

|                                            |                                                              |                                                         |
|--------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
| <b>Well Name:</b> RANA SALADA FED COM 0106 | <b>Well Location:</b> T23S / R28E / SEC 2 / NESE /           | <b>County or Parish/State:</b>                          |
| <b>Well Number:</b> 236H                   | <b>Type of Well:</b> CONVENTIONAL GAS WELL                   | <b>Allottee or Tribe Name:</b>                          |
| <b>Lease Number:</b> NMNM91078             | <b>Unit or CA Name:</b>                                      | <b>Unit or CA Number:</b>                               |
| <b>US Well Number:</b>                     | <b>Well Status:</b> Approved Application for Permit to Drill | <b>Operator:</b> NOVO OIL AND GAS NORTHERN DELAWARE LLC |

Notice of Intent

|                                                       |                                     |
|-------------------------------------------------------|-------------------------------------|
| <b>Type of Submission:</b> Notice of Intent           | <b>Type of Action</b> Other         |
| <b>Date Sundry Submitted:</b> 06/11/2021              | <b>Time Sundry Submitted:</b> 12:10 |
| <b>Date proposed operation will begin:</b> 06/20/2021 |                                     |

**Procedure Description:** Request to move Bottom Hole Location from 1,518' FSL & 130' FEL, Section 6, T-23-S, R-28-E, NESE to 330' FNL & 130' FEL, Section 1, T-23-S, R-28E, NENE. See attached for detailed changes to BOP/Choke and casing, cement, and mud programs.

Surface Disturbance

**Is any additional surface disturbance proposed?:** No

NOI Attachments

Procedure Description

RSFC\_0106\_236\_Change\_to\_Plans\_Sundry\_Request\_20210611121022.pdf

**County or Parish/State:**

Allottee or Tribe Name:

Unit or CA Number:

**Operator:** NOVO OIL AND GAS  
NORTHERN DELAWARE LLC

## Additional Reviews

RANA SALADA FED COM 0106 236H SUNDRY APD Calculations 20210616102337.pdf

*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 submission of Form 3160-5 or a Sundry Notice.*

**Signed on:** JUN 11, 2021 12:10 PM

**Title:** Landman

**Street Address:** 1001 West Wilshire Boulevard Suite 206

**City:** Oklahoma City

**State:** OK

**Phone:** (405) 286-3375

**Email address:** JCARTER@NOVOOG.COM

**Representative Name:**

**Street Address:**

City:

**State:**

**Zip:**

**Phone:**

**Email address:**

**BLM POC Name:** CHRISTOPHER WALLS

**BLM POC Phone: 5752342234**

**Disposition:** Approved

**Signature:** Chris Walls

**BLM POC Title:** Petroleum Engineer

**BLM POC Email Address:** cwalls@blm.gov

Disposition Date: 06/17/2021

## CHANGE TO PLANS

### Move Bottom Hole Location

From: 1,518' FSL & 130' FEL, Section 6, T-23-S, R-28-E, NESE

To: 330' FNL & 130' FEL, Section 1, T-23-S, R-28-E, NENE

### BOP & Choke

From: 10M

To: 5M (see diagrams attached)

### Casing Depth Interval Change (TMD)

Surface Casing (13-3/8"): 0' – 401'

Intermediate Casing (8-5/8"): 0' – 9,805'

Production Casing (5-1/2"): 0' – 16,655'

### Single State Cement Job for 13-3/8" Surface Casing String (TOC = Surface)

Tail: 344 Sacks; 556.7 cu. ft.; 100% excess; 1.62 cu. ft./sx; 13.80 ppg; Class C cement + Gel + Accelerator, + LCM; 12-00 psi 24-hour comprehensive strength

### Single Stage Cement Job for 8-5/8" Intermediate Casing String (TOC = Surface)

Lead: 622 Sacks; 2368.5 cu. ft.; 100% excess; 3.58 cu.ft./sx; 10 ppg; Class C + retarder + LCM + beads; 900 psi 24-hour compressive strength.

Tail: 130 Sacks; 180.7 cu. ft; 50% excess; 1.39 cu.ft./sx; 13.80 ppg; Class C + retarder + LCM; 1200 psi 24-hour compressive strength.

### Singe Stage Cement Job for 5-1/2" Production Casing String (TOC = Surface)

Lead: 775 Sacks; 1,643 cu. ft.; 20% excess; 2.12 cu.ft./sx; 12 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength.

Tail: 1,378 Sacks; 2,191 cu. ft; 20% excess; 1.59 cu.ft./sx; 13.20 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength.

Drilling Fluid Program Changes

Fresh water spud mud: 0' – 401'; 8.3 ppg

Brine Diesel Emulsion: 401' – 9,805'; 8.8-9.6 ppg

Oil Based Mud: 9,805 – 16,655'; 12-12.5 ppg

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 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                 | <sup>2</sup> Pool Code<br><b>98220</b>                                         | <sup>3</sup> Pool Name<br><b>Purple Sage; Wolfcamp Gas Pool</b> |
| <sup>4</sup> Property Code              | <sup>5</sup> Property Name<br><b>RANA SALADA FED COM 0106</b>                  | <sup>6</sup> Well Number<br><b>236H</b>                         |
| <sup>7</sup> OGRID No.<br><b>372920</b> | <sup>8</sup> Operator Name<br><b>NOVO OIL &amp; GAS NORTHERN DELAWARE, LLC</b> | <sup>9</sup> Elevation<br><b>3066.3</b>                         |

<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      |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>I</b>      | <b>2</b> | <b>23 S</b> | <b>28 E</b> |         | <b>2390</b>   | <b>SOUTH</b>     | <b>25</b>     | <b>EAST</b>    | <b>EDDY</b> |

<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      |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>1</b>      | <b>1</b> | <b>23 S</b> | <b>28 E</b> |         | <b>330</b>    | <b>NORTH</b>     | <b>130</b>    | <b>EAST</b>    | <b>EDDY</b> |

|                                                |                               |                                  |                         |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>318.88</b> | <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.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><i>Justin Carter</i> <b>6/2/2021</b><br/>Signature Date</p> <p><b>Justin Carter</b><br/>Printed Name</p> <p><b>jcarter@novoog.com</b><br/>E-mail Address</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>JUNE 1, 2021<br/>Date of Survey</p> <p><i>[Signature]</i><br/>Signature and Seal of Professional Surveyor: <b>12797</b></p> <p>Certificate Number: <b>12797</b><br/>Surveyor No. <b>8909C</b></p> |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Intent ☐ As Drilled ☐

|                                                            |                                            |                     |
|------------------------------------------------------------|--------------------------------------------|---------------------|
| API #                                                      |                                            |                     |
| Operator Name:<br>NOVO OIL & GAS NORTHERN<br>DELAWARE, LLC | Property Name:<br>RANA SALADA FED COM 0106 | Well Number<br>236H |

Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

First Take Point (FTP)

|                        |         |          |       |     |                          |          |      |          |           |
|------------------------|---------|----------|-------|-----|--------------------------|----------|------|----------|-----------|
| UL                     | Section | Township | Range | Lot | Feet                     | From N/S | Feet | From E/W | County    |
| D                      | 1       | 23S      | 28E   | 4   | 330                      | NORTH    | 330  | WEST     | EDDY      |
| Latitude<br>32.3411038 |         |          |       |     | Longitude<br>104.0481763 |          |      |          | NAD<br>83 |

Last Take Point (LTP)

|                        |         |          |       |     |                          |          |      |          |           |
|------------------------|---------|----------|-------|-----|--------------------------|----------|------|----------|-----------|
| UL                     | Section | Township | Range | Lot | Feet                     | From N/S | Feet | From E/W | County    |
| A                      | 1       | 23S      | 28E   | 1   | 330                      | NORTH    | 330  | EAST     | EDDY      |
| Latitude<br>32.3411417 |         |          |       |     | Longitude<br>104.0330188 |          |      |          | NAD<br>83 |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018



## NOVO OIL &amp; GAS NORTHERN DELAWARE, LLC

## Rana Salada Fed Com 0106 236H

SHL: 2390' FNL &amp; 25' FEL Section 02-23S-28E

BHL: 330' FNL &amp; 130' FEL Section 01-23S-28E

Eddy County, New Mexico

## DRILLING OPERATIONS PLAN

Standard Wolfcamp 3-STRING CASING DESIGN (Not Secretary's Potash or R-111-P)

## Estimated Drilling Conditions

|                                             |            |
|---------------------------------------------|------------|
| Target Formation                            | Wolfcamp B |
| Target Depth - TVD (ft)                     | 10505      |
| Planned MD (ft)                             | 16655      |
| Anticipated Bottom-Hole Pressure (psi)      | 6828.25    |
| Anticipated Maximum Surface Pressure (psi)  | 4517.15    |
| Abnormal Pressure (Yes/No)                  | No         |
| Anticipated Bottom-Hole Temperature (deg F) | 215 deg F  |
| H2S Contingency Plan Required (Yes/No)      | Yes        |

## Geologic Formations

| Elevation                  | GR     | KB (25') |                   |
|----------------------------|--------|----------|-------------------|
|                            | 3,065  | 3,090    |                   |
| Formation Tops             | TVDss  | TVD - KB | Mineral Resources |
| Rustler                    | 2,739  | 351      | Water             |
| Bell Canyon (base of salt) | 500    | 2,590    | Water             |
| Cherry Canyon              | -575   | 3,665    | Water             |
| Brushy Canyon              | -1,588 | 4,678    | Oil, Gas, Water   |
| Bone Spring Lime           | -3,031 | 6,121    | Oil, Gas, Water   |
| Lower Avalon               | -3,539 | 6,629    | Oil, Gas, Water   |
| 1st Bone Spring Sand       | -3,998 | 7,088    | Oil, Gas, Water   |
| 2nd Bone Spring Carbonate  | -4,211 | 7,301    | Oil, Gas, Water   |
| 2nd Bone Spring Sand       | -4,746 | 7,836    | Oil, Gas, Water   |
| 3rd Bone Spring Carbonate  | -5,043 | 8,133    | Oil, Gas, Water   |
| 3rd Bone Spring Sand       | -6,090 | 9,180    | Oil, Gas, Water   |
| Wolfcamp XY                | -6,370 | 9,460    | Oil, Gas, Water   |
| Wolfcamp A                 | -6,575 | 9,665    | Oil, Gas, Water   |
| Wolfcamp B                 | -6,780 | 9,870    | Oil, Gas, Water   |
| Wolfcamp B Flow Unit       | -7,400 | 10,490   | Oil, Gas, Water   |
| Wolfcamp C                 | -7,633 | 10,723   | Oil, Gas, Water   |
|                            |        |          |                   |

## Pressure Control Equipment and Pressure Testing Procedure

A 13-5/8" 5M Blowout Preventer system will be installed on a multi-bowl wellhead with a 13-5/8 flanged casing spool.

The top flange of casing spool will be set in a cellar below ground level. The blowout preventor system will consist of a single pipe ram on bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top and annular preventer. The blowout preventer will be installed on top of the 13-3/8" surface casing and will remain installed to total depth of the well. Wellhead, blowout preventer and choke manifold diagrams have been included. A co-flex line will be used between the BOP system and the choke manifold. A pressure test certification form for the co-flex hose will be available on the location at the time of the BOP testing.

The BOP system will be isolated with a test plug and tested by an independent tester to 250 psi low and 5,000 psi high for 10 minutes.

The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Shoe TVD, which is equivalent to 2157.1 psi) high for 30 minutes

**Drilling Fluid Program**

| Depth Interval (ft)                                                      | Hole Size (in.) | Fluid Type                     | Mud Weight (ppg) | Funnel Viscosity (sec/qt) | API Fluid Loss (ml/30min) | Total Solids (%) |
|--------------------------------------------------------------------------|-----------------|--------------------------------|------------------|---------------------------|---------------------------|------------------|
| 0 - 401                                                                  | 17-1/2          | Water Based Spud Mud           | 8.3              | 30-60                     | N/C                       | 2.0-8.0          |
| 401 - 9,805                                                              | 9-7/8"          | Brine Diesel Emulsion or Brine | 8.8-9.6          | 35-45                     | N/C                       | 1.0-4.0          |
| 9,805 - 16,655                                                           | 7-7/8"          | Oil Based Mud                  | 12-12.5          | 35-65                     | 4-6 cc's                  | 1.0-8.0          |
| <b>Drilling Fluid System</b> A closed loop drilling system will be used. |                 |                                |                  |                           |                           |                  |

**Casing Program**

| Depth Interval | Length (ft) | Hole Size | Casing Size | Weight (ppf) | Grade | Coupling  | Notes |
|----------------|-------------|-----------|-------------|--------------|-------|-----------|-------|
| 0' - 401'      | 401         | 17-1/2    | 13-3/8"     | 54.50        | J-55  | BTC       |       |
| 0' - 9,805'    | 9,805       | 9-7/8"    | 8-5/8"      | 32.00        | P-110 | TLW       |       |
| 0' - 16,655'   | 16,655      | 7-7/8"    | 5-1/2"      | 20.00        | P-110 | DWC/C IS+ |       |

Note: 8-5/8" 32# P110 USS Talon HTQ has the same specs as the 8-5/8" TLW casing, and may be substituted if inventory issues occur.

**Casing Centralizers**

Surface Casing: Centralizers will be run on the bottom 3 joints of casing and then 1 centralizer per joint to surface.

**Casing Performance Properties and Design Criteria**

| Depth Interval                                                                   | Collapse (psi) | Burst (psi) | Joint Strength (1000 lbs) | Actual Design Safety Factors |       |         | Notes                                   |
|----------------------------------------------------------------------------------|----------------|-------------|---------------------------|------------------------------|-------|---------|-----------------------------------------|
|                                                                                  |                |             |                           | Collapse                     | Burst | Tension |                                         |
| 0' - 401'                                                                        | 1,130          | 2,730       | 853                       | 6.51                         | 1.82  | 7.16    |                                         |
| 0' - 9,805'                                                                      | 4,230          | 8,930       | 1144                      | 1.35                         | 5.95  | 3.14    | Collapse: 1/3 fluid filled at all times |
| 0' - 16,655'                                                                     | 12,090         | 14,360      | 729                       | 3.60                         | 1.25  | 2.62    |                                         |
| <b>Design Safety Factors</b> Design safety factors will meet or exceed as shown. |                |             |                           |                              |       |         |                                         |

**Surface Casing**

Collapse:  $DF_C = 1.125$

- Full Internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst:  $DF_B = 1.125$

- Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70 percent of the minimum internal yield.

Tensile:  $DF_T = 1.60$

- Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8727 in water (8.33 ppg).

**Intermediate Casing**

Collapse:  $DF_C = 1.125$

- Partial (2/3rd) Internal Evacuation: Casing will remain greater than 1/3 fluid filled at all times with a mud weight greather than 11 ppg**
- Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run.
- Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement fluid gradient.

Burst:  $DF_B = 1.125$

- Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70 percent of the minimum internal yield.
- Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drillpipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and intrenal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile:  $DF_T = 1.60$

- Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8441 in brine water (10.2 ppg).



**Production Casing**Collapse:  $DF_C = 1.125$ 

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst:  $DF_B = 1.125$ 

- a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile:  $DF_T = 1.60$ 

- a. Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8472 in oil-based mud (10.0 ppg).

**Cementing Program****Surface Casing Cement:**

0' - 401'

Top of Cement: Surface

| Cement | Amount (sacks) | Slurry Volume (cu. ft.) | Slurry Volume (bbls) | Weight (ppg) | Yield (cu. ft./sx) | Mix Water (gal/sx) | 24hr 115deg Strength (psi) | Excess Cement (%) |
|--------|----------------|-------------------------|----------------------|--------------|--------------------|--------------------|----------------------------|-------------------|
| Lead   |                |                         |                      |              |                    |                    |                            |                   |
| Tail   | 344            | 556.7                   | 99.2                 | 13.80        | 1.62               | 7.67               | 1,200                      | 100.0%            |

Lead: N/A

Tail: Class C Cement with Gel, Accelerator, LCM

**Intermediate Casing Cement:**

Top of Lead 0

Top of Tail 8,805

Surface Shoe Depth 401

Intermediate Shoe Depth 9,805

| Cement | Amount (sacks) | Slurry Volume (cu. ft.) | Slurry Volume (bbls) | Weight (ppg) | Yield (cu. ft./sx) | Mix Water (gal/sx) | 24hr 115deg Strength (psi) | Excess Cement (%) |
|--------|----------------|-------------------------|----------------------|--------------|--------------------|--------------------|----------------------------|-------------------|
| Lead   | 662            | 2368.5                  | 421.8                | 10.00        | 3.58               | 19.15              | 900                        | 100.0%            |
| Tail   | 130.0          | 180.7                   | 32.2                 | 13.80        | 1.39               | 6.57               | 1,200                      | 50.0%             |

Lead: Class C or H Cement with Fluid Loss, Retarder, LCM, Possibly beaded for desired compressive strength

Tail: Class C or H Cement with Fluid Loss, Retarder, LCM

**Production Casing Cement:**

0' - 16,655'

Top of Cement/Lead: 0'

Top of Tail: 7,805'

| Cement | Amount (sacks) | Slurry Volume (cu. ft.) | Slurry Volume (bbls) | Weight (ppg) | Yield (cu. ft./sx) | Mix Water (gal/sx) | 24hr 115deg Strength (psi) | Excess Cement (%) |
|--------|----------------|-------------------------|----------------------|--------------|--------------------|--------------------|----------------------------|-------------------|
| Lead   | 775            | 1643.0                  | 292.6                | 12.00        | 2.12               | 11.91              | 1,200                      | 20.0%             |
| Tail   | 1378           | 2191.0                  | 390.2                | 13.20        | 1.59               | 7.98               | 1,200                      | 20.0%             |

Lead: Class H Cement with Fluid Loss, Retarder, LCM

Tail: Class H Cement with Fluid Loss, Retarder, LCM

**Logging, Testing & Coring Program**

A gamma ray log will be acquired by directional drilling Measure While Drilling tools from the intermediate casing to Total Depth.



## NOVO OIL &amp; GAS, LLC

Date

2/21/2019

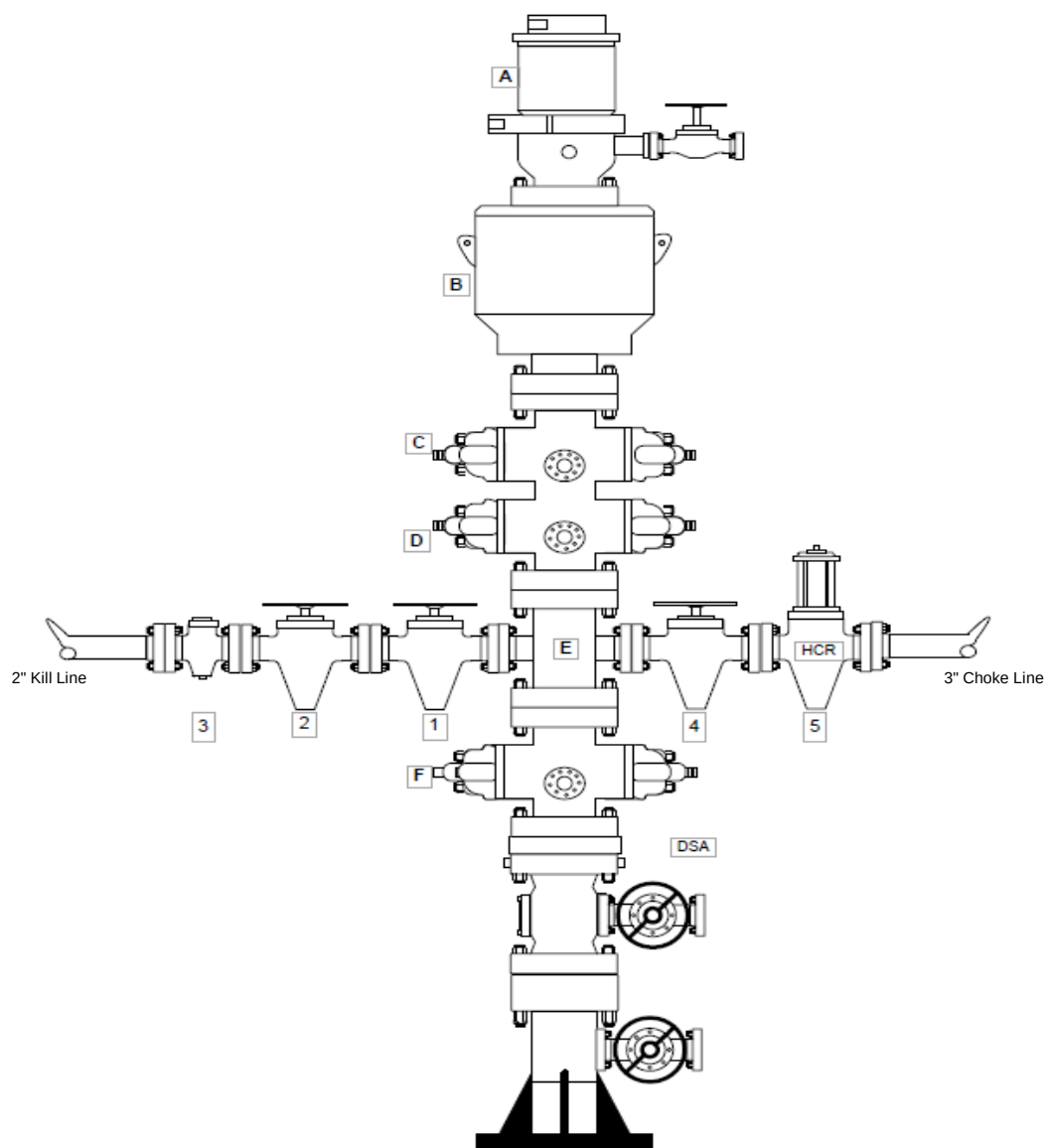
1001 West Wilshire Boulevard, Suite 206  
Oklahoma City, Oklahoma 73116

Page No.

1 of 1

## 5M BLOWOUT PREVENTER SCHEMATIC

| BLOWOUT PREVENTOR COMPONENTS |         |           |                       |
|------------------------------|---------|-----------|-----------------------|
| ITEM                         | SIZE    | PRESSURE  | DESCRIPTION           |
| A                            | 13-5/8" | 1,500 psi | Rotating Head + Valve |
| B                            | 13-5/8" | 5,000 psi | Annular Preventer     |
| C                            | 13-5/8" | 5,000 psi | Pipe Rams             |
| D                            | 13-5/8" | 5,000 psi | Blind Rams            |
| E                            | 13-5/8" | 5,000 psi | Mud Cross             |
| F                            | 13-5/8" | 5,000 psi | Pipe Rams             |



| KILL LINE |      |           |             |
|-----------|------|-----------|-------------|
| ITEM      | SIZE | PRESSURE  | DESCRIPTION |
| 1         | 2"   | 5,000 psi | Gate Valve  |
| 2         | 2"   | 5,000 psi | Gate Valve  |
| 3         | 2"   | 5,000 psi | Check Valve |
|           |      |           |             |
|           |      |           |             |

| CHOKE LINE |      |           |             |
|------------|------|-----------|-------------|
| ITEM       | SIZE | PRESSURE  | DESCRIPTION |
| 4          | 3"   | 5,000 psi | Gate Valve  |
| 5          | 3"   | 5,000 psi | HCR Valve   |
|            |      |           |             |
|            |      |           |             |



NOVO OIL &amp; GAS, LLC

Date

7/15/2019

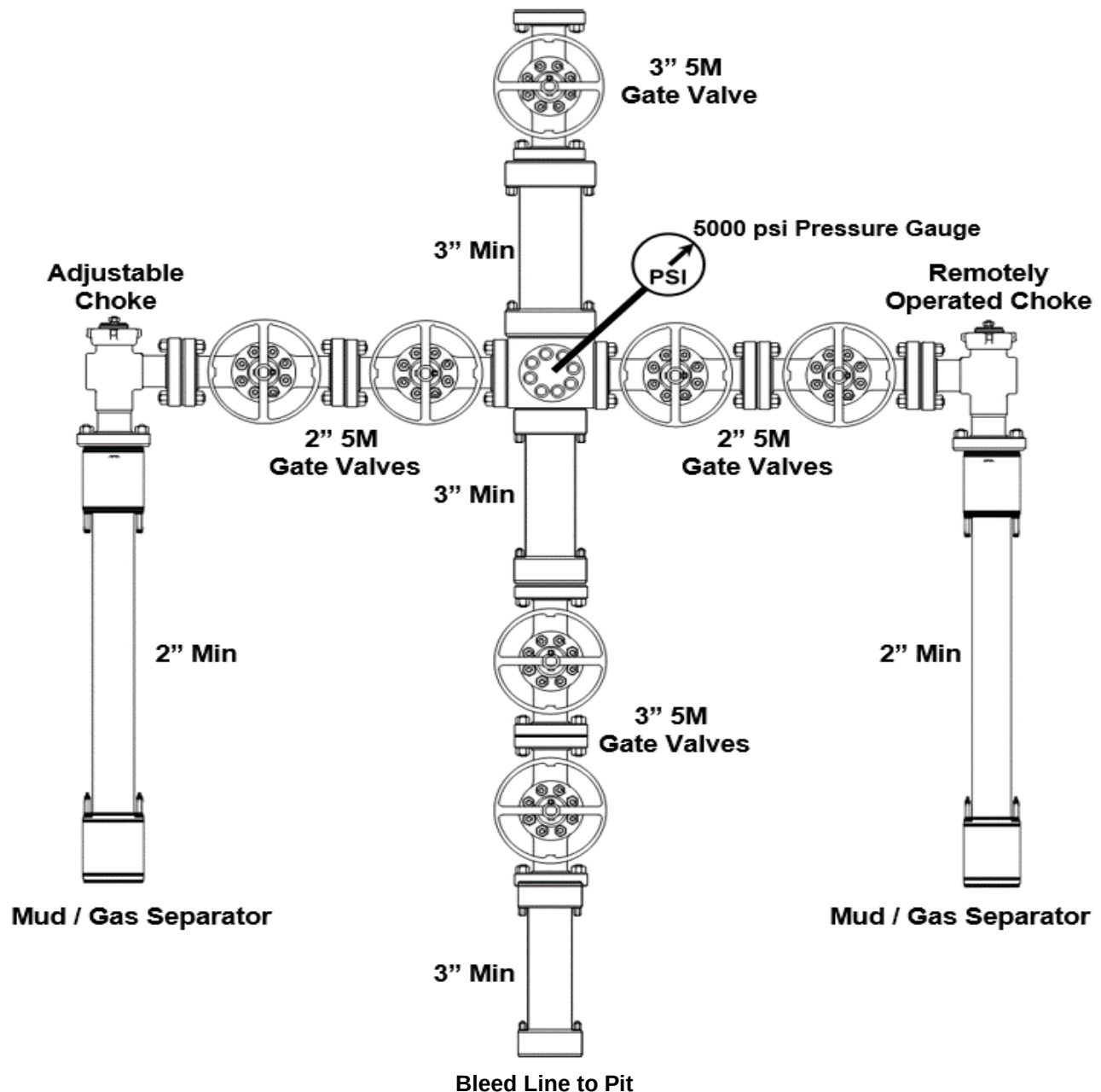
1001 West Wilshire Boulevard, Suite 206  
Oklahoma City, Oklahoma 73116

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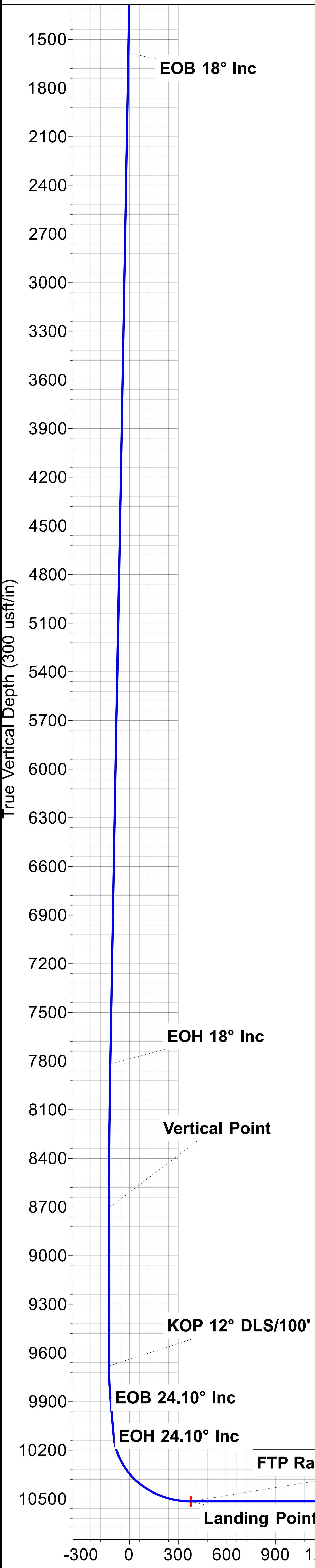
1 of 1

## 5M CHOKE MANIFOLD SCHEMATIC

| ITEM | SIZE | PRESSURE | DESCRIPTION |
|------|------|----------|-------------|
|      |      |          |             |
|      |      |          |             |
|      |      |          |             |
|      |      |          |             |
|      |      |          |             |
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|      |      |          |             |

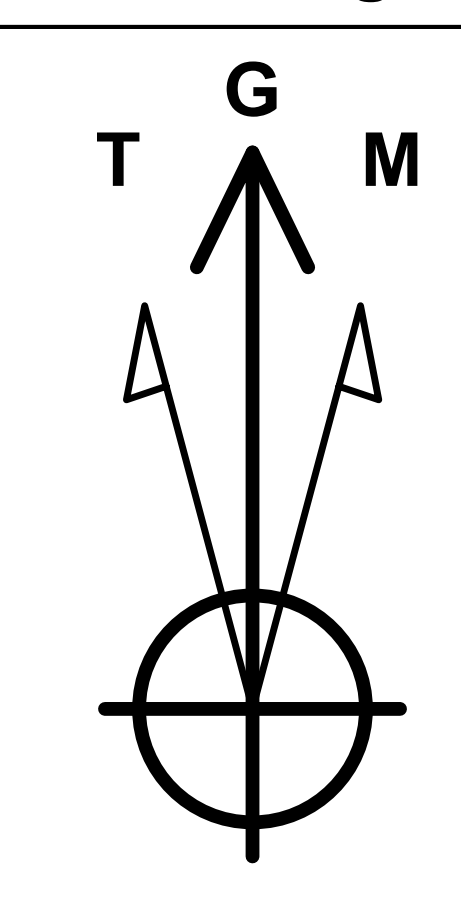






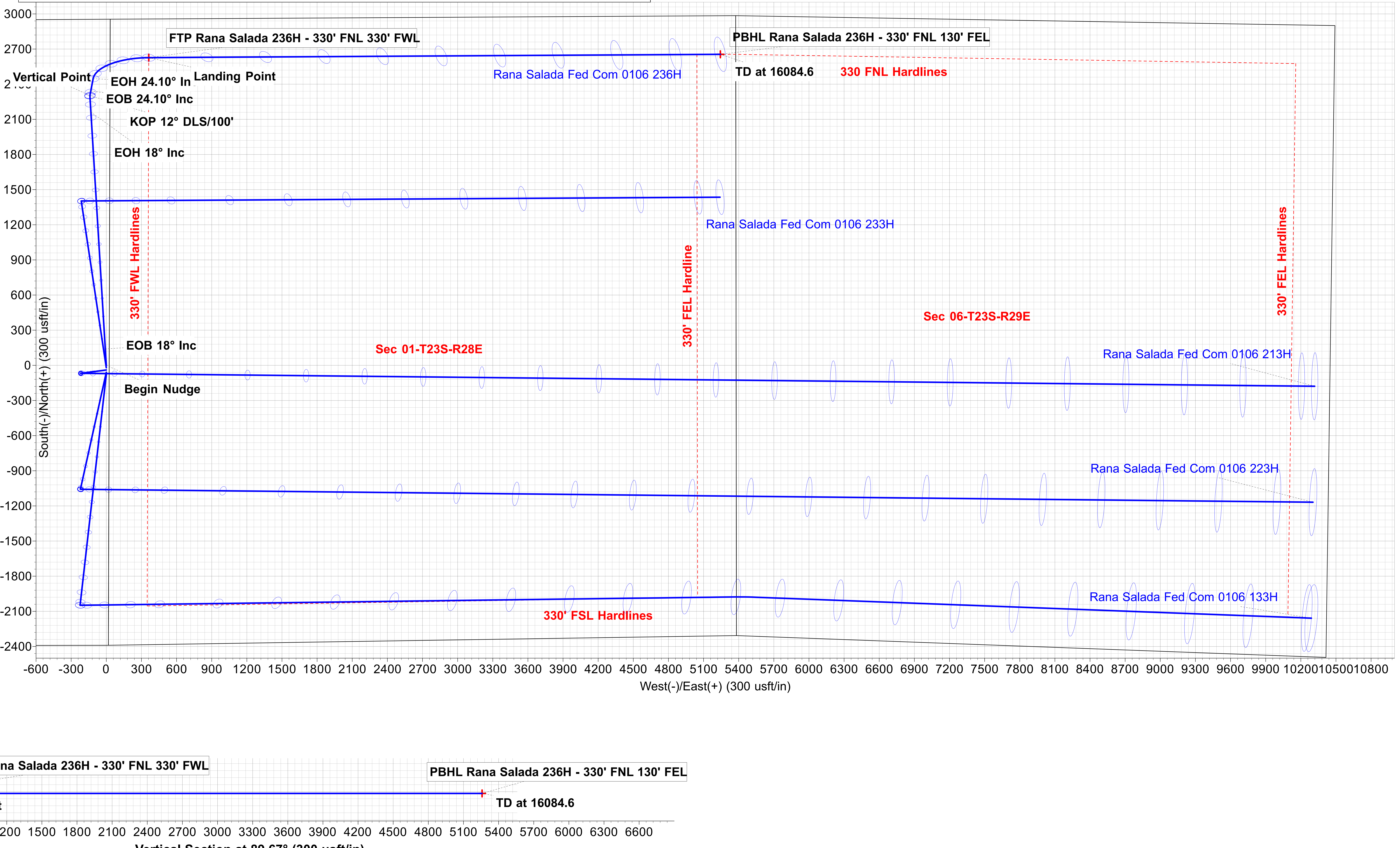
| WELL DETAILS: Rana Salada Fed Com 0106 236H<br>Plan 1 |              |                       |         |                      |        |                             |        |                               |                  |
|-------------------------------------------------------|--------------|-----------------------|---------|----------------------|--------|-----------------------------|--------|-------------------------------|------------------|
| GL Elev (ft.): 3066.3                                 |              |                       |         |                      |        |                             |        |                               |                  |
| +N/-S<br>0.0                                          | +E/-W<br>0.0 | Northing<br>485314.80 |         | Easting<br>629041.60 |        | Latitude<br>32° 20' 1.977 N |        | Longitude<br>104° 2' 57.742 W |                  |
| SECTION DETAILS                                       |              |                       |         |                      |        |                             |        |                               |                  |
| MD                                                    | Inc          | Azi                   | TVD     | +N/-S                | +E/-W  | Dleg                        | TFace  | VSect                         | Annotation       |
| 0.0                                                   | 0.00         | 0.00                  | 0.0     | 0.0                  | 0.0    | 0.00                        | 0.00   | 0.0                           |                  |
| 700.0                                                 | 0.00         | 0.00                  | 700.0   | 0.0                  | 0.0    | 0.00                        | 0.00   | 0.0                           | Begin Nudge      |
| 1600.1                                                | 18.00        | 356.52                | 1585.3  | 140.0                | -8.5   | 2.00                        | 356.52 | -7.7                          | EOB 18° Inc      |
| 8155.3                                                | 18.00        | 356.52                | 7819.7  | 2162.0               | -131.5 | 0.00                        | 0.00   | -119.0                        | EOH 18° Inc      |
| 9055.3                                                | 0.00         | 0.00                  | 8705.0  | 2302.0               | -140.0 | 2.00                        | 180.00 | -126.7                        | Vertical Point   |
| 10030.3                                               | 0.00         | 0.00                  | 9680.0  | 2302.0               | -140.0 | 0.00                        | 0.00   | -126.7                        | KOP 12° DLS/100' |
| 10231.2                                               | 24.10        | 10.78                 | 9874.9  | 2342.9               | -132.2 | 12.00                       | 10.78  | -118.7                        | EOB 24.10° Inc   |
| 10491.1                                               | 24.10        | 10.78                 | 10112.2 | 2447.1               | -112.4 | 0.00                        | 0.00   | -98.3                         | EOH 24.10° Inc   |
| 11203.4                                               | 90.00        | 89.67                 | 10515.0 | 2626.7               | 362.6  | 12.00                       | 79.84  | 377.7                         | Landing Point    |
| 16084.6                                               | 90.00        | 89.67                 | 10515.0 | 2654.9               | 5243.6 | 0.00                        | 0.00   | 5258.8                        | TD at 16084.6    |

Project: EDDY CO., NM (NAD83)  
Site: SEC 02-T23S-R28E  
Well: Rana Salada Fed Com 0106 236H  
Wellbore: Wellbore #1  
Design: Plan 1



Azimuths to Grid North  
True North: -0.15°  
Magnetic North: 6.63°

Magnetic Field  
Strength: 47516.1nT  
Dip Angle: 59.93°  
Date: 6/2/2021  
Model: IGRF2020







## **NOVO Oil & Gas**

**EDDY CO., NM (NAD83)**

**SEC 02-T23S-R28E**

**Rana Salada Fed Com 0106 236H**

**Wellbore #1**

**Plan 1**

## **Anticollision Report**

**08 June, 2021**





## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

|                              |                                                                     |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Reference                    | Plan 1                                                              |                |                     |
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | MD Interval 100.0usft                                               | Error Model:   | ISCWSA              |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum centre distance of 738.7usft                                | Error Surface: | Pedal Curve         |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

| Survey Tool Program |              | Date                 | 6/8/2021  |                |  |
|---------------------|--------------|----------------------|-----------|----------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore)    | Tool Name | Description    |  |
| 0.0                 | 16,084.6     | Plan 1 (Wellbore #1) | MWD       | MWD - Standard |  |

| Summary                         |                                                      |           |          |          |          |            |         |
|---------------------------------|------------------------------------------------------|-----------|----------|----------|----------|------------|---------|
|                                 |                                                      | Reference | Offset   | Distance |          |            |         |
| Site Name                       |                                                      | Measured  | Measured | Between  | Between  | Separation | Warning |
| Offset Well - Wellbore - Design |                                                      | Depth     | Depth    | Centres  | Ellipses | Factor     |         |
|                                 |                                                      | (usft)    | (usft)   | (usft)   | (usft)   |            |         |
| SEC 02-T23S-R28E                |                                                      |           |          |          |          |            |         |
|                                 | Rana Salada Fed Com 0106 133H - Wellbore #1 - Plan 1 | 700.0     | 698.0    | 80.0     | 76.8     | 25.071     | CC, ES  |
|                                 | Rana Salada Fed Com 0106 133H - Wellbore #1 - Plan 1 | 900.0     | 894.9    | 88.6     | 84.5     | 21.970     | SF      |
|                                 | Rana Salada Fed Com 0106 213H - Wellbore #1 - Plan 1 | 700.0     | 699.0    | 40.0     | 36.8     | 12.525     | CC, ES  |
|                                 | Rana Salada Fed Com 0106 213H - Wellbore #1 - Plan 1 | 800.0     | 799.0    | 41.7     | 38.1     | 11.518     | SF      |
|                                 | Rana Salada Fed Com 0106 223H - Wellbore #1 - Plan 1 | 700.0     | 698.5    | 60.0     | 56.8     | 18.796     | CC, ES  |
|                                 | Rana Salada Fed Com 0106 223H - Wellbore #1 - Plan 1 | 900.0     | 898.3    | 67.0     | 62.9     | 16.491     | SF      |
|                                 | Rana Salada Fed Com 0106 233H - Wellbore #1 - Plan 1 | 700.0     | 699.5    | 20.0     | 16.8     | 6.259      | CC, ES  |
|                                 | Rana Salada Fed Com 0106 233H - Wellbore #1 - Plan 1 | 800.0     | 799.5    | 21.7     | 18.1     | 5.996      | SF      |

| Offset Design: SEC 02-T23S-R28E - Rana Salada Fed Com 0106 133H - Wellbore #1 - Plan 1 |                       |                       |                       |                        |               |                       |              |                |                        |                         |                   |               | Offset Site Error: 0.0 usft |  |
|----------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------------|---------------|-----------------------|--------------|----------------|------------------------|-------------------------|-------------------|---------------|-----------------------------|--|
| Survey Program: 0-MWD                                                                  |                       |                       |                       |                        |               |                       |              | Rule Assigned: |                        |                         |                   |               | Offset Well Error: 0.5 usft |  |
| Reference                                                                              | Offset                | Semi Major Axis       |                       | Offset Wellbore Centre |               |                       | Distance     |                | Minimum Separation     |                         | Warning           |               |                             |  |
| Measured Depth (usft)                                                                  | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft)       | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft)   | Between Centres (usft) | Between Ellipses (usft) | Separation Factor |               |                             |  |
| 0.0                                                                                    | 0.0                   | 0.0                   | 0.0                   | 0.5                    | 0.5           | -179.83               | -80.0        | -0.2           | 80.0                   |                         |                   |               |                             |  |
| 100.0                                                                                  | 100.0                 | 98.0                  | 98.0                  | 0.5                    | 0.5           | -179.83               | -80.0        | -0.2           | 80.0                   | 78.9                    | 1.05              | 75.875        |                             |  |
| 200.0                                                                                  | 200.0                 | 198.0                 | 198.0                 | 0.6                    | 0.6           | -179.83               | -80.0        | -0.2           | 80.0                   | 78.7                    | 1.27              | 63.005        |                             |  |
| 300.0                                                                                  | 300.0                 | 298.0                 | 298.0                 | 0.8                    | 0.8           | -179.83               | -80.0        | -0.2           | 80.0                   | 78.4                    | 1.59              | 50.418        |                             |  |
| 400.0                                                                                  | 400.0                 | 398.0                 | 398.0                 | 1.0                    | 1.0           | -179.83               | -80.0        | -0.2           | 80.0                   | 78.0                    | 1.96              | 40.891        |                             |  |
| 500.0                                                                                  | 500.0                 | 498.0                 | 498.0                 | 1.2                    | 1.2           | -179.83               | -80.0        | -0.2           | 80.0                   | 77.6                    | 2.35              | 33.984        |                             |  |
| 600.0                                                                                  | 600.0                 | 598.0                 | 598.0                 | 1.4                    | 1.4           | -179.83               | -80.0        | -0.2           | 80.0                   | 77.2                    | 2.77              | 28.905        |                             |  |
| 700.0                                                                                  | 700.0                 | 698.0                 | 698.0                 | 1.6                    | 1.6           | -179.83               | -80.0        | -0.2           | 80.0                   | 76.8                    | 3.19              | 25.071 CC, ES |                             |  |
| 800.0                                                                                  | 800.0                 | 798.0                 | 798.0                 | 1.8                    | 1.8           | -176.42               | -80.0        | -0.2           | 81.7                   | 78.1                    | 3.62              | 22.572        |                             |  |
| 900.0                                                                                  | 899.8                 | 894.9                 | 894.9                 | 2.0                    | 2.0           | -176.51               | -81.6        | -0.4           | 88.6                   | 84.5                    | 4.03              | 21.970 SF     |                             |  |
| 1,000.0                                                                                | 999.5                 | 990.8                 | 990.7                 | 2.3                    | 2.2           | -176.47               | -86.3        | -1.0           | 102.2                  | 97.8                    | 4.43              | 23.078        |                             |  |
| 1,100.0                                                                                | 1,098.7               | 1,085.1               | 1,084.6               | 2.5                    | 2.3           | -176.36               | -94.1        | -1.8           | 122.5                  | 117.7                   | 4.83              | 25.356        |                             |  |
| 1,200.0                                                                                | 1,197.5               | 1,177.1               | 1,176.0               | 2.8                    | 2.5           | -176.22               | -104.6       | -3.0           | 149.3                  | 144.1                   | 5.24              | 28.513        |                             |  |
| 1,300.0                                                                                | 1,295.6               | 1,266.3               | 1,264.2               | 3.1                    | 2.7           | -176.07               | -117.6       | -4.5           | 182.5                  | 176.8                   | 5.64              | 32.335        |                             |  |
| 1,400.0                                                                                | 1,393.1               | 1,352.2               | 1,348.8               | 3.4                    | 3.0           | -175.93               | -132.7       | -6.2           | 221.7                  | 215.7                   | 6.05              | 36.664        |                             |  |
| 1,500.0                                                                                | 1,489.6               | 1,434.5               | 1,429.4               | 3.8                    | 3.2           | -175.79               | -149.5       | -8.1           | 266.7                  | 260.3                   | 6.45              | 41.382        |                             |  |
| 1,600.1                                                                                | 1,585.3               | 1,512.9               | 1,505.6               | 4.3                    | 3.5           | -175.65               | -167.7       | -10.2          | 317.3                  | 310.5                   | 6.84              | 46.408        |                             |  |
| 1,700.0                                                                                | 1,680.4               | 1,592.8               | 1,582.8               | 4.8                    | 3.8           | -175.60               | -188.0       | -12.5          | 371.3                  | 364.1                   | 7.24              | 51.277        |                             |  |
| 1,800.0                                                                                | 1,775.5               | 1,676.8               | 1,663.9               | 5.3                    | 4.2           | -175.56               | -209.6       | -15.0          | 425.6                  | 417.9                   | 7.67              | 55.483        |                             |  |
| 1,900.0                                                                                | 1,870.6               | 1,760.8               | 1,745.1               | 5.9                    | 4.6           | -175.53               | -231.2       | -17.4          | 479.8                  | 471.7                   | 8.11              | 59.175        |                             |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

|                                                                                               |                              |                              |                              |                               |                      |                              |                     |                       |                               |                                |                                  |                          |                           |          |
|-----------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------------|------------------------------|---------------------|-----------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|---------------------------|----------|
| <b>Offset Design:</b> SEC 02-T23S-R28E - Rana Salada Fed Com 0106 133H - Wellbore #1 - Plan 1 |                              |                              |                              |                               |                      |                              |                     |                       |                               |                                |                                  |                          | <b>Offset Site Error:</b> | 0.0 usft |
| <b>Survey Program:</b> 0-MWD                                                                  |                              |                              |                              |                               |                      |                              |                     |                       |                               |                                |                                  |                          | <b>Offset Well Error:</b> | 0.5 usft |
| <b>Reference</b>                                                                              | <b>Offset</b>                | <b>Semi Major Axis</b>       |                              | <b>Offset Wellbore Centre</b> |                      | <b>Distance</b>              |                     | <b>Rule Assigned:</b> |                               | <b>Warning</b>                 |                                  |                          |                           |          |
| <b>Measured Depth (usft)</b>                                                                  | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b>       | <b>Offset (usft)</b> | <b>Highside Toolface (°)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>   | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b> |                           |          |
| 2,000.0                                                                                       | 1,965.7                      | 1,844.8                      | 1,826.2                      | 6.4                           | 5.0                  | -175.50                      | -252.8              | -19.9                 | 534.1                         | 525.6                          | 8.55                             | 62.452                   |                           |          |
| 2,100.0                                                                                       | 2,060.8                      | 1,928.8                      | 1,907.3                      | 7.0                           | 5.3                  | -175.48                      | -274.4              | -22.3                 | 588.4                         | 579.4                          | 9.01                             | 65.321                   |                           |          |
| 2,200.0                                                                                       | 2,155.9                      | 2,012.8                      | 1,988.5                      | 7.5                           | 5.7                  | -175.46                      | -296.0              | -24.8                 | 642.7                         | 633.2                          | 9.47                             | 67.874                   |                           |          |
| 2,300.0                                                                                       | 2,251.0                      | 2,096.8                      | 2,069.6                      | 8.1                           | 6.1                  | -175.45                      | -317.5              | -27.2                 | 696.9                         | 687.0                          | 9.93                             | 70.152                   |                           |          |



## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| <b>Offset Design:</b> SEC 02-T23S-R28E - Rana Salada Fed Com 0106 213H - Wellbore #1 - Plan 1 |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                  |                           | <b>Offset Site Error:</b> | 0.0 usft |
|-----------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|---------------------------|----------|
| <b>Survey Program:</b> 0-MWD                                                                  |                       |                       |                       |                                  |                               |                       |                                     |                                     |                                 |                                  |                           | <b>Offset Well Error:</b> | 0.5 usft |
| Measured Depth (usft)                                                                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning  |
| 0.0                                                                                           | 0.0                   | 0.0                   | 0.0                   | 0.5                              | 0.5                           | -179.83               | -40.0                               | -0.1                                | 40.0                            |                                  |                           |                           |          |
| 100.0                                                                                         | 100.0                 | 99.0                  | 99.0                  | 0.5                              | 0.5                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 38.9                             | 1.05                      | 37.914                    |          |
| 200.0                                                                                         | 200.0                 | 199.0                 | 199.0                 | 0.6                              | 0.6                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 38.7                             | 1.27                      | 31.465                    |          |
| 300.0                                                                                         | 300.0                 | 299.0                 | 299.0                 | 0.8                              | 0.8                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 38.4                             | 1.59                      | 25.178                    |          |
| 400.0                                                                                         | 400.0                 | 399.0                 | 399.0                 | 1.0                              | 1.0                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 38.0                             | 1.96                      | 20.423                    |          |
| 500.0                                                                                         | 500.0                 | 499.0                 | 499.0                 | 1.2                              | 1.2                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 37.6                             | 2.36                      | 16.975                    |          |
| 600.0                                                                                         | 600.0                 | 599.0                 | 599.0                 | 1.4                              | 1.4                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 37.2                             | 2.77                      | 14.440                    |          |
| 700.0                                                                                         | 700.0                 | 699.0                 | 699.0                 | 1.6                              | 1.6                           | -179.83               | -40.0                               | -0.1                                | 40.0                            | 36.8                             | 3.19                      | 12.525 CC, ES             |          |
| 800.0                                                                                         | 800.0                 | 799.0                 | 799.0                 | 1.8                              | 1.8                           | -176.50               | -40.0                               | -0.1                                | 41.7                            | 38.1                             | 3.62                      | 11.518 SF                 |          |
| 900.0                                                                                         | 899.8                 | 898.8                 | 898.8                 | 2.0                              | 2.0                           | -176.88               | -40.0                               | -0.1                                | 47.0                            | 42.9                             | 4.06                      | 11.562                    |          |
| 1,000.0                                                                                       | 999.5                 | 998.5                 | 998.5                 | 2.3                              | 2.2                           | -177.36               | -40.0                               | -0.1                                | 55.7                            | 51.2                             | 4.50                      | 12.356                    |          |
| 1,100.0                                                                                       | 1,098.7               | 1,097.7               | 1,097.7               | 2.5                              | 2.5                           | -177.83               | -40.0                               | -0.1                                | 67.8                            | 62.9                             | 4.95                      | 13.697                    |          |
| 1,200.0                                                                                       | 1,197.5               | 1,196.5               | 1,196.5               | 2.8                              | 2.7                           | -178.22               | -40.0                               | -0.1                                | 83.5                            | 78.1                             | 5.40                      | 15.443                    |          |
| 1,300.0                                                                                       | 1,295.6               | 1,294.6               | 1,294.6               | 3.1                              | 2.9                           | -178.54               | -40.0                               | -0.1                                | 102.5                           | 96.7                             | 5.86                      | 17.493                    |          |
| 1,400.0                                                                                       | 1,393.1               | 1,392.1               | 1,392.1               | 3.4                              | 3.1                           | -178.80               | -40.0                               | -0.1                                | 125.0                           | 118.7                            | 6.32                      | 19.771                    |          |
| 1,500.0                                                                                       | 1,489.6               | 1,488.6               | 1,488.6               | 3.8                              | 3.3                           | -178.99               | -40.0                               | -0.1                                | 150.9                           | 144.1                            | 6.79                      | 22.220                    |          |
| 1,600.1                                                                                       | 1,585.3               | 1,583.9               | 1,583.9               | 4.3                              | 3.5                           | -178.74               | -40.1                               | -1.3                                | 180.3                           | 173.0                            | 7.25                      | 24.858                    |          |
| 1,700.0                                                                                       | 1,680.4               | 1,678.2               | 1,678.1               | 4.8                              | 3.7                           | -177.71               | -40.7                               | -5.6                                | 211.6                           | 203.9                            | 7.70                      | 27.475                    |          |
| 1,800.0                                                                                       | 1,775.5               | 1,773.0               | 1,772.8               | 5.3                              | 3.9                           | -176.66               | -41.4                               | -11.0                               | 243.0                           | 234.9                            | 8.15                      | 29.811                    |          |
| 1,900.0                                                                                       | 1,870.6               | 1,867.9               | 1,867.4               | 5.9                              | 4.1                           | -175.85               | -42.1                               | -16.3                               | 274.6                           | 266.0                            | 8.62                      | 31.871                    |          |
| 2,000.0                                                                                       | 1,965.7               | 1,962.7               | 1,962.1               | 6.4                              | 4.3                           | -175.20               | -42.8                               | -21.7                               | 306.2                           | 297.1                            | 9.09                      | 33.691                    |          |
| 2,100.0                                                                                       | 2,060.8               | 2,057.5               | 2,056.8               | 7.0                              | 4.5                           | -174.68               | -43.5                               | -27.1                               | 337.8                           | 328.2                            | 9.57                      | 35.307                    |          |
| 2,200.0                                                                                       | 2,155.9               | 2,152.4               | 2,151.5               | 7.5                              | 4.7                           | -174.25               | -44.2                               | -32.5                               | 369.4                           | 359.4                            | 10.05                     | 36.745                    |          |
| 2,300.0                                                                                       | 2,251.0               | 2,247.2               | 2,246.1               | 8.1                              | 4.9                           | -173.88               | -44.9                               | -37.9                               | 401.1                           | 390.6                            | 10.55                     | 38.032                    |          |
| 2,400.0                                                                                       | 2,346.1               | 2,342.0               | 2,340.8               | 8.7                              | 5.1                           | -173.57               | -45.6                               | -43.3                               | 432.8                           | 421.7                            | 11.04                     | 39.188                    |          |
| 2,500.0                                                                                       | 2,441.2               | 2,436.8               | 2,435.5               | 9.2                              | 5.3                           | -173.30               | -46.3                               | -48.6                               | 464.4                           | 452.9                            | 11.54                     | 40.230                    |          |
| 2,600.0                                                                                       | 2,536.3               | 2,531.7               | 2,530.2               | 9.8                              | 5.6                           | -173.07               | -47.0                               | -54.0                               | 496.1                           | 484.1                            | 12.05                     | 41.173                    |          |
| 2,700.0                                                                                       | 2,631.4               | 2,626.5               | 2,624.8               | 10.4                             | 5.8                           | -172.86               | -47.7                               | -59.4                               | 527.8                           | 515.3                            | 12.56                     | 42.029                    |          |
| 2,800.0                                                                                       | 2,726.5               | 2,721.3               | 2,719.5               | 11.0                             | 6.0                           | -172.68               | -48.4                               | -64.8                               | 559.5                           | 546.4                            | 13.07                     | 42.809                    |          |
| 2,900.0                                                                                       | 2,821.6               | 2,816.2               | 2,814.2               | 11.5                             | 6.2                           | -172.52               | -49.0                               | -70.2                               | 591.2                           | 577.6                            | 13.58                     | 43.522                    |          |
| 3,000.0                                                                                       | 2,916.7               | 2,911.0               | 2,908.9               | 12.1                             | 6.4                           | -172.37               | -49.7                               | -75.6                               | 622.9                           | 608.8                            | 14.10                     | 44.176                    |          |
| 3,100.0                                                                                       | 3,011.8               | 3,005.8               | 3,003.5               | 12.7                             | 6.7                           | -172.24               | -50.4                               | -80.9                               | 654.6                           | 640.0                            | 14.62                     | 44.777                    |          |
| 3,200.0                                                                                       | 3,106.9               | 3,100.6               | 3,098.2               | 13.3                             | 6.9                           | -172.12               | -51.1                               | -86.3                               | 686.3                           | 671.2                            | 15.14                     | 45.332                    |          |
| 3,300.0                                                                                       | 3,202.1               | 3,195.5               | 3,192.9               | 13.9                             | 7.1                           | -172.01               | -51.8                               | -91.7                               | 718.1                           | 702.4                            | 15.66                     | 45.845                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| <b>Offset Design:</b> SEC 02-T23S-R28E - Rana Salada Fed Com 0106 223H - Wellbore #1 - Plan 1 |                       |                       |                       |                                  |               |                       |                                     |              |                                 |                         |                           | <b>Offset Site Error:</b> | 0.0 usft |
|-----------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------|-----------------------|-------------------------------------|--------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------|
| <b>Survey Program:</b> 0-MWD                                                                  |                       |                       |                       |                                  |               |                       |                                     |              |                                 |                         |                           | <b>Offset Well Error:</b> | 0.5 usft |
| Measured Depth (usft)                                                                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Distance Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning  |
| 0.0                                                                                           | 0.0                   | 0.0                   | 0.0                   | 0.5                              | 0.5           | -179.83               | -60.0                               | -0.2         | 60.0                            |                         |                           |                           |          |
| 100.0                                                                                         | 100.0                 | 98.5                  | 98.5                  | 0.5                              | 0.5           | -179.83               | -60.0                               | -0.2         | 60.0                            | 58.9                    | 1.05                      | 56.890                    |          |
| 200.0                                                                                         | 200.0                 | 198.5                 | 198.5                 | 0.6                              | 0.6           | -179.83               | -60.0                               | -0.2         | 60.0                            | 58.7                    | 1.27                      | 47.226                    |          |
| 300.0                                                                                         | 300.0                 | 298.5                 | 298.5                 | 0.8                              | 0.8           | -179.83               | -60.0                               | -0.2         | 60.0                            | 58.4                    | 1.59                      | 37.791                    |          |
| 400.0                                                                                         | 400.0                 | 398.5                 | 398.5                 | 1.0                              | 1.0           | -179.83               | -60.0                               | -0.2         | 60.0                            | 58.0                    | 1.96                      | 30.652                    |          |
| 500.0                                                                                         | 500.0                 | 498.5                 | 498.5                 | 1.2                              | 1.2           | -179.83               | -60.0                               | -0.2         | 60.0                            | 57.6                    | 2.35                      | 25.476                    |          |
| 600.0                                                                                         | 600.0                 | 598.5                 | 598.5                 | 1.4                              | 1.4           | -179.83               | -60.0                               | -0.2         | 60.0                            | 57.2                    | 2.77                      | 21.670                    |          |
| 700.0                                                                                         | 700.0                 | 698.5                 | 698.5                 | 1.6                              | 1.6           | -179.83               | -60.0                               | -0.2         | 60.0                            | 56.8                    | 3.19                      | 18.796 CC, ES             |          |
| 800.0                                                                                         | 800.0                 | 798.5                 | 798.5                 | 1.8                              | 1.8           | -176.45               | -60.0                               | -0.2         | 61.7                            | 58.1                    | 3.62                      | 17.043                    |          |
| 900.0                                                                                         | 899.8                 | 898.3                 | 898.3                 | 2.0                              | 2.0           | -176.72               | -60.0                               | -0.2         | 67.0                            | 62.9                    | 4.06                      | 16.491 SF                 |          |
| 1,000.0                                                                                       | 999.5                 | 998.0                 | 998.0                 | 2.3                              | 2.2           | -177.09               | -60.0                               | -0.2         | 75.7                            | 71.2                    | 4.50                      | 16.799                    |          |
| 1,100.0                                                                                       | 1,098.7               | 1,097.2               | 1,097.2               | 2.5                              | 2.5           | -177.48               | -60.0                               | -0.2         | 87.8                            | 82.9                    | 4.95                      | 17.738                    |          |
| 1,200.0                                                                                       | 1,197.5               | 1,196.0               | 1,196.0               | 2.8                              | 2.7           | -177.85               | -60.0                               | -0.2         | 103.5                           | 98.1                    | 5.40                      | 19.146                    |          |
| 1,300.0                                                                                       | 1,295.6               | 1,294.1               | 1,294.1               | 3.1                              | 2.9           | -178.17               | -60.0                               | -0.2         | 122.5                           | 116.7                   | 5.86                      | 20.906                    |          |
| 1,400.0                                                                                       | 1,393.1               | 1,391.6               | 1,391.6               | 3.4                              | 3.1           | -178.44               | -60.0                               | -0.2         | 145.0                           | 138.7                   | 6.32                      | 22.935                    |          |
| 1,500.0                                                                                       | 1,489.6               | 1,488.1               | 1,488.1               | 3.8                              | 3.3           | -178.67               | -60.0                               | -0.2         | 170.9                           | 164.1                   | 6.79                      | 25.166                    |          |
| 1,600.1                                                                                       | 1,585.3               | 1,578.5               | 1,578.5               | 4.3                              | 3.5           | -178.76               | -61.0                               | -0.4         | 201.2                           | 194.0                   | 7.23                      | 27.833                    |          |
| 1,700.0                                                                                       | 1,680.4               | 1,665.8               | 1,665.7               | 4.8                              | 3.7           | -178.66               | -64.7                               | -1.2         | 236.0                           | 228.4                   | 7.64                      | 30.910                    |          |
| 1,800.0                                                                                       | 1,775.5               | 1,751.1               | 1,750.8               | 5.3                              | 3.8           | -178.44               | -70.7                               | -2.6         | 273.5                           | 265.5                   | 8.02                      | 34.098                    |          |
| 1,900.0                                                                                       | 1,870.6               | 1,834.4               | 1,833.7               | 5.9                              | 4.0           | -178.16               | -79.0                               | -4.4         | 313.7                           | 305.3                   | 8.40                      | 37.333                    |          |
| 2,000.0                                                                                       | 1,965.7               | 1,915.6               | 1,914.2               | 6.4                              | 4.1           | -177.83               | -89.4                               | -6.7         | 356.4                           | 347.6                   | 8.77                      | 40.612                    |          |
| 2,100.0                                                                                       | 2,060.8               | 2,000.0               | 1,997.5               | 7.0                              | 4.3           | -177.47               | -102.5                              | -9.6         | 401.5                           | 392.4                   | 9.17                      | 43.780                    |          |
| 2,200.0                                                                                       | 2,155.9               | 2,071.5               | 2,067.8               | 7.5                              | 4.5           | -177.16               | -115.5                              | -12.5        | 449.0                           | 439.5                   | 9.50                      | 47.269                    |          |
| 2,300.0                                                                                       | 2,251.0               | 2,146.2               | 2,140.7               | 8.1                              | 4.7           | -176.83               | -130.8                              | -15.9        | 498.8                           | 488.9                   | 9.85                      | 50.645                    |          |
| 2,400.0                                                                                       | 2,346.1               | 2,229.0               | 2,221.3               | 8.7                              | 5.0           | -176.48               | -149.4                              | -20.0        | 550.1                           | 539.8                   | 10.26                     | 53.599                    |          |
| 2,500.0                                                                                       | 2,441.2               | 2,314.7               | 2,304.7               | 9.2                              | 5.2           | -176.18               | -168.6                              | -24.2        | 601.5                           | 590.8                   | 10.71                     | 56.181                    |          |
| 2,600.0                                                                                       | 2,536.3               | 2,400.4               | 2,388.2               | 9.8                              | 5.5           | -175.92               | -187.8                              | -28.5        | 652.9                           | 641.7                   | 11.15                     | 58.536                    |          |
| 2,700.0                                                                                       | 2,631.4               | 2,486.2               | 2,471.6               | 10.4                             | 5.8           | -175.71               | -207.0                              | -32.7        | 704.3                           | 692.7                   | 11.61                     | 60.666                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| <b>Offset Design:</b> SEC 02-T23S-R28E - Rana Salada Fed Com 0106 233H - Wellbore #1 - Plan 1 |                       |                              |                              |                                  |                               |                       |                                     |                                     |                                 |                                  |                           |                   | <b>Offset Site Error:</b> 0.0 usft |
|-----------------------------------------------------------------------------------------------|-----------------------|------------------------------|------------------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|-------------------|------------------------------------|
| <b>Survey Program:</b> 0-MWD                                                                  |                       |                              |                              |                                  |                               |                       |                                     |                                     |                                 |                                  |                           |                   | <b>Offset Well Error:</b> 0.5 usft |
| Measured Depth (usft)                                                                         | Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                            |
| 0.0                                                                                           | 0.0                   | 0.0                          | 0.0                          | 0.5                              | 0.5                           | -179.83               | -20.0                               | -0.1                                | 20.0                            |                                  |                           |                   |                                    |
| 100.0                                                                                         | 100.0                 | 99.5                         | 99.5                         | 0.5                              | 0.5                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 18.9                             | 1.06                      | 18.947            |                                    |
| 200.0                                                                                         | 200.0                 | 199.5                        | 199.5                        | 0.6                              | 0.6                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 18.7                             | 1.27                      | 15.720            |                                    |
| 300.0                                                                                         | 300.0                 | 299.5                        | 299.5                        | 0.8                              | 0.8                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 18.4                             | 1.59                      | 12.579            |                                    |
| 400.0                                                                                         | 400.0                 | 399.5                        | 399.5                        | 1.0                              | 1.0                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 18.0                             | 1.96                      | 10.204            |                                    |
| 500.0                                                                                         | 500.0                 | 499.5                        | 499.5                        | 1.2                              | 1.2                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 17.6                             | 2.36                      | 8.482             |                                    |
| 600.0                                                                                         | 600.0                 | 599.5                        | 599.5                        | 1.4                              | 1.4                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 17.2                             | 2.77                      | 7.215             |                                    |
| 700.0                                                                                         | 700.0                 | 699.5                        | 699.5                        | 1.6                              | 1.6                           | -179.83               | -20.0                               | -0.1                                | 20.0                            | 16.8                             | 3.19                      | 6.259 CC, ES      |                                    |
| 800.0                                                                                         | 800.0                 | 799.5                        | 799.5                        | 1.8                              | 1.8                           | -176.64               | -20.0                               | -0.1                                | 21.7                            | 18.1                             | 3.62                      | 5.996 SF          |                                    |
| 900.0                                                                                         | 899.8                 | 899.3                        | 899.3                        | 2.0                              | 2.0                           | -177.29               | -20.0                               | -0.1                                | 27.0                            | 22.9                             | 4.06                      | 6.636             |                                    |
| 1,000.0                                                                                       | 999.5                 | 999.0                        | 999.0                        | 2.3                              | 2.2                           | -177.94               | -20.0                               | -0.1                                | 35.7                            | 31.2                             | 4.51                      | 7.915             |                                    |
| 1,100.0                                                                                       | 1,098.7               | 1,098.2                      | 1,098.2                      | 2.5                              | 2.5                           | -178.46               | -20.0                               | -0.1                                | 47.8                            | 42.9                             | 4.95                      | 9.659             |                                    |
| 1,200.0                                                                                       | 1,197.5               | 1,197.0                      | 1,197.0                      | 2.8                              | 2.7                           | -178.83               | -20.0                               | -0.1                                | 63.5                            | 58.1                             | 5.41                      | 11.743            |                                    |
| 1,300.0                                                                                       | 1,295.6               | 1,295.1                      | 1,295.1                      | 3.1                              | 2.9                           | -179.10               | -20.0                               | -0.1                                | 82.6                            | 76.7                             | 5.86                      | 14.082            |                                    |
| 1,400.0                                                                                       | 1,393.1               | 1,392.6                      | 1,392.6                      | 3.4                              | 3.1                           | -179.28               | -20.0                               | -0.1                                | 105.1                           | 98.7                             | 6.32                      | 16.609            |                                    |
| 1,500.0                                                                                       | 1,489.6               | 1,489.1                      | 1,489.1                      | 3.8                              | 3.3                           | -179.42               | -20.0                               | -0.1                                | 130.9                           | 124.1                            | 6.79                      | 19.276            |                                    |
| 1,600.1                                                                                       | 1,585.3               | 1,589.8                      | 1,589.8                      | 4.3                              | 3.6                           | -179.48               | -18.6                               | -0.3                                | 158.9                           | 151.6                            | 7.27                      | 21.843            |                                    |
| 1,700.0                                                                                       | 1,680.4               | 1,692.4                      | 1,692.2                      | 4.8                              | 3.8                           | -179.41               | -13.6                               | -1.0                                | 185.1                           | 177.3                            | 7.76                      | 23.862            |                                    |
| 1,800.0                                                                                       | 1,775.5               | 1,796.9                      | 1,796.4                      | 5.3                              | 4.0                           | -179.26               | -4.8                                | -2.3                                | 207.8                           | 199.5                            | 8.24                      | 25.213            |                                    |
| 1,900.0                                                                                       | 1,870.6               | 1,903.1                      | 1,901.7                      | 5.9                              | 4.3                           | -179.03               | 8.0                                 | -4.3                                | 226.9                           | 218.2                            | 8.73                      | 25.983            |                                    |
| 2,000.0                                                                                       | 1,965.7               | 2,010.6                      | 2,007.9                      | 6.4                              | 4.5                           | -178.74               | 24.9                                | -6.8                                | 242.4                           | 233.2                            | 9.23                      | 26.258            |                                    |
| 2,100.0                                                                                       | 2,060.8               | 2,119.3                      | 2,114.5                      | 7.0                              | 4.8                           | -178.38               | 45.9                                | -10.0                               | 254.2                           | 244.5                            | 9.73                      | 26.113            |                                    |
| 2,200.0                                                                                       | 2,155.9               | 2,223.9                      | 2,216.3                      | 7.5                              | 5.2                           | -177.97               | 69.6                                | -13.5                               | 262.7                           | 252.4                            | 10.26                     | 25.611            |                                    |
| 2,300.0                                                                                       | 2,251.0               | 2,323.5                      | 2,313.2                      | 8.1                              | 5.5                           | -177.60               | 92.6                                | -17.0                               | 270.7                           | 259.9                            | 10.79                     | 25.086            |                                    |
| 2,400.0                                                                                       | 2,346.1               | 2,423.2                      | 2,410.1                      | 8.7                              | 5.9                           | -177.24               | 115.6                               | -20.4                               | 278.7                           | 267.4                            | 11.34                     | 24.584            |                                    |
| 2,500.0                                                                                       | 2,441.2               | 2,522.9                      | 2,507.0                      | 9.2                              | 6.2                           | -176.91               | 138.6                               | -23.9                               | 286.7                           | 274.9                            | 11.89                     | 24.117            |                                    |
| 2,600.0                                                                                       | 2,536.3               | 2,622.5                      | 2,603.9                      | 9.8                              | 6.6                           | -176.59               | 161.6                               | -27.3                               | 294.8                           | 282.3                            | 12.45                     | 23.683            |                                    |
| 2,700.0                                                                                       | 2,631.4               | 2,722.2                      | 2,700.8                      | 10.4                             | 7.0                           | -176.29               | 184.6                               | -30.8                               | 302.8                           | 289.8                            | 13.01                     | 23.277            |                                    |
| 2,800.0                                                                                       | 2,726.5               | 2,821.8                      | 2,797.7                      | 11.0                             | 7.4                           | -176.01               | 207.6                               | -34.3                               | 310.9                           | 297.3                            | 13.58                     | 22.897            |                                    |
| 2,900.0                                                                                       | 2,821.6               | 2,921.5                      | 2,894.6                      | 11.5                             | 7.8                           | -175.74               | 230.6                               | -37.7                               | 318.9                           | 304.8                            | 14.15                     | 22.542            |                                    |
| 3,000.0                                                                                       | 2,916.7               | 3,021.2                      | 2,991.6                      | 12.1                             | 8.3                           | -175.48               | 253.7                               | -41.2                               | 327.0                           | 312.3                            | 14.72                     | 22.210            |                                    |
| 3,100.0                                                                                       | 3,011.8               | 3,120.8                      | 3,088.5                      | 12.7                             | 8.7                           | -175.23               | 276.7                               | -44.6                               | 335.1                           | 319.8                            | 15.30                     | 21.897            |                                    |
| 3,200.0                                                                                       | 3,106.9               | 3,220.5                      | 3,185.4                      | 13.3                             | 9.1                           | -175.00               | 299.7                               | -48.1                               | 343.2                           | 327.3                            | 15.88                     | 21.603            |                                    |
| 3,300.0                                                                                       | 3,202.1               | 3,320.2                      | 3,282.3                      | 13.9                             | 9.5                           | -174.78               | 322.7                               | -51.5                               | 351.2                           | 334.8                            | 16.47                     | 21.327            |                                    |
| 3,400.0                                                                                       | 3,297.2               | 3,419.8                      | 3,379.2                      | 14.5                             | 10.0                          | -174.57               | 345.7                               | -55.0                               | 359.3                           | 342.3                            | 17.06                     | 21.066            |                                    |
| 3,500.0                                                                                       | 3,392.3               | 3,519.5                      | 3,476.1                      | 15.1                             | 10.4                          | -174.36               | 368.7                               | -58.5                               | 367.4                           | 349.8                            | 17.65                     | 20.820            |                                    |
| 3,600.0                                                                                       | 3,487.4               | 3,619.2                      | 3,573.0                      | 15.6                             | 10.9                          | -174.17               | 391.7                               | -61.9                               | 375.5                           | 357.3                            | 18.24                     | 20.587            |                                    |
| 3,700.0                                                                                       | 3,582.5               | 3,718.8                      | 3,669.9                      | 16.2                             | 11.3                          | -173.98               | 414.7                               | -65.4                               | 383.6                           | 364.8                            | 18.84                     | 20.367            |                                    |
| 3,800.0                                                                                       | 3,677.6               | 3,818.5                      | 3,766.8                      | 16.8                             | 11.8                          | -173.81               | 437.7                               | -68.8                               | 391.7                           | 372.3                            | 19.43                     | 20.158            |                                    |
| 3,900.0                                                                                       | 3,772.7               | 3,918.1                      | 3,863.7                      | 17.4                             | 12.2                          | -173.64               | 460.7                               | -72.3                               | 399.8                           | 379.8                            | 20.03                     | 19.960            |                                    |
| 4,000.0                                                                                       | 3,867.8               | 4,017.8                      | 3,960.6                      | 18.0                             | 12.7                          | -173.47               | 483.8                               | -75.7                               | 408.0                           | 387.3                            | 20.63                     | 19.772            |                                    |
| 4,100.0                                                                                       | 3,962.9               | 4,117.5                      | 4,057.6                      | 18.6                             | 13.1                          | -173.31               | 506.8                               | -79.2                               | 416.1                           | 394.8                            | 21.24                     | 19.593            |                                    |
| 4,200.0                                                                                       | 4,058.0               | 4,217.1                      | 4,154.5                      | 19.2                             | 13.6                          | -173.16               | 529.8                               | -82.6                               | 424.2                           | 402.4                            | 21.84                     | 19.422            |                                    |
| 4,300.0                                                                                       | 4,153.1               | 4,316.8                      | 4,251.4                      | 19.8                             | 14.0                          | -173.02               | 552.8                               | -86.1                               | 432.3                           | 409.9                            | 22.45                     | 19.260            |                                    |
| 4,400.0                                                                                       | 4,248.2               | 4,416.5                      | 4,348.3                      | 20.4                             | 14.5                          | -172.88               | 575.8                               | -89.6                               | 440.4                           | 417.4                            | 23.05                     | 19.105            |                                    |
| 4,500.0                                                                                       | 4,343.3               | 4,516.1                      | 4,445.2                      | 21.0                             | 14.9                          | -172.74               | 598.8                               | -93.0                               | 448.6                           | 424.9                            | 23.66                     | 18.957            |                                    |
| 4,600.0                                                                                       | 4,438.4               | 4,615.8                      | 4,542.1                      | 21.5                             | 15.4                          | -172.61               | 621.8                               | -96.5                               | 456.7                           | 432.4                            | 24.27                     | 18.815            |                                    |
| 4,700.0                                                                                       | 4,533.5               | 4,715.5                      | 4,639.0                      | 22.1                             | 15.8                          | -172.48               | 644.8                               | -99.9                               | 464.8                           | 439.9                            | 24.88                     | 18.680            |                                    |
| 4,800.0                                                                                       | 4,628.6               | 4,815.1                      | 4,735.9                      | 22.7                             | 16.3                          | -172.36               | 667.8                               | -103.4                              | 473.0                           | 447.5                            | 25.50                     | 18.550            |                                    |
| 4,900.0                                                                                       | 4,723.7               | 4,914.8                      | 4,832.8                      | 23.3                             | 16.8                          | -172.24               | 690.9                               | -106.8                              | 481.1                           | 455.0                            | 26.11                     | 18.425            |                                    |
| 5,000.0                                                                                       | 4,818.8               | 5,014.4                      | 4,929.7                      | 23.9                             | 17.2                          | -172.13               | 713.9                               | -110.3                              | 489.2                           | 462.5                            | 26.73                     | 18.306            |                                    |
| 5,100.0                                                                                       | 4,913.9               | 5,114.1                      | 5,026.6                      | 24.5                             | 17.7                          | -172.02               | 736.9                               | -113.8                              | 497.4                           | 470.0                            | 27.34                     | 18.192            |                                    |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

| Offset Design: SEC 02-T23S-R28E - Rana Salada Fed Com 0106 233H - Wellbore #1 - Plan 1 |          |                                                                                                                                                                                                      |          |           |        |          |         |                 |          |                        |          |                | Offset Site Error: | 0.0 usft           |          |
|----------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------|----------|---------|-----------------|----------|------------------------|----------|----------------|--------------------|--------------------|----------|
| Survey Program:                                                                        |          | 0-MWD <th colspan="3">Offset</th> <th colspan="2">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="2">Rule Assigned:</th> <th>Offset Well Error:</th> <td>0.5 usft</td> |          |           | Offset |          |         | Semi Major Axis |          | Offset Wellbore Centre |          | Rule Assigned: |                    | Offset Well Error: | 0.5 usft |
| Reference                                                                              | Vertical | Measured                                                                                                                                                                                             | Vertical | Reference | Offset | Highside |         |                 | Distance | Between                | Between  | Minimum        | Separation         | Warning            |          |
| Depth                                                                                  | Depth    | Depth                                                                                                                                                                                                | Depth    |           |        | Toolface | +N/-S   | +E/-W           | Between  | Ellipses               | Ellipses | Separation     | Factor             |                    |          |
| (usft)                                                                                 | (usft)   | (usft)                                                                                                                                                                                               | (usft)   | (usft)    | (usft) | (°)      | (usft)  | (usft)          | Centres  | (usft)                 | (usft)   | (usft)         |                    |                    |          |
| 5,200.0                                                                                | 5,009.1  | 5,213.8                                                                                                                                                                                              | 5,123.6  | 25.1      | 18.1   | -171.91  | 759.9   | -117.2          | 505.5    | 477.6                  |          | 27.96          | 18.082             |                    |          |
| 5,300.0                                                                                | 5,104.2  | 5,313.4                                                                                                                                                                                              | 5,220.5  | 25.7      | 18.6   | -171.81  | 782.9   | -120.7          | 513.7    | 485.1                  |          | 28.58          | 17.976             |                    |          |
| 5,400.0                                                                                | 5,199.3  | 5,413.1                                                                                                                                                                                              | 5,317.4  | 26.3      | 19.1   | -171.71  | 805.9   | -124.1          | 521.8    | 492.6                  |          | 29.19          | 17.874             |                    |          |
| 5,500.0                                                                                | 5,294.4  | 5,512.8                                                                                                                                                                                              | 5,414.3  | 26.9      | 19.5   | -171.61  | 828.9   | -127.6          | 530.0    | 500.1                  |          | 29.81          | 17.776             |                    |          |
| 5,600.0                                                                                | 5,389.5  | 5,612.4                                                                                                                                                                                              | 5,511.2  | 27.5      | 20.0   | -171.52  | 851.9   | -131.0          | 538.1    | 507.7                  |          | 30.43          | 17.682             |                    |          |
| 5,700.0                                                                                | 5,484.6  | 5,712.1                                                                                                                                                                                              | 5,608.1  | 28.1      | 20.4   | -171.43  | 874.9   | -134.5          | 546.3    | 515.2                  |          | 31.05          | 17.591             |                    |          |
| 5,800.0                                                                                | 5,579.7  | 5,811.8                                                                                                                                                                                              | 5,705.0  | 28.7      | 20.9   | -171.34  | 898.0   | -138.0          | 554.4    | 522.7                  |          | 31.68          | 17.503             |                    |          |
| 5,900.0                                                                                | 5,674.8  | 5,911.4                                                                                                                                                                                              | 5,801.9  | 29.3      | 21.4   | -171.25  | 921.0   | -141.4          | 562.6    | 530.3                  |          | 32.30          | 17.418             |                    |          |
| 6,000.0                                                                                | 5,769.9  | 6,011.1                                                                                                                                                                                              | 5,898.8  | 29.8      | 21.8   | -171.17  | 944.0   | -144.9          | 570.7    | 537.8                  |          | 32.92          | 17.336             |                    |          |
| 6,100.0                                                                                | 5,865.0  | 6,110.7                                                                                                                                                                                              | 5,995.7  | 30.4      | 22.3   | -171.09  | 967.0   | -148.3          | 578.9    | 545.3                  |          | 33.54          | 17.257             |                    |          |
| 6,200.0                                                                                | 5,960.1  | 6,210.4                                                                                                                                                                                              | 6,092.7  | 31.0      | 22.8   | -171.01  | 990.0   | -151.8          | 587.0    | 552.8                  |          | 34.17          | 17.180             |                    |          |
| 6,300.0                                                                                | 6,055.2  | 6,310.1                                                                                                                                                                                              | 6,189.6  | 31.6      | 23.2   | -170.93  | 1,013.0 | -155.2          | 595.2    | 560.4                  |          | 34.79          | 17.106             |                    |          |
| 6,400.0                                                                                | 6,150.3  | 6,409.7                                                                                                                                                                                              | 6,286.5  | 32.2      | 23.7   | -170.86  | 1,036.0 | -158.7          | 603.3    | 567.9                  |          | 35.42          | 17.035             |                    |          |
| 6,500.0                                                                                | 6,245.4  | 6,509.4                                                                                                                                                                                              | 6,383.4  | 32.8      | 24.2   | -170.79  | 1,059.0 | -162.2          | 611.5    | 575.4                  |          | 36.04          | 16.965             |                    |          |
| 6,600.0                                                                                | 6,340.5  | 6,609.1                                                                                                                                                                                              | 6,480.3  | 33.4      | 24.6   | -170.72  | 1,082.0 | -165.6          | 619.7    | 583.0                  |          | 36.67          | 16.898             |                    |          |
| 6,700.0                                                                                | 6,435.6  | 6,708.7                                                                                                                                                                                              | 6,577.2  | 34.0      | 25.1   | -170.65  | 1,105.1 | -169.1          | 627.8    | 590.5                  |          | 37.30          | 16.833             |                    |          |
| 6,800.0                                                                                | 6,530.7  | 6,808.4                                                                                                                                                                                              | 6,674.1  | 34.6      | 25.6   | -170.58  | 1,128.1 | -172.5          | 636.0    | 598.0                  |          | 37.92          | 16.770             |                    |          |
| 6,900.0                                                                                | 6,625.8  | 6,908.1                                                                                                                                                                                              | 6,771.0  | 35.2      | 26.0   | -170.52  | 1,151.1 | -176.0          | 644.1    | 605.6                  |          | 38.55          | 16.708             |                    |          |
| 7,000.0                                                                                | 6,720.9  | 7,007.7                                                                                                                                                                                              | 6,867.9  | 35.8      | 26.5   | -170.45  | 1,174.1 | -179.4          | 652.3    | 613.1                  |          | 39.18          | 16.649             |                    |          |
| 7,100.0                                                                                | 6,816.0  | 7,107.4                                                                                                                                                                                              | 6,964.8  | 36.4      | 27.0   | -170.39  | 1,197.1 | -182.9          | 660.5    | 620.7                  |          | 39.81          | 16.591             |                    |          |
| 7,200.0                                                                                | 6,911.2  | 7,207.0                                                                                                                                                                                              | 7,061.7  | 37.0      | 27.4   | -170.33  | 1,220.1 | -186.4          | 668.6    | 628.2                  |          | 40.44          | 16.535             |                    |          |
| 7,300.0                                                                                | 7,006.3  | 7,306.7                                                                                                                                                                                              | 7,158.7  | 37.6      | 27.9   | -170.27  | 1,243.1 | -189.8          | 676.8    | 635.7                  |          | 41.07          | 16.480             |                    |          |
| 7,400.0                                                                                | 7,101.4  | 7,406.4                                                                                                                                                                                              | 7,255.6  | 38.2      | 28.4   | -170.21  | 1,266.1 | -193.3          | 685.0    | 643.3                  |          | 41.70          | 16.427             |                    |          |
| 7,500.0                                                                                | 7,196.5  | 7,506.0                                                                                                                                                                                              | 7,352.5  | 38.8      | 28.8   | -170.16  | 1,289.1 | -196.7          | 693.1    | 650.8                  |          | 42.33          | 16.375             |                    |          |
| 7,600.0                                                                                | 7,291.6  | 7,605.7                                                                                                                                                                                              | 7,449.4  | 39.4      | 29.3   | -170.10  | 1,312.1 | -200.2          | 701.3    | 658.3                  |          | 42.96          | 16.325             |                    |          |
| 7,700.0                                                                                | 7,386.7  | 7,700.0                                                                                                                                                                                              | 7,541.1  | 39.9      | 29.7   | -170.06  | 1,333.7 | -203.4          | 709.7    | 666.2                  |          | 43.56          | 16.295             |                    |          |
| 7,800.0                                                                                | 7,481.8  | 7,776.9                                                                                                                                                                                              | 7,616.4  | 40.5      | 30.0   | -170.06  | 1,349.4 | -205.8          | 720.4    | 676.4                  |          | 44.02          | 16.367             |                    |          |
| 7,900.0                                                                                | 7,576.9  | 7,856.5                                                                                                                                                                                              | 7,694.6  | 41.1      | 30.2   | -170.10  | 1,363.6 | -207.9          | 733.8    | 689.4                  |          | 44.44          | 16.512             |                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

Reference Depths are relative to RKB 25' + GL @ 3091.3usft

Offset Depths are relative to Offset Datum

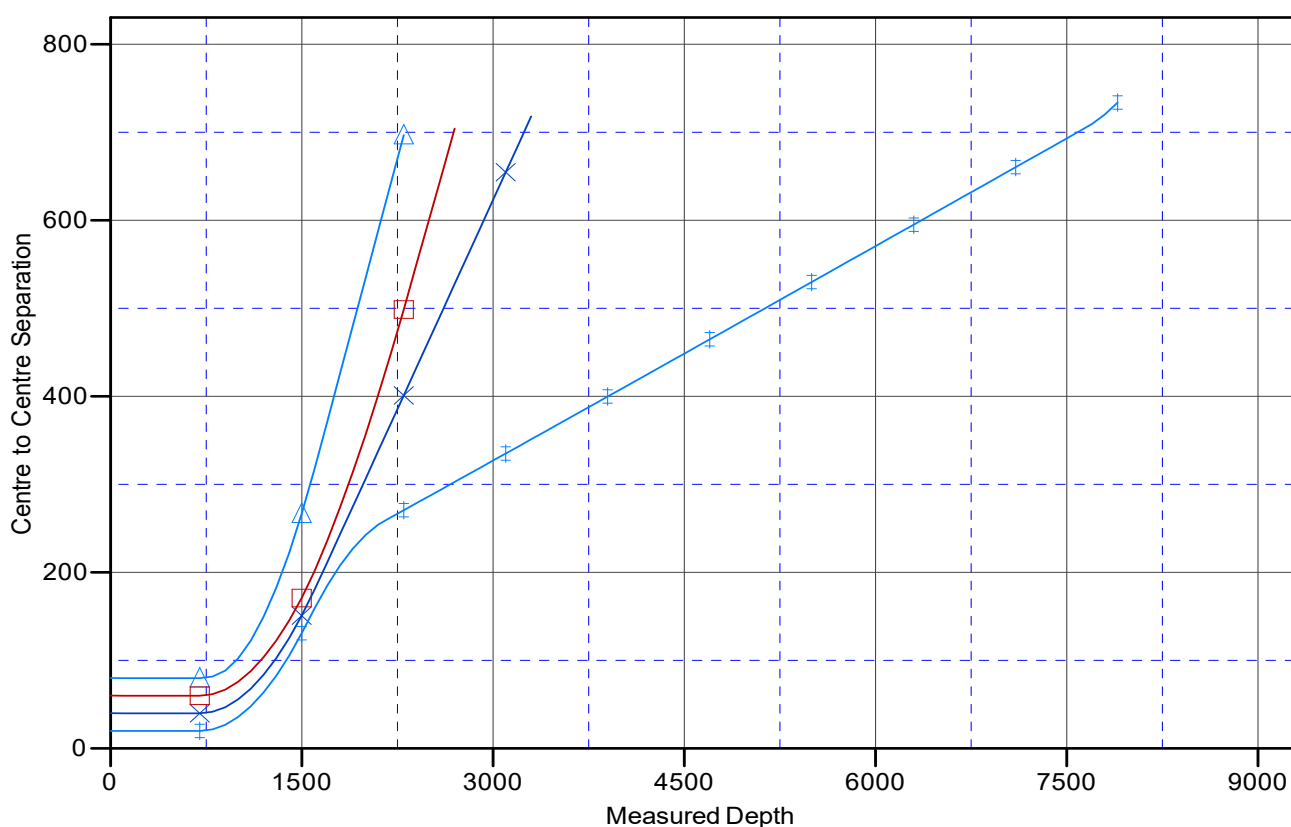
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rana Salada Fed Com 0106 236H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.15°

## Ladder Plot



## LEGEND

Rana Salada FedCom 0106 133H, Wellbore#1, Plan 1 V0  
 Rana Salada FedCom 0106 223H, Wellbore#1, Plan 1 V0  
 Rana Salada FedCom 0106 233H, Wellbore#1, Plan 1 V0



## SB Directional Services

## Anticollision Report



|                           |                               |                                     |                                    |
|---------------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>           | NOVO Oil & Gas                | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Project:</b>           | EDDY CO., NM (NAD83)          | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Reference Site:</b>    | SEC 02-T23S-R28E              | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site Error:</b>        | 0.0 usft                      | <b>North Reference:</b>             | Grid                               |
| <b>Reference Well:</b>    | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Well Error:</b>        | 0.5 usft                      | <b>Output errors are at</b>         | 2.00 sigma                         |
| <b>Reference Wellbore</b> | Wellbore #1                   | <b>Database:</b>                    | EDM 5000.16 Single User Db         |
| <b>Reference Design:</b>  | Plan 1                        | <b>Offset TVD Reference:</b>        | Offset Datum                       |

Reference Depths are relative to RKB 25' + GL @ 3091.3usft

Offset Depths are relative to Offset Datum

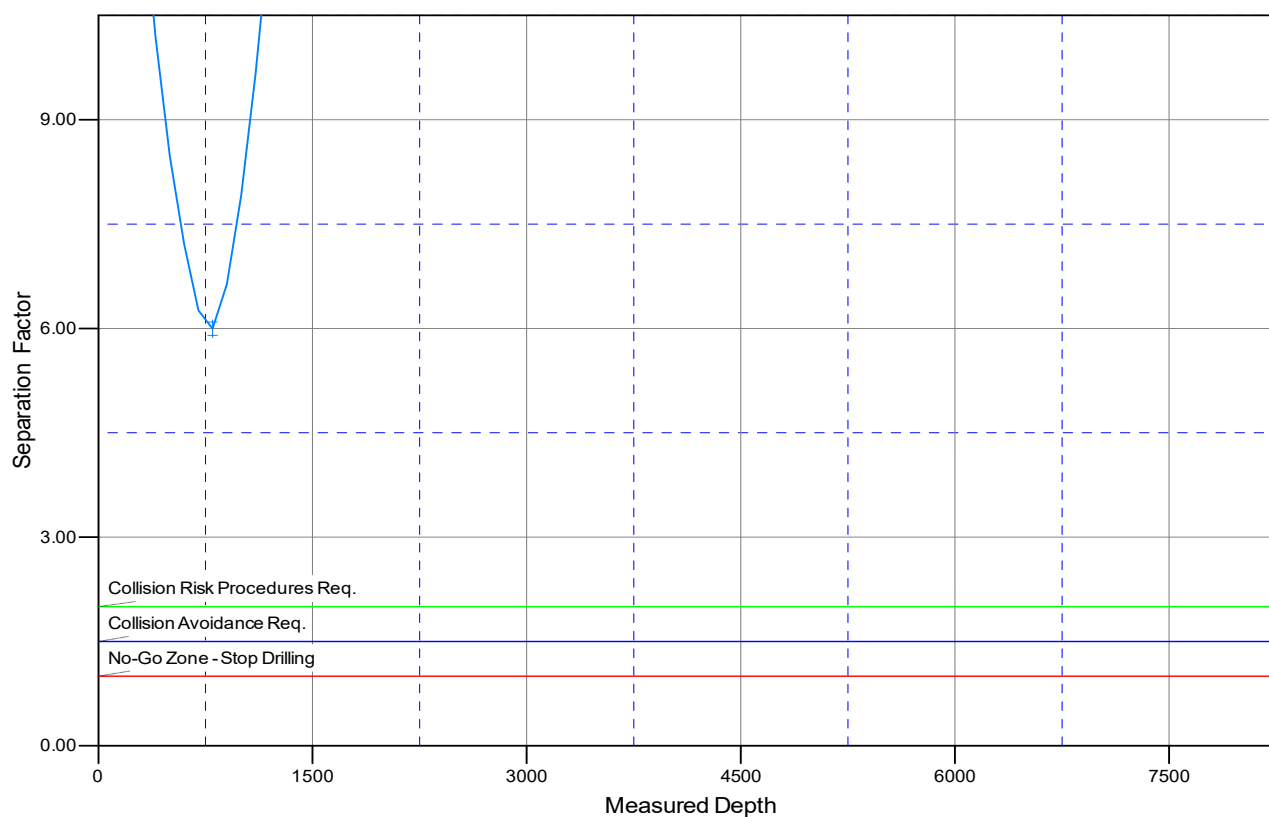
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rana Salada Fed Com 0106 236H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.15°

## Separation Factor Plot



## LEGEND

Rana Salada FedCom0106 133H, Wellbore#1, Plan 1 VO  
 Rana Salada FedCom0106 223H, Wellbore#1, Plan 1 VO  
 Rana Salada FedCom0106 233H, Wellbore#1, Plan 1 VO

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## **NOVO Oil & Gas**

**EDDY CO., NM (NAD83)**

**SEC 02-T23S-R28E**

**Rana Salada Fed Com 0106 236H**

**Wellbore #1**

**Plan: Plan 1**

## **Standard Planning Report**

**08 June, 2021**







## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | EDDY CO., NM (NAD83)      |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                       |     |                  |            |              |            |                  |
|-----------------------|-----|------------------|------------|--------------|------------|------------------|
| Site                  |     | SEC 02-T23S-R28E |            |              |            |                  |
| Site Position:        |     | Northing:        | 485,314.80 | usft         | Latitude:  | 32° 20' 1.977 N  |
| From:                 | Map | Easting:         | 629,041.60 | usft         | Longitude: | 104° 2' 57.742 W |
| Position Uncertainty: |     | 0.0              | usft       | Slot Radius: | 13-3/16    | "                |

| Well                 | Rana Salada Fed Com 0106 236H |          |                     |                 |               |                  |
|----------------------|-------------------------------|----------|---------------------|-----------------|---------------|------------------|
| Well Position        | +N/-S                         | 0.0 usft | Northing:           | 485,314.80 usft | Latitude:     | 32° 20' 1.977 N  |
|                      | +E/-W                         | 0.0 usft | Easting:            | 629,041.60 usft | Longitude:    | 104° 2' 57.742 W |
| Position Uncertainty |                               | 0.5 usft | Wellhead Elevation: | usft            | Ground Level: | 3,066.3 usft     |
| Grid Convergence:    |                               | 0.15 °   |                     |                 |               |                  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 6/2/2021           | 6.78                   | 59.93                | 47,516.11295115            |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | Plan 1                         |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          |                                | <b>Phase:</b>       | PLAN                | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0                 | 0.0                 | 89.67                |     |

|                                 |                        |                          |                      |                |  |
|---------------------------------|------------------------|--------------------------|----------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 6/8/2021                 |                      |                |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>     | <b>Remarks</b> |  |
| 1                               | 0.0                    | 16,084.6                 | Plan 1 (Wellbore #1) | MWD            |  |
|                                 |                        |                          |                      | MWD - Standard |  |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |        |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |
| 1,600.1               | 18.00           | 356.52      | 1,585.3               | 140.0        | -8.5         | 2.00                    | 2.00                   | 0.00                  | 356.52  |        |
| 8,155.3               | 18.00           | 356.52      | 7,819.7               | 2,162.0      | -131.5       | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |
| 9,055.3               | 0.00            | 0.00        | 8,705.0               | 2,302.0      | -140.0       | 2.00                    | -2.00                  | 0.00                  | 180.00  |        |
| 10,030.3              | 0.00            | 0.00        | 9,680.0               | 2,302.0      | -140.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |
| 10,231.2              | 24.10           | 10.78       | 9,874.9               | 2,342.9      | -132.2       | 12.00                   | 12.00                  | 0.00                  | 10.78   |        |
| 10,491.1              | 24.10           | 10.78       | 10,112.2              | 2,447.1      | -112.4       | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |
| 11,203.4              | 90.00           | 89.67       | 10,515.0              | 2,626.7      | 362.6        | 12.00                   | 9.25                   | 11.07                 | 79.84   |        |
| 16,084.6              | 90.00           | 89.67       | 10,515.0              | 2,654.9      | 5,243.6      | 0.00                    | 0.00                   | 0.00                  | 0.00    |        |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Begin Nudge           |                 |             |                       |              |              |                         |                         |                        |                       |
| 800.0                 | 2.00            | 356.52      | 800.0                 | 1.7          | -0.1         | -0.1                    | 2.00                    | 2.00                   | 0.00                  |
| 900.0                 | 4.00            | 356.52      | 899.8                 | 7.0          | -0.4         | -0.4                    | 2.00                    | 2.00                   | 0.00                  |
| 1,000.0               | 6.00            | 356.52      | 999.5                 | 15.7         | -1.0         | -0.9                    | 2.00                    | 2.00                   | 0.00                  |
| 1,100.0               | 8.00            | 356.52      | 1,098.7               | 27.8         | -1.7         | -1.5                    | 2.00                    | 2.00                   | 0.00                  |
| 1,200.0               | 10.00           | 356.52      | 1,197.5               | 43.4         | -2.6         | -2.4                    | 2.00                    | 2.00                   | 0.00                  |
| 1,300.0               | 12.00           | 356.52      | 1,295.6               | 62.5         | -3.8         | -3.4                    | 2.00                    | 2.00                   | 0.00                  |
| 1,400.0               | 14.00           | 356.52      | 1,393.1               | 84.9         | -5.2         | -4.7                    | 2.00                    | 2.00                   | 0.00                  |
| 1,500.0               | 16.00           | 356.52      | 1,489.6               | 110.8        | -6.7         | -6.1                    | 2.00                    | 2.00                   | 0.00                  |
| 1,600.1               | 18.00           | 356.52      | 1,585.3               | 140.0        | -8.5         | -7.7                    | 2.00                    | 2.00                   | 0.00                  |
| EOB 18° Inc           |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.0               | 18.00           | 356.52      | 1,680.4               | 170.8        | -10.4        | -9.4                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 18.00           | 356.52      | 1,775.5               | 201.6        | -12.3        | -11.1                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 18.00           | 356.52      | 1,870.6               | 232.5        | -14.1        | -12.8                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 18.00           | 356.52      | 1,965.7               | 263.3        | -16.0        | -14.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 18.00           | 356.52      | 2,060.8               | 294.2        | -17.9        | -16.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 18.00           | 356.52      | 2,155.9               | 325.0        | -19.8        | -17.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 18.00           | 356.52      | 2,251.0               | 355.9        | -21.6        | -19.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 18.00           | 356.52      | 2,346.1               | 386.7        | -23.5        | -21.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 18.00           | 356.52      | 2,441.2               | 417.6        | -25.4        | -23.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 18.00           | 356.52      | 2,536.3               | 448.4        | -27.3        | -24.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 18.00           | 356.52      | 2,631.4               | 479.3        | -29.1        | -26.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 18.00           | 356.52      | 2,726.5               | 510.1        | -31.0        | -28.1                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 18.00           | 356.52      | 2,821.6               | 541.0        | -32.9        | -29.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 18.00           | 356.52      | 2,916.7               | 571.8        | -34.8        | -31.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 18.00           | 356.52      | 3,011.8               | 602.7        | -36.7        | -33.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 18.00           | 356.52      | 3,106.9               | 633.5        | -38.5        | -34.9                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 18.00           | 356.52      | 3,202.1               | 664.3        | -40.4        | -36.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 18.00           | 356.52      | 3,297.2               | 695.2        | -42.3        | -38.3                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 18.00           | 356.52      | 3,392.3               | 726.0        | -44.2        | -40.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 18.00           | 356.52      | 3,487.4               | 756.9        | -46.0        | -41.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 18.00           | 356.52      | 3,582.5               | 787.7        | -47.9        | -43.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 18.00           | 356.52      | 3,677.6               | 818.6        | -49.8        | -45.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 18.00           | 356.52      | 3,772.7               | 849.4        | -51.7        | -46.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 18.00           | 356.52      | 3,867.8               | 880.3        | -53.5        | -48.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 18.00           | 356.52      | 3,962.9               | 911.1        | -55.4        | -50.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 18.00           | 356.52      | 4,058.0               | 942.0        | -57.3        | -51.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 18.00           | 356.52      | 4,153.1               | 972.8        | -59.2        | -53.6                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 18.00           | 356.52      | 4,248.2               | 1,003.7      | -61.0        | -55.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 18.00           | 356.52      | 4,343.3               | 1,034.5      | -62.9        | -57.0                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 18.00           | 356.52      | 4,438.4               | 1,065.3      | -64.8        | -58.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 18.00           | 356.52      | 4,533.5               | 1,096.2      | -66.7        | -60.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 18.00           | 356.52      | 4,628.6               | 1,127.0      | -68.5        | -62.1                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 18.00           | 356.52      | 4,723.7               | 1,157.9      | -70.4        | -63.7                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 18.00           | 356.52      | 4,818.8               | 1,188.7      | -72.3        | -65.4                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 18.00           | 356.52      | 4,913.9               | 1,219.6      | -74.2        | -67.1                   | 0.00                    | 0.00                   | 0.00                  |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 5,200.0               | 18.00           | 356.52      | 5,009.1               | 1,250.4      | -76.0        | -68.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,300.0               | 18.00           | 356.52      | 5,104.2               | 1,281.3      | -77.9        | -70.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0               | 18.00           | 356.52      | 5,199.3               | 1,312.1      | -79.8        | -72.2                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0               | 18.00           | 356.52      | 5,294.4               | 1,343.0      | -81.7        | -73.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0               | 18.00           | 356.52      | 5,389.5               | 1,373.8      | -83.6        | -75.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0               | 18.00           | 356.52      | 5,484.6               | 1,404.7      | -85.4        | -77.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0               | 18.00           | 356.52      | 5,579.7               | 1,435.5      | -87.3        | -79.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0               | 18.00           | 356.52      | 5,674.8               | 1,466.4      | -89.2        | -80.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0               | 18.00           | 356.52      | 5,769.9               | 1,497.2      | -91.1        | -82.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0               | 18.00           | 356.52      | 5,865.0               | 1,528.0      | -92.9        | -84.1                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0               | 18.00           | 356.52      | 5,960.1               | 1,558.9      | -94.8        | -85.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0               | 18.00           | 356.52      | 6,055.2               | 1,589.7      | -96.7        | -87.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0               | 18.00           | 356.52      | 6,150.3               | 1,620.6      | -98.6        | -89.2                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0               | 18.00           | 356.52      | 6,245.4               | 1,651.4      | -100.4       | -90.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0               | 18.00           | 356.52      | 6,340.5               | 1,682.3      | -102.3       | -92.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0               | 18.00           | 356.52      | 6,435.6               | 1,713.1      | -104.2       | -94.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0               | 18.00           | 356.52      | 6,530.7               | 1,744.0      | -106.1       | -96.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0               | 18.00           | 356.52      | 6,625.8               | 1,774.8      | -107.9       | -97.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0               | 18.00           | 356.52      | 6,720.9               | 1,805.7      | -109.8       | -99.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0               | 18.00           | 356.52      | 6,816.0               | 1,836.5      | -111.7       | -101.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0               | 18.00           | 356.52      | 6,911.2               | 1,867.4      | -113.6       | -102.8                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0               | 18.00           | 356.52      | 7,006.3               | 1,898.2      | -115.4       | -104.5                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0               | 18.00           | 356.52      | 7,101.4               | 1,929.0      | -117.3       | -106.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0               | 18.00           | 356.52      | 7,196.5               | 1,959.9      | -119.2       | -107.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0               | 18.00           | 356.52      | 7,291.6               | 1,990.7      | -121.1       | -109.6                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0               | 18.00           | 356.52      | 7,386.7               | 2,021.6      | -122.9       | -111.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.0               | 18.00           | 356.52      | 7,481.8               | 2,052.4      | -124.8       | -113.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.0               | 18.00           | 356.52      | 7,576.9               | 2,083.3      | -126.7       | -114.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.0               | 18.00           | 356.52      | 7,672.0               | 2,114.1      | -128.6       | -116.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.0               | 18.00           | 356.52      | 7,767.1               | 2,145.0      | -130.5       | -118.1                  | 0.00                    | 0.00                   | 0.00                  |  |
| 8,155.3               | 18.00           | 356.52      | 7,819.7               | 2,162.0      | -131.5       | -119.0                  | 0.00                    | 0.00                   | 0.00                  |  |
| <b>EOH 18° Inc</b>    |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,200.0               | 17.11           | 356.52      | 7,862.3               | 2,175.5      | -132.3       | -119.8                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,300.0               | 15.11           | 356.52      | 7,958.4               | 2,203.2      | -134.0       | -121.3                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,400.0               | 13.11           | 356.52      | 8,055.4               | 2,227.5      | -135.5       | -122.6                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,500.0               | 11.11           | 356.52      | 8,153.1               | 2,248.4      | -136.7       | -123.8                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,600.0               | 9.11            | 356.52      | 8,251.6               | 2,266.0      | -137.8       | -124.8                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,700.0               | 7.11            | 356.52      | 8,350.6               | 2,280.0      | -138.7       | -125.5                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,800.0               | 5.11            | 356.52      | 8,450.0               | 2,290.6      | -139.3       | -126.1                  | 2.00                    | -2.00                  | 0.00                  |  |
| 8,900.0               | 3.11            | 356.52      | 8,549.7               | 2,297.8      | -139.7       | -126.5                  | 2.00                    | -2.00                  | 0.00                  |  |
| 9,000.0               | 1.11            | 356.52      | 8,649.7               | 2,301.5      | -140.0       | -126.7                  | 2.00                    | -2.00                  | 0.00                  |  |
| 9,055.3               | 0.00            | 0.00        | 8,705.0               | 2,302.0      | -140.0       | -126.7                  | 2.00                    | -2.00                  | 0.00                  |  |
| <b>Vertical Point</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,100.0               | 0.00            | 0.00        | 8,749.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0               | 0.00            | 0.00        | 8,849.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0               | 0.00            | 0.00        | 8,949.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0               | 0.00            | 0.00        | 9,049.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0               | 0.00            | 0.00        | 9,149.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0               | 0.00            | 0.00        | 9,249.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0               | 0.00            | 0.00        | 9,349.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0               | 0.00            | 0.00        | 9,449.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0               | 0.00            | 0.00        | 9,549.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0              | 0.00            | 0.00        | 9,649.7               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,030.3              | 0.00            | 0.00        | 9,680.0               | 2,302.0      | -140.0       | -126.7                  | 0.00                    | 0.00                   | 0.00                  |  |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Planned Survey          |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)   | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| <b>KOP 12° DLS/100'</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,050.0                | 2.36            | 10.78       | 9,699.7               | 2,302.4      | -139.9       | -126.7                  | 11.97                   | 11.97                  | 0.00                  |  |
| 10,075.0                | 5.36            | 10.78       | 9,724.6               | 2,304.1      | -139.6       | -126.3                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,100.0                | 8.36            | 10.78       | 9,749.4               | 2,307.0      | -139.1       | -125.8                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,125.0                | 11.36           | 10.78       | 9,774.0               | 2,311.2      | -138.3       | -124.9                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,150.0                | 14.36           | 10.78       | 9,798.4               | 2,316.7      | -137.2       | -123.9                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,175.0                | 17.36           | 10.78       | 9,822.5               | 2,323.4      | -135.9       | -122.5                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,200.0                | 20.36           | 10.78       | 9,846.1               | 2,331.3      | -134.4       | -121.0                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,225.0                | 23.36           | 10.78       | 9,869.3               | 2,340.4      | -132.7       | -119.2                  | 12.00                   | 12.00                  | 0.00                  |  |
| 10,231.2                | 24.10           | 10.78       | 9,875.0               | 2,342.9      | -132.2       | -118.7                  | 11.91                   | 11.91                  | 0.00                  |  |
| <b>EOB 24.10° Inc</b>   |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,300.0                | 24.10           | 10.78       | 9,937.8               | 2,370.5      | -127.0       | -113.3                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0                | 24.10           | 10.78       | 10,029.1              | 2,410.6      | -119.3       | -105.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,491.1                | 24.10           | 10.78       | 10,112.2              | 2,447.1      | -112.4       | -98.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| <b>EOH 24.10° Inc</b>   |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,500.0                | 24.31           | 13.35       | 10,120.4              | 2,450.7      | -111.6       | -97.5                   | 12.06                   | 2.37                   | 28.85                 |  |
| 10,525.0                | 25.12           | 20.26       | 10,143.1              | 2,460.7      | -108.6       | -94.4                   | 12.00                   | 3.24                   | 27.65                 |  |
| 10,550.0                | 26.23           | 26.70       | 10,165.6              | 2,470.6      | -104.3       | -90.0                   | 12.00                   | 4.44                   | 25.75                 |  |
| 10,575.0                | 27.60           | 32.59       | 10,187.9              | 2,480.4      | -98.7        | -84.4                   | 12.00                   | 5.50                   | 23.58                 |  |
| 10,600.0                | 29.20           | 37.93       | 10,209.9              | 2,490.1      | -91.8        | -77.4                   | 12.00                   | 6.40                   | 21.35                 |  |
| 10,625.0                | 30.99           | 42.73       | 10,231.5              | 2,499.7      | -83.7        | -69.3                   | 12.00                   | 7.16                   | 19.21                 |  |
| 10,650.0                | 32.95           | 47.04       | 10,252.7              | 2,509.0      | -74.3        | -59.9                   | 12.00                   | 7.80                   | 17.23                 |  |
| 10,675.0                | 35.03           | 50.90       | 10,273.5              | 2,518.2      | -63.8        | -49.3                   | 12.00                   | 8.33                   | 15.45                 |  |
| 10,700.0                | 37.22           | 54.38       | 10,293.7              | 2,527.1      | -52.1        | -37.5                   | 12.00                   | 8.77                   | 13.89                 |  |
| 10,725.0                | 39.51           | 57.51       | 10,313.3              | 2,535.8      | -39.2        | -24.6                   | 12.00                   | 9.14                   | 12.53                 |  |
| 10,750.0                | 41.87           | 60.35       | 10,332.2              | 2,544.2      | -25.2        | -10.6                   | 12.00                   | 9.45                   | 11.36                 |  |
| 10,775.0                | 44.29           | 62.93       | 10,350.5              | 2,552.3      | -10.2        | 4.5                     | 12.00                   | 9.70                   | 10.35                 |  |
| 10,800.0                | 46.77           | 65.30       | 10,368.0              | 2,560.1      | 5.8          | 20.6                    | 12.00                   | 9.91                   | 9.48                  |  |
| 10,825.0                | 49.30           | 67.49       | 10,384.7              | 2,567.5      | 22.9         | 37.7                    | 12.00                   | 10.09                  | 8.73                  |  |
| 10,850.0                | 51.86           | 69.51       | 10,400.6              | 2,574.6      | 40.8         | 55.7                    | 12.00                   | 10.25                  | 8.09                  |  |
| 10,875.0                | 54.45           | 71.39       | 10,415.6              | 2,581.3      | 59.7         | 74.6                    | 12.00                   | 10.38                  | 7.53                  |  |
| 10,900.0                | 57.07           | 73.16       | 10,429.6              | 2,587.6      | 79.4         | 94.3                    | 12.00                   | 10.49                  | 7.06                  |  |
| 10,925.0                | 59.72           | 74.82       | 10,442.7              | 2,593.4      | 99.8         | 114.8                   | 12.00                   | 10.58                  | 6.65                  |  |
| 10,950.0                | 62.38           | 76.39       | 10,454.8              | 2,598.9      | 121.0        | 136.0                   | 12.00                   | 10.66                  | 6.30                  |  |
| 10,975.0                | 65.07           | 77.89       | 10,465.9              | 2,603.8      | 142.9        | 157.9                   | 12.00                   | 10.73                  | 6.00                  |  |
| 11,000.0                | 67.76           | 79.33       | 10,475.9              | 2,608.4      | 165.3        | 180.4                   | 12.00                   | 10.78                  | 5.74                  |  |
| 11,025.0                | 70.47           | 80.71       | 10,484.8              | 2,612.4      | 188.3        | 203.4                   | 12.00                   | 10.83                  | 5.53                  |  |
| 11,050.0                | 73.19           | 82.05       | 10,492.6              | 2,616.0      | 211.8        | 226.9                   | 12.00                   | 10.87                  | 5.34                  |  |
| 11,075.0                | 75.91           | 83.35       | 10,499.3              | 2,619.0      | 235.7        | 250.8                   | 12.00                   | 10.91                  | 5.19                  |  |
| 11,100.0                | 78.65           | 84.61       | 10,504.8              | 2,621.6      | 260.0        | 275.1                   | 12.00                   | 10.93                  | 5.07                  |  |
| 11,125.0                | 81.39           | 85.86       | 10,509.1              | 2,623.6      | 284.5        | 299.6                   | 12.00                   | 10.96                  | 4.97                  |  |
| 11,150.0                | 84.13           | 87.08       | 10,512.3              | 2,625.2      | 309.3        | 324.4                   | 12.00                   | 10.97                  | 4.90                  |  |
| 11,175.0                | 86.87           | 88.29       | 10,514.2              | 2,626.2      | 334.2        | 349.3                   | 12.00                   | 10.98                  | 4.85                  |  |
| 11,200.0                | 89.62           | 89.50       | 10,515.0              | 2,626.6      | 359.1        | 374.3                   | 12.00                   | 10.99                  | 4.83                  |  |
| 11,203.4                | 90.00           | 89.67       | 10,515.0              | 2,626.7      | 362.5        | 377.7                   | 12.00                   | 10.99                  | 4.82                  |  |
| <b>Landing Point</b>    |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,300.0                | 90.00           | 89.67       | 10,515.0              | 2,627.2      | 459.1        | 474.3                   | 0.01                    | 0.00                   | 0.00                  |  |
| 11,400.0                | 90.00           | 89.67       | 10,515.0              | 2,627.8      | 559.1        | 574.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.0                | 90.00           | 89.67       | 10,515.0              | 2,628.4      | 659.1        | 674.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.0                | 90.00           | 89.67       | 10,515.0              | 2,629.0      | 759.1        | 774.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.0                | 90.00           | 89.67       | 10,515.0              | 2,629.5      | 859.1        | 874.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.0                | 90.00           | 89.67       | 10,515.0              | 2,630.1      | 959.1        | 974.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.0                | 90.00           | 89.67       | 10,515.0              | 2,630.7      | 1,059.1      | 1,074.3                 | 0.00                    | 0.00                   | 0.00                  |  |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 12,000.0              | 90.00           | 89.67       | 10,515.0              | 2,631.3      | 1,159.1      | 1,174.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.0              | 90.00           | 89.67       | 10,515.0              | 2,631.9      | 1,259.1      | 1,274.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.0              | 90.00           | 89.67       | 10,515.0              | 2,632.4      | 1,359.1      | 1,374.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.0              | 90.00           | 89.67       | 10,515.0              | 2,633.0      | 1,459.1      | 1,474.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.0              | 90.00           | 89.67       | 10,515.0              | 2,633.6      | 1,559.1      | 1,574.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.0              | 90.00           | 89.67       | 10,515.0              | 2,634.2      | 1,659.1      | 1,674.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.0              | 90.00           | 89.67       | 10,515.0              | 2,634.8      | 1,759.1      | 1,774.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.0              | 90.00           | 89.67       | 10,515.0              | 2,635.3      | 1,859.1      | 1,874.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.0              | 90.00           | 89.67       | 10,515.0              | 2,635.9      | 1,959.1      | 1,974.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.0              | 90.00           | 89.67       | 10,515.0              | 2,636.5      | 2,059.1      | 2,074.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.0              | 90.00           | 89.67       | 10,515.0              | 2,637.1      | 2,159.1      | 2,174.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.0              | 90.00           | 89.67       | 10,515.0              | 2,637.6      | 2,259.1      | 2,274.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.0              | 90.00           | 89.67       | 10,515.0              | 2,638.2      | 2,359.1      | 2,374.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.0              | 90.00           | 89.67       | 10,515.0              | 2,638.8      | 2,459.1      | 2,474.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.0              | 90.00           | 89.67       | 10,515.0              | 2,639.4      | 2,559.1      | 2,574.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.0              | 90.00           | 89.67       | 10,515.0              | 2,640.0      | 2,659.1      | 2,674.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.0              | 90.00           | 89.67       | 10,515.0              | 2,640.5      | 2,759.1      | 2,774.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.0              | 90.00           | 89.67       | 10,515.0              | 2,641.1      | 2,859.1      | 2,874.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.0              | 90.00           | 89.67       | 10,515.0              | 2,641.7      | 2,959.1      | 2,974.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.0              | 90.00           | 89.67       | 10,515.0              | 2,642.3      | 3,059.1      | 3,074.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0              | 90.00           | 89.67       | 10,515.0              | 2,642.9      | 3,159.1      | 3,174.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0              | 90.00           | 89.67       | 10,515.0              | 2,643.4      | 3,259.1      | 3,274.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.0              | 90.00           | 89.67       | 10,515.0              | 2,644.0      | 3,359.1      | 3,374.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.0              | 90.00           | 89.67       | 10,515.0              | 2,644.6      | 3,459.1      | 3,474.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.0              | 90.00           | 89.67       | 10,515.0              | 2,645.2      | 3,559.1      | 3,574.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.0              | 90.00           | 89.67       | 10,515.0              | 2,645.8      | 3,659.1      | 3,674.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.0              | 90.00           | 89.67       | 10,515.0              | 2,646.3      | 3,759.1      | 3,774.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.0              | 90.00           | 89.67       | 10,515.0              | 2,646.9      | 3,859.1      | 3,874.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.0              | 90.00           | 89.67       | 10,515.0              | 2,647.5      | 3,959.1      | 3,974.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.0              | 90.00           | 89.67       | 10,515.0              | 2,648.1      | 4,059.1      | 4,074.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.0              | 90.00           | 89.67       | 10,515.0              | 2,648.7      | 4,159.1      | 4,174.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.0              | 90.00           | 89.67       | 10,515.0              | 2,649.2      | 4,259.1      | 4,274.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0              | 90.00           | 89.67       | 10,515.0              | 2,649.8      | 4,359.1      | 4,374.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0              | 90.00           | 89.67       | 10,515.0              | 2,650.4      | 4,459.1      | 4,474.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0              | 90.00           | 89.67       | 10,515.0              | 2,651.0      | 4,559.1      | 4,574.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,500.0              | 90.00           | 89.67       | 10,515.0              | 2,651.6      | 4,659.1      | 4,674.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,600.0              | 90.00           | 89.67       | 10,515.0              | 2,652.1      | 4,759.1      | 4,774.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,700.0              | 90.00           | 89.67       | 10,515.0              | 2,652.7      | 4,859.1      | 4,874.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0              | 90.00           | 89.67       | 10,515.0              | 2,653.3      | 4,959.1      | 4,974.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,900.0              | 90.00           | 89.67       | 10,515.0              | 2,653.9      | 5,059.1      | 5,074.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,000.0              | 90.00           | 89.67       | 10,515.0              | 2,654.4      | 5,159.1      | 5,174.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,084.6              | 90.00           | 89.67       | 10,515.0              | 2,654.9      | 5,243.6      | 5,258.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 16084.6         |                 |             |                       |              |              |                         |                         |                        |                       |  |



## SB Directional Services

## Planning Report



|                  |                               |                                     |                                    |
|------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.16 Single User Db    | <b>Local Co-ordinate Reference:</b> | Well Rana Salada Fed Com 0106 236H |
| <b>Company:</b>  | NOVO Oil & Gas                | <b>TVD Reference:</b>               | RKB 25' + GL @ 3091.3usft          |
| <b>Project:</b>  | EDDY CO., NM (NAD83)          | <b>MD Reference:</b>                | RKB 25' + GL @ 3091.3usft          |
| <b>Site:</b>     | SEC 02-T23S-R28E              | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | Rana Salada Fed Com 0106 236H | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                   |                                     |                                    |
| <b>Design:</b>   | Plan 1                        |                                     |                                    |

| Design Targets                                                |                  |                 |               |                 |                 |                    |                   |                  |                  |
|---------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|------------------|
| Target Name<br>- hit/miss target<br>- Shape                   | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude        |
| FTP Rana Salada 236H<br>- plan hits target center<br>- Point  | 0.00             | 0.00            | 10,515.0      | 2,626.7         | 362.6           | 487,941.46         | 629,404.18        | 32° 20' 27.961 N | 104° 2' 53.434 W |
| PBHL Rana Salada 236I<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 10,515.0      | 2,654.9         | 5,243.6         | 487,969.74         | 634,285.23        | 32° 20' 28.108 N | 104° 1' 56.537 W |

| Plan Annotations            |                             |                   |         |                  |
|-----------------------------|-----------------------------|-------------------|---------|------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |         | Comment          |
| +N/-S<br>(usft)             | +E/-W<br>(usft)             |                   |         |                  |
| 700.0                       | 700.0                       | 0.0               | 0.0     | Begin Nudge      |
| 1,600.1                     | 1,585.3                     | 140.0             | -8.5    | EOB 18° Inc      |
| 8,155.3                     | 7,819.7                     | 2,162.0           | -131.5  | EOH 18° Inc      |
| 9,055.3                     | 8,705.0                     | 2,302.0           | -140.0  | Vertical Point   |
| 10,030.3                    | 9,680.0                     | 2,302.0           | -140.0  | KOP 12° DLS/100' |
| 10,231.2                    | 9,875.0                     | 2,342.9           | -132.2  | EOB 24.10° Inc   |
| 10,491.1                    | 10,112.2                    | 2,447.1           | -112.4  | EOH 24.10° Inc   |
| 11,203.4                    | 10,515.0                    | 2,626.7           | 362.5   | Landing Point    |
| 16,084.6                    | 10,515.0                    | 2,654.9           | 5,243.6 | TD at 16084.6    |



**District I**  
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**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**

COMMENTS  
  
Action 32871

COMMENTS

|                                                                                                          |                                                      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>NOVO OIL & GAS NORTHERN DELAWARE, LLC<br>1001 West Wilshire Blvd<br>Oklahoma City, OK 73116 | OGRID:<br>372920                                     |
|                                                                                                          | Action Number:<br>32871                              |
|                                                                                                          | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment                 | Comment Date |
|------------|-------------------------|--------------|
| kpickford  | KP GEO Review 6/22/2021 | 6/22/2021    |

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CONDITIONS  
  
Action 32871

CONDITIONS

|                                                                                                          |                                                      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>NOVO OIL & GAS NORTHERN DELAWARE, LLC<br>1001 West Wilshire Blvd<br>Oklahoma City, OK 73116 | OGRID:<br>372920                                     |
|                                                                                                          | Action Number:<br>32871                              |
|                                                                                                          | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition                                       | Condition Date |
|------------|-------------------------------------------------|----------------|
| kpickford  | Adhere to previous NMOCD Conditions of Approval | 6/22/2021      |