

|                                    |                                                       |                                |
|------------------------------------|-------------------------------------------------------|--------------------------------|
| Well Name: MALTESE 5_8 FEDERAL COM | Well Location: T24S / R35E / SEC 5 / LOT 1 /          | County or Parish/State:        |
| Well Number: 38H                   | Type of Well: OIL WELL                                | Allottee or Tribe Name:        |
| Lease Number: NMNM019628           | Unit or CA Name:                                      | Unit or CA Number:             |
| US Well Number: 3002548981         | Well Status: Approved Application for Permit to Drill | Operator: OXY USA INCORPORATED |

Notice of Intent

Sundry ID: 2715272

|                                                |                              |
|------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent           | Type of Action: APD Change   |
| Date Sundry Submitted: 02/13/2023              | Time Sundry Submitted: 07:10 |
| Date proposed operation will begin: 03/31/2023 |                              |

**Procedure Description:** OXY USA INC. Respectfully requests approval to amend the subject well AAPD per the following changes: the Horizontal spacing unit as seen on the attached updated plat. Requesting to change the bottom hole location to 20' FSL & 550' FEL, from the original 20' FSL & 330' FEL. Also attaching the updated Drill Plans supporting these requested changes.

NOI Attachments

Procedure Description

- Maltese5\_8FedCom38H\_FlexHoseCert\_20230213070916.pdf
- Maltese5\_8FedCom38H\_StandardSL1TiebackDetails\_20230213070925.pdf
- Maltese5\_8FedCom38H\_TNSWedge461\_5.500in\_20.00ppf\_P110CY\_20230213070922.pdf
- Maltese5\_8FedCom38H\_TNSWedge425\_5.500in\_20.00ppf\_P110CY\_20230213070922.pdf
- Maltese5\_8FedCom38H\_DrillPlan\_20230213070916.pdf
- Maltese5\_8FedCom38H\_TNSWedge441\_5.500in\_20.00ppf\_P110CY\_20230213070922.pdf
- Maltese5\_8FedCom38H\_C102\_20230213070907.pdf
- Maltese5\_8FedCom38H\_DirectPlan\_ST\_20230213070912.pdf
- Maltese5\_8FedCom38H\_DirectPlot\_20230213070914.pdf

|                                           |                                                              |                                       |
|-------------------------------------------|--------------------------------------------------------------|---------------------------------------|
| <b>Well Name:</b> MALTESE 5_8 FEDERAL COM | <b>Well Location:</b> T24S / R35E / SEC 5 / LOT 1 /          | <b>County or Parish/State:</b>        |
| <b>Well Number:</b> 38H                   | <b>Type of Well:</b> OIL WELL                                | <b>Allottee or Tribe Name:</b>        |
| <b>Lease Number:</b> NMNM019628           | <b>Unit or CA Name:</b>                                      | <b>Unit or CA Number:</b>             |
| <b>US Well Number:</b> 3002548981         | <b>Well Status:</b> Approved Application for Permit to Drill | <b>Operator:</b> OXY USA INCORPORATED |

Maltese5\_8FedCom38H\_OxyWellControlPlan\_20230213070914.pdf

Maltese5\_8FedCom38H\_ChkManifolds\_20230213070859.pdf

Maltese5\_8FedCom38H\_BOP\_20230213070900.pdf

Maltese5\_8FedCom38H\_CsgCriteria\_20230213070859.pdf

Maltese5\_8FedCom38H\_DirectPlan\_Pilot\_20230213070859.pdf

Maltese5\_8FedCom38H\_13inADAPT\_10.75in\_7.625in\_10x10\_20230213070901.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

**Operator Electronic Signature:** SARAH MCKINNEY

**Signed on:** FEB 13, 2023 07:09 AM

**Name:** OXY USA INCORPORATED

**Title:** Regulatory Analyst Sr

**Street Address:** 5 GREENWAY PLAZA SUITE 110

**City:** HOUSTON                      **State:** TX

**Phone:** (713) 215-7295

**Email address:** SARAH\_MCKINNEY@OXY.COM

Field

**Representative Name:**

**Street Address:**

**City:**                                      **State:**                                      **Zip:**

**Phone:**

**Email address:**

BLM Point of Contact

**BLM POC Name:** KEITH P IMMATTY

**BLM POC Title:** ENGINEER

**BLM POC Phone:** 5759884722

**BLM POC Email Address:** KIMMATTY@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 04/04/2023

**Signature:** KEITH IMMATTY

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |  |                                                   |  |                                                    |                                   |
|-----------------------------------------|--|---------------------------------------------------|--|----------------------------------------------------|-----------------------------------|
| <sup>1</sup> API Number<br>30-025-48981 |  | <sup>2</sup> Pool Code<br>2220                    |  | <sup>3</sup> Pool Name<br>Antelope Ridge; Wolfcamp |                                   |
| <sup>4</sup> Property Code<br>330861    |  | <sup>5</sup> Property Name<br>MALTESE 5 8 FED COM |  |                                                    | <sup>6</sup> Well Number<br>38H   |
| <sup>7</sup> OGRID No.<br>16696         |  | <sup>8</sup> Operator Name<br>OXY USA INC.        |  |                                                    | <sup>9</sup> Elevation<br>3447.5' |

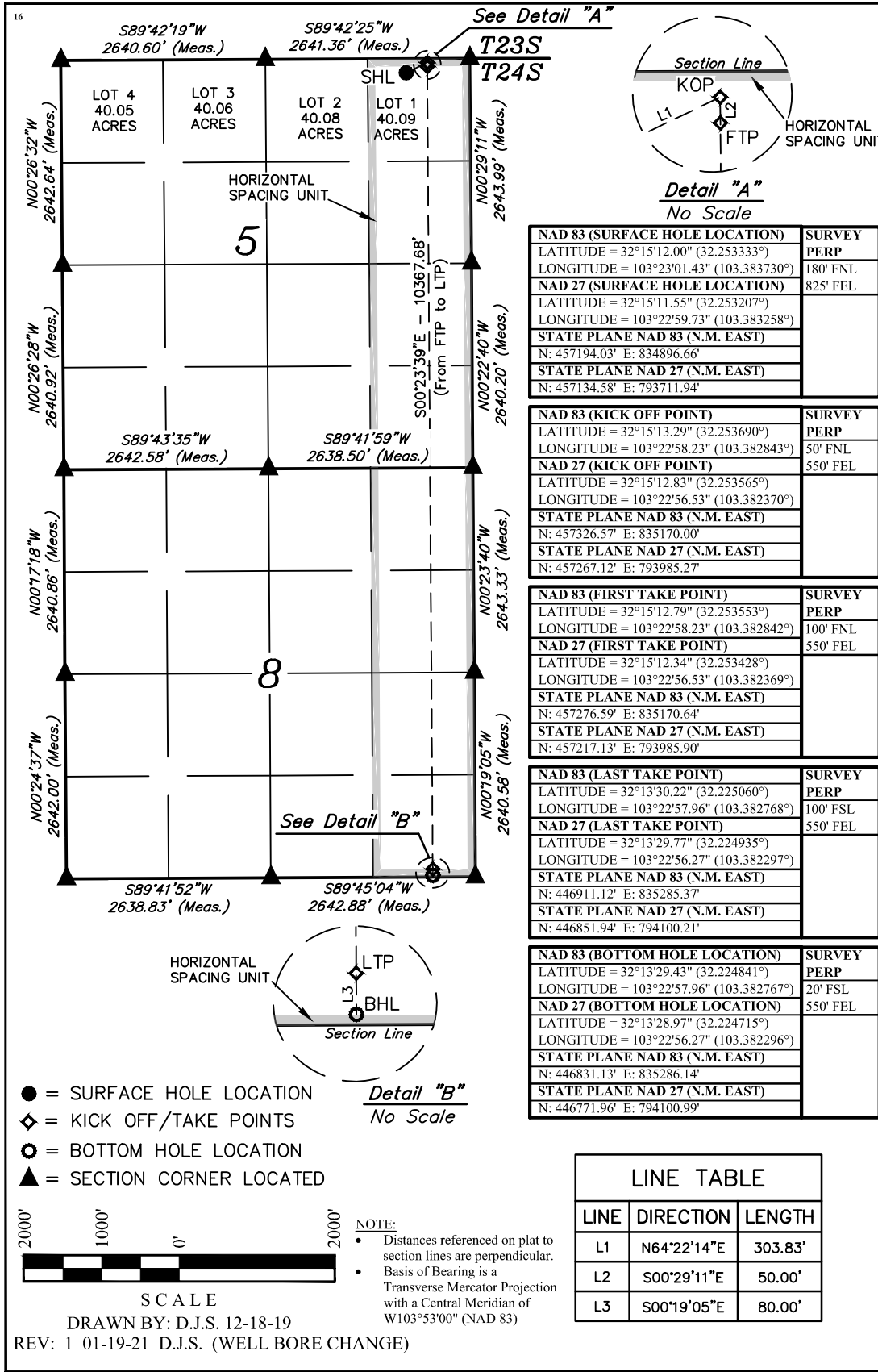
<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 1             | 5       | 24S      | 35E   |         | 180           | NORTH            | 825           | EAST           | LEA    |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no.                           | Section | Township                      | Range | Lot Idn                          | Feet from the | North/South line        | Feet from the | East/West line | County |
|-----------------------------------------|---------|-------------------------------|-------|----------------------------------|---------------|-------------------------|---------------|----------------|--------|
| P                                       | 8       | 24S                           | 35E   |                                  | 20            | SOUTH                   | 550           | EAST           | LEA    |
| <sup>12</sup> Dedicated Acres<br>320.09 |         | <sup>13</sup> Joint or Infill |       | <sup>14</sup> Consolidation Code |               | <sup>15</sup> Order No. |               |                |        |

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.



<sup>17</sup> OPERATOR  
CERTIFICATION

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

*Sarah McKinney* 02/09/23  
Signature Date

Sarah McKinney  
Printed Name

sarah\_mckinney@oxy.com  
E-mail Address

<sup>18</sup> SURVEYOR  
CERTIFICATION

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

December 12, 2019  
Date of Survey

Signature and Seal of Professional Surveyor:

23782  
01-19-21  
PAUL BUCHELE  
NEW MEXICO  
PROFESSIONAL SURVEYOR

Certificate Number:

# **OXY**

**PRD NM DIRECTIONAL PLANS (NAD 1983)**

**Maltese 5\_8**

**Maltese 5\_8 Fed Com 38H**

**Wellbore #2**

**Plan: Permitting Plan**

## **Standard Planning Report**

**24 January, 2023**

OXY  
Planning Report

|           |                                     |                              |                              |
|-----------|-------------------------------------|------------------------------|------------------------------|
| Database: | HOPSPP                              | Local Co-ordinate Reference: | Well Maltese 5_8 Fed Com 38H |
| Company:  | ENGINEERING DESIGNS                 | TVD Reference:               | RKB=26.5' @ 3474.00ft        |
| Project:  | PRD NM DIRECTIONAL PLANS (NAD 1983) | MD Reference:                | RKB=26.5' @ 3474.00ft        |
| Site:     | Maltese 5_8                         | North Reference:             | Grid                         |
| Well:     | Maltese 5_8 Fed Com 38H             | Survey Calculation Method:   | Minimum Curvature            |
| Wellbore: | Wellbore #2                         |                              |                              |
| Design:   | Permitting Plan                     |                              |                              |

|             |                                     |               |                             |
|-------------|-------------------------------------|---------------|-----------------------------|
| Project     | PRD NM DIRECTIONAL PLANS (NAD 1983) |               |                             |
| Map System: | US State Plane 1983                 | System Datum: | Mean Sea Level              |
| Geo Datum:  | North American Datum 1983           |               |                             |
| Map Zone:   | New Mexico Eastern Zone             |               | Using geodetic scale factor |

|                       |     |             |                 |            |             |
|-----------------------|-----|-------------|-----------------|------------|-------------|
| Site                  |     | Maltese 5_8 |                 |            |             |
| Site Position:        |     | Northing:   | 457,080.97 usft | Latitude:  | 32.253095   |
| From:                 | Map | Easting:    | 831,886.72 usft | Longitude: | -103.393469 |
| Position Uncertainty: |     | 1.00 ft     | Slot Radius:    | 13.200 in  |             |

|                      |                         |         |                     |                |               |             |
|----------------------|-------------------------|---------|---------------------|----------------|---------------|-------------|
| Well                 | Maltese 5_8 Fed Com 38H |         |                     |                |               |             |
| Well Position        | +N/-S                   | 0.00 ft | Northing:           | 457,194.03 usf | Latitude:     | 32.253333   |
|                      | +E/-W                   | 0.00 ft | Easting:            | 834,896.66 usf | Longitude:    | -103.383731 |
| Position Uncertainty |                         | 1.00 ft | Wellhead Elevation: | ft             | Ground Level: | 3,447.50 ft |
| Grid Convergence:    |                         | 0.51 °  |                     |                |               |             |

|           |             |             |                 |               |                     |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Wellbore #2 |             |                 |               |                     |
| Magnetics | Model Name  | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | HDGM_FILE   | 1/24/2023   | 6.32            | 59.78         | 47,529.00000000     |

|                   |                       |            |               |               |
|-------------------|-----------------------|------------|---------------|---------------|
| Design            | Permitting Plan       |            |               |               |
| Audit Notes:      |                       |            |               |               |
| Version:          | Phase:                | PROTOTYPE  | Tie On Depth: | 11,318.00     |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft)    | Direction (°) |
|                   | 0.00                  | 0.00       | 0.00          | 177.85        |

|                          |               |                               |                 |         |
|--------------------------|---------------|-------------------------------|-----------------|---------|
| Plan Survey Tool Program | Date          | 1/24/2023                     |                 |         |
| Depth From (ft)          | Depth To (ft) | Survey (Wellbore)             | Tool Name       | Remarks |
| 1 11,318.00              | 22,146.12     | Permitting Plan (Wellbore #2) | B001Mb_MWD+HRGM |         |
|                          |               |                               | OWSG MWD + HRGM |         |

|                     |                 |             |                     |            |            |                       |                      |                     |         |                   |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Plan Sections       |                 |             |                     |            |            |                       |                      |                     |         |                   |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target            |
| 11,318.00           | 10.00           | 64.13       | 11,302.39           | 90.51      | 186.65     | 0.00                  | 0.00                 | 0.00                | 0.00    |                   |
| 11,805.51           | 45.00           | 171.67      | 11,741.62           | -71.45     | 253.83     | 10.00                 | 7.18                 | 22.06               | 116.26  |                   |
| 12,249.32           | 88.86           | 179.37      | 11,911.55           | -468.61    | 280.35     | 10.00                 | 9.88                 | 1.73                | 11.04   |                   |
| 22,146.12           | 88.86           | 179.37      | 12,109.00           | -10,362.84 | 389.48     | 0.00                  | 0.00                 | 0.00                | 0.00    | PBHL (Maltese 5_8 |

# OXY

## Planning Report

|                  |                                     |                                     |                              |
|------------------|-------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well Maltese 5_8 Fed Com 38H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | RKB=26.5' @ 3474.00ft        |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | RKB=26.5' @ 3474.00ft        |
| <b>Site:</b>     | Maltese 5_8                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Maltese 5_8 Fed Com 38H             | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Wellbore #2                         |                                     |                              |
| <b>Design:</b>   | Permitting Plan                     |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 900.00              | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,000.00            | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,300.00            | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,500.00            | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,700.00            | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,900.00            | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00            | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00            | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00            | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00            | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00            | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,600.00            | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00            | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00            | 0.00            | 0.00        | 2,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00            | 0.00            | 0.00        | 2,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00            | 0.00            | 0.00        | 3,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00            | 0.00            | 0.00        | 3,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00            | 0.00            | 0.00        | 3,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00            | 0.00            | 0.00        | 3,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00            | 0.00            | 0.00        | 3,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00            | 0.00            | 0.00        | 3,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00            | 0.00            | 0.00        | 3,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,700.00            | 0.00            | 0.00        | 3,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,800.00            | 0.00            | 0.00        | 3,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,900.00            | 0.00            | 0.00        | 3,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,000.00            | 0.00            | 0.00        | 4,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,100.00            | 0.00            | 0.00        | 4,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00            | 0.00            | 0.00        | 4,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,300.00            | 0.00            | 0.00        | 4,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,400.00            | 0.00            | 0.00        | 4,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,500.00            | 0.00            | 0.00        | 4,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00            | 0.00            | 0.00        | 4,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,700.00            | 0.00            | 0.00        | 4,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,800.00            | 0.00            | 0.00        | 4,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,900.00            | 0.00            | 0.00        | 4,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,000.00            | 0.00            | 0.00        | 5,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,100.00            | 0.00            | 0.00        | 5,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,200.00            | 0.00            | 0.00        | 5,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,300.00            | 0.00            | 0.00        | 5,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,400.00            | 0.00            | 0.00        | 5,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |

# OXY

## Planning Report

|                  |                                     |                                     |                              |
|------------------|-------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well Maltese 5_8 Fed Com 38H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | RKB=26.5' @ 3474.00ft        |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | RKB=26.5' @ 3474.00ft        |
| <b>Site:</b>     | Maltese 5_8                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Maltese 5_8 Fed Com 38H             | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Wellbore #2                         |                                     |                              |
| <b>Design:</b>   | Permitting Plan                     |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,500.00            | 0.00            | 0.00        | 5,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,600.00            | 0.00            | 0.00        | 5,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 0.00            | 0.00        | 5,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 0.00            | 0.00        | 5,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 0.00            | 0.00        | 5,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 0.00            | 0.00        | 6,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 0.00            | 0.00        | 6,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 0.00            | 0.00        | 6,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 0.00            | 0.00        | 6,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 0.00            | 0.00        | 6,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 0.00            | 0.00        | 6,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 0.00            | 0.00        | 6,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 0.00            | 0.00        | 6,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 0.00            | 0.00        | 6,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 0.00            | 0.00        | 6,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 0.00            | 0.00        | 7,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 0.00            | 0.00        | 7,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 0.00            | 0.00        | 7,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 0.00            | 0.00        | 7,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 0.00            | 0.00        | 7,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 0.00            | 0.00        | 7,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 0.00            | 0.00        | 7,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 0.00            | 0.00        | 7,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,800.00            | 0.00            | 0.00        | 7,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 7,900.00            | 0.00            | 0.00        | 7,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,000.00            | 0.00            | 0.00        | 8,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,100.00            | 0.00            | 0.00        | 8,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,200.00            | 0.00            | 0.00        | 8,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,300.00            | 0.00            | 0.00        | 8,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,400.00            | 0.00            | 0.00        | 8,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,500.00            | 0.00            | 0.00        | 8,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,600.00            | 0.00            | 0.00        | 8,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,700.00            | 0.00            | 0.00        | 8,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,800.00            | 0.00            | 0.00        | 8,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8,900.00            | 0.00            | 0.00        | 8,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,000.00            | 0.00            | 0.00        | 9,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,100.00            | 0.00            | 0.00        | 9,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,200.00            | 0.00            | 0.00        | 9,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,300.00            | 0.00            | 0.00        | 9,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,400.00            | 0.00            | 0.00        | 9,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,500.00            | 0.00            | 0.00        | 9,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,600.00            | 0.00            | 0.00        | 9,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,700.00            | 0.75            | 64.13       | 9,700.00            | 0.21       | 0.44       | -0.20                 | 0.75                  | 0.75                 | 0.00                |
| 9,800.00            | 1.75            | 64.13       | 9,799.97            | 1.17       | 2.40       | -1.07                 | 1.00                  | 1.00                 | 0.00                |
| 9,900.00            | 2.75            | 64.13       | 9,899.89            | 2.88       | 5.94       | -2.65                 | 1.00                  | 1.00                 | 0.00                |
| 10,000.00           | 3.75            | 64.13       | 9,999.73            | 5.35       | 11.04      | -4.93                 | 1.00                  | 1.00                 | 0.00                |
| 10,100.00           | 4.75            | 64.13       | 10,099.46           | 8.59       | 17.71      | -7.91                 | 1.00                  | 1.00                 | 0.00                |
| 10,200.00           | 5.75            | 64.13       | 10,199.04           | 12.58      | 25.94      | -11.59                | 1.00                  | 1.00                 | 0.00                |
| 10,300.00           | 6.75            | 64.13       | 10,298.44           | 17.33      | 35.74      | -15.97                | 1.00                  | 1.00                 | 0.00                |
| 10,400.00           | 7.75            | 64.13       | 10,397.64           | 22.83      | 47.09      | -21.05                | 1.00                  | 1.00                 | 0.00                |
| 10,500.00           | 8.75            | 64.13       | 10,496.60           | 29.09      | 60.00      | -26.82                | 1.00                  | 1.00                 | 0.00                |
| 10,600.00           | 9.75            | 64.13       | 10,595.30           | 36.11      | 74.47      | -33.29                | 1.00                  | 1.00                 | 0.00                |
| 10,700.00           | 10.00           | 64.13       | 10,693.79           | 43.66      | 90.05      | -40.25                | 0.25                  | 0.25                 | 0.00                |
| 10,800.00           | 10.00           | 64.13       | 10,792.27           | 51.24      | 105.68     | -47.24                | 0.00                  | 0.00                 | 0.00                |
| 10,900.00           | 10.00           | 64.13       | 10,890.75           | 58.82      | 121.31     | -54.23                | 0.00                  | 0.00                 | 0.00                |

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## Planning Report

|                  |                                     |                                     |                              |
|------------------|-------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well Maltese 5_8 Fed Com 38H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | RKB=26.5' @ 3474.00ft        |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | RKB=26.5' @ 3474.00ft        |
| <b>Site:</b>     | Maltese 5_8                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Maltese 5_8 Fed Com 38H             | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Wellbore #2                         |                                     |                              |
| <b>Design:</b>   | Permitting Plan                     |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 11,000.00           | 10.00           | 64.13       | 10,989.23           | 66.40      | 136.94     | -61.21                | 0.00                  | 0.00                 | 0.00                |
| 11,100.00           | 10.00           | 64.13       | 11,087.71           | 73.98      | 152.58     | -68.20                | 0.00                  | 0.00                 | 0.00                |
| 11,200.00           | 10.00           | 64.13       | 11,186.19           | 81.56      | 168.21     | -75.19                | 0.00                  | 0.00                 | 0.00                |
| 11,300.00           | 10.00           | 64.13       | 11,284.67           | 89.14      | 183.84     | -82.17                | 0.00                  | 0.00                 | 0.00                |
| 11,318.00           | 10.00           | 64.13       | 11,302.39           | 90.51      | 186.65     | -83.43                | 0.00                  | 0.00                 | 0.00                |
| 11,400.00           | 9.70            | 113.49      | 11,383.32           | 90.86      | 199.42     | -83.31                | 10.00                 | -0.37                | 60.19               |
| 11,500.00           | 16.35           | 148.23      | 11,480.83           | 75.49      | 214.60     | -67.38                | 10.00                 | 6.65                 | 34.75               |
| 11,600.00           | 25.28           | 161.24      | 11,574.26           | 43.22      | 228.92     | -34.59                | 10.00                 | 8.93                 | 13.00               |
| 11,700.00           | 34.77           | 167.61      | 11,660.76           | -4.97      | 241.94     | 14.05                 | 10.00                 | 9.49                 | 6.38                |
| 11,800.00           | 44.46           | 171.50      | 11,737.71           | -67.62     | 253.26     | 77.08                 | 10.00                 | 9.69                 | 3.88                |
| 11,805.51           | 45.00           | 171.67      | 11,741.62           | -71.45     | 253.83     | 80.93                 | 10.00                 | 9.75                 | 3.15                |
| 11,900.00           | 54.30           | 173.89      | 11,802.74           | -142.82    | 262.78     | 152.58                | 10.00                 | 9.84                 | 2.35                |
| 12,000.00           | 64.17           | 175.73      | 11,853.83           | -228.29    | 270.47     | 238.28                | 10.00                 | 9.87                 | 1.84                |
| 12,100.00           | 74.07           | 177.29      | 11,889.43           | -321.43    | 276.11     | 331.57                | 10.00                 | 9.89                 | 1.56                |
| 12,200.00           | 83.97           | 178.70      | 11,908.46           | -419.41    | 279.52     | 429.61                | 10.00                 | 9.90                 | 1.41                |
| 12,249.32           | 88.86           | 179.37      | 11,911.55           | -468.61    | 280.35     | 478.81                | 10.00                 | 9.91                 | 1.36                |
| 12,300.00           | 88.86           | 179.37      | 11,912.56           | -519.28    | 280.91     | 529.46                | 0.00                  | 0.00                 | 0.00                |
| 12,400.00           | 88.86           | 179.37      | 11,914.55           | -619.25    | 282.01     | 629.41                | 0.00                  | 0.00                 | 0.00                |
| 12,500.00           | 88.86           | 179.37      | 11,916.55           | -719.23    | 283.11     | 729.35                | 0.00                  | 0.00                 | 0.00                |
| 12,600.00           | 88.86           | 179.37      | 11,918.54           | -819.20    | 284.22     | 829.30                | 0.00                  | 0.00                 | 0.00                |
| 12,700.00           | 88.86           | 179.37      | 11,920.54           | -919.18    | 285.32     | 929.24                | 0.00                  | 0.00                 | 0.00                |
| 12,800.00           | 88.86           | 179.37      | 11,922.53           | -1,019.15  | 286.42     | 1,029.19              | 0.00                  | 0.00                 | 0.00                |
| 12,900.00           | 88.86           | 179.37      | 11,924.53           | -1,119.12  | 287.52     | 1,129.13              | 0.00                  | 0.00                 | 0.00                |
| 13,000.00           | 88.86           | 179.37      | 11,926.52           | -1,219.10  | 288.63     | 1,229.08              | 0.00                  | 0.00                 | 0.00                |
| 13,100.00           | 88.86           | 179.37      | 11,928.52           | -1,319.07  | 289.73     | 1,329.02              | 0.00                  | 0.00                 | 0.00                |
| 13,200.00           | 88.86           | 179.37      | 11,930.51           | -1,419.05  | 290.83     | 1,428.97              | 0.00                  | 0.00                 | 0.00                |
| 13,300.00           | 88.86           | 179.37      | 11,932.51           | -1,519.02  | 291.93     | 1,528.91              | 0.00                  | 0.00                 | 0.00                |
| 13,400.00           | 88.86           | 179.37      | 11,934.50           | -1,618.99  | 293.04     | 1,628.86              | 0.00                  | 0.00                 | 0.00                |
| 13,500.00           | 88.86           | 179.37      | 11,936.50           | -1,718.97  | 294.14     | 1,728.80              | 0.00                  | 0.00                 | 0.00                |
| 13,600.00           | 88.86           | 179.37      | 11,938.49           | -1,818.94  | 295.24     | 1,828.75              | 0.00                  | 0.00                 | 0.00                |
| 13,700.00           | 88.86           | 179.37      | 11,940.49           | -1,918.92  | 296.35     | 1,928.69              | 0.00                  | 0.00                 | 0.00                |
| 13,800.00           | 88.86           | 179.37      | 11,942.48           | -2,018.89  | 297.45     | 2,028.64              | 0.00                  | 0.00                 | 0.00                |
| 13,900.00           | 88.86           | 179.37      | 11,944.48           | -2,118.86  | 298.55     | 2,128.58              | 0.00                  | 0.00                 | 0.00                |
| 14,000.00           | 88.86           | 179.37      | 11,946.47           | -2,218.84  | 299.65     | 2,228.53              | 0.00                  | 0.00                 | 0.00                |
| 14,100.00           | 88.86           | 179.37      | 11,948.47           | -2,318.81  | 300.76     | 2,328.47              | 0.00                  | 0.00                 | 0.00                |
| 14,200.00           | 88.86           | 179.37      | 11,950.46           | -2,418.79  | 301.86     | 2,428.42              | 0.00                  | 0.00                 | 0.00                |
| 14,300.00           | 88.86           | 179.37      | 11,952.46           | -2,518.76  | 302.96     | 2,528.36              | 0.00                  | 0.00                 | 0.00                |
| 14,400.00           | 88.86           | 179.37      | 11,954.45           | -2,618.74  | 304.06     | 2,628.31              | 0.00                  | 0.00                 | 0.00                |
| 14,500.00           | 88.86           | 179.37      | 11,956.45           | -2,718.71  | 305.17     | 2,728.25              | 0.00                  | 0.00                 | 0.00                |
| 14,600.00           | 88.86           | 179.37      | 11,958.44           | -2,818.68  | 306.27     | 2,828.20              | 0.00                  | 0.00                 | 0.00                |
| 14,700.00           | 88.86           | 179.37      | 11,960.44           | -2,918.66  | 307.37     | 2,928.14              | 0.00                  | 0.00                 | 0.00                |
| 14,800.00           | 88.86           | 179.37      | 11,962.43           | -3,018.63  | 308.47     | 3,028.09              | 0.00                  | 0.00                 | 0.00                |
| 14,900.00           | 88.86           | 179.37      | 11,964.43           | -3,118.61  | 309.58     | 3,128.03              | 0.00                  | 0.00                 | 0.00                |
| 15,000.00           | 88.86           | 179.37      | 11,966.43           | -3,218.58  | 310.68     | 3,227.98              | 0.00                  | 0.00                 | 0.00                |
| 15,100.00           | 88.86           | 179.37      | 11,968.42           | -3,318.55  | 311.78     | 3,327.92              | 0.00                  | 0.00                 | 0.00                |
| 15,200.00           | 88.86           | 179.37      | 11,970.42           | -3,418.53  | 312.89     | 3,427.87              | 0.00                  | 0.00                 | 0.00                |
| 15,300.00           | 88.86           | 179.37      | 11,972.41           | -3,518.50  | 313.99     | 3,527.81              | 0.00                  | 0.00                 | 0.00                |
| 15,400.00           | 88.86           | 179.37      | 11,974.41           | -3,618.48  | 315.09     | 3,627.76              | 0.00                  | 0.00                 | 0.00                |
| 15,500.00           | 88.86           | 179.37      | 11,976.40           | -3,718.45  | 316.19     | 3,727.70              | 0.00                  | 0.00                 | 0.00                |
| 15,600.00           | 88.86           | 179.37      | 11,978.40           | -3,818.42  | 317.30     | 3,827.65              | 0.00                  | 0.00                 | 0.00                |
| 15,700.00           | 88.86           | 179.37      | 11,980.39           | -3,918.40  | 318.40     | 3,927.59              | 0.00                  | 0.00                 | 0.00                |
| 15,800.00           | 88.86           | 179.37      | 11,982.39           | -4,018.37  | 319.50     | 4,027.54              | 0.00                  | 0.00                 | 0.00                |
| 15,900.00           | 88.86           | 179.37      | 11,984.38           | -4,118.35  | 320.60     | 4,127.48              | 0.00                  | 0.00                 | 0.00                |
| 16,000.00           | 88.86           | 179.37      | 11,986.38           | -4,218.32  | 321.71     | 4,227.43              | 0.00                  | 0.00                 | 0.00                |
| 16,100.00           | 88.86           | 179.37      | 11,988.37           | -4,318.29  | 322.81     | 4,327.37              | 0.00                  | 0.00                 | 0.00                |

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## Planning Report

|                  |                                     |                                     |                              |
|------------------|-------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | HOPSPP                              | <b>Local Co-ordinate Reference:</b> | Well Maltese 5_8 Fed Com 38H |
| <b>Company:</b>  | ENGINEERING DESIGNS                 | <b>TVD Reference:</b>               | RKB=26.5' @ 3474.00ft        |
| <b>Project:</b>  | PRD NM DIRECTIONAL PLANS (NAD 1983) | <b>MD Reference:</b>                | RKB=26.5' @ 3474.00ft        |
| <b>Site:</b>     | Maltese 5_8                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Maltese 5_8 Fed Com 38H             | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Wellbore #2                         |                                     |                              |
| <b>Design:</b>   | Permitting Plan                     |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 16,200.00           | 88.86           | 179.37      | 11,990.37           | -4,418.27  | 323.91     | 4,427.32              | 0.00                  | 0.00                 | 0.00                |
| 16,300.00           | 88.86           | 179.37      | 11,992.36           | -4,518.24  | 325.01     | 4,527.26              | 0.00                  | 0.00                 | 0.00                |
| 16,400.00           | 88.86           | 179.37      | 11,994.36           | -4,618.22  | 326.12     | 4,627.21              | 0.00                  | 0.00                 | 0.00                |
| 16,500.00           | 88.86           | 179.37      | 11,996.35           | -4,718.19  | 327.22     | 4,727.15              | 0.00                  | 0.00                 | 0.00                |
| 16,600.00           | 88.86           | 179.37      | 11,998.35           | -4,818.16  | 328.32     | 4,827.10              | 0.00                  | 0.00                 | 0.00                |
| 16,700.00           | 88.86           | 179.37      | 12,000.34           | -4,918.14  | 329.43     | 4,927.04              | 0.00                  | 0.00                 | 0.00                |
| 16,800.00           | 88.86           | 179.37      | 12,002.34           | -5,018.11  | 330.53     | 5,026.98              | 0.00                  | 0.00                 | 0.00                |
| 16,900.00           | 88.86           | 179.37      | 12,004.33           | -5,118.09  | 331.63     | 5,126.93              | 0.00                  | 0.00                 | 0.00                |
| 17,000.00           | 88.86           | 179.37      | 12,006.33           | -5,218.06  | 332.73     | 5,226.87              | 0.00                  | 0.00                 | 0.00                |
| 17,100.00           | 88.86           | 179.37      | 12,008.32           | -5,318.03  | 333.84     | 5,326.82              | 0.00                  | 0.00                 | 0.00                |
| 17,200.00           | 88.86           | 179.37      | 12,010.32           | -5,418.01  | 334.94     | 5,426.76              | 0.00                  | 0.00                 | 0.00                |
| 17,300.00           | 88.86           | 179.37      | 12,012.31           | -5,517.98  | 336.04     | 5,526.71              | 0.00                  | 0.00                 | 0.00                |
| 17,400.00           | 88.86           | 179.37      | 12,014.31           | -5,617.96  | 337.14     | 5,626.65              | 0.00                  | 0.00                 | 0.00                |
| 17,500.00           | 88.86           | 179.37      | 12,016.30           | -5,717.93  | 338.25     | 5,726.60              | 0.00                  | 0.00                 | 0.00                |
| 17,600.00           | 88.86           | 179.37      | 12,018.30           | -5,817.90  | 339.35     | 5,826.54              | 0.00                  | 0.00                 | 0.00                |
| 17,700.00           | 88.86           | 179.37      | 12,020.29           | -5,917.88  | 340.45     | 5,926.49              | 0.00                  | 0.00                 | 0.00                |
| 17,800.00           | 88.86           | 179.37      | 12,022.29           | -6,017.85  | 341.55     | 6,026.43              | 0.00                  | 0.00                 | 0.00                |
| 17,900.00           | 88.86           | 179.37      | 12,024.28           | -6,117.83  | 342.66     | 6,126.38              | 0.00                  | 0.00                 | 0.00                |
| 18,000.00           | 88.86           | 179.37      | 12,026.28           | -6,217.80  | 343.76     | 6,226.32              | 0.00                  | 0.00                 | 0.00                |
| 18,100.00           | 88.86           | 179.37      | 12,028.27           | -6,317.77  | 344.86     | 6,326.27              | 0.00                  | 0.00                 | 0.00                |
| 18,200.00           | 88.86           | 179.37      | 12,030.27           | -6,417.75  | 345.97     | 6,426.21              | 0.00                  | 0.00                 | 0.00                |
| 18,300.00           | 88.86           | 179.37      | 12,032.26           | -6,517.72  | 347.07     | 6,526.16              | 0.00                  | 0.00                 | 0.00                |
| 18,400.00           | 88.86           | 179.37      | 12,034.26           | -6,617.70  | 348.17     | 6,626.10              | 0.00                  | 0.00                 | 0.00                |
| 18,500.00           | 88.86           | 179.37      | 12,036.26           | -6,717.67  | 349.27     | 6,726.05              | 0.00                  | 0.00                 | 0.00                |
| 18,600.00           | 88.86           | 179.37      | 12,038.25           | -6,817.64  | 350.38     | 6,825.99              | 0.00                  | 0.00                 | 0.00                |
| 18,700.00           | 88.86           | 179.37      | 12,040.25           | -6,917.62  | 351.48     | 6,925.94              | 0.00                  | 0.00                 | 0.00                |
| 18,800.00           | 88.86           | 179.37      | 12,042.24           | -7,017.59  | 352.58     | 7,025.88              | 0.00                  | 0.00                 | 0.00                |
| 18,900.00           | 88.86           | 179.37      | 12,044.24           | -7,117.57  | 353.68     | 7,125.83              | 0.00                  | 0.00                 | 0.00                |
| 19,000.00           | 88.86           | 179.37      | 12,046.23           | -7,217.54  | 354.79     | 7,225.77              | 0.00                  | 0.00                 | 0.00                |
| 19,100.00           | 88.86           | 179.37      | 12,048.23           | -7,317.51  | 355.89     | 7,325.72              | 0.00                  | 0.00                 | 0.00                |
| 19,200.00           | 88.86           | 179.37      | 12,050.22           | -7,417.49  | 356.99     | 7,425.66              | 0.00                  | 0.00                 | 0.00                |
| 19,300.00           | 88.86           | 179.37      | 12,052.22           | -7,517.46  | 358.09     | 7,525.61              | 0.00                  | 0.00                 | 0.00                |
| 19,400.00           | 88.86           | 179.37      | 12,054.21           | -7,617.44  | 359.20     | 7,625.55              | 0.00                  | 0.00                 | 0.00                |
| 19,500.00           | 88.86           | 179.37      | 12,056.21           | -7,717.41  | 360.30     | 7,725.50              | 0.00                  | 0.00                 | 0.00                |
| 19,600.00           | 88.86           | 179.37      | 12,058.20           | -7,817.38  | 361.40     | 7,825.44              | 0.00                  | 0.00                 | 0.00                |
| 19,700.00           | 88.86           | 179.37      | 12,060.20           | -7,917.36  | 362.51     | 7,925.39              | 0.00                  | 0.00                 | 0.00                |
| 19,800.00           | 88.86           | 179.37      | 12,062.19           | -8,017.33  | 363.61     | 8,025.33              | 0.00                  | 0.00                 | 0.00                |
| 19,900.00           | 88.86           | 179.37      | 12,064.19           | -8,117.31  | 364.71     | 8,125.28              | 0.00                  | 0.00                 | 0.00                |
| 20,000.00           | 88.86           | 179.37      | 12,066.18           | -8,217.28  | 365.81     | 8,225.22              | 0.00                  | 0.00                 | 0.00                |
| 20,100.00           | 88.86           | 179.37      | 12,068.18           | -8,317.25  | 366.92     | 8,325.17              | 0.00                  | 0.00                 | 0.00                |
| 20,200.00           | 88.86           | 179.37      | 12,070.17           | -8,417.23  | 368.02     | 8,425.11              | 0.00                  | 0.00                 | 0.00                |
| 20,300.00           | 88.86           | 179.37      | 12,072.17           | -8,517.20  | 369.12     | 8,525.06              | 0.00                  | 0.00                 | 0.00                |
| 20,400.00           | 88.86           | 179.37      | 12,074.16           | -8,617.18  | 370.22     | 8,625.00              | 0.00                  | 0.00                 | 0.00                |
| 20,500.00           | 88.86           | 179.37      | 12,076.16           | -8,717.15  | 371.33     | 8,724.95              | 0.00                  | 0.00                 | 0.00                |
| 20,600.00           | 88.86           | 179.37      | 12,078.15           | -8,817.12  | 372.43     | 8,824.89              | 0.00                  | 0.00                 | 0.00                |
| 20,700.00           | 88.86           | 179.37      | 12,080.15           | -8,917.10  | 373.53     | 8,924.84              | 0.00                  | 0.00                 | 0.00                |
| 20,800.00           | 88.86           | 179.37      | 12,082.14           | -9,017.07  | 374.63     | 9,024.78              | 0.00                  | 0.00                 | 0.00                |
| 20,900.00           | 88.86           | 179.37      | 12,084.14           | -9,117.05  | 375.74     | 9,124.73              | 0.00                  | 0.00                 | 0.00                |
| 21,000.00           | 88.86           | 179.37      | 12,086.13           | -9,217.02  | 376.84     | 9,224.67              | 0.00                  | 0.00                 | 0.00                |
| 21,100.00           | 88.86           | 179.37      | 12,088.13           | -9,316.99  | 377.94     | 9,324.62              | 0.00                  | 0.00                 | 0.00                |
| 21,200.00           | 88.86           | 179.37      | 12,090.12           | -9,416.97  | 379.05     | 9,424.56              | 0.00                  | 0.00                 | 0.00                |
| 21,300.00           | 88.86           | 179.37      | 12,092.12           | -9,516.94  | 380.15     | 9,524.51              | 0.00                  | 0.00                 | 0.00                |
| 21,400.00           | 88.86           | 179.37      | 12,094.11           | -9,616.92  | 381.25     | 9,624.45              | 0.00                  | 0.00                 | 0.00                |
| 21,500.00           | 88.86           | 179.37      | 12,096.11           | -9,716.89  | 382.35     | 9,724.39              | 0.00                  | 0.00                 | 0.00                |
| 21,600.00           | 88.86           | 179.37      | 12,098.10           | -9,816.86  | 383.46     | 9,824.34              | 0.00                  | 0.00                 | 0.00                |

OXY  
Planning Report

|           |                                     |                              |                              |
|-----------|-------------------------------------|------------------------------|------------------------------|
| Database: | HOPSPP                              | Local Co-ordinate Reference: | Well Maltese 5_8 Fed Com 38H |
| Company:  | ENGINEERING DESIGNS                 | TVD Reference:               | RKB=26.5' @ 3474.00ft        |
| Project:  | PRD NM DIRECTIONAL PLANS (NAD 1983) | MD Reference:                | RKB=26.5' @ 3474.00ft        |
| Site:     | Maltese 5_8                         | North Reference:             | Grid                         |
| Well:     | Maltese 5_8 Fed Com 38H             | Survey Calculation Method:   | Minimum Curvature            |
| Wellbore: | Wellbore #2                         |                              |                              |
| Design:   | Permitting Plan                     |                              |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |  |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 21,700.00           | 88.86           | 179.37      | 12,100.10           | -9,916.84  | 384.56     | 9,924.28              | 0.00                  | 0.00                 | 0.00                |  |
| 21,800.00           | 88.86           | 179.37      | 12,102.09           | -10,016.81 | 385.66     | 10,024.23             | 0.00                  | 0.00                 | 0.00                |  |
| 21,900.00           | 88.86           | 179.37      | 12,104.09           | -10,116.79 | 386.76     | 10,124.17             | 0.00                  | 0.00                 | 0.00                |  |
| 22,000.00           | 88.86           | 179.37      | 12,106.09           | -10,216.76 | 387.87     | 10,224.12             | 0.00                  | 0.00                 | 0.00                |  |
| 22,100.00           | 88.86           | 179.37      | 12,108.08           | -10,316.73 | 388.97     | 10,324.06             | 0.00                  | 0.00                 | 0.00                |  |
| 22,146.12           | 88.86           | 179.37      | 12,109.00           | -10,362.84 | 389.48     | 10,370.16             | 0.00                  | 0.00                 | 0.00                |  |

| Design Targets                                                                              |               |              |           |            |            |                 |                |           |             |  |
|---------------------------------------------------------------------------------------------|---------------|--------------|-----------|------------|------------|-----------------|----------------|-----------|-------------|--|
| Target Name                                                                                 | Dip Angle (°) | Dip Dir. (°) | TVD (ft)  | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |  |
| - hit/miss target                                                                           |               |              |           |            |            |                 |                |           |             |  |
| - Shape                                                                                     |               |              |           |            |            |                 |                |           |             |  |
| FTP (Maltese 5_8 Fed                                                                        | 0.00          | 0.00         | 11,911.00 | 82.56      | 273.98     | 457,276.59      | 835,170.64     | 32.253553 | -103.382842 |  |
| - plan misses target center by 229.81ft at 11805.51ft MD (11741.62 TVD, -71.45 N, 253.83 E) |               |              |           |            |            |                 |                |           |             |  |
| - Point                                                                                     |               |              |           |            |            |                 |                |           |             |  |
| PBHL (Maltese 5_8                                                                           | 0.00          | 0.00         | 12,109.00 | -10,362.84 | 389.48     | 446,831.13      | 835,286.14     | 32.224841 | -103.382768 |  |
| - plan hits target center                                                                   |               |              |           |            |            |                 |                |           |             |  |
| - Point                                                                                     |               |              |           |            |            |                 |                |           |             |  |

| Formations          |                     |                 |           |         |                   |  |
|---------------------|---------------------|-----------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name            | Lithology | Dip (°) | Dip Direction (°) |  |
| 1,055.00            | 1,055.00            | RUSTLER         |           |         |                   |  |
| 1,465.00            | 1,465.00            | SALADO          |           |         |                   |  |
| 3,596.00            | 3,596.00            | CASTILE         |           |         |                   |  |
| 5,352.00            | 5,352.00            | DELAWARE        |           |         |                   |  |
| 5,399.00            | 5,399.00            | BELL CANYON     |           |         |                   |  |
| 6,255.00            | 6,255.00            | CHERRY CANYON   |           |         |                   |  |
| 7,626.00            | 7,626.00            | BRUSHY CANYON   |           |         |                   |  |
| 8,817.00            | 8,817.00            | BONE SPRING     |           |         |                   |  |
| 10,002.27           | 10,002.00           | BONE SPRING 1ST |           |         |                   |  |
| 10,525.71           | 10,522.00           | BONE SPRING 2ND |           |         |                   |  |
| 11,499.14           | 11,480.00           | BONE SPRING 3RD |           |         |                   |  |
| 11,853.31           | 11,774.00           | WOLFCAMP        |           |         |                   |  |

| Plan Annotations    |                     |                   |            |                        |  |
|---------------------|---------------------|-------------------|------------|------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                        |  |
| 11,318.00           | 11,302.39           | 90.51             | 186.65     | KOP, Begin ST 10°/100' |  |
| 11,805.51           | 11,741.62           | -71.45            | 253.83     | Continue 10°/100'      |  |
| 12,249.32           | 11,911.55           | -468.61           | 280.35     | Landing Point          |  |
| 22,146.12           | 12,109.00           | -10,362.84        | 389.48     | TD at 22146.12' MD     |  |



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)  
 Site: Maltese 5\_8  
 Well: Maltese 5\_8 Fed Com 38H  
 Wellbore: Wellbore #2  
 Design: Permitting Plan

## PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

## WELL DETAILS: Maltese 5\_8 Fed Com 38H

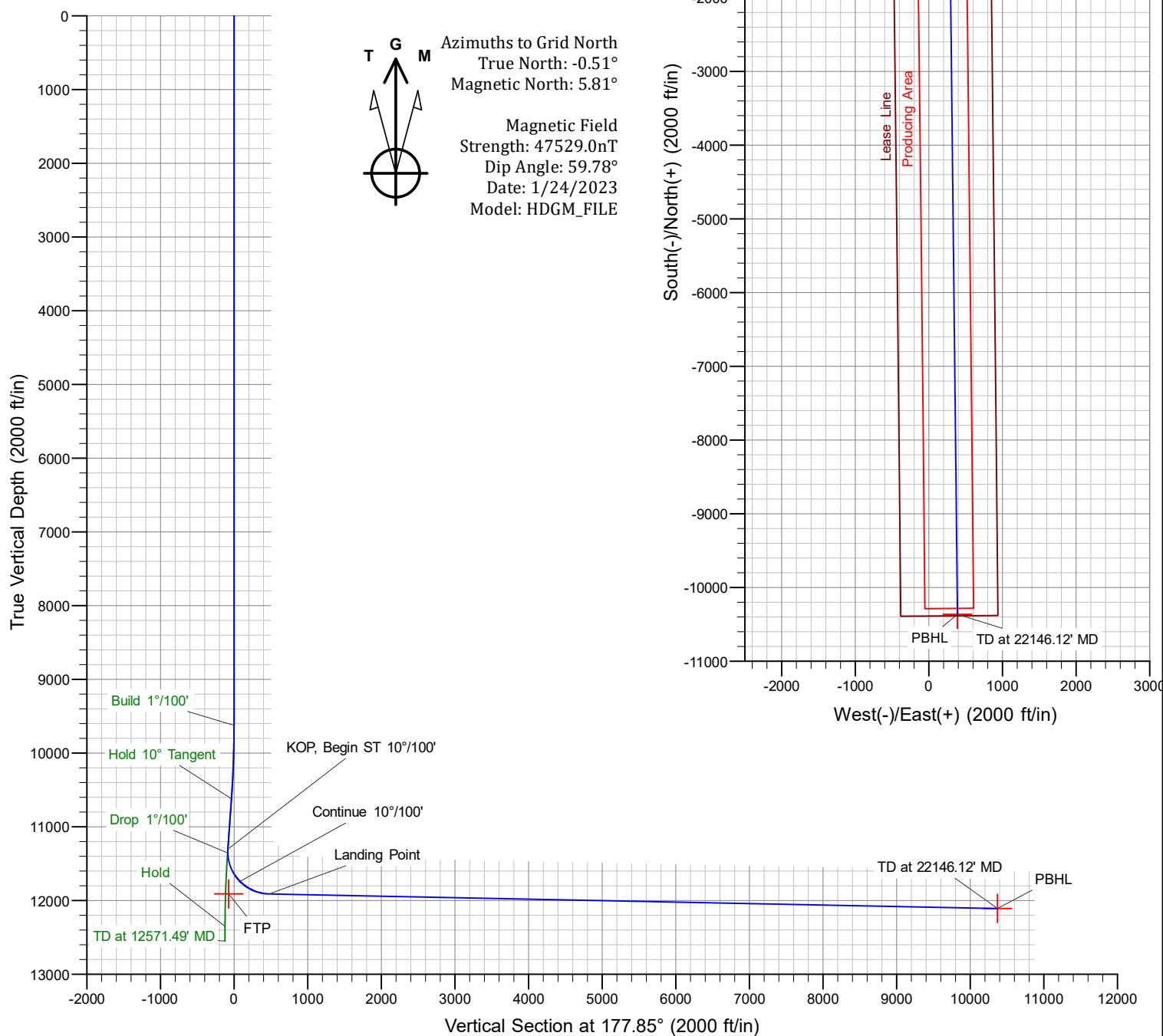
| +N/-S | +E/-W | Northing  | 3447.50<br>Easting | Latitude  | Longitude   |
|-------|-------|-----------|--------------------|-----------|-------------|
| 0.00  | 0.00  | 457194.03 | 834896.66          | 32.253333 | -103.383730 |

## PILOT HOLE

| MD       | Inc   | Azi   | TVD      | +N/-S  | +E/-W  | Dleg | TFace  | VSecl  | Annotation         |
|----------|-------|-------|----------|--------|--------|------|--------|--------|--------------------|
| 0.00     | 0.00  | 0.00  | 0.00     | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   |                    |
| 9625.00  | 0.00  | 0.00  | 9625.00  | 0.00   | 0.00   | 0.00 | 0.00   | 0.00   | Build 1°/100'      |
| 10625.47 | 10.00 | 64.13 | 10620.39 | 38.01  | 78.40  | 1.00 | 64.13  | 87.13  | Hold 10° Tangent   |
| 11371.02 | 10.00 | 64.13 | 11354.61 | 94.53  | 194.94 | 0.00 | 0.00   | 216.65 | Drop 1°/100'       |
| 12371.49 | 0.00  | 0.00  | 12350.00 | 132.54 | 273.34 | 1.00 | 180.00 | 303.78 | Hold               |
| 12571.49 | 0.00  | 0.00  | 12550.00 | 132.54 | 273.34 | 0.00 | 0.00   | 303.78 | TD at 12571.49' MD |

## SIDETRACK

| MD       | Inc   | Azi    | TVD      | +N/-S     | +E/-W  | Dleg  | TFace  | VSecl    | Annotation             |
|----------|-------|--------|----------|-----------|--------|-------|--------|----------|------------------------|
| 11318.00 | 10.00 | 64.13  | 11302.39 | 90.51     | 186.65 | 0.00  | 0.00   | -83.43   | KOP, Begin ST 10°/100' |
| 11805.51 | 45.00 | 171.67 | 11741.62 | -71.45    | 253.83 | 10.00 | 116.26 | 80.93    | Continue 10°/100'      |
| 12249.32 | 88.86 | 179.37 | 11911.55 | -468.61   | 280.35 | 10.00 | 11.04  | 478.81   | Landing Point          |
| 22146.12 | 88.86 | 179.37 | 12109.00 | -10362.84 | 389.48 | 0.00  | 0.00   | 10370.16 | TD at 22146.12' MD     |



# Oxy USA Inc. - Maltese 5\_8 Fed Com 38H

## Drill Plan

### 1. Geologic Formations

|                            |       |                                    |       |
|----------------------------|-------|------------------------------------|-------|
| TVD of Target (ft):        | 12109 | Pilot Hole Depth (ft):             | 12571 |
| Total Measured Depth (ft): | 22146 | Deepest Expected Fresh Water (ft): | 1055  |

### Delaware Basin

| Formation       | MD-RKB (ft) | TVD-RKB (ft) | Expected Fluids |
|-----------------|-------------|--------------|-----------------|
| Rustler         | 1055        | 1055         |                 |
| Salado          | 1465        | 1465         | Salt            |
| Castile         | 3596        | 3596         | Salt            |
| Delaware        | 5352        | 5352         | Oil/Gas/Brine   |
| Bell Canyon     | 5399        | 5399         | Oil/Gas/Brine   |
| Cherry Canyon   | 6255        | 6255         | Oil/Gas/Brine   |
| Brushy Canyon   | 7626        | 7626         | Losses          |
| Bone Spring     | 8817        | 8817         | Oil/Gas         |
| Bone Spring 1st | 10002       | 10002        | Oil/Gas         |
| Bone Spring 2nd | 10526       | 10522        | Oil/Gas         |
| Bone Spring 3rd | 11499       | 11480        | Oil/Gas         |
| Wolfcamp        | 11795       | 11774        | Oil/Gas         |
| Penn            | 12325       | 12304        | Oil/Gas         |
| Strawn          | 12349       | 12328        | Oil/Gas         |

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

| Section      | Hole Size (in) | MD        |         | TVD       |         | Csg. OD (in) | Csg Wt. (ppf) | Grade   | Conn.     |
|--------------|----------------|-----------|---------|-----------|---------|--------------|---------------|---------|-----------|
|              |                | From (ft) | To (ft) | From (ft) | To (ft) |              |               |         |           |
| Surface      | 14.75          | 0         | 1115    | 0         | 1115    | 10.75        | 45.5          | J-55    | BTC       |
| Intermediate | 9.875          | 0         | 6718    | 0         | 6702    | 7.625        | 26.4          | L-80 HC | BTC       |
| Intermediate | 9.875          | 6718      | 11218   | 6702      | 11202   | 7.625        | 29.7          | L-80 HC | BTC       |
| Production   | 6.75           | 11118     | 22146   | 11102     | 12109   | 5.5          | 20            | P-110   | Wedge 461 |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

\*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

| All Casing SF Values will meet or exceed those below |          |                 |                  |
|------------------------------------------------------|----------|-----------------|------------------|
| SF Collapse                                          | SF Burst | Body SF Tension | Joint SF Tension |
| 1.125                                                | 1.2      | 1.4             | 1.4              |

## Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

|                                                                                                                                                     | Y or N |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1                                                                        | Y      |
| Does casing meet API specifications? If no, attach casing specification sheet.                                                                      | Y      |
| Is premium or uncommon casing planned? If yes attach casing specification sheet.                                                                    | Y      |
| Does the above casing design meet or exceed BLM's minimum standards?<br>If not provide justification (loading assumptions, casing design criteria). | Y      |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?                   | Y      |
|                                                                                                                                                     |        |
| Is well located within Capitan Reef?                                                                                                                | N      |
| If yes, does production casing cement tie back a minimum of 50' above the Reef?                                                                     |        |
| Is well within the designated 4 string boundary.                                                                                                    |        |
|                                                                                                                                                     |        |
| Is well located in SOPA but not in R-111-P?                                                                                                         | N      |
| If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?                          |        |
|                                                                                                                                                     |        |
| Is well located in R-111-P and SOPA?                                                                                                                | N      |
| If yes, are the first three strings cemented to surface?                                                                                            |        |
| Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?                                                                                  |        |
|                                                                                                                                                     |        |
| Is well located in high Cave/Karst?                                                                                                                 | N      |
| If yes, are there two strings cemented to surface?                                                                                                  |        |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?                                                              |        |
|                                                                                                                                                     |        |
| Is well located in critical Cave/Karst?                                                                                                             | N      |
| If yes, are there three strings cemented to surface?                                                                                                |        |

### 3. Cementing Program

| Section | Stage | Slurry:                   | Sacks | Yield<br>(ft <sup>3</sup> /ft) | Density<br>(lb/gal) | Excess: | TOC    | Placement  | Description                   |
|---------|-------|---------------------------|-------|--------------------------------|---------------------|---------|--------|------------|-------------------------------|
| Surface | 1     | Surface - Tail            | 933   | 1.33                           | 14.8                | 100%    | -      | Circulate  | Class C+Accel.                |
| Int.    | 1     | Intermediate 1S - Tail    | 457   | 1.65                           | 13.2                | 5%      | 7,876  | Circulate  | Class H+Accel., Disper., Salt |
| Int.    | 2     | Intermediate 2S - Tail BH | 1214  | 1.71                           | 13.3                | 25%     | -      | Bradenhead | Class C+Accel.                |
| Prod.   | 1     | Production - Tail         | 734   | 1.38                           | 13.2                | 10%     | 11,118 | Circulate  | Class H+Ret., Disper., Salt   |
| Pilot   | 1     | Pilot - Filler Plug       | 192   | 1.032                          | 15.6                | 10%     | 11,845 | Circulate  | Class H+                      |
| Pilot   | 2     | Pilot - ST KO Plug        | 180   | 0.952                          | 17.5                | 10%     | 11,218 | Circulate  | Class H+Ret.                  |
| Pilot   | 2     | Pilot - ST KO Plug        | 30    | 0.952                          | 17.5                | 10%     | 11,118 | Circulate  | Class H+Ret.                  |

#### **Cement Top and Liner Overlap**

- Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 100 ft into previous casing string  
 The reason for this is so that we can come back and develop shallower benches from the same 7.625" mainbore in the future
- Cement will be brought to the top of this liner hanger

## Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
  - a. If well is not static notify BLM and kill well.
  - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
  - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

### Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

#### 4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size?   | Min. Required WP | Type       |  | ✓ | Tested to:               | Deepest TVD Depth (ft) per Section: |
|------------------------------------------------------|---------|------------------|------------|--|---|--------------------------|-------------------------------------|
| 9.875" Hole                                          | 13-5/8" | 5M               | Annular    |  | ✓ | 70% of working pressure  | 11202                               |
|                                                      |         | 5M               | Blind Ram  |  | ✓ | 250 psi / 5000 psi       |                                     |
|                                                      |         |                  | Pipe Ram   |  |   |                          |                                     |
|                                                      |         |                  | Double Ram |  | ✓ |                          |                                     |
|                                                      |         |                  | Other*     |  |   |                          |                                     |
| 6.75" Hole (Pilot)                                   | 13-5/8" | 5M               | Annular    |  | ✓ | 100% of working pressure | 12550                               |
|                                                      |         | 10M              | Blind Ram  |  | ✓ | 250 psi / 10000 psi      |                                     |
|                                                      |         |                  | Pipe Ram   |  |   |                          |                                     |
|                                                      |         |                  | Double Ram |  | ✓ |                          |                                     |
|                                                      |         |                  | Other*     |  |   |                          |                                     |
| 6.75" Hole (Lateral)                                 | 13-5/8" | 5M               | Annular    |  | ✓ | 100% of working pressure | 12109                               |
|                                                      |         | 10M              | Blind Ram  |  | ✓ | 250 psi / 10000 psi      |                                     |
|                                                      |         |                  | Pipe Ram   |  |   |                          |                                     |
|                                                      |         |                  | Double Ram |  | ✓ |                          |                                     |
|                                                      |         |                  | Other*     |  |   |                          |                                     |

\*Specify if additional ram is utilized

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Formation integrity test will be performed per Onshore Order #2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.                                                                                                                                                                                                                                                                                                                                                                                                                              |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Y | Are anchors required by manufacturer?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|   | A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.<br><br>See attached schematics. |

## BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

**Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.**

## 5. Mud Program

| Section      | Depth - MD |         | Depth - TVD |         | Type                                   | Weight (ppg)       | Viscosity | Water Loss |
|--------------|------------|---------|-------------|---------|----------------------------------------|--------------------|-----------|------------|
|              | From (ft)  | To (ft) | From (ft)   | To (ft) |                                        |                    |           |            |
| Surface      | 0          | 1115    | 0           | 1115    | Water-Based Mud                        | 8.6 - 8.8          | 40-60     | N/C        |
| Intermediate | 1115       | 11218   | 1115        | 11202   | Saturated Brine-Based or Oil-Based Mud | 8.0 - 10.0         | 35-45     | N/C        |
| Pilot        | 11218      | 12571   | 11202       | 12550   | Water-Based or Oil-Based Mud           | 9.5 - 13.5 (Pilot) | 38-50     | N/C        |
| Production   | 11318      | 22146   | 11302       | 12109   | Water-Based or Oil-Based Mud           | 9.5 - 12.5         | 38-50     | N/C        |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

|                                                         |                                |
|---------------------------------------------------------|--------------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/MD Totco/Visual Monitoring |
|---------------------------------------------------------|--------------------------------|

## 6. Logging and Testing Procedures

| Logging, Coring and Testing. |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| Yes                          | Will run GR from TD to surface (horizontal well – vertical portion of hole). |
|                              | Stated logs run will be in the Completion Report and submitted to the BLM.   |
| No                           | Logs are planned based on well control or offset log information.            |
| No                           | Drill stem test? If yes, explain                                             |
| No                           | Coring? If yes, explain                                                      |

| Additional logs planned | Interval                          |
|-------------------------|-----------------------------------|
| No                      | Resistivity                       |
| No                      | Density                           |
| Yes                     | CBL                               |
| Yes                     | Mud log                           |
| Yes                     | Triple Combo                      |
| Yes                     | (Spectral Gamma, Bone Spring – TD |
|                         | Intermediate and Pilot            |

## 7. Drilling Conditions

| Condition                     | Specify what type and where?         |
|-------------------------------|--------------------------------------|
| BH Pressure at deepest TVD    | 8811 psi (Pilot), 7871 psi (Lateral) |
| Abnormal Temperature          | No                                   |
| BH Temperature at deepest TVD | 181°F (Pilot), 177°F (Lateral)       |

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

|   |                   |
|---|-------------------|
| N | H2S is present    |
| Y | H2S Plan attached |

## 8. Other facets of operation

|                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes/No |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Will the well be drilled with a walking/skidding operation? If yes, describe.<br>We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.                                                                                                                                 | Yes    |
| Will more than one drilling rig be used for drilling operations? If yes, describe.<br>Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. | Yes    |

**Total Estimated Cuttings Volume:** 1732 bbls

### Attachments

- ☒ Directional Plan
- ☒ H2S Contingency Plan
- ☒ Flex III Attachments
- ☒ Spudder Rig Attachment
- ☒ Premium Connection Specs

## 9. Company Personnel

| Name             | Title                        | Office Phone | Mobile Phone |
|------------------|------------------------------|--------------|--------------|
| Garrett Granier  | Drilling Engineer            | 713-513-6633 | 832-265-0581 |
| Derek Adam       | Drilling Engineer Supervisor | 713-366-5170 | 916-802-8873 |
| Casey Martin     | Drilling Superintendent      | 713-497-2530 | 337-764-4278 |
| Kevin Threadgill | Drilling Manager             | 713-366-5958 | 361-815-0788 |

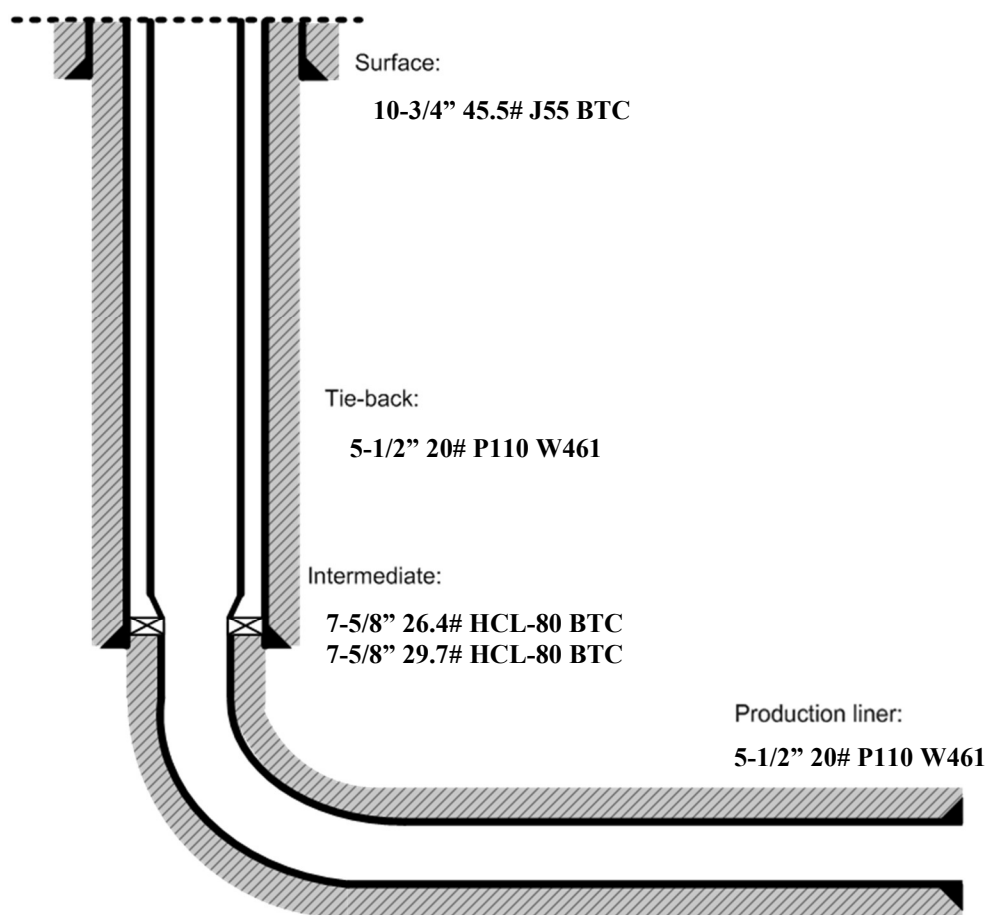
## OXY USA WTP LP

### Standard SL1 Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4" hole x 10-3/4" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7-5/8" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7-5/8" shoe.
- Release drilling rig from location.
- Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
- Pump hydraulic fracture job.
- Flowback and produce well.

General well schematic:



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 204049

CONDITIONS

|                                                                    |                                                      |
|--------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                      |
|                                                                    | Action Number:<br>204049                             |
|                                                                    | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| pkautz     | None      | 4/28/2023      |