64      | 5,948.3               | -132.8       | 21.9         | 24.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0                            | 1.46            | 170.64      | 5,998.3               | -134.1       | 22.1         | 24.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,050.0                            | 1.46            | 170.64      | 6,048.3               | -135.3       | 22.3         | 24.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0                            | 1.46            | 170.64      | 6,098.2               | -136.6       | 22.5         | 25.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,150.0                            | 1.46            | 170.64      | 6,148.2               | -137.8       | 22.7         | 25.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0                            | 1.46            | 170.64      | 6,198.2               | -139.1       | 22.9         | 25.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,250.0                            | 1.46            | 170.64      | 6,248.2               | -140.4       | 23.1         | 25.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0                            | 1.46            | 170.64      | 6,298.2               | -141.6       | 23.4         | 25.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,350.0                            | 1.46            | 170.64      | 6,348.2               | -142.9       | 23.6         | 26.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0                            | 1.46            | 170.64      | 6,398.1               | -144.1       | 23.8         | 26.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,450.0                            | 1.46            | 170.64      | 6,448.1               | -145.4       | 24.0         | 26.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0                            | 1.46            | 170.64      | 6,498.1               | -146.7       | 24.2         | 26.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,550.0                            | 1.46            | 170.64      | 6,548.1               | -147.9       | 24.4         | 27.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0                            | 1.46            | 170.64      | 6,598.1               | -149.2       | 24.6         | 27.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,650.0                            | 1.46            | 170.64      | 6,648.1               | -150.4       | 24.8         | 27.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0                            | 1.46            | 170.64      | 6,698.0               | -151.7       | 25.0         | 27.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,750.0                            | 1.46            | 170.64      | 6,748.0               | -153.0       | 25.2         | 28.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0                            | 1.46            | 170.64      | 6,798.0               | -154.2       | 25.4         | 28.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,850.0                            | 1.46            | 170.64      | 6,848.0               | -155.5       | 25.6         | 28.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0                            | 1.46            | 170.64      | 6,898.0               | -156.8       | 25.8         | 28.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 6,950.0                            | 1.46            | 170.64      | 6,948.0               | -158.0       | 26.1         | 28.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0                            | 1.46            | 170.64      | 6,997.9               | -159.3       | 26.3         | 29.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,050.0                            | 1.46            | 170.64      | 7,047.9               | -160.5       | 26.5         | 29.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0                            | 1.46            | 170.64      | 7,097.9               | -161.8       | 26.7         | 29.6                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,150.0                            | 1.46            | 170.64      | 7,147.9               | -163.1       | 26.9         | 29.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0                            | 1.46            | 170.64      | 7,197.9               | -164.3       | 27.1         | 30.1                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,250.0                            | 1.46            | 170.64      | 7,247.9               | -165.6       | 27.3         | 30.3                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0                            | 1.46            | 170.64      | 7,297.8               | -166.8       | 27.5         | 30.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,350.0                            | 1.46            | 170.64      | 7,347.8               | -168.1       | 27.7         | 30.8                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0                            | 1.46            | 170.64      | 7,397.8               | -169.4       | 27.9         | 31.0                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,450.0                            | 1.46            | 170.64      | 7,447.8               | -170.6       | 28.1         | 31.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0                            | 1.46            | 170.64      | 7,497.8               | -171.9       | 28.3         | 31.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,550.0                            | 1.46            | 170.64      | 7,547.8               | -173.1       | 28.5         | 31.7                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0                            | 1.46            | 170.64      | 7,597.7               | -174.4       | 28.8         | 31.9                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,650.0                            | 1.46            | 170.64      | 7,647.7               | -175.7       | 29.0         | 32.2                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,694.1                            | 1.46            | 170.64      | 7,691.8               | -176.8       | 29.1         | 32.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0                            | 1.35            | 170.64      | 7,697.7               | -176.9       | 29.2         | 32.4                    | 2.00                    | -2.00                  | 0.00                  |  |
| 7,750.0                            | 0.35            | 170.64      | 7,747.7               | -177.6       | 29.3         | 32.5                    | 2.00                    | -2.00                  | 0.00                  |  |
| 7,767.3                            | 0.00            | 0.00        | 7,765.0               | -177.7       | 29.3         | 32.5                    | 2.00                    | -2.00                  | 0.00                  |  |
| KOP: 1980' FSL & 243' FEL (Sec 32) |                 |             |                       |              |              |                         |                         |                        |                       |  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |
| 7,800.0                               | 3.27            | 90.28       | 7,797.7               | -177.7       | 30.2         | 33.5                    | 9.99                    | 9.99                   | 0.00                  |
| 7,850.0                               | 8.27            | 90.28       | 7,847.4               | -177.7       | 35.3         | 38.5                    | 9.99                    | 9.99                   | 0.00                  |
| 7,900.0                               | 13.26           | 90.28       | 7,896.5               | -177.8       | 44.6         | 47.8                    | 9.99                    | 9.99                   | 0.00                  |
| 7,950.0                               | 18.26           | 90.28       | 7,944.6               | -177.8       | 58.2         | 61.4                    | 9.99                    | 9.99                   | 0.00                  |
| 8,000.0                               | 23.26           | 90.28       | 7,991.4               | -177.9       | 75.9         | 79.1                    | 9.99                    | 9.99                   | 0.00                  |
| 8,050.0                               | 28.26           | 90.28       | 8,036.4               | -178.0       | 97.6         | 100.8                   | 9.99                    | 9.99                   | 0.00                  |
| 8,100.0                               | 33.25           | 90.28       | 8,079.3               | -178.2       | 123.2        | 126.4                   | 9.99                    | 9.99                   | 0.00                  |
| 8,150.0                               | 38.25           | 90.28       | 8,119.9               | -178.3       | 152.4        | 155.6                   | 9.99                    | 9.99                   | 0.00                  |
| 8,200.0                               | 43.25           | 90.28       | 8,157.8               | -178.5       | 185.0        | 188.2                   | 9.99                    | 9.99                   | 0.00                  |
| 8,250.0                               | 48.25           | 90.28       | 8,192.7               | -178.6       | 220.8        | 224.0                   | 9.99                    | 9.99                   | 0.00                  |
| 8,300.0                               | 53.24           | 90.28       | 8,224.3               | -178.8       | 259.5        | 262.7                   | 9.99                    | 9.99                   | 0.00                  |
| 8,350.0                               | 58.24           | 90.28       | 8,252.4               | -179.0       | 300.8        | 304.0                   | 9.99                    | 9.99                   | 0.00                  |
| 8,400.0                               | 63.24           | 90.28       | 8,276.8               | -179.3       | 344.4        | 347.6                   | 9.99                    | 9.99                   | 0.00                  |
| 8,450.0                               | 68.24           | 90.28       | 8,297.4               | -179.5       | 390.0        | 393.2                   | 9.99                    | 9.99                   | 0.00                  |
| 8,500.0                               | 73.23           | 90.28       | 8,313.9               | -179.7       | 437.2        | 440.4                   | 9.99                    | 9.99                   | 0.00                  |
| 8,550.0                               | 78.23           | 90.28       | 8,326.2               | -180.0       | 485.6        | 488.8                   | 9.99                    | 9.99                   | 0.00                  |
| 8,600.0                               | 83.23           | 90.28       | 8,334.3               | -180.2       | 534.9        | 538.1                   | 9.99                    | 9.99                   | 0.00                  |
| 8,650.0                               | 88.22           | 90.28       | 8,338.0               | -180.4       | 584.8        | 588.0                   | 9.99                    | 9.99                   | 0.00                  |
| 8,650.7                               | 88.29           | 90.28       | 8,338.0               | -180.4       | 585.4        | 588.6                   | 9.99                    | 9.99                   | 0.00                  |
| 8,667.0                               | 88.29           | 90.28       | 8,338.5               | -180.5       | 601.8        | 605.0                   | 0.00                    | 0.00                   | 0.00                  |
| FTP/LP: 1980' FSL & 330' FWL (Sec 33) |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,700.0                               | 88.29           | 90.28       | 8,339.5               | -180.7       | 634.8        | 638.0                   | 0.00                    | 0.00                   | 0.00                  |
| 8,750.0                               | 88.29           | 90.28       | 8,341.0               | -180.9       | 684.7        | 687.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0                               | 88.29           | 90.28       | 8,342.5               | -181.2       | 734.7        | 737.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,850.0                               | 88.29           | 90.28       | 8,343.9               | -181.4       | 784.7        | 787.9                   | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0                               | 88.29           | 90.28       | 8,345.4               | -181.7       | 834.7        | 837.8                   | 0.00                    | 0.00                   | 0.00                  |
| 8,950.0                               | 88.29           | 90.28       | 8,346.9               | -181.9       | 884.7        | 887.8                   | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0                               | 88.29           | 90.28       | 8,348.4               | -182.2       | 934.6        | 937.8                   | 0.00                    | 0.00                   | 0.00                  |
| 9,050.0                               | 88.29           | 90.28       | 8,349.9               | -182.4       | 984.6        | 987.8                   | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0                               | 88.29           | 90.28       | 8,351.4               | -182.7       | 1,034.6      | 1,037.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,150.0                               | 88.29           | 90.28       | 8,352.9               | -182.9       | 1,084.6      | 1,087.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0                               | 88.29           | 90.28       | 8,354.4               | -183.2       | 1,134.5      | 1,137.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,250.0                               | 88.29           | 90.28       | 8,355.9               | -183.4       | 1,184.5      | 1,187.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                               | 88.29           | 90.28       | 8,357.4               | -183.6       | 1,234.5      | 1,237.6                 | 0.00                    | 0.00                   | 0.00                  |
| 9,350.0                               | 88.29           | 90.28       | 8,358.9               | -183.9       | 1,284.5      | 1,287.6                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                               | 88.29           | 90.28       | 8,360.4               | -184.1       | 1,334.4      | 1,337.6                 | 0.00                    | 0.00                   | 0.00                  |
| 9,450.0                               | 88.29           | 90.28       | 8,361.9               | -184.4       | 1,384.4      | 1,387.6                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                               | 88.29           | 90.28       | 8,363.3               | -184.6       | 1,434.4      | 1,437.5                 | 0.00                    | 0.00                   | 0.00                  |
| 9,550.0                               | 88.29           | 90.28       | 8,364.8               | -184.9       | 1,484.4      | 1,487.5                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0                               | 88.29           | 90.28       | 8,366.3               | -185.1       | 1,534.4      | 1,537.5                 | 0.00                    | 0.00                   | 0.00                  |
| 9,650.0                               | 88.29           | 90.28       | 8,367.8               | -185.4       | 1,584.3      | 1,587.4                 | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                               | 88.29           | 90.28       | 8,369.3               | -185.6       | 1,634.3      | 1,637.4                 | 0.00                    | 0.00                   | 0.00                  |
| 9,750.0                               | 88.29           | 90.28       | 8,370.8               | -185.9       | 1,684.3      | 1,687.4                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                               | 88.29           | 90.28       | 8,372.3               | -186.1       | 1,734.3      | 1,737.4                 | 0.00                    | 0.00                   | 0.00                  |
| 9,850.0                               | 88.29           | 90.28       | 8,373.8               | -186.4       | 1,784.2      | 1,787.3                 | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                               | 88.29           | 90.28       | 8,375.3               | -186.6       | 1,834.2      | 1,837.3                 | 0.00                    | 0.00                   | 0.00                  |
| 9,950.0                               | 88.29           | 90.28       | 8,376.8               | -186.9       | 1,884.2      | 1,887.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                              | 88.29           | 90.28       | 8,378.3               | -187.1       | 1,934.2      | 1,937.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,050.0                              | 88.29           | 90.28       | 8,379.8               | -187.3       | 1,984.1      | 1,987.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                              | 88.29           | 90.28       | 8,381.3               | -187.6       | 2,034.1      | 2,037.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,150.0                              | 88.29           | 90.28       | 8,382.7               | -187.8       | 2,084.1      | 2,087.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0                              | 88.29           | 90.28       | 8,384.2               | -188.1       | 2,134.1      | 2,137.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,250.0                              | 88.29           | 90.28       | 8,385.7               | -188.3       | 2,184.1      | 2,187.1                 | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |  |
| 10,300.0              | 88.29           | 90.28       | 8,387.2               | -188.6       | 2,234.0      | 2,237.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,350.0              | 88.29           | 90.28       | 8,388.7               | -188.8       | 2,284.0      | 2,287.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0              | 88.29           | 90.28       | 8,390.2               | -189.1       | 2,334.0      | 2,337.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,450.0              | 88.29           | 90.28       | 8,391.7               | -189.3       | 2,384.0      | 2,387.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0              | 88.29           | 90.28       | 8,393.2               | -189.6       | 2,433.9      | 2,437.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,550.0              | 88.29           | 90.28       | 8,394.7               | -189.8       | 2,483.9      | 2,487.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0              | 88.29           | 90.28       | 8,396.2               | -190.1       | 2,533.9      | 2,536.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,650.0              | 88.29           | 90.28       | 8,397.7               | -190.3       | 2,583.9      | 2,586.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.0              | 88.29           | 90.28       | 8,399.2               | -190.5       | 2,633.9      | 2,636.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,750.0              | 88.29           | 90.28       | 8,400.7               | -190.8       | 2,683.8      | 2,686.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.0              | 88.29           | 90.28       | 8,402.1               | -191.0       | 2,733.8      | 2,736.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,850.0              | 88.29           | 90.28       | 8,403.6               | -191.3       | 2,783.8      | 2,786.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.0              | 88.29           | 90.28       | 8,405.1               | -191.5       | 2,833.8      | 2,836.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,950.0              | 88.29           | 90.28       | 8,406.6               | -191.8       | 2,883.7      | 2,886.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.0              | 88.29           | 90.28       | 8,408.1               | -192.0       | 2,933.7      | 2,936.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,050.0              | 88.29           | 90.28       | 8,409.6               | -192.3       | 2,983.7      | 2,986.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.0              | 88.29           | 90.28       | 8,411.1               | -192.5       | 3,033.7      | 3,036.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,150.0              | 88.29           | 90.28       | 8,412.6               | -192.8       | 3,083.6      | 3,086.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.0              | 88.29           | 90.28       | 8,414.1               | -193.0       | 3,133.6      | 3,136.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,250.0              | 88.29           | 90.28       | 8,415.6               | -193.3       | 3,183.6      | 3,186.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.0              | 88.29           | 90.28       | 8,417.1               | -193.5       | 3,233.6      | 3,236.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,350.0              | 88.29           | 90.28       | 8,418.6               | -193.8       | 3,283.6      | 3,286.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,400.0              | 88.29           | 90.28       | 8,420.0               | -194.0       | 3,333.5      | 3,336.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,450.0              | 88.29           | 90.28       | 8,421.5               | -194.2       | 3,383.5      | 3,386.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.0              | 88.29           | 90.28       | 8,423.0               | -194.5       | 3,433.5      | 3,436.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,550.0              | 88.29           | 90.28       | 8,424.5               | -194.7       | 3,483.5      | 3,486.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.0              | 88.29           | 90.28       | 8,426.0               | -195.0       | 3,533.4      | 3,536.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,650.0              | 88.29           | 90.28       | 8,427.5               | -195.2       | 3,583.4      | 3,586.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.0              | 88.29           | 90.28       | 8,429.0               | -195.5       | 3,633.4      | 3,636.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,750.0              | 88.29           | 90.28       | 8,430.5               | -195.7       | 3,683.4      | 3,686.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.0              | 88.29           | 90.28       | 8,432.0               | -196.0       | 3,733.3      | 3,736.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,850.0              | 88.29           | 90.28       | 8,433.5               | -196.2       | 3,783.3      | 3,786.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.0              | 88.29           | 90.28       | 8,435.0               | -196.5       | 3,833.3      | 3,836.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,950.0              | 88.29           | 90.28       | 8,436.5               | -196.7       | 3,883.3      | 3,886.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,000.0              | 88.29           | 90.28       | 8,438.0               | -197.0       | 3,933.3      | 3,936.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,050.0              | 88.29           | 90.28       | 8,439.4               | -197.2       | 3,983.2      | 3,986.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.0              | 88.29           | 90.28       | 8,440.9               | -197.5       | 4,033.2      | 4,036.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,150.0              | 88.29           | 90.28       | 8,442.4               | -197.7       | 4,083.2      | 4,086.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.0              | 88.29           | 90.28       | 8,443.9               | -197.9       | 4,133.2      | 4,136.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,250.0              | 88.29           | 90.28       | 8,445.4               | -198.2       | 4,183.1      | 4,186.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.0              | 88.29           | 90.28       | 8,446.9               | -198.4       | 4,233.1      | 4,236.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,350.0              | 88.29           | 90.28       | 8,448.4               | -198.7       | 4,283.1      | 4,286.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.0              | 88.29           | 90.28       | 8,449.9               | -198.9       | 4,333.1      | 4,336.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,450.0              | 88.29           | 90.28       | 8,451.4               | -199.2       | 4,383.1      | 4,386.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.0              | 88.29           | 90.28       | 8,452.9               | -199.4       | 4,433.0      | 4,435.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,550.0              | 88.29           | 90.28       | 8,454.4               | -199.7       | 4,483.0      | 4,485.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.0              | 88.29           | 90.28       | 8,455.9               | -199.9       | 4,533.0      | 4,535.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,650.0              | 88.29           | 90.28       | 8,457.4               | -200.2       | 4,583.0      | 4,585.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.0              | 88.29           | 90.28       | 8,458.8               | -200.4       | 4,632.9      | 4,635.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,750.0              | 88.29           | 90.28       | 8,460.3               | -200.7       | 4,682.9      | 4,685.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.0              | 88.29           | 90.28       | 8,461.8               | -200.9       | 4,732.9      | 4,735.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,850.0              | 88.29           | 90.28       | 8,463.3               | -201.2       | 4,782.9      | 4,785.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.0              | 88.29           | 90.28       | 8,464.8               | -201.4       | 4,832.8      | 4,835.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,950.0              | 88.29           | 90.28       | 8,466.3               | -201.6       | 4,882.8      | 4,885.7                 | 0.00                    | 0.00                   | 0.00                  |  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |
| 13,000.0              | 88.29           | 90.28       | 8,467.8               | -201.9       | 4,932.8      | 4,935.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,050.0              | 88.29           | 90.28       | 8,469.3               | -202.1       | 4,982.8      | 4,985.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 88.29           | 90.28       | 8,470.8               | -202.4       | 5,032.8      | 5,035.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,150.0              | 88.29           | 90.28       | 8,472.3               | -202.6       | 5,082.7      | 5,085.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 88.29           | 90.28       | 8,473.8               | -202.9       | 5,132.7      | 5,135.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,250.0              | 88.29           | 90.28       | 8,475.3               | -203.1       | 5,182.7      | 5,185.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 88.29           | 90.28       | 8,476.8               | -203.4       | 5,232.7      | 5,235.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,350.0              | 88.29           | 90.28       | 8,478.2               | -203.6       | 5,282.6      | 5,285.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 88.29           | 90.28       | 8,479.7               | -203.9       | 5,332.6      | 5,335.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,450.0              | 88.29           | 90.28       | 8,481.2               | -204.1       | 5,382.6      | 5,385.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 88.29           | 90.28       | 8,482.7               | -204.4       | 5,432.6      | 5,435.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,550.0              | 88.29           | 90.28       | 8,484.2               | -204.6       | 5,482.5      | 5,485.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 88.29           | 90.28       | 8,485.7               | -204.9       | 5,532.5      | 5,535.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,650.0              | 88.29           | 90.28       | 8,487.2               | -205.1       | 5,582.5      | 5,585.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 88.29           | 90.28       | 8,488.7               | -205.3       | 5,632.5      | 5,635.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,750.0              | 88.29           | 90.28       | 8,490.2               | -205.6       | 5,682.5      | 5,685.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 88.29           | 90.28       | 8,491.7               | -205.8       | 5,732.4      | 5,735.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,850.0              | 88.29           | 90.28       | 8,493.2               | -206.1       | 5,782.4      | 5,785.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 88.29           | 90.28       | 8,494.7               | -206.3       | 5,832.4      | 5,835.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,950.0              | 88.29           | 90.28       | 8,496.1               | -206.6       | 5,882.4      | 5,885.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 88.29           | 90.28       | 8,497.6               | -206.8       | 5,932.3      | 5,935.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,050.0              | 88.29           | 90.28       | 8,499.1               | -207.1       | 5,982.3      | 5,985.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 88.29           | 90.28       | 8,500.6               | -207.3       | 6,032.3      | 6,035.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,150.0              | 88.29           | 90.28       | 8,502.1               | -207.6       | 6,082.3      | 6,085.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 88.29           | 90.28       | 8,503.6               | -207.8       | 6,132.3      | 6,135.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,250.0              | 88.29           | 90.28       | 8,505.1               | -208.1       | 6,182.2      | 6,185.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 88.29           | 90.28       | 8,506.6               | -208.3       | 6,232.2      | 6,235.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,350.0              | 88.29           | 90.28       | 8,508.1               | -208.5       | 6,282.2      | 6,284.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 88.29           | 90.28       | 8,509.6               | -208.8       | 6,332.2      | 6,334.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,450.0              | 88.29           | 90.28       | 8,511.1               | -209.0       | 6,382.1      | 6,384.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 88.29           | 90.28       | 8,512.6               | -209.3       | 6,432.1      | 6,434.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,550.0              | 88.29           | 90.28       | 8,514.1               | -209.5       | 6,482.1      | 6,484.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 88.29           | 90.28       | 8,515.5               | -209.8       | 6,532.1      | 6,534.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,650.0              | 88.29           | 90.28       | 8,517.0               | -210.0       | 6,582.0      | 6,584.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 88.29           | 90.28       | 8,518.5               | -210.3       | 6,632.0      | 6,634.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,750.0              | 88.29           | 90.28       | 8,520.0               | -210.5       | 6,682.0      | 6,684.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 88.29           | 90.28       | 8,521.5               | -210.8       | 6,732.0      | 6,734.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,850.0              | 88.29           | 90.28       | 8,523.0               | -211.0       | 6,782.0      | 6,784.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 88.29           | 90.28       | 8,524.5               | -211.3       | 6,831.9      | 6,834.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,950.0              | 88.29           | 90.28       | 8,526.0               | -211.5       | 6,881.9      | 6,884.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 88.29           | 90.28       | 8,527.5               | -211.8       | 6,931.9      | 6,934.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,050.0              | 88.29           | 90.28       | 8,529.0               | -212.0       | 6,981.9      | 6,984.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 88.29           | 90.28       | 8,530.5               | -212.2       | 7,031.8      | 7,034.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,150.0              | 88.29           | 90.28       | 8,532.0               | -212.5       | 7,081.8      | 7,084.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 88.29           | 90.28       | 8,533.5               | -212.7       | 7,131.8      | 7,134.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,250.0              | 88.29           | 90.28       | 8,534.9               | -213.0       | 7,181.8      | 7,184.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 88.29           | 90.28       | 8,536.4               | -213.2       | 7,231.7      | 7,234.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,350.0              | 88.29           | 90.28       | 8,537.9               | -213.5       | 7,281.7      | 7,284.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 88.29           | 90.28       | 8,539.4               | -213.7       | 7,331.7      | 7,334.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,450.0              | 88.29           | 90.28       | 8,540.9               | -214.0       | 7,381.7      | 7,384.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 88.29           | 90.28       | 8,542.4               | -214.2       | 7,431.7      | 7,434.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,550.0              | 88.29           | 90.28       | 8,543.9               | -214.5       | 7,481.6      | 7,484.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 88.29           | 90.28       | 8,545.4               | -214.7       | 7,531.6      | 7,534.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,650.0              | 88.29           | 90.28       | 8,546.9               | -215.0       | 7,581.6      | 7,584.2                 | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |  |
| 15,700.0              | 88.29           | 90.28       | 8,548.4               | -215.2       | 7,631.6      | 7,634.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,750.0              | 88.29           | 90.28       | 8,549.9               | -215.5       | 7,681.5      | 7,684.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0              | 88.29           | 90.28       | 8,551.4               | -215.7       | 7,731.5      | 7,734.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,850.0              | 88.29           | 90.28       | 8,552.9               | -215.9       | 7,781.5      | 7,784.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,900.0              | 88.29           | 90.28       | 8,554.3               | -216.2       | 7,831.5      | 7,834.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,950.0              | 88.29           | 90.28       | 8,555.8               | -216.4       | 7,881.4      | 7,884.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,000.0              | 88.29           | 90.28       | 8,557.3               | -216.7       | 7,931.4      | 7,934.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,050.0              | 88.29           | 90.28       | 8,558.8               | -216.9       | 7,981.4      | 7,984.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,100.0              | 88.29           | 90.28       | 8,560.3               | -217.2       | 8,031.4      | 8,034.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,150.0              | 88.29           | 90.28       | 8,561.8               | -217.4       | 8,081.4      | 8,084.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,200.0              | 88.29           | 90.28       | 8,563.3               | -217.7       | 8,131.3      | 8,134.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,250.0              | 88.29           | 90.28       | 8,564.8               | -217.9       | 8,181.3      | 8,183.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,300.0              | 88.29           | 90.28       | 8,566.3               | -218.2       | 8,231.3      | 8,233.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,350.0              | 88.29           | 90.28       | 8,567.8               | -218.4       | 8,281.3      | 8,283.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,400.0              | 88.29           | 90.28       | 8,569.3               | -218.7       | 8,331.2      | 8,333.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,450.0              | 88.29           | 90.28       | 8,570.8               | -218.9       | 8,381.2      | 8,383.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,500.0              | 88.29           | 90.28       | 8,572.2               | -219.2       | 8,431.2      | 8,433.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,550.0              | 88.29           | 90.28       | 8,573.7               | -219.4       | 8,481.2      | 8,483.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,600.0              | 88.29           | 90.28       | 8,575.2               | -219.6       | 8,531.2      | 8,533.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,650.0              | 88.29           | 90.28       | 8,576.7               | -219.9       | 8,581.1      | 8,583.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,700.0              | 88.29           | 90.28       | 8,578.2               | -220.1       | 8,631.1      | 8,633.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,750.0              | 88.29           | 90.28       | 8,579.7               | -220.4       | 8,681.1      | 8,683.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,800.0              | 88.29           | 90.28       | 8,581.2               | -220.6       | 8,731.1      | 8,733.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,850.0              | 88.29           | 90.28       | 8,582.7               | -220.9       | 8,781.0      | 8,783.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,900.0              | 88.29           | 90.28       | 8,584.2               | -221.1       | 8,831.0      | 8,833.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,950.0              | 88.29           | 90.28       | 8,585.7               | -221.4       | 8,881.0      | 8,883.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,000.0              | 88.29           | 90.28       | 8,587.2               | -221.6       | 8,931.0      | 8,933.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,050.0              | 88.29           | 90.28       | 8,588.7               | -221.9       | 8,980.9      | 8,983.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,100.0              | 88.29           | 90.28       | 8,590.2               | -222.1       | 9,030.9      | 9,033.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,150.0              | 88.29           | 90.28       | 8,591.6               | -222.4       | 9,080.9      | 9,083.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,200.0              | 88.29           | 90.28       | 8,593.1               | -222.6       | 9,130.9      | 9,133.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,250.0              | 88.29           | 90.28       | 8,594.6               | -222.8       | 9,180.9      | 9,183.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,300.0              | 88.29           | 90.28       | 8,596.1               | -223.1       | 9,230.8      | 9,233.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,350.0              | 88.29           | 90.28       | 8,597.6               | -223.3       | 9,280.8      | 9,283.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,400.0              | 88.29           | 90.28       | 8,599.1               | -223.6       | 9,330.8      | 9,333.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,450.0              | 88.29           | 90.28       | 8,600.6               | -223.8       | 9,380.8      | 9,383.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,500.0              | 88.29           | 90.28       | 8,602.1               | -224.1       | 9,430.7      | 9,433.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,550.0              | 88.29           | 90.28       | 8,603.6               | -224.3       | 9,480.7      | 9,483.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,600.0              | 88.29           | 90.28       | 8,605.1               | -224.6       | 9,530.7      | 9,533.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,650.0              | 88.29           | 90.28       | 8,606.6               | -224.8       | 9,580.7      | 9,583.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,700.0              | 88.29           | 90.28       | 8,608.1               | -225.1       | 9,630.6      | 9,633.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,750.0              | 88.29           | 90.28       | 8,609.6               | -225.3       | 9,680.6      | 9,683.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,800.0              | 88.29           | 90.28       | 8,611.0               | -225.6       | 9,730.6      | 9,733.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,850.0              | 88.29           | 90.28       | 8,612.5               | -225.8       | 9,780.6      | 9,783.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,900.0              | 88.29           | 90.28       | 8,614.0               | -226.1       | 9,830.6      | 9,833.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,950.0              | 88.29           | 90.28       | 8,615.5               | -226.3       | 9,880.5      | 9,883.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,000.0              | 88.29           | 90.28       | 8,617.0               | -226.5       | 9,930.5      | 9,933.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,050.0              | 88.29           | 90.28       | 8,618.5               | -226.8       | 9,980.5      | 9,983.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 18,100.0              | 88.29           | 90.28       | 8,620.0               | -227.0       | 10,030.5     | 10,032.9                | 0.00                    | 0.00                   | 0.00                  |  |
| 18,150.0              | 88.29           | 90.28       | 8,621.5               | -227.3       | 10,080.4     | 10,082.9                | 0.00                    | 0.00                   | 0.00                  |  |
| 18,200.0              | 88.29           | 90.28       | 8,623.0               | -227.5       | 10,130.4     | 10,132.9                | 0.00                    | 0.00                   | 0.00                  |  |
| 18,250.0              | 88.29           | 90.28       | 8,624.5               | -227.8       | 10,180.4     | 10,182.9                | 0.00                    | 0.00                   | 0.00                  |  |
| 18,300.0              | 88.29           | 90.28       | 8,626.0               | -228.0       | 10,230.4     | 10,232.8                | 0.00                    | 0.00                   | 0.00                  |  |
| 18,350.0              | 88.29           | 90.28       | 8,627.5               | -228.3       | 10,280.4     | 10,282.8                | 0.00                    | 0.00                   | 0.00                  |  |

## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |
| 18,400.0              | 88.29           | 90.28       | 8,628.9               | -228.5       | 10,330.3     | 10,332.8                | 0.00                    | 0.00                   | 0.00                  |
| 18,450.0              | 88.29           | 90.28       | 8,630.4               | -228.8       | 10,380.3     | 10,382.8                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.0              | 88.29           | 90.28       | 8,631.9               | -229.0       | 10,430.3     | 10,432.7                | 0.00                    | 0.00                   | 0.00                  |
| 18,550.0              | 88.29           | 90.28       | 8,633.4               | -229.3       | 10,480.3     | 10,482.7                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.0              | 88.29           | 90.28       | 8,634.9               | -229.5       | 10,530.2     | 10,532.7                | 0.00                    | 0.00                   | 0.00                  |
| 18,650.0              | 88.29           | 90.28       | 8,636.4               | -229.8       | 10,580.2     | 10,582.6                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.0              | 88.29           | 90.28       | 8,637.9               | -230.0       | 10,630.2     | 10,632.6                | 0.00                    | 0.00                   | 0.00                  |
| 18,750.0              | 88.29           | 90.28       | 8,639.4               | -230.2       | 10,680.2     | 10,682.6                | 0.00                    | 0.00                   | 0.00                  |
| 18,800.0              | 88.29           | 90.28       | 8,640.9               | -230.5       | 10,730.1     | 10,732.6                | 0.00                    | 0.00                   | 0.00                  |
| 18,850.0              | 88.29           | 90.28       | 8,642.4               | -230.7       | 10,780.1     | 10,782.5                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.0              | 88.29           | 90.28       | 8,643.9               | -231.0       | 10,830.1     | 10,832.5                | 0.00                    | 0.00                   | 0.00                  |
| 18,950.0              | 88.29           | 90.28       | 8,645.4               | -231.2       | 10,880.1     | 10,882.5                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.0              | 88.29           | 90.28       | 8,646.9               | -231.5       | 10,930.1     | 10,932.5                | 0.00                    | 0.00                   | 0.00                  |
| 19,050.0              | 88.29           | 90.28       | 8,648.3               | -231.7       | 10,980.0     | 10,982.4                | 0.00                    | 0.00                   | 0.00                  |
| 19,100.0              | 88.29           | 90.28       | 8,649.8               | -232.0       | 11,030.0     | 11,032.4                | 0.00                    | 0.00                   | 0.00                  |
| 19,150.0              | 88.29           | 90.28       | 8,651.3               | -232.2       | 11,080.0     | 11,082.4                | 0.00                    | 0.00                   | 0.00                  |
| 19,200.0              | 88.29           | 90.28       | 8,652.8               | -232.5       | 11,130.0     | 11,132.4                | 0.00                    | 0.00                   | 0.00                  |
| 19,250.0              | 88.29           | 90.28       | 8,654.3               | -232.7       | 11,179.9     | 11,182.3                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.0              | 88.29           | 90.28       | 8,655.8               | -233.0       | 11,229.9     | 11,232.3                | 0.00                    | 0.00                   | 0.00                  |
| 19,350.0              | 88.29           | 90.28       | 8,657.3               | -233.2       | 11,279.9     | 11,282.3                | 0.00                    | 0.00                   | 0.00                  |
| 19,400.0              | 88.29           | 90.28       | 8,658.8               | -233.5       | 11,329.9     | 11,332.2                | 0.00                    | 0.00                   | 0.00                  |
| 19,450.0              | 88.29           | 90.28       | 8,660.3               | -233.7       | 11,379.8     | 11,382.2                | 0.00                    | 0.00                   | 0.00                  |
| 19,500.0              | 88.29           | 90.28       | 8,661.8               | -233.9       | 11,429.8     | 11,432.2                | 0.00                    | 0.00                   | 0.00                  |
| 19,550.0              | 88.29           | 90.28       | 8,663.3               | -234.2       | 11,479.8     | 11,482.2                | 0.00                    | 0.00                   | 0.00                  |
| 19,600.0              | 88.29           | 90.28       | 8,664.8               | -234.4       | 11,529.8     | 11,532.1                | 0.00                    | 0.00                   | 0.00                  |
| 19,650.0              | 88.29           | 90.28       | 8,666.3               | -234.7       | 11,579.8     | 11,582.1                | 0.00                    | 0.00                   | 0.00                  |
| 19,700.0              | 88.29           | 90.28       | 8,667.7               | -234.9       | 11,629.7     | 11,632.1                | 0.00                    | 0.00                   | 0.00                  |
| 19,750.0              | 88.29           | 90.28       | 8,669.2               | -235.2       | 11,679.7     | 11,682.1                | 0.00                    | 0.00                   | 0.00                  |
| 19,800.0              | 88.29           | 90.28       | 8,670.7               | -235.4       | 11,729.7     | 11,732.0                | 0.00                    | 0.00                   | 0.00                  |
| 19,850.0              | 88.29           | 90.28       | 8,672.2               | -235.7       | 11,779.7     | 11,782.0                | 0.00                    | 0.00                   | 0.00                  |
| 19,900.0              | 88.29           | 90.28       | 8,673.7               | -235.9       | 11,829.6     | 11,832.0                | 0.00                    | 0.00                   | 0.00                  |
| 19,950.0              | 88.29           | 90.28       | 8,675.2               | -236.2       | 11,879.6     | 11,882.0                | 0.00                    | 0.00                   | 0.00                  |
| 20,000.0              | 88.29           | 90.28       | 8,676.7               | -236.4       | 11,929.6     | 11,931.9                | 0.00                    | 0.00                   | 0.00                  |
| 20,050.0              | 88.29           | 90.28       | 8,678.2               | -236.7       | 11,979.6     | 11,981.9                | 0.00                    | 0.00                   | 0.00                  |
| 20,100.0              | 88.29           | 90.28       | 8,679.7               | -236.9       | 12,029.6     | 12,031.9                | 0.00                    | 0.00                   | 0.00                  |
| 20,150.0              | 88.29           | 90.28       | 8,681.2               | -237.1       | 12,079.5     | 12,081.8                | 0.00                    | 0.00                   | 0.00                  |
| 20,200.0              | 88.29           | 90.28       | 8,682.7               | -237.4       | 12,129.5     | 12,131.8                | 0.00                    | 0.00                   | 0.00                  |
| 20,250.0              | 88.29           | 90.28       | 8,684.2               | -237.6       | 12,179.5     | 12,181.8                | 0.00                    | 0.00                   | 0.00                  |
| 20,300.0              | 88.29           | 90.28       | 8,685.7               | -237.9       | 12,229.5     | 12,231.8                | 0.00                    | 0.00                   | 0.00                  |
| 20,350.0              | 88.29           | 90.28       | 8,687.1               | -238.1       | 12,279.4     | 12,281.7                | 0.00                    | 0.00                   | 0.00                  |
| 20,400.0              | 88.29           | 90.28       | 8,688.6               | -238.4       | 12,329.4     | 12,331.7                | 0.00                    | 0.00                   | 0.00                  |
| 20,450.0              | 88.29           | 90.28       | 8,690.1               | -238.6       | 12,379.4     | 12,381.7                | 0.00                    | 0.00                   | 0.00                  |
| 20,500.0              | 88.29           | 90.28       | 8,691.6               | -238.9       | 12,429.4     | 12,431.7                | 0.00                    | 0.00                   | 0.00                  |
| 20,550.0              | 88.29           | 90.28       | 8,693.1               | -239.1       | 12,479.3     | 12,481.6                | 0.00                    | 0.00                   | 0.00                  |
| 20,600.0              | 88.29           | 90.28       | 8,694.6               | -239.4       | 12,529.3     | 12,531.6                | 0.00                    | 0.00                   | 0.00                  |
| 20,650.0              | 88.29           | 90.28       | 8,696.1               | -239.6       | 12,579.3     | 12,581.6                | 0.00                    | 0.00                   | 0.00                  |
| 20,700.0              | 88.29           | 90.28       | 8,697.6               | -239.9       | 12,629.3     | 12,631.5                | 0.00                    | 0.00                   | 0.00                  |
| 20,750.0              | 88.29           | 90.28       | 8,699.1               | -240.1       | 12,679.3     | 12,681.5                | 0.00                    | 0.00                   | 0.00                  |
| 20,800.0              | 88.29           | 90.28       | 8,700.6               | -240.4       | 12,729.2     | 12,731.5                | 0.00                    | 0.00                   | 0.00                  |
| 20,850.0              | 88.29           | 90.28       | 8,702.1               | -240.6       | 12,779.2     | 12,781.5                | 0.00                    | 0.00                   | 0.00                  |
| 20,900.0              | 88.29           | 90.28       | 8,703.6               | -240.8       | 12,829.2     | 12,831.4                | 0.00                    | 0.00                   | 0.00                  |
| 20,950.0              | 88.29           | 90.28       | 8,705.0               | -241.1       | 12,879.2     | 12,881.4                | 0.00                    | 0.00                   | 0.00                  |
| 21,000.0              | 88.29           | 90.28       | 8,706.5               | -241.3       | 12,929.1     | 12,931.4                | 0.00                    | 0.00                   | 0.00                  |
| 21,050.0              | 88.29           | 90.28       | 8,708.0               | -241.6       | 12,979.1     | 12,981.4                | 0.00                    | 0.00                   | 0.00                  |

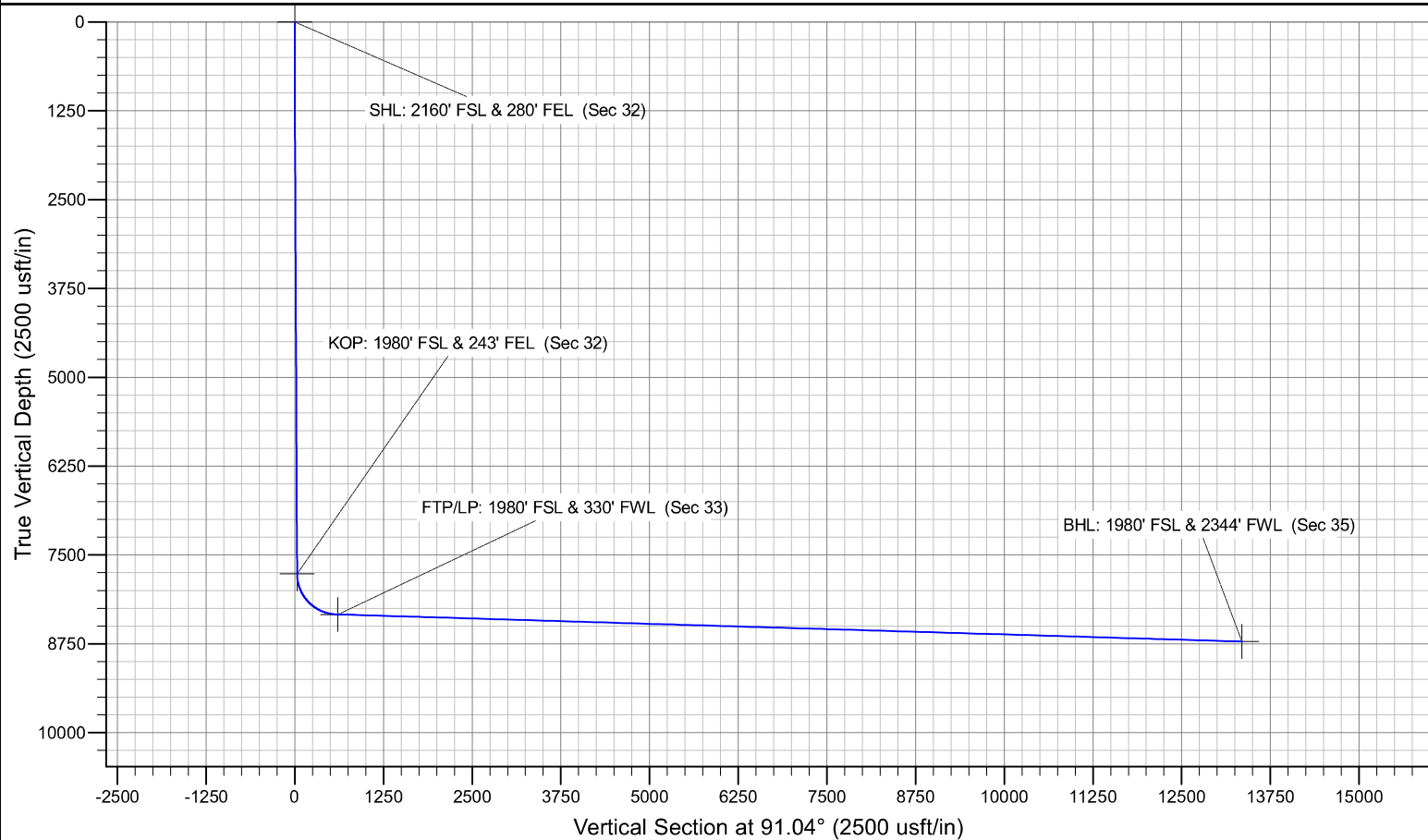
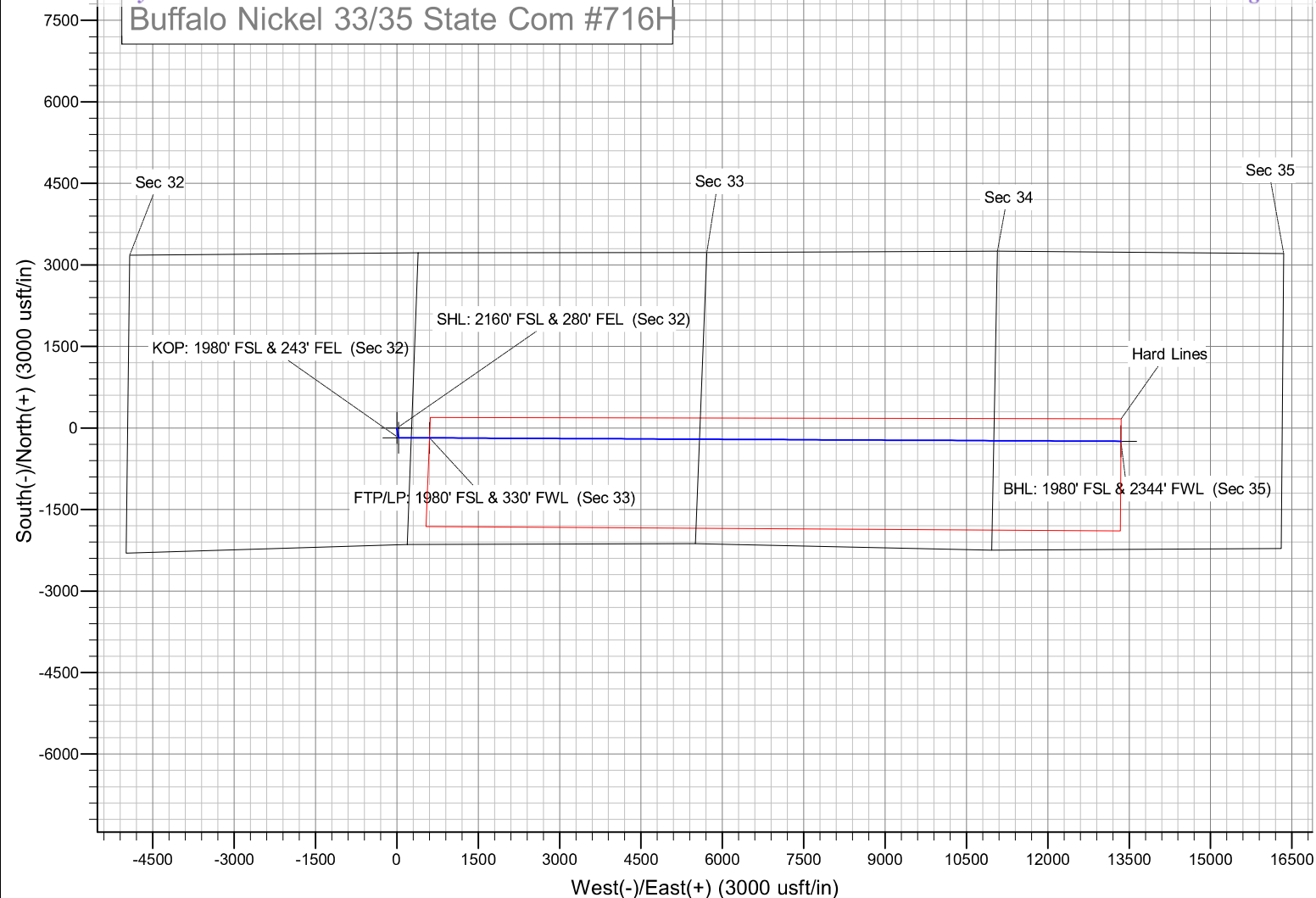
## Planning Report

|                  |                                      |                                     |                                           |
|------------------|--------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Database:</b> | Hobbs                                | <b>Local Co-ordinate Reference:</b> | Site Buffalo Nickel 33/35 State Com #716H |
| <b>Company:</b>  | Mewbourne Oil Company                | <b>TVD Reference:</b>               | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Project:</b>  | Eddy County, New Mexico NAD 83       | <b>MD Reference:</b>                | WELL @ 3284.0usft (Original Well Elev)    |
| <b>Site:</b>     | Buffalo Nickel 33/35 State Com #716H | <b>North Reference:</b>             | Grid                                      |
| <b>Well:</b>     | Sec 32, T21S, R26E                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Wellbore:</b> | BHL: 1980' FSL & 2344' FWL (Sec 35)  |                                     |                                           |
| <b>Design:</b>   | Design #1                            |                                     |                                           |

| 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) |  |
| 21,100.0                            | 88.29           | 90.28       | 8,709.5               | -241.8       | 13,029.1     | 13,031.3                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,150.0                            | 88.29           | 90.28       | 8,711.0               | -242.1       | 13,079.1     | 13,081.3                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,200.0                            | 88.29           | 90.28       | 8,712.5               | -242.3       | 13,129.0     | 13,131.3                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,250.0                            | 88.29           | 90.28       | 8,714.0               | -242.6       | 13,179.0     | 13,181.3                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,300.0                            | 88.29           | 90.28       | 8,715.5               | -242.8       | 13,229.0     | 13,231.2                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,350.0                            | 88.29           | 90.28       | 8,717.0               | -243.1       | 13,279.0     | 13,281.2                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,400.0                            | 88.29           | 90.28       | 8,718.5               | -243.3       | 13,329.0     | 13,331.2                | 0.00                    | 0.00                   | 0.00                  |  |
| 21,417.5                            | 88.29           | 90.28       | 8,719.0               | -243.4       | 13,346.4     | 13,348.6                | 0.00                    | 0.00                   | 0.00                  |  |
| BHL: 1980' FSL & 2344' FWL (Sec 35) |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets                                                  |               |              |            |              |              |                 |                |            |              |  |
|-----------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|--|
| Target Name<br>- hit/miss target<br>- Shape                     | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude   | Longitude    |  |
| SHL: 2160' FSL & 280' F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 0.0        | 0.0          | 0.0          | 521,934.60      | 549,320.70     | 32.4348613 | -104.3074572 |  |
| KOP: 1980' FSL & 243' F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 7,765.0    | -177.7       | 29.3         | 521,756.90      | 549,350.00     | 32.4343729 | -104.3073624 |  |
| FTP/LP: 1980' FSL & 33<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 8,338.5    | -180.5       | 601.8        | 521,754.08      | 549,922.50     | 32.4343647 | -104.3055067 |  |
| BHL: 1980' FSL & 2344'<br>- plan hits target center<br>- Point  | 0.00          | 0.00         | 8,719.0    | -243.4       | 13,346.4     | 521,691.20      | 562,667.10     | 32.4341760 | -104.2641977 |  |

## Buffalo Nickel 33/35 State Com #716H



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 521807

CONDITIONS

|                                                                   |                                                      |
|-------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744                                      |
|                                                                   | Action Number:<br>521807                             |
|                                                                   | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By  | Condition                                                              | Condition Date |
|-------------|------------------------------------------------------------------------|----------------|
| ward.rikala | Any previous COA's not addressed within the updated COA's still apply. | 11/14/2025     |