

State of New Mexico  
Energy, Minerals and Natural Resources Department

**Michelle Lujan Grisham**  
Governor

**Sarah Cottrell Propst**  
Cabinet Secretary

**Todd E. Leahy, JD, PhD**  
Deputy Secretary

**Adrienne Sandoval**, Division Director  
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

**Operator Signature Date:** 3/27/2020

**Operator:** DJR **Well Name and Number:** Nageezi Unit 310H

**API#:** 30-045-38208 , **Section:** 35, **Township:** 24N, **Range:** 9 W

Conditions of Approval: (See the below checked and handwritten conditions)

☒ Notify appropriate OCD district office 24hrs prior to spud, casing & cement.

☒ If cement does not circulate on any casing string or stage tool a CBL will be required. Contact the regulatory agencies prior to proceeding.

☒ Hold C-104 for directional survey & "As Drilled" Plat

☐ Hold C-104 for: ☐ NSL, ☐ NSP, ☐ DHC, ☐ 5.9 Compliance

☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned

☒ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:

- A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
- A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
- A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C

☒ Any change of plans must adhere to 19.15.7.14(A)(1). Field operation changes requiring immediate approval must be approved by the District Office prior to implementation.

☒ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the freshwater zone or zones and shall immediately set in cement the water protection string

☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84

☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

NMOCD Approved by Signature

11/23/2020  
Date

Form 3160-3  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018NMOCD REC'D  
11/17/20UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

|                                                                                                                                                                                                                                                                                            |                                                             |                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                                                                                               |                                                             | 5. Lease Serial No.<br>NMNM012374                                                               |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                                                                                                                                                            |                                                             | 6. If Indian, Allottee or Tribe Name                                                            |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone                                                                                                                               |                                                             | 7. If Unit or CA Agreement, Name and No.<br>NMNM 132981A                                        |
| 2. Name of Operator<br>DJR OPERATING LLC                                                                                                                                                                                                                                                   |                                                             | 8. Lease Name and Well No.<br>NAGEEZI UNIT                                                      |
| 3a. Address<br>1700 LINCOLN STREET, SUITE 2800, DENVER, CO 802                                                                                                                                                                                                                             |                                                             | 9. API Well No.<br>310H                                                                         |
| 3b. Phone No. (include area code)<br>(505) 632-3476                                                                                                                                                                                                                                        |                                                             | 10. Field and Pool, or Exploratory<br>BASIN MANCOS                                              |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface SWNE / 2348 FNL / 2308 FEL / LAT 36.271375 / LONG -107.757898<br>At proposed prod. zone NWNW / 1215 FNL / 1144 FWL / LAT 36.289021 / LONG -107.781786                         |                                                             | 11. Sec., T, R, M. or Blk. and Survey or Area<br>SEC 35/T24N/R9W/NMP                            |
| 14. Distance in miles and direction from nearest town or post office*<br>37 miles                                                                                                                                                                                                          |                                                             | 12. County or Parish<br>SAN JUAN                                                                |
| 15. Distance from proposed* location to nearest property or lease line, ft.<br>(Also to nearest drig. unit line, if any)<br>2308 feet                                                                                                                                                      |                                                             | 13. State<br>NM                                                                                 |
| 16. No of acres in lease<br>2240                                                                                                                                                                                                                                                           |                                                             | 17. Spacing Unit dedicated to this well<br>720.0                                                |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.<br>20 feet                                                                                                                                                                      |                                                             | 20. BLM/BIA Bond No. in file<br>FED: NMB001464                                                  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>6899 feet                                                                                                                                                                                                                           |                                                             | 22. Approximate date work will start*<br>08/15/2020                                             |
|                                                                                                                                                                                                                                                                                            |                                                             | 23. Estimated duration<br>10 days                                                               |
| 24. Attachments                                                                                                                                                                                                                                                                            |                                                             |                                                                                                 |
| The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)                                                                                                                     |                                                             |                                                                                                 |
| 1. Well plat certified by a registered surveyor.                                                                                                                                                                                                                                           |                                                             | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.                                                                                                                                                                                                                                                                        |                                                             | 5. Operator certification.                                                                      |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).                                                                                                                                             |                                                             | 6. Such other site specific information and/or plans as may be requested by the BLM.            |
| 25. Signature<br>(Electronic Submission)                                                                                                                                                                                                                                                   | Name (Printed/Typed)<br>SHAW N / Ph: (505) 632-3476         | Date<br>04/15/2020                                                                              |
| Title<br>Regulatory Specialist                                                                                                                                                                                                                                                             |                                                             |                                                                                                 |
| Approved by (Signature)<br>(Electronic Submission)                                                                                                                                                                                                                                         | Name (Printed/Typed)<br>RICHARD FIELDS / Ph: (505) 564-7612 | Date<br>11/13/2020                                                                              |
| Title<br>Field Manager                                                                                                                                                                                                                                                                     |                                                             |                                                                                                 |
| Office<br>Farmington Field Office                                                                                                                                                                                                                                                          |                                                             |                                                                                                 |
| Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.                                                                                   |                                                             |                                                                                                 |
| Conditions of approval, if any, are attached.                                                                                                                                                                                                                                              |                                                             |                                                                                                 |
| 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. |                                                             |                                                                                                 |

(Continued on page 2)

\*(Instructions on page 2)



AV



**DISTRICT I**1625 N. French Dr., Hobbs, N.M. 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720**DISTRICT II**811 S. First St., Artesia, N.M. 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720**DISTRICT III**1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6176 Fax: (505) 334-6170**DISTRICT IV**1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-8460 Fax: (505) 476-3462State of New Mexico  
Energy, Minerals & Natural Resources DepartmentForm C-102  
Revised August 1, 2011Submit one copy to appropriate  
District OfficeOIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                         |                                        |                                                               |
|------------------------------------------------|---------------------------------------------------------|----------------------------------------|---------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-045-38208</b> |                                                         | <sup>2</sup> Pool Code<br><b>98080</b> | <sup>3</sup> Pool Name<br><b>NAGEEZI UNIT MANCOS OIL POOL</b> |
| <sup>4</sup> Property Code<br><b>325268</b>    | <sup>5</sup> Property Name<br><b>NAGEEZI UNIT</b>       |                                        | <sup>6</sup> Well Number<br><b>310H</b>                       |
| <sup>7</sup> GRID No.<br><b>371838</b>         | <sup>8</sup> Operator Name<br><b>DJR OPERATING, LLC</b> |                                        | <sup>9</sup> Elevation<br><b>6899'</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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| G             | 35      | 24N      | 9W    |         | 2348'         | NORTH            | 2308'         | EAST           | SAN JUAN |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| D             | 27      | 24N      | 9W    |         | 1215'         | NORTH            | 1144'         | WEST           | SAN JUAN |

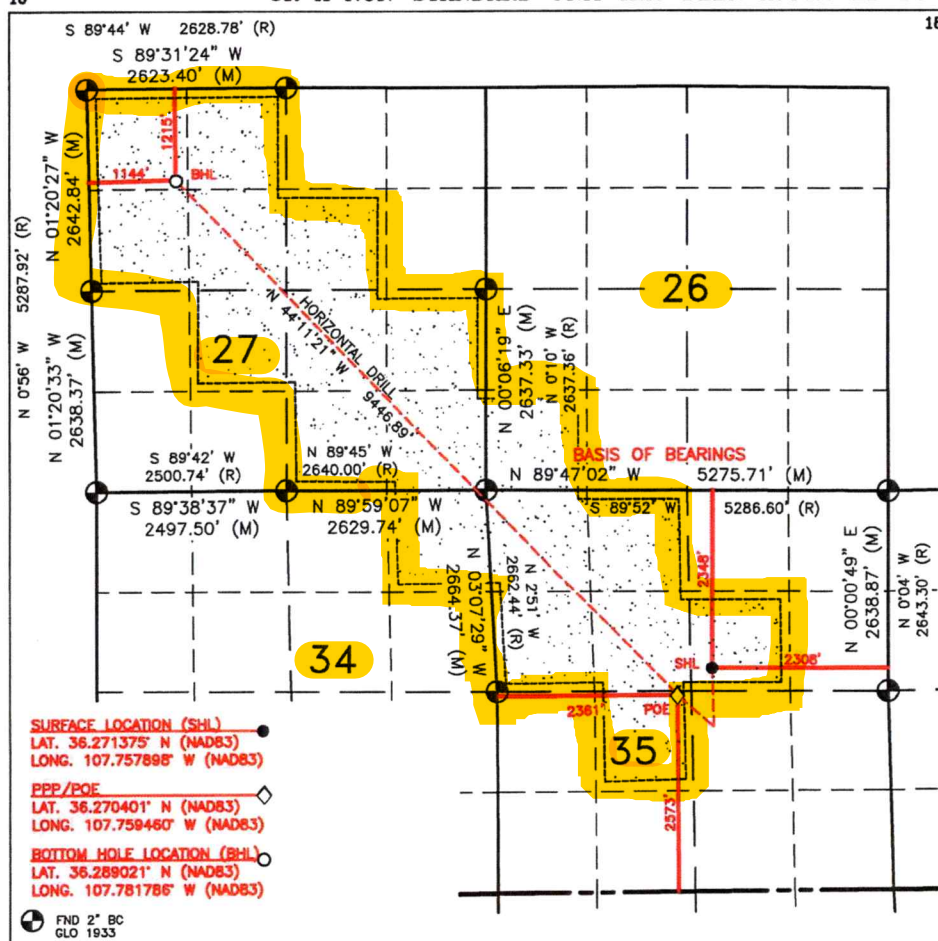
<sup>12</sup> Dedicated Acres  
SEC 35: SW/NE, NE/SW & NW/4 (240 AC.); SEC 34: NE/NE (40 AC.); SEC 26: SW/SW (40 AC.); SEC 27: SE/4, SW/NE, NE/SW & NW/4 (400 AC.)  
= 720 ACRES

<sup>13</sup> Joint or Infill<sup>14</sup> Consolidation Code<sup>15</sup> Order No.

R-13856 R-13856A

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

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## 17 OPERATOR CERTIFICATION

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

Shaw-Marie Ford 6/12/20  
Signature Date

Shaw-Marie Ford  
Printed Name

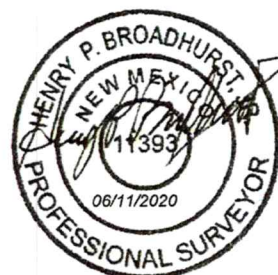
sford@dirllc.com  
E-mail Address

## SURVEYOR CERTIFICATION

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

OCTOBER 7, 2019

Date of Survey  
Signature and Seal of Professional Surveyor:



Certificate Number 11393

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**DISTRICT IV**

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**

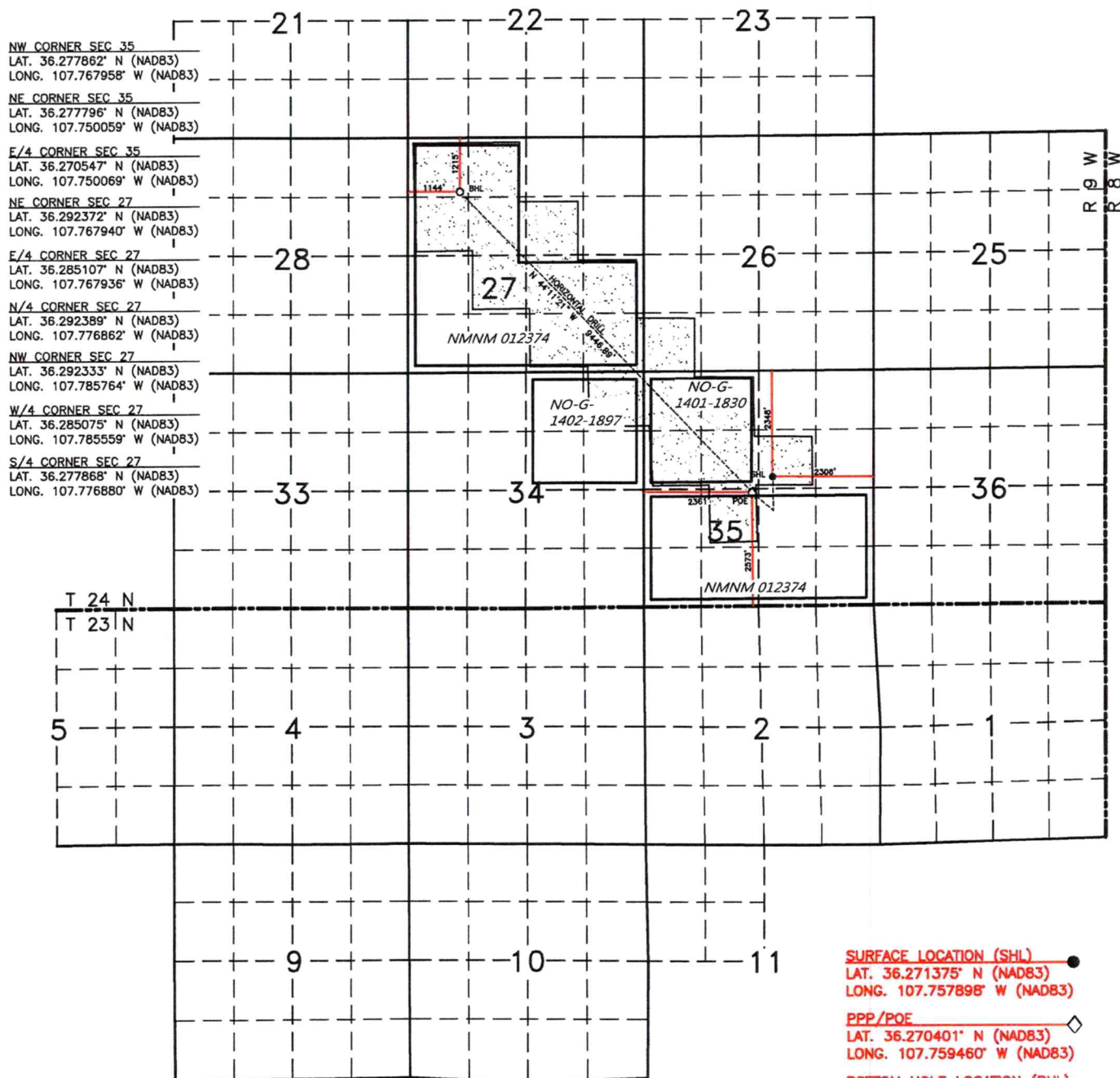
1220 South St. Francis Dr.  
Santa Fe, NM 87505

DJR OPERATING, LLC  
NAGEEZI UNIT #310H

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT



**PENETRATED SPACING UNIT:**  
SEC 35: SW/NE, NE/SW & NW/4 (240 AC.); SEC 34: NE/NE (40 AC.); SEC 26: SW/SW (40 AC.); SEC 27: SE/4, SW/NE, NE/SW & NW/4 (400 AC.) = 720 ACRES  
TOTAL 10,415.12 ACRES: T24N R9W, SEC. 21-23 (S/2), 25-28, 33-36, 1-4, 9-10 (ALL); T23N R9W, SEC. 5 (W/2), 11 (NW/4) - UNDIVIDED UNIT



**DISTRICT I**  
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**NAGEEZI UNIT #310H**

76.08 LINEAR FEET OF WELLBORE WITHIN  
NMNM 012374  
LOCATED IN THE NE/SW OF SECTION 35,  
T24N, R9W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

| WELLBORE | NS-FOOT | NS INDICATOR | EW-FOOT | EW INDICATOR | LATITUDE     | LONGITUDE     |
|----------|---------|--------------|---------|--------------|--------------|---------------|
| FROM     | 2573    | FSL          | 236     | FWL          | 36.270401° N | 107.759460° W |
| TO       | 2650    | FNL          | 2309    | FWL          | 36.270551° N | 107.759640° W |

3509.20 LINEAR FEET OF WELLBORE WITHIN  
NO-G-1401-1830  
LOCATED IN THE NW/NW, SW/NW & SE/NW  
OF SECTION 35, T24N, R9W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

| WELLBORE | NS-FOOT | NS INDICATOR | EW-FOOT | EW INDICATOR | LATITUDE     | LONGITUDE     |
|----------|---------|--------------|---------|--------------|--------------|---------------|
| FROM     | 2650    | FNL          | 2309    | FWL          | 36.270551° N | 107.759640° W |
| TO       | 144     | FNL          | 0       | FWL          | 36.277468° N | 107.767932° W |

200.08 LINEAR FEET OF WELLBORE WITHIN  
NO-G-1402-1897  
LOCATED IN THE NE/NE OF SECTION 34,  
T24N, R9W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

| WELLBORE | NS-FOOT | NS INDICATOR | EW-FOOT | EW INDICATOR | LATITUDE     | LONGITUDE     |
|----------|---------|--------------|---------|--------------|--------------|---------------|
| FROM     | 144     | FNL          | 0       | FEL          | 36.277468° N | 107.767932° W |
| TO       | 0       | FNL          | 132     | FEL          | 36.277862° N | 107.768405° W |

5661.53 LINEAR FEET OF WELLBORE WITHIN  
NMNM 012374  
LOCATED IN THE SE/SE, SW/SE, NW/SE, NE/SW,  
SE/NW, SW/NW & NW/NW OF SECTION 27,  
T24N, R9W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

| WELLBORE | NS-FOOT | NS INDICATOR | EW-FOOT | EW INDICATOR | LATITUDE     | LONGITUDE     |
|----------|---------|--------------|---------|--------------|--------------|---------------|
| FROM     | 0       | FSL          | 132     | FEL          | 36.277862° N | 107.768405° W |
| TO       | 1215    | FNL          | 1144    | FWL          | 36.289021° N | 107.781786° W |

Rev 0



## DRILLING PLAN Nageezi Unit 310H San Juan County, New Mexico

**Surface Location**

2308-ft FEL & 2348-ft FNL  
Sec 35 T24N R09W  
Graded Elevation 6899' MSL  
RKB Elevation 6913' (14' KB)

**SHL Geographical Coordinates (NAD-83)**

Latitude 36.2713750° N  
Longitude 107.7578980° W

**Kick Off Point for Horizontal Build Curve**

4637-ft MD  
4563-ft TVD

**Local Coordinates (from SHL)**

766-ft South  
17-ft East

**Heel Location (Pay zone entry)**

2361-ft FWL & 2573-ft FSL  
Sec 35 T24N R09W

**Heel Geographical Coordinates (NAD-83)**

Latitude 36.2704008° N  
Longitude 107.75945990° W

**Bottom Hole Location (TD)**

1144-ft FWL & 1215-ft FWL  
Sec 27 T24N R09W

**BHL Geographical Coordinates (NAD-83)**

Latitude 36.2890206° N  
Longitude 107.7817860° W

**Well objectives**

This well is planned as a 9450-ft lateral in the Gallup C R3 sand.

**Bottom Hole temperature and pressure**

The temperature in the Gallup C R3 horizontal objective is 142°F. Bottom hole pressure in the Gallup C R3 is forecast to be 1985 psi.

**Formation Tops** (Sd = Sand; Sh = Shale; Siltstone = Slt, Coal = C; W = water; O = oil; G = gas; NP = no penetration)

| Name            | MD (ft) | TVD (ft) | Lithology | Pore fluid | Expected Pore Pressure (ppg) | Planned Mud Weight (ppg) |
|-----------------|---------|----------|-----------|------------|------------------------------|--------------------------|
| Ojo Alamo       | 826     | 824      | Sd        | W          | 8.3                          | 8.4 – 8.8                |
| Kirtland        | 911     | 908      | Sh        | -          | 8.3                          | 8.4 – 8.8                |
| Fruitland       | 1229    | 1220     | C         | G          | 8.3                          | 9.0 - 9.5                |
| Pictured Cliffs | 1577    | 1562     | Sd        | W          | 8.3                          | 9.0 - 9.5                |
| Lewis           | 1674    | 1657     | Sh        | -          |                              | 9.0 - 9.5                |
| Chacra          | 2376    | 2346     | Sd        | -          | 8.3                          | 9.0 - 9.5                |
| Menefee         | 3102    | 3058     | Sd, C     | G          | 8.3                          | 9.0 - 9.5                |
| Point Lookout   | 4095    | 4032     | Sd        | -          | 8.3                          | 9.0 - 9.5                |
| Mancos          | 4266    | 4200     | Sh        | -          |                              | 9.0 - 9.5                |
| Mancos Silt     | 4596    | 4524     | Slt       | O/G        | 6.6                          | 9.0 - 9.5                |
| Gallup A        | 5125    | 5022     | Slt       | O/G        | 6.6                          | 9.0 - 9.5                |
| Gallup B        | 5179    | 5064     | Sd        | O/G        | 6.6                          | 8.8 - 9.0                |
| Gallup C        | 5362    | 5183     | Sd        | O/G        | 6.6                          | 8.8 - 9.0                |
| Target          | 5722    | 5284     | Sd        | O/G        | 6.6                          | 8.8 - 9.0                |

**Casing Program**

| Casing OD | Hole Size | Weight (#/ft) | Grade | Coupling | MD Top | MD Bottom | TVD Top | TVD Bottom | Top of Cement |
|-----------|-----------|---------------|-------|----------|--------|-----------|---------|------------|---------------|
| 9-5/8"    | 12-1/4"   | 36            | K-55  | STC      | surf   | 350       | surf    | 350        | surface       |
| 7"        | 8-3/4"    | 26            | K-55  | LTC      | surf   | 5671      | surf    | 5282       | surface       |
| 4-1/2"    | 6-1/8"    | 11.6          | P-110 | BTC      | 5391   | 15169     | 5198    | 5361       | 5391          |

Note: all casing will be new



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## Casing Design Load Cases

|          |                                              | Casing String     |                    |                               |
|----------|----------------------------------------------|-------------------|--------------------|-------------------------------|
|          | Description                                  | 9-5/8"<br>Surface | 7"<br>Intermediate | 4-1/2"<br>Production<br>Liner |
| Collapse | Full internal evacuation <sup>1</sup>        | ✓                 | ✓                  | ✓                             |
|          | Cementing                                    | ✓                 | ✓                  | ✓                             |
| Burst    | Pressure test                                | ✓ <sup>2</sup>    | ✓ <sup>2</sup>     | ✓                             |
|          | Gas kick                                     |                   | ✓ <sup>3</sup>     |                               |
|          | Fracture at shoe, 1/3 BHP at surface         |                   | ✓ <sup>4</sup>     |                               |
|          | Injection down casing                        |                   |                    | ✓ <sup>5</sup>                |
| Axial    | Dynamic load on casing coupling <sup>6</sup> | ✓                 | ✓                  | ✓                             |
| Axial    | Overpull <sup>7</sup>                        | ✓                 | ✓                  | ✓                             |

## Note #

- 1 Fluid level at shoe, air column to surface, pore pressure outside
- 2 Tested to 80% of minimum internal yield with freshwater inside, pore pressure outside
- 3 50 bbl kick at TD, 0.50 ppg intensity, 4" drill pipe, 9.0 ppg mud, fracture gradient at shoe
- 4 2060 psi BHP, 687 psi surface pressure, 12.5 ppg EMW shoe integrity
- 5 Surface stimulation pressure of 8000 psi on 8.3 ppg fluid column. Stimulation will be down frac string, so load does not apply to 7" intermediate casing.
- 6 Shock load from abrupt pipe deceleration, evaluated against coupling rating
- 7 Overpull values as follows: Surface casing 20,000 lbs, Intermediate & Production 100,000 lbs

## Casing Design Factors

|                  |           | Design Factors |          |       |          |
|------------------|-----------|----------------|----------|-------|----------|
| Casing string    | Casing OD | Burst          | Collapse | Axial | Triaxial |
| Surface          | 9-5/8"    | 1.25           | 13.38    | 8.16  | 1.56     |
| Intermediate     | 7"        | 1.25           | 1.50     | 1.68  | 1.34     |
| Production liner | 4-1/2"    | 1.37           | 3.68     | 1.88  | 1.69     |

## Cement Design

9-5/8" Surface Casing

|                    | <u>Lead</u> |
|--------------------|-------------|
| Name               | Redi-Mix    |
| Type               | I-II        |
| Planned top        | Surface     |
| Density (ppg)      | 14.50       |
| Yield (cf/sx)      | 1.61        |
| Mix water (gal/sx) | 7.41        |
| Volume (sx)        | 114         |
| Volume (bbls)      | 33          |
| Volume (cu. ft.)   | 185         |
| Excess %           | 50          |

7" Intermediate Casing

|                    | <u>Lead</u> | <u>Tail</u> |
|--------------------|-------------|-------------|
|                    | BJ Services | BJ Services |
| Type               | III         | Poz/G       |
| Planned top        | Surface     | 4137-ft     |
| Density (ppg)      | 12.30       | 13.50       |
| Yield (cf/sx)      | 2.34        | 1.50        |
| Mix water (gal/sx) | 13.26       | 7.20        |
| Volume (sx)        | 414         | 253         |
| Volume (bbls)      | 173         | 67          |
| Volume (cu.ft.)    | 969         | 378         |
| Excess %           | 50          | 50          |

Rev 0

4-1/2" Production Liner

|                    |             |
|--------------------|-------------|
|                    | BJ Services |
| Type               | Poz/G       |
| Planned top        | 5391-ft     |
| Density (ppg)      | 13.3        |
| Yield (cf/sx)      | 1.56        |
| Mix water (gal/sx) | 7.71        |
| Volume (sx)        | 822         |
| Volume (bbls)      | 229         |
| Volume (cu.ft)     | 1285        |
| Excess %           | 40          |

**Wellhead & Pressure Control**

The well head will be an 11" 5M multi-bowl system. A 3M BOPE conforming to Onshore Order #2 will be installed on the surface casing. The BOP and accumulator will meet API 16D and 16E respectively.

A PVT mud monitoring system and a trip tank will be rigged up and operational for all hole intervals. An electronic geolograph will be employed to monitor and record drilling data (ROP, WOB, SPM, Pressure, RPM and torque).

**Mud Program**

Surface hole will be drilled with a fresh water, native mud system. In intermediate hole, a low weight 7% KCl LSND drilling fluid will be used, with KCl providing chemical stability for the young shales and clays present in the interval. In production hole a LSND system with polymer and lubricant additives is programmed. Sufficient drill water and mud additives will be on hand to maintain adequate pit volumes and maintain well control.

| Hole Section | Fluid type                       | Interval (MD) | Density (ppg) | Funnel Viscosity | Yield Point | Fluid Loss (cc/30 min) |
|--------------|----------------------------------|---------------|---------------|------------------|-------------|------------------------|
| Surface      | Fresh water spud mud             | 0 – 350       | 8.4 – 8.8     | 32 – 44          | 2 – 12      | NC                     |
| Intermediate | 7% KCl Low solids, non-dispersed | 350 – 5671    | 9.0 – 9.5     | 38 – 45          | 8 – 14      | <20                    |
| Production   | Low solids, non-dispersed        | 5671 – 15169  | 8.8 – 9.2     | 34 – 38          | 6 – 8       | 6 – 8                  |

**Cores, tests and logs**

Wellbore surveying: Drift (inclination only) surveys will be obtained in surface hole. MWD directional surveys will be taken in intermediate and production hole.

Logging while drilling: None in surface hole. MWD GR in intermediate and production hole.

Mud logging: a two-person mud logging unit with C1 – C4 gas analysis will be operational in intermediate and production hole.

Electric logging: No open hole electric logs are programmed. A cased hole GR/CCL will be run during completions for perforating depth control.

**Cuttings and drilling fluids management**

- ✓ A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports with a bucket loader. Drying agents will be used if necessary. The solids will be taken to a licensed commercial disposal facility. Whole mud will be dewatered back to drill water and used as make up for subsequent wells or hauled off for disposal. A diagram of the closed loop system is included.

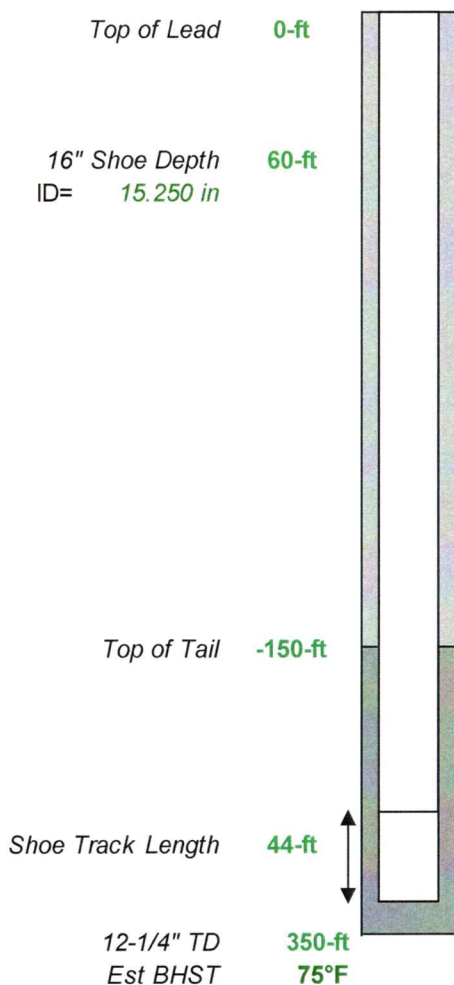
**Completion**

It is envisioned that this well will be completed with a multi-stage sand frac, using the plug and perf technique. After drilling out the plugs, the current plan is to install a 2-7/8" plunger-assisted gas lift tubing string. The stimulation and completion plan will be sundried at a later date.

Rev 0



## 9-5/8" Surface Casing &amp; Cementing



Assumed Hole Size 12.2500 in  
Casing OD 9.6250 in  
Casing ID 8.9210 in

% Excess Lead 50%  
% Excess Tail

Capacity CH Ann 0.1359 bbl/ft  
Capacity OH Ann 0.0558 bbl/ft  
Capacity Pipe 0.0773 bbl/ft

## 9-5/8" 36# K-55 ST&amp;C

Pipe OD 9.625 in  
Coupling OD 10.625 in  
ID 8.921 in  
Drift 8.765 in  
Burst 3520 psi  
Collapse 2020 psi  
Tensile (body) 564 kips  
Tensile (joint) 423 kips  
Min Torque 1830 ft-lbs  
Opt Torque 2440 ft-lbs  
Max Torque 3050 ft-lbs

## Lead Slurry

## Properties

Redi Mix Type I/ii Density 14.50 ppg  
20% Fly Ash Yield 1.61 cf/sk  
Total Mix Fluid 7.41 gal/sk  
Est pump time (70Bc) NA  
8-hr compressive 475 psi  
24-hr compressive 1375 psi

## Tail Slurry

## Properties

None Density ppg  
Yield cf/sk  
Total Mix Fluid gal/sk  
Est pump time (70Bc)  
50 psi strength in  
24/72 hr strength psi

## Volumes

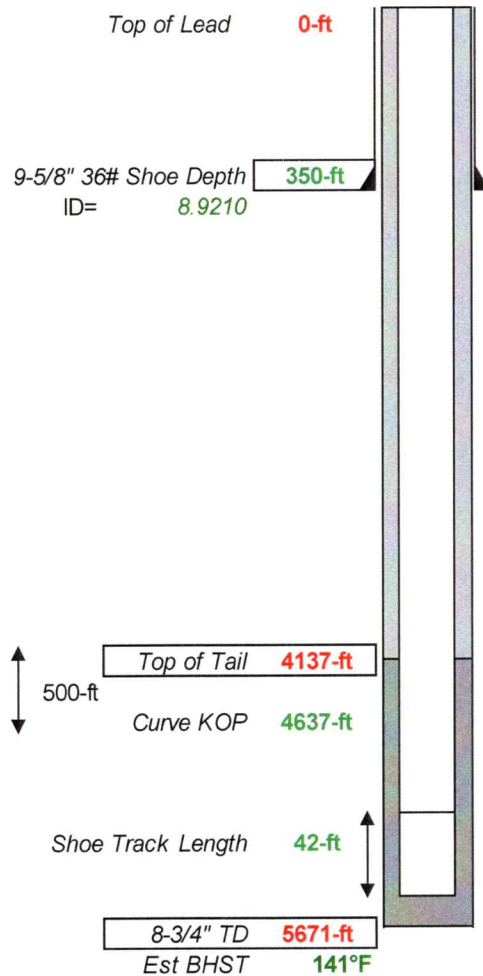
Lead Volume 33 bbls 114 sx  
Tail Volume bbls sx  
Displacement 24 bbls  
Total Volume 56 bbls



Rev 0



### 7" Intermediate Casing & Cementing Nageezi Unit 310H



|                        |           |
|------------------------|-----------|
| Assumed Hole Size Lead | 8.7500 in |
| Assumed Hole Size Tail | 8.7500 in |
| Casing OD              | 7.0000 in |
| Casing ID              | 6.2760 in |

|                  |     |
|------------------|-----|
| % OH Excess Lead | 60% |
| % OH Excess Tail | 60% |

|                      |               |
|----------------------|---------------|
| Capacity CH Ann      | 0.0297 bbl/ft |
| Capacity OH Ann Lead | 0.0268 bbl/ft |
| Capacity OH Ann Tail | 0.0268 bbl/ft |
| Capacity Pipe        | 0.0383 bbl/ft |

#### 7" 26# K-55 LT&C

|                 |             |
|-----------------|-------------|
| Pipe OD         | 7.000 in    |
| Weight          | 26 lbs/ft   |
| Grade           | K-55        |
| Coupling        | LTC         |
| Coupling OD     | 7.656 in    |
| ID              | 6.276 in    |
| Drift           | 6.151 in    |
| Burst           | 4980 psi    |
| Collapse        | 4320 psi    |
| Tensile (body)  | 415 kips    |
| Tensile (joint) | 401 kips    |
| Min Torque      | 3008 ft-lbs |
| Opt Torque      | 4010 ft-lbs |
| Max Torque      | 5013 ft-lbs |

#### BJ Lead Slurry

|          |          |
|----------|----------|
| Type III |          |
| BA-90    | 5 lb/sx% |
| KCI      | 3.00%    |
| GW-86    | 0.10%    |
| FL-66    | 0.20%    |
| R-3      | 0.50%    |
| FP-25    | 0.30%    |

#### Properties

|                       |              |
|-----------------------|--------------|
| Density               | 12.30 ppg    |
| Yield                 | 2.3404 cf/sk |
| Total Mix Fluid       | 13.26 gal/sk |
| Thickening Time       | 3:11 hr:min  |
| Time to 50 psi (80°F) | 5:10 hr:min  |
| 24-hr UCA (80°F)      | 659 psi      |

#### BJ Tail Slurry

|          |         |
|----------|---------|
| G+Pozz   | 50:50   |
| BA-90    | 3 lb/sx |
| FL-66    | 0.40%   |
| FP-25    | 0.30%   |
| Sod. Met | 0.50%   |
| Gyp      | 3.00%   |

#### Properties

|                         |              |
|-------------------------|--------------|
| Density                 | 13.50 ppg    |
| Yield                   | 1.4946 cf/sk |
| Total Mix Fluid         | 7.24 gal/sk  |
| Thickening Time         | 3:26 hr:min  |
| Time to 50 psi (135°F)  | 2:55 hr:min  |
| Time to 500 psi (135°F) | 6:40 hr:min  |

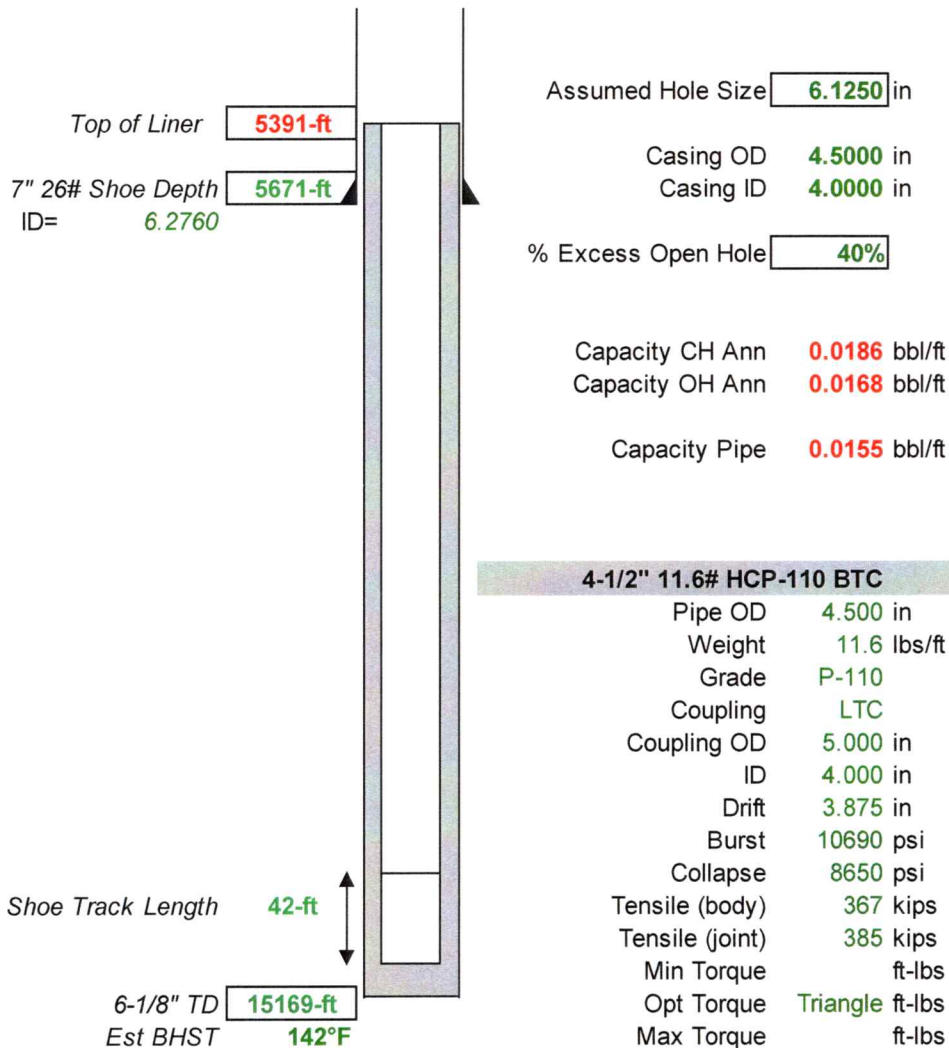
#### Volumes

|                     |          |        |
|---------------------|----------|--------|
| Lead Volume         | 173 bbls | 414 sx |
| Tail Volume         | 67 bbls  | 253 sx |
| Approx Displacement | 215 bbls |        |
| Total Volume        | 455 bbls |        |

Rev 0



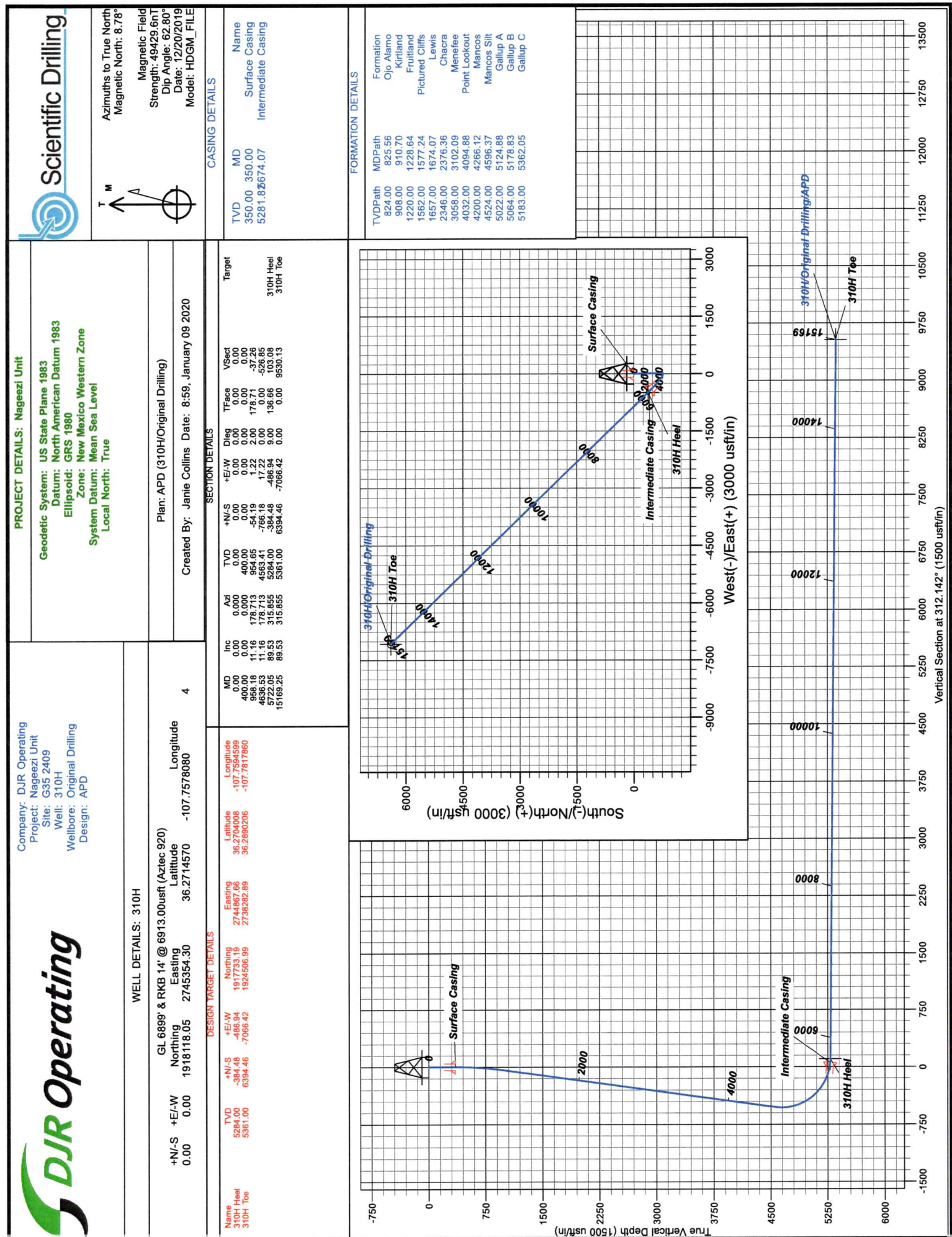
### 4-1/2" Liner Cementing Nageezi Unit 310H



| BJ Lead Slurry |                | Properties             |                     |
|----------------|----------------|------------------------|---------------------|
| G+Pozz         | <b>50:50</b>   | Density                | <b>13.30</b> ppg    |
| BA-90          | <b>3 lb/sx</b> | Yield                  | <b>1.5629</b> cf/sk |
| GW-86          | <b>0.10%</b>   | Total Mix Fluid        | <b>7.70</b> gal/sk  |
| R-3            | <b>0.40%</b>   | Thickening Time        | <b>6:04</b> hr:min  |
| FP-25          | <b>30.00%</b>  | Time to 50 psi (147°F) | <b>7:15</b> hr:min  |
| FL-24          | <b>0.40%</b>   | 24-hr UCA (147°F)      | <b>1293</b> psi     |
| Gel            | <b>4.00%</b>   |                        |                     |

#### Volumes

|                     |                 |               |
|---------------------|-----------------|---------------|
| Lead Volume         | <b>229</b> bbls | <b>822</b> sx |
| Approx Displacement | <b>164</b> bbls |               |
| Total Volume        | <b>393</b> bbls |               |







## DJR Operating

Nageezi Unit

G35 2409

310H - Slot 4

Original Drilling

Plan: APD

## Standard Planning Report

09 January, 2020



[www.scientificdrilling.com](http://www.scientificdrilling.com)



# Scientific Drilling, Intl Planning Report



|                  |                   |                                     |                                              |
|------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Database:</b> | Grand Junction    | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Company:</b>  | DJR Operating     | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Project:</b>  | Nageezi Unit      | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site:</b>     | G35 2409          | <b>North Reference:</b>             | True                                         |
| <b>Well:</b>     | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Wellbore:</b> | Original Drilling |                                     |                                              |
| <b>Design:</b>   | APD               |                                     |                                              |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Nageezi Unit              |                      |                |
| <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 Western Zone   |                      |                |

|                              |           |                          |                   |
|------------------------------|-----------|--------------------------|-------------------|
| <b>Site</b>                  | G35 2409  |                          |                   |
| <b>Site Position:</b>        |           | <b>Northing:</b>         | 1,918,072.88 usft |
| <b>From:</b>                 | Lat/Long  | <b>Easting:</b>          | 2,745,314.54 usft |
| <b>Position Uncertainty:</b> | 0.00 usft | <b>Slot Radius:</b>      | 13.20 in          |
|                              |           | <b>Latitude:</b>         | 36.2713330        |
|                              |           | <b>Longitude:</b>        | -107.7579430      |
|                              |           | <b>Grid Convergence:</b> | 0.04 °            |

|                             |               |                            |                                    |
|-----------------------------|---------------|----------------------------|------------------------------------|
| <b>Well</b>                 | 310H - Slot 4 |                            |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>  | 45.14 usft                 | <b>Northing:</b> 1,918,118.05 usft |
|                             | <b>+E/-W</b>  | 39.79 usft                 | <b>Easting:</b> 2,745,354.30 usft  |
| <b>Position Uncertainty</b> | 0.00 usft     | <b>Wellhead Elevation:</b> | 6,899.00 usft                      |
|                             |               | <b>Latitude:</b>           | 36.2714570                         |
|                             |               | <b>Longitude:</b>          | -107.7578080                       |
|                             |               | <b>Ground Level:</b>       | 6,899.00 usft                      |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | Original Drilling |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | HDGM_FILE         | 12/20/2019         | 8.78                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 62.80                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 49,429.60000000            |

|                          |                                |                     |                           |
|--------------------------|--------------------------------|---------------------|---------------------------|
| <b>Design</b>            | APD                            |                     |                           |
| <b>Audit Notes:</b>      |                                |                     |                           |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>       |
|                          | 0.00                           | 0.00                | 0.00                      |
|                          |                                |                     | <b>Direction (°)</b>      |
|                          |                                |                     | 312.142                   |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |           |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------|
| 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    |
| 0.00                  | 0.00            | 0.000       | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |           |
| 400.00                | 0.00            | 0.000       | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |           |
| 958.18                | 11.16           | 178.713     | 954.65                | -54.19       | 1.22         | 2.00                    | 2.00                   | 0.00                  | 178.71  |           |
| 4,636.53              | 11.16           | 178.713     | 4,563.41              | -766.18      | 17.22        | 0.00                    | 0.00                   | 0.00                  | 0.00    |           |
| 5,722.05              | 89.53           | 315.855     | 5,284.00              | -384.48      | -486.94      | 9.00                    | 7.22                   | 12.63                 | 136.66  | 310H Heel |
| 15,169.25             | 89.53           | 315.855     | 5,361.00              | 6,394.46     | -7,066.42    | 0.00                    | 0.00                   | 0.00                  | 0.00    | 310H Toe  |





Scientific Drilling, Intl  
Planning Report



|                  |                   |                                     |                                              |
|------------------|-------------------|-------------------------------------|----------------------------------------------|
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| <b>Company:</b>  | DJR Operating     | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Project:</b>  | Nageezi Unit      | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site:</b>     | G35 2409          | <b>North Reference:</b>             | True                                         |
| <b>Well:</b>     | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Wellbore:</b> | Original Drilling |                                     |                                              |
| <b>Design:</b>   | APD               |                                     |                                              |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.000       | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                | 0.00            | 0.000       | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                | 0.00            | 0.000       | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                | 0.00            | 0.000       | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                | 0.00            | 0.000       | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                | 2.00            | 178.713     | 499.98                | -1.74        | 0.04         | -1.20                   | 2.00                    | 2.00                   | 0.00                  |
| 600.00                | 4.00            | 178.713     | 599.84                | -6.98        | 0.16         | -4.80                   | 2.00                    | 2.00                   | 0.00                  |
| 700.00                | 6.00            | 178.713     | 699.45                | -15.69       | 0.35         | -10.79                  | 2.00                    | 2.00                   | 0.00                  |
| 800.00                | 8.00            | 178.713     | 798.70                | -27.87       | 0.63         | -19.17                  | 2.00                    | 2.00                   | 0.00                  |
| 900.00                | 10.00           | 178.713     | 897.46                | -43.51       | 0.98         | -29.92                  | 2.00                    | 2.00                   | 0.00                  |
| 958.18                | 11.16           | 178.713     | 954.65                | -54.19       | 1.22         | -37.26                  | 2.00                    | 2.00                   | 0.00                  |
| 1,000.00              | 11.16           | 178.713     | 995.68                | -62.29       | 1.40         | -42.83                  | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00              | 11.16           | 178.713     | 1,093.79              | -81.64       | 1.83         | -56.14                  | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00              | 11.16           | 178.713     | 1,191.90              | -101.00      | 2.27         | -69.45                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00              | 11.16           | 178.713     | 1,290.00              | -120.36      | 2.70         | -82.76                  | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00              | 11.16           | 178.713     | 1,388.11              | -139.71      | 3.14         | -96.07                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00              | 11.16           | 178.713     | 1,486.22              | -159.07      | 3.57         | -109.38                 | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00              | 11.16           | 178.713     | 1,584.33              | -178.42      | 4.01         | -122.69                 | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00              | 11.16           | 178.713     | 1,682.44              | -197.78      | 4.44         | -136.00                 | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00              | 11.16           | 178.713     | 1,780.54              | -217.14      | 4.88         | -149.31                 | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00              | 11.16           | 178.713     | 1,878.65              | -236.49      | 5.31         | -162.62                 | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00              | 11.16           | 178.713     | 1,976.76              | -255.85      | 5.75         | -175.93                 | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00              | 11.16           | 178.713     | 2,074.87              | -275.21      | 6.18         | -189.24                 | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00              | 11.16           | 178.713     | 2,172.97              | -294.56      | 6.62         | -202.55                 | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00              | 11.16           | 178.713     | 2,271.08              | -313.92      | 7.05         | -215.86                 | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00              | 11.16           | 178.713     | 2,369.19              | -333.27      | 7.49         | -229.17                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00              | 11.16           | 178.713     | 2,467.30              | -352.63      | 7.92         | -242.48                 | 0.00                    | 0.00                   | 0.00                  |
| 2,599.99              | 11.16           | 178.713     | 2,565.40              | -371.99      | 8.36         | -255.79                 | 0.00                    | 0.00                   | 0.00                  |
| 2,699.99              | 11.16           | 178.713     | 2,663.51              | -391.34      | 8.79         | -269.10                 | 0.00                    | 0.00                   | 0.00                  |
| 2,799.99              | 11.16           | 178.713     | 2,761.62              | -410.70      | 9.23         | -282.41                 | 0.00                    | 0.00                   | 0.00                  |
| 2,899.99              | 11.16           | 178.713     | 2,859.73              | -430.05      | 9.66         | -295.72                 | 0.00                    | 0.00                   | 0.00                  |
| 2,999.99              | 11.16           | 178.713     | 2,957.83              | -449.41      | 10.10        | -309.03                 | 0.00                    | 0.00                   | 0.00                  |
| 3,099.99              | 11.16           | 178.713     | 3,055.94              | -468.77      | 10.53        | -322.34                 | 0.00                    | 0.00                   | 0.00                  |
| 3,199.99              | 11.16           | 178.713     | 3,154.05              | -488.12      | 10.97        | -335.65                 | 0.00                    | 0.00                   | 0.00                  |
| 3,299.99              | 11.16           | 178.713     | 3,252.16              | -507.48      | 11.40        | -348.96                 | 0.00                    | 0.00                   | 0.00                  |
| 3,399.99              | 11.16           | 178.713     | 3,350.27              | -526.84      | 11.84        | -362.27                 | 0.00                    | 0.00                   | 0.00                  |
| 3,499.99              | 11.16           | 178.713     | 3,448.37              | -546.19      | 12.27        | -375.58                 | 0.00                    | 0.00                   | 0.00                  |
| 3,599.99              | 11.16           | 178.713     | 3,546.48              | -565.55      | 12.71        | -388.89                 | 0.00                    | 0.00                   | 0.00                  |
| 3,699.99              | 11.16           | 178.713     | 3,644.59              | -584.90      | 13.14        | -402.20                 | 0.00                    | 0.00                   | 0.00                  |
| 3,799.99              | 11.16           | 178.713     | 3,742.70              | -604.26      | 13.58        | -415.51                 | 0.00                    | 0.00                   | 0.00                  |
| 3,899.99              | 11.16           | 178.713     | 3,840.80              | -623.62      | 14.01        | -428.82                 | 0.00                    | 0.00                   | 0.00                  |
| 3,999.99              | 11.16           | 178.713     | 3,938.91              | -642.97      | 14.45        | -442.13                 | 0.00                    | 0.00                   | 0.00                  |
| 4,099.99              | 11.16           | 178.713     | 4,037.02              | -662.33      | 14.88        | -455.44                 | 0.00                    | 0.00                   | 0.00                  |
| 4,199.99              | 11.16           | 178.713     | 4,135.13              | -681.69      | 15.32        | -468.75                 | 0.00                    | 0.00                   | 0.00                  |
| 4,299.99              | 11.16           | 178.713     | 4,233.23              | -701.04      | 15.75        | -482.06                 | 0.00                    | 0.00                   | 0.00                  |
| 4,399.99              | 11.16           | 178.713     | 4,331.34              | -720.40      | 16.19        | -495.37                 | 0.00                    | 0.00                   | 0.00                  |
| 4,499.99              | 11.16           | 178.713     | 4,429.45              | -739.75      | 16.62        | -508.68                 | 0.00                    | 0.00                   | 0.00                  |
| 4,599.99              | 11.16           | 178.713     | 4,527.56              | -759.11      | 17.06        | -521.99                 | 0.00                    | 0.00                   | 0.00                  |
| 4,636.53              | 11.16           | 178.713     | 4,563.41              | -766.18      | 17.22        | -526.85                 | 0.00                    | 0.00                   | 0.00                  |
| 4,699.99              | 8.02            | 208.027     | 4,626.01              | -776.24      | 15.27        | -532.16                 | 9.00                    | -4.95                  | 46.19                 |
| 4,799.99              | 10.04           | 266.720     | 4,724.95              | -782.91      | 3.27         | -527.73                 | 9.00                    | 2.02                   | 58.69                 |
| 4,899.99              | 17.28           | 290.382     | 4,822.13              | -778.23      | -19.41       | -507.78                 | 9.00                    | 7.23                   | 23.66                 |





# Scientific Drilling, Intl Planning Report



|                  |                   |                                     |                                              |
|------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Database:</b> | Grand Junction    | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Company:</b>  | DJR Operating     | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Project:</b>  | Nageezi Unit      | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site:</b>     | G35 2409          | <b>North Reference:</b>             | True                                         |
| <b>Well:</b>     | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Wellbore:</b> | Original Drilling |                                     |                                              |
| <b>Design:</b>   | APD               |                                     |                                              |

| 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) |
| 4,999.99              | 25.63           | 299.693     | 4,915.15              | -762.31      | -52.18       | -472.80                 | 9.00                    | 8.36                   | 9.31                  |
| 5,099.99              | 34.30           | 304.584     | 5,001.71              | -735.54      | -94.26       | -423.64                 | 9.00                    | 8.67                   | 4.89                  |
| 5,199.99              | 43.09           | 307.679     | 5,079.68              | -698.59      | -144.60      | -361.52                 | 9.00                    | 8.79                   | 3.09                  |
| 5,299.99              | 51.95           | 309.894     | 5,147.15              | -652.37      | -201.96      | -287.97                 | 9.00                    | 8.85                   | 2.21                  |
| 5,399.99              | 60.83           | 311.626     | 5,202.46              | -598.00      | -264.93      | -204.80                 | 9.00                    | 8.88                   | 1.73                  |
| 5,499.99              | 69.73           | 313.080     | 5,244.23              | -536.84      | -331.96      | -114.06                 | 9.00                    | 8.90                   | 1.45                  |
| 5,599.99              | 78.65           | 314.375     | 5,271.45              | -470.38      | -401.40      | -17.98                  | 9.00                    | 8.91                   | 1.30                  |
| 5,699.99              | 87.57           | 315.591     | 5,283.44              | -400.27      | -471.54      | 81.07                   | 9.00                    | 8.92                   | 1.22                  |
| 5,722.05              | 89.53           | 315.855     | 5,284.00              | -384.48      | -486.94      | 103.08                  | 9.00                    | 8.92                   | 1.20                  |
| 5,799.99              | 89.53           | 315.855     | 5,284.64              | -328.55      | -541.22      | 180.85                  | 0.00                    | 0.00                   | 0.00                  |
| 5,899.99              | 89.53           | 315.855     | 5,285.45              | -256.80      | -610.86      | 280.64                  | 0.00                    | 0.00                   | 0.00                  |
| 5,999.99              | 89.53           | 315.855     | 5,286.27              | -185.04      | -680.51      | 380.43                  | 0.00                    | 0.00                   | 0.00                  |
| 6,099.99              | 89.53           | 315.855     | 5,287.08              | -113.29      | -750.15      | 480.21                  | 0.00                    | 0.00                   | 0.00                  |
| 6,199.99              | 89.53           | 315.855     | 5,287.90              | -41.53       | -819.80      | 580.00                  | 0.00                    | 0.00                   | 0.00                  |
| 6,299.99              | 89.53           | 315.855     | 5,288.71              | 30.22        | -889.44      | 679.79                  | 0.00                    | 0.00                   | 0.00                  |
| 6,399.99              | 89.53           | 315.855     | 5,289.53              | 101.98       | -959.09      | 779.57                  | 0.00                    | 0.00                   | 0.00                  |
| 6,499.99              | 89.53           | 315.855     | 5,290.34              | 173.74       | -1,028.73    | 879.36                  | 0.00                    | 0.00                   | 0.00                  |
| 6,599.99              | 89.53           | 315.855     | 5,291.16              | 245.49       | -1,098.38    | 979.15                  | 0.00                    | 0.00                   | 0.00                  |
| 6,699.99              | 89.53           | 315.855     | 5,291.97              | 317.25       | -1,168.02    | 1,078.93                | 0.00                    | 0.00                   | 0.00                  |
| 6,799.99              | 89.53           | 315.855     | 5,292.79              | 389.00       | -1,237.67    | 1,178.72                | 0.00                    | 0.00                   | 0.00                  |
| 6,899.99              | 89.53           | 315.855     | 5,293.60              | 460.76       | -1,307.31    | 1,278.51                | 0.00                    | 0.00                   | 0.00                  |
| 6,999.99              | 89.53           | 315.855     | 5,294.42              | 532.51       | -1,376.96    | 1,378.29                | 0.00                    | 0.00                   | 0.00                  |
| 7,099.99              | 89.53           | 315.855     | 5,295.23              | 604.27       | -1,446.60    | 1,478.08                | 0.00                    | 0.00                   | 0.00                  |
| 7,199.99              | 89.53           | 315.855     | 5,296.05              | 676.03       | -1,516.25    | 1,577.87                | 0.00                    | 0.00                   | 0.00                  |
| 7,299.99              | 89.53           | 315.855     | 5,296.86              | 747.78       | -1,585.89    | 1,677.65                | 0.00                    | 0.00                   | 0.00                  |
| 7,399.99              | 89.53           | 315.855     | 5,297.68              | 819.54       | -1,655.54    | 1,777.44                | 0.00                    | 0.00                   | 0.00                  |
| 7,499.99              | 89.53           | 315.855     | 5,298.49              | 891.29       | -1,725.18    | 1,877.22                | 0.00                    | 0.00                   | 0.00                  |
| 7,599.98              | 89.53           | 315.855     | 5,299.31              | 963.05       | -1,794.83    | 1,977.01                | 0.00                    | 0.00                   | 0.00                  |
| 7,699.98              | 89.53           | 315.855     | 5,300.12              | 1,034.81     | -1,864.47    | 2,076.80                | 0.00                    | 0.00                   | 0.00                  |
| 7,799.98              | 89.53           | 315.855     | 5,300.94              | 1,106.56     | -1,934.12    | 2,176.58                | 0.00                    | 0.00                   | 0.00                  |
| 7,899.98              | 89.53           | 315.855     | 5,301.75              | 1,178.32     | -2,003.76    | 2,276.37                | 0.00                    | 0.00                   | 0.00                  |
| 7,999.98              | 89.53           | 315.855     | 5,302.57              | 1,250.07     | -2,073.41    | 2,376.16                | 0.00                    | 0.00                   | 0.00                  |
| 8,099.98              | 89.53           | 315.855     | 5,303.38              | 1,321.83     | -2,143.05    | 2,475.94                | 0.00                    | 0.00                   | 0.00                  |
| 8,199.98              | 89.53           | 315.855     | 5,304.20              | 1,393.58     | -2,212.70    | 2,575.73                | 0.00                    | 0.00                   | 0.00                  |
| 8,299.98              | 89.53           | 315.855     | 5,305.01              | 1,465.34     | -2,282.34    | 2,675.52                | 0.00                    | 0.00                   | 0.00                  |
| 8,399.98              | 89.53           | 315.855     | 5,305.83              | 1,537.10     | -2,351.99    | 2,775.30                | 0.00                    | 0.00                   | 0.00                  |
| 8,499.98              | 89.53           | 315.855     | 5,306.64              | 1,608.85     | -2,421.63    | 2,875.09                | 0.00                    | 0.00                   | 0.00                  |
| 8,599.98              | 89.53           | 315.855     | 5,307.46              | 1,680.61     | -2,491.27    | 2,974.88                | 0.00                    | 0.00                   | 0.00                  |
| 8,699.98              | 89.53           | 315.855     | 5,308.27              | 1,752.36     | -2,560.92    | 3,074.66                | 0.00                    | 0.00                   | 0.00                  |
| 8,799.98              | 89.53           | 315.855     | 5,309.09              | 1,824.12     | -2,630.56    | 3,174.45                | 0.00                    | 0.00                   | 0.00                  |
| 8,899.98              | 89.53           | 315.855     | 5,309.90              | 1,895.87     | -2,700.21    | 3,274.24                | 0.00                    | 0.00                   | 0.00                  |
| 8,999.98              | 89.53           | 315.855     | 5,310.72              | 1,967.63     | -2,769.85    | 3,374.02                | 0.00                    | 0.00                   | 0.00                  |
| 9,099.98              | 89.53           | 315.855     | 5,311.53              | 2,039.39     | -2,839.50    | 3,473.81                | 0.00                    | 0.00                   | 0.00                  |
| 9,199.98              | 89.53           | 315.855     | 5,312.35              | 2,111.14     | -2,909.14    | 3,573.60                | 0.00                    | 0.00                   | 0.00                  |
| 9,299.98              | 89.53           | 315.855     | 5,313.16              | 2,182.90     | -2,978.79    | 3,673.38                | 0.00                    | 0.00                   | 0.00                  |
| 9,399.98              | 89.53           | 315.855     | 5,313.98              | 2,254.65     | -3,048.43    | 3,773.17                | 0.00                    | 0.00                   | 0.00                  |
| 9,499.98              | 89.53           | 315.855     | 5,314.79              | 2,326.41     | -3,118.08    | 3,872.96                | 0.00                    | 0.00                   | 0.00                  |
| 9,599.98              | 89.53           | 315.855     | 5,315.61              | 2,398.16     | -3,187.72    | 3,972.74                | 0.00                    | 0.00                   | 0.00                  |
| 9,699.98              | 89.53           | 315.855     | 5,316.42              | 2,469.92     | -3,257.37    | 4,072.53                | 0.00                    | 0.00                   | 0.00                  |
| 9,799.98              | 89.53           | 315.855     | 5,317.24              | 2,541.68     | -3,327.01    | 4,172.32                | 0.00                    | 0.00                   | 0.00                  |
| 9,899.98              | 89.53           | 315.855     | 5,318.05              | 2,613.43     | -3,396.66    | 4,272.10                | 0.00                    | 0.00                   | 0.00                  |
| 9,999.98              | 89.53           | 315.855     | 5,318.87              | 2,685.19     | -3,466.30    | 4,371.89                | 0.00                    | 0.00                   | 0.00                  |



# Scientific Drilling, Intl Planning Report



|                  |                   |                                     |                                              |
|------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Database:</b> | Grand Junction    | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Company:</b>  | DJR Operating     | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Project:</b>  | Nageezi Unit      | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site:</b>     | G35 2409          | <b>North Reference:</b>             | True                                         |
| <b>Well:</b>     | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Wellbore:</b> | Original Drilling |                                     |                                              |
| <b>Design:</b>   | APD               |                                     |                                              |

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,099.98             | 89.53           | 315.855     | 5,319.68              | 2,756.94     | -3,535.95    | 4,471.68                | 0.00                    | 0.00                   | 0.00                  |
| 10,199.98             | 89.53           | 315.855     | 5,320.50              | 2,828.70     | -3,605.59    | 4,571.46                | 0.00                    | 0.00                   | 0.00                  |
| 10,299.98             | 89.53           | 315.855     | 5,321.31              | 2,900.46     | -3,675.24    | 4,671.25                | 0.00                    | 0.00                   | 0.00                  |
| 10,399.98             | 89.53           | 315.855     | 5,322.13              | 2,972.21     | -3,744.88    | 4,771.04                | 0.00                    | 0.00                   | 0.00                  |
| 10,499.98             | 89.53           | 315.855     | 5,322.94              | 3,043.97     | -3,814.53    | 4,870.82                | 0.00                    | 0.00                   | 0.00                  |
| 10,599.98             | 89.53           | 315.855     | 5,323.76              | 3,115.72     | -3,884.17    | 4,970.61                | 0.00                    | 0.00                   | 0.00                  |
| 10,699.98             | 89.53           | 315.855     | 5,324.57              | 3,187.48     | -3,953.82    | 5,070.40                | 0.00                    | 0.00                   | 0.00                  |
| 10,799.98             | 89.53           | 315.855     | 5,325.39              | 3,259.23     | -4,023.46    | 5,170.18                | 0.00                    | 0.00                   | 0.00                  |
| 10,899.98             | 89.53           | 315.855     | 5,326.20              | 3,330.99     | -4,093.11    | 5,269.97                | 0.00                    | 0.00                   | 0.00                  |
| 10,999.98             | 89.53           | 315.855     | 5,327.02              | 3,402.75     | -4,162.75    | 5,369.75                | 0.00                    | 0.00                   | 0.00                  |
| 11,099.98             | 89.53           | 315.855     | 5,327.83              | 3,474.50     | -4,232.40    | 5,469.54                | 0.00                    | 0.00                   | 0.00                  |
| 11,199.98             | 89.53           | 315.855     | 5,328.65              | 3,546.26     | -4,302.04    | 5,569.33                | 0.00                    | 0.00                   | 0.00                  |
| 11,299.98             | 89.53           | 315.855     | 5,329.46              | 3,618.01     | -4,371.69    | 5,669.11                | 0.00                    | 0.00                   | 0.00                  |
| 11,399.98             | 89.53           | 315.855     | 5,330.28              | 3,689.77     | -4,441.33    | 5,768.90                | 0.00                    | 0.00                   | 0.00                  |
| 11,499.98             | 89.53           | 315.855     | 5,331.09              | 3,761.52     | -4,510.98    | 5,868.69                | 0.00                    | 0.00                   | 0.00                  |
| 11,599.98             | 89.53           | 315.855     | 5,331.91              | 3,833.28     | -4,580.62    | 5,968.47                | 0.00                    | 0.00                   | 0.00                  |
| 11,699.98             | 89.53           | 315.855     | 5,332.72              | 3,905.04     | -4,650.27    | 6,068.26                | 0.00                    | 0.00                   | 0.00                  |
| 11,799.98             | 89.53           | 315.855     | 5,333.54              | 3,976.79     | -4,719.91    | 6,168.05                | 0.00                    | 0.00                   | 0.00                  |
| 11,899.98             | 89.53           | 315.855     | 5,334.35              | 4,048.55     | -4,789.55    | 6,267.83                | 0.00                    | 0.00                   | 0.00                  |
| 11,999.98             | 89.53           | 315.855     | 5,335.17              | 4,120.30     | -4,859.20    | 6,367.62                | 0.00                    | 0.00                   | 0.00                  |
| 12,099.98             | 89.53           | 315.855     | 5,335.98              | 4,192.06     | -4,928.84    | 6,467.41                | 0.00                    | 0.00                   | 0.00                  |
| 12,199.98             | 89.53           | 315.855     | 5,336.80              | 4,263.81     | -4,998.49    | 6,567.19                | 0.00                    | 0.00                   | 0.00                  |
| 12,299.98             | 89.53           | 315.855     | 5,337.61              | 4,335.57     | -5,068.13    | 6,666.98                | 0.00                    | 0.00                   | 0.00                  |
| 12,399.98             | 89.53           | 315.855     | 5,338.43              | 4,407.33     | -5,137.78    | 6,766.77                | 0.00                    | 0.00                   | 0.00                  |
| 12,499.98             | 89.53           | 315.855     | 5,339.24              | 4,479.08     | -5,207.42    | 6,866.55                | 0.00                    | 0.00                   | 0.00                  |
| 12,599.98             | 89.53           | 315.855     | 5,340.06              | 4,550.84     | -5,277.07    | 6,966.34                | 0.00                    | 0.00                   | 0.00                  |
| 12,699.97             | 89.53           | 315.855     | 5,340.87              | 4,622.59     | -5,346.71    | 7,066.13                | 0.00                    | 0.00                   | 0.00                  |
| 12,799.97             | 89.53           | 315.855     | 5,341.69              | 4,694.35     | -5,416.36    | 7,165.91                | 0.00                    | 0.00                   | 0.00                  |
| 12,899.97             | 89.53           | 315.855     | 5,342.50              | 4,766.11     | -5,486.00    | 7,265.70                | 0.00                    | 0.00                   | 0.00                  |
| 12,999.97             | 89.53           | 315.855     | 5,343.32              | 4,837.86     | -5,555.65    | 7,365.49                | 0.00                    | 0.00                   | 0.00                  |
| 13,099.97             | 89.53           | 315.855     | 5,344.13              | 4,909.62     | -5,625.29    | 7,465.27                | 0.00                    | 0.00                   | 0.00                  |
| 13,199.97             | 89.53           | 315.855     | 5,344.95              | 4,981.37     | -5,694.94    | 7,565.06                | 0.00                    | 0.00                   | 0.00                  |
| 13,299.97             | 89.53           | 315.855     | 5,345.76              | 5,053.13     | -5,764.58    | 7,664.85                | 0.00                    | 0.00                   | 0.00                  |
| 13,399.97             | 89.53           | 315.855     | 5,346.58              | 5,124.88     | -5,834.23    | 7,764.63                | 0.00                    | 0.00                   | 0.00                  |
| 13,499.97             | 89.53           | 315.855     | 5,347.39              | 5,196.64     | -5,903.87    | 7,864.42                | 0.00                    | 0.00                   | 0.00                  |
| 13,599.97             | 89.53           | 315.855     | 5,348.21              | 5,268.40     | -5,973.52    | 7,964.21                | 0.00                    | 0.00                   | 0.00                  |
| 13,699.97             | 89.53           | 315.855     | 5,349.02              | 5,340.15     | -6,043.16    | 8,063.99                | 0.00                    | 0.00                   | 0.00                  |
| 13,799.97             | 89.53           | 315.855     | 5,349.84              | 5,411.91     | -6,112.81    | 8,163.78                | 0.00                    | 0.00                   | 0.00                  |
| 13,899.97             | 89.53           | 315.855     | 5,350.65              | 5,483.66     | -6,182.45    | 8,263.57                | 0.00                    | 0.00                   | 0.00                  |
| 13,999.97             | 89.53           | 315.855     | 5,351.47              | 5,555.42     | -6,252.10    | 8,363.35                | 0.00                    | 0.00                   | 0.00                  |
| 14,099.97             | 89.53           | 315.855     | 5,352.28              | 5,627.17     | -6,321.74    | 8,463.14                | 0.00                    | 0.00                   | 0.00                  |
| 14,199.97             | 89.53           | 315.855     | 5,353.10              | 5,698.93     | -6,391.39    | 8,562.93                | 0.00                    | 0.00                   | 0.00                  |
| 14,299.97             | 89.53           | 315.855     | 5,353.92              | 5,770.69     | -6,461.03    | 8,662.71                | 0.00                    | 0.00                   | 0.00                  |
| 14,399.97             | 89.53           | 315.855     | 5,354.73              | 5,842.44     | -6,530.68    | 8,762.50                | 0.00                    | 0.00                   | 0.00                  |
| 14,499.97             | 89.53           | 315.855     | 5,355.55              | 5,914.20     | -6,600.32    | 8,862.28                | 0.00                    | 0.00                   | 0.00                  |
| 14,599.97             | 89.53           | 315.855     | 5,356.36              | 5,985.95     | -6,669.97    | 8,962.07                | 0.00                    | 0.00                   | 0.00                  |
| 14,699.97             | 89.53           | 315.855     | 5,357.18              | 6,057.71     | -6,739.61    | 9,061.86                | 0.00                    | 0.00                   | 0.00                  |
| 14,799.97             | 89.53           | 315.855     | 5,357.99              | 6,129.46     | -6,809.26    | 9,161.64                | 0.00                    | 0.00                   | 0.00                  |
| 14,899.97             | 89.53           | 315.855     | 5,358.81              | 6,201.22     | -6,878.90    | 9,261.43                | 0.00                    | 0.00                   | 0.00                  |
| 14,999.97             | 89.53           | 315.855     | 5,359.62              | 6,272.98     | -6,948.55    | 9,361.22                | 0.00                    | 0.00                   | 0.00                  |
| 15,099.97             | 89.53           | 315.855     | 5,360.44              | 6,344.73     | -7,018.19    | 9,461.00                | 0.00                    | 0.00                   | 0.00                  |
| 15,169.25             | 89.53           | 315.855     | 5,361.00              | 6,394.46     | -7,066.42    | 9,530.13                | 0.00                    | 0.00                   | 0.00                  |





Scientific Drilling, Intl  
Planning Report



|                  |                   |                                     |                                              |
|------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Database:</b> | Grand Junction    | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Company:</b>  | DJR Operating     | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Project:</b>  | Nageezi Unit      | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site:</b>     | G35 2409          | <b>North Reference:</b>             | True                                         |
| <b>Well:</b>     | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Wellbore:</b> | Original Drilling |                                     |                                              |
| <b>Design:</b>   | APD               |                                     |                                              |

#### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|

#### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                       | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude   | Longitude    |
|-------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------|--------------|
| 310H Heel<br>- plan hits target center<br>- Circle (radius 50.00) | 0.00          | 0.000        | 5,284.00   | -384.48      | -486.94      | 1,917,733.19    | 2,744,867.66   | 36.2704008 | -107.7594599 |
| 310H Toe<br>- plan hits target center<br>- Circle (radius 100.00) | 0.00          | 0.000        | 5,361.00   | 6,394.46     | -7,066.42    | 1,924,507.00    | 2,738,282.89   | 36.2890206 | -107.7817860 |

#### Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name                | Casing Diameter (in) | Hole Diameter (in) |
|-----------------------|-----------------------|---------------------|----------------------|--------------------|
| 350.00                | 350.00                | Surface Casing      | 9.62                 | 12.25              |
| 5,674.07              | 5,281.82              | Intermediate Casing | 7.00                 | 8.75               |

#### Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name            | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|-----------------|-----------|---------|-------------------|
| 825.56                | 824.00                | Ojo Alamo       |           | 0.00    | 0.000             |
| 910.70                | 908.00                | Kirtland        |           | 0.00    | 0.000             |
| 1,228.64              | 1,220.00              | Fruitland       |           | 0.00    | 0.000             |
| 1,577.24              | 1,562.00              | Pictured Cliffs |           | 0.00    | 0.000             |
| 1,674.07              | 1,657.00              | Lewis           |           | 0.00    | 0.000             |
| 2,376.36              | 2,346.00              | Chacra          |           | 0.00    | 0.000             |
| 3,102.09              | 3,058.00              | Menefee         |           | 0.00    | 0.000             |
| 4,094.88              | 4,032.00              | Point Lookout   |           | 0.00    | 0.000             |
| 4,266.12              | 4,200.00              | Mancos          |           | 0.00    | 0.000             |
| 4,596.37              | 4,524.00              | Mancos Silt     |           | 0.00    | 0.000             |
| 5,124.89              | 5,022.00              | Gallup A        |           | 0.00    | 0.000             |
| 5,178.83              | 5,064.00              | Gallup B        |           | 0.00    | 0.000             |
| 5,362.05              | 5,183.00              | Gallup C        |           | 0.00    | 0.000             |





## DJR Operating

Nageezi Unit  
G35 2409  
310H

Original Drilling  
APD

## Anticollision Report

09 January, 2020



[www.scientificdrilling.com](http://www.scientificdrilling.com)



## Scientific Drilling, Intl



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Reference                           | APD                                                                 |                       |                     |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | MD Interval 100.00usft                                              | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum ellipse separation of 1,000.00 usft                         | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

| Survey Tool Program |              | Date                    | 1/9/2020  |                        |  |
|---------------------|--------------|-------------------------|-----------|------------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore)       | Tool Name | Description            |  |
| 0.00                | 15,169.25    | APD (Original Drilling) | MWD+IGRF  | OWSG MWD + IGRF or WMM |  |

| Summary                                      |                             |                             |                              |                               |                      |             |
|----------------------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|----------------------|-------------|
| Site Name<br>Offset Well - Wellbore - Design | Reference                   | Offset                      | Distance                     |                               | Separation<br>Factor | Warning     |
|                                              | Measured<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                      |             |
| G35 2409                                     |                             |                             |                              |                               |                      |             |
| 308H - Original Drilling - APD               | 400.00                      | 400.00                      | 19.97                        | 17.51                         | 8.120                | CC          |
| 308H - Original Drilling - APD               | 500.00                      | 500.32                      | 20.45                        | 17.30                         | 6.502                | ES          |
| 308H - Original Drilling - APD               | 15,169.25                   | 14,543.92                   | 641.95                       | 179.32                        | 1.388                | Level 3, SF |
| 309H - Original Drilling - APD               | 305.56                      | 305.56                      | 20.24                        | 18.46                         | 11.358               | CC          |
| 309H - Original Drilling - APD               | 400.00                      | 399.84                      | 20.34                        | 17.88                         | 8.287                | ES          |
| 309H - Original Drilling - APD               | 1,000.00                    | 997.18                      | 27.93                        | 21.04                         | 4.053                | SF          |
| 313H - Original Drilling - APD               | 305.56                      | 305.56                      | 59.63                        | 57.85                         | 33.462               | CC          |
| 313H - Original Drilling - APD               | 400.00                      | 399.58                      | 59.72                        | 57.26                         | 24.298               | ES          |
| 313H - Original Drilling - APD               | 600.00                      | 595.15                      | 72.39                        | 68.55                         | 18.808               | SF          |
| 632H - Original Drilling - APD               | 400.00                      | 400.00                      | 39.66                        | 37.20                         | 16.128               | CC, ES      |
| 632H - Original Drilling - APD               | 15,169.25                   | 14,229.66                   | 1,232.61                     | 758.62                        | 2.600                | SF          |

| Offset Design              |                       | G35 2409 - 308H - Original Drilling - APD |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |  |
|----------------------------|-----------------------|-------------------------------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|--|
| Survey Program: 0-MWD+IGRF |                       |                                           |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft |  |
| Reference                  |                       | Offset                                    |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning                      |  |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft)                     | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |  |
| 0.00                       | 0.00                  | 0.00                                      | 0.00                  | 0.00             | 0.00          | 41.65                 | 14.92                               | 13.27        | 19.97                  |                         |                           |                   |                              |  |
| 100.00                     | 100.00                | 100.00                                    | 100.00                | 0.15             | 0.15          | 41.65                 | 14.92                               | 13.27        | 19.97                  | 19.66                   | 0.31                      | 64.772            |                              |  |
| 200.00                     | 200.00                | 200.00                                    | 200.00                | 0.51             | 0.51          | 41.65                 | 14.92                               | 13.27        | 19.97                  | 18.94                   | 1.03                      | 19.477            |                              |  |
| 300.00                     | 300.00                | 300.00                                    | 300.00                | 0.87             | 0.87          | 41.65                 | 14.92                               | 13.27        | 19.97                  | 18.23                   | 1.74                      | 11.462            |                              |  |
| 400.00                     | 400.00                | 400.00                                    | 400.00                | 1.23             | 1.23          | 41.65                 | 14.92                               | 13.27        | 19.97                  | 17.51                   | 2.46                      | 8.120 CC          |                              |  |
| 500.00                     | 499.98                | 500.32                                    | 500.30                | 1.57             | 1.57          | -136.02               | 13.28                               | 13.90        | 20.45                  | 17.30                   | 3.14                      | 6.502 ES          |                              |  |
| 600.00                     | 599.84                | 600.48                                    | 600.34                | 1.91             | 1.91          | -133.92               | 8.67                                | 15.69        | 22.05                  | 18.23                   | 3.82                      | 5.771             |                              |  |
| 700.00                     | 699.45                | 700.40                                    | 700.10                | 2.27             | 2.26          | -136.61               | 3.52                                | 17.67        | 25.87                  | 21.35                   | 4.52                      | 5.724             |                              |  |
| 800.00                     | 798.70                | 800.13                                    | 799.68                | 2.65             | 2.62          | -142.65               | -1.62                               | 19.66        | 32.44                  | 27.20                   | 5.23                      | 6.198             |                              |  |
| 900.00                     | 897.47                | 899.55                                    | 898.95                | 3.05             | 2.98          | -149.18               | -6.75                               | 21.64        | 42.20                  | 36.24                   | 5.95                      | 7.087             |                              |  |
| 1,000.00                   | 995.68                | 998.60                                    | 997.84                | 3.50             | 3.34          | -154.71               | -11.85                              | 23.61        | 55.15                  | 48.47                   | 6.68                      | 8.259             |                              |  |
| 1,100.00                   | 1,093.79              | 1,097.56                                  | 1,096.66              | 3.96             | 3.70          | -158.36               | -16.95                              | 25.58        | 68.97                  | 61.57                   | 7.40                      | 9.323             |                              |  |
| 1,200.00                   | 1,191.90              | 1,196.53                                  | 1,195.47              | 4.44             | 4.07          | -160.78               | -22.05                              | 27.55        | 82.97                  | 74.85                   | 8.12                      | 10.218            |                              |  |
| 1,300.00                   | 1,290.01              | 1,295.49                                  | 1,294.28              | 4.92             | 4.43          | -162.50               | -27.16                              | 29.52        | 97.08                  | 88.23                   | 8.85                      | 10.974            |                              |  |
| 1,400.00                   | 1,388.12              | 1,394.45                                  | 1,393.10              | 5.41             | 4.80          | -163.78               | -32.26                              | 31.48        | 111.24                 | 101.67                  | 9.57                      | 11.620            |                              |  |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     | Warning      |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,500.00                   | 1,486.22              | 1,493.42              | 1,491.91              | 5.91             | 5.16          | -164.78               | -37.36                              | 33.45        | 125.46                 | 115.15                  | 10.30                     | 12.176            |                    |           |
| 1,600.00                   | 1,584.33              | 1,592.38              | 1,590.72              | 6.40             | 5.53          | -165.57               | -42.46                              | 35.42        | 139.70                 | 128.66                  | 11.04                     | 12.659            |                    |           |
| 1,700.00                   | 1,682.44              | 1,691.35              | 1,689.54              | 6.91             | 5.90          | -166.21               | -47.56                              | 37.39        | 153.96                 | 142.19                  | 11.77                     | 13.083            |                    |           |
| 1,800.00                   | 1,780.55              | 1,790.31              | 1,788.35              | 7.41             | 6.27          | -166.75               | -52.66                              | 39.36        | 168.24                 | 155.73                  | 12.50                     | 13.457            |                    |           |
| 1,900.00                   | 1,878.65              | 1,889.28              | 1,887.16              | 7.91             | 6.64          | -167.20               | -57.76                              | 41.33        | 182.53                 | 169.29                  | 13.24                     | 13.789            |                    |           |
| 2,000.00                   | 1,976.76              | 1,988.24              | 1,985.98              | 8.42             | 7.01          | -167.59               | -62.86                              | 43.30        | 196.82                 | 182.85                  | 13.97                     | 14.086            |                    |           |
| 2,100.00                   | 2,074.87              | 2,087.20              | 2,084.79              | 8.93             | 7.37          | -167.92               | -67.96                              | 45.27        | 211.13                 | 196.42                  | 14.71                     | 14.354            |                    |           |
| 2,200.00                   | 2,172.98              | 2,186.17              | 2,183.60              | 9.44             | 7.74          | -168.21               | -73.06                              | 47.24        | 225.44                 | 210.00                  | 15.45                     | 14.596            |                    |           |
| 2,300.00                   | 2,271.09              | 2,285.13              | 2,282.42              | 9.95             | 8.11          | -168.47               | -78.16                              | 49.21        | 239.76                 | 223.58                  | 16.18                     | 14.815            |                    |           |
| 2,400.00                   | 2,369.19              | 2,384.10              | 2,381.23              | 10.46            | 8.48          | -168.70               | -83.26                              | 51.18        | 254.09                 | 237.16                  | 16.92                     | 15.016            |                    |           |
| 2,500.00                   | 2,467.30              | 2,483.06              | 2,480.04              | 10.97            | 8.85          | -168.90               | -88.36                              | 53.15        | 268.41                 | 250.75                  | 17.66                     | 15.199            |                    |           |
| 2,600.00                   | 2,565.41              | 2,582.03              | 2,578.85              | 11.48            | 9.22          | -169.08               | -93.46                              | 55.12        | 282.74                 | 264.34                  | 18.40                     | 15.368            |                    |           |
| 2,700.00                   | 2,663.52              | 2,680.99              | 2,677.67              | 11.99            | 9.59          | -169.25               | -98.57                              | 57.08        | 297.07                 | 277.93                  | 19.14                     | 15.524            |                    |           |
| 2,800.00                   | 2,761.62              | 2,779.95              | 2,776.48              | 12.51            | 9.96          | -169.40               | -103.67                             | 59.05        | 311.40                 | 291.53                  | 19.88                     | 15.667            |                    |           |
| 2,900.00                   | 2,859.73              | 2,878.92              | 2,875.29              | 13.02            | 10.33         | -169.53               | -108.77                             | 61.02        | 325.74                 | 305.12                  | 20.62                     | 15.801            |                    |           |
| 3,000.00                   | 2,957.84              | 2,977.88              | 2,974.11              | 13.53            | 10.70         | -169.66               | -113.87                             | 62.99        | 340.08                 | 318.72                  | 21.35                     | 15.925            |                    |           |
| 3,100.00                   | 3,055.95              | 3,076.85              | 3,072.92              | 14.05            | 11.07         | -169.77               | -118.97                             | 64.96        | 354.42                 | 332.32                  | 22.09                     | 16.041            |                    |           |
| 3,200.00                   | 3,154.06              | 3,175.81              | 3,171.73              | 14.56            | 11.44         | -169.88               | -124.07                             | 66.93        | 368.76                 | 345.92                  | 22.83                     | 16.149            |                    |           |
| 3,300.00                   | 3,252.16              | 3,274.78              | 3,270.55              | 15.07            | 11.81         | -169.98               | -129.17                             | 68.90        | 383.10                 | 359.52                  | 23.57                     | 16.250            |                    |           |
| 3,400.00                   | 3,350.27              | 3,373.74              | 3,369.36              | 15.59            | 12.18         | -170.07               | -134.27                             | 70.87        | 397.44                 | 373.12                  | 24.32                     | 16.345            |                    |           |
| 3,500.00                   | 3,448.38              | 3,472.70              | 3,468.17              | 16.10            | 12.56         | -170.15               | -139.37                             | 72.84        | 411.78                 | 386.73                  | 25.06                     | 16.435            |                    |           |
| 3,600.00                   | 3,546.49              | 3,571.67              | 3,566.99              | 16.62            | 12.93         | -170.23               | -144.47                             | 74.81        | 426.13                 | 400.33                  | 25.80                     | 16.519            |                    |           |
| 3,700.00                   | 3,644.60              | 3,670.63              | 3,665.80              | 17.13            | 13.30         | -170.31               | -149.57                             | 76.78        | 440.47                 | 413.93                  | 26.54                     | 16.598            |                    |           |
| 3,800.00                   | 3,742.70              | 3,769.60              | 3,764.61              | 17.65            | 13.67         | -170.38               | -154.67                             | 78.75        | 454.82                 | 427.54                  | 27.28                     | 16.673            |                    |           |
| 3,900.00                   | 3,840.81              | 3,868.56              | 3,863.43              | 18.16            | 14.04         | -170.44               | -159.77                             | 80.71        | 469.16                 | 441.14                  | 28.02                     | 16.745            |                    |           |
| 4,000.00                   | 3,938.92              | 3,967.53              | 3,962.24              | 18.68            | 14.41         | -170.50               | -164.87                             | 82.68        | 483.51                 | 454.75                  | 28.76                     | 16.812            |                    |           |
| 4,100.00                   | 4,037.03              | 4,066.49              | 4,061.05              | 19.19            | 14.78         | -170.56               | -169.98                             | 84.65        | 497.85                 | 468.35                  | 29.50                     | 16.876            |                    |           |
| 4,200.00                   | 4,135.13              | 4,165.45              | 4,159.86              | 19.71            | 15.15         | -170.61               | -175.08                             | 86.62        | 512.20                 | 481.96                  | 30.24                     | 16.937            |                    |           |
| 4,300.00                   | 4,233.24              | 4,264.42              | 4,258.68              | 20.22            | 15.52         | -170.67               | -180.18                             | 88.59        | 526.55                 | 495.57                  | 30.98                     | 16.995            |                    |           |
| 4,400.00                   | 4,331.35              | 4,363.38              | 4,357.49              | 20.74            | 15.89         | -170.71               | -185.28                             | 90.56        | 540.90                 | 509.17                  | 31.72                     | 17.050            |                    |           |
| 4,500.00                   | 4,429.46              | 4,449.99              | 4,443.97              | 21.25            | 16.21         | -170.76               | -189.69                             | 92.23        | 555.43                 | 523.05                  | 32.38                     | 17.155            |                    |           |
| 4,600.00                   | 4,527.57              | 4,517.56              | 4,511.48              | 21.77            | 16.43         | -171.16               | -189.82                             | 90.37        | 574.22                 | 541.42                  | 32.80                     | 17.507            |                    |           |
| 4,700.00                   | 4,626.02              | 4,578.53              | 4,571.98              | 22.25            | 16.60         | 158.18                | -185.49                             | 84.47        | 597.24                 | 564.21                  | 33.03                     | 18.083            |                    |           |
| 4,800.00                   | 4,724.96              | 4,638.91              | 4,630.96              | 22.59            | 16.76         | 98.33                 | -177.09                             | 74.72        | 617.22                 | 584.12                  | 33.10                     | 18.648            |                    |           |
| 4,900.00                   | 4,822.14              | 4,699.99              | 4,689.10              | 22.79            | 16.90         | 74.12                 | -164.50                             | 60.99        | 633.10                 | 600.05                  | 33.05                     | 19.157            |                    |           |
| 5,000.00                   | 4,915.16              | 4,749.99              | 4,735.20              | 22.87            | 17.00         | 64.78                 | -151.22                             | 46.95        | 644.70                 | 611.98                  | 32.72                     | 19.705            |                    |           |
| 5,100.00                   | 5,001.72              | 4,818.99              | 4,796.04              | 22.85            | 17.14         | 60.52                 | -128.64                             | 23.61        | 651.56                 | 618.87                  | 32.69                     | 19.934            |                    |           |
| 5,200.00                   | 5,079.69              | 4,879.10              | 4,845.92              | 22.76            | 17.27         | 58.55                 | -105.14                             | -0.30        | 653.95                 | 621.40                  | 32.55                     | 20.091            |                    |           |
| 5,300.00                   | 5,147.16              | 4,939.48              | 4,892.61              | 22.61            | 17.42         | 58.03                 | -78.17                              | -27.42       | 651.89                 | 619.31                  | 32.57                     | 20.014            |                    |           |
| 5,400.00                   | 5,202.46              | 4,999.99              | 4,935.56              | 22.44            | 17.61         | 58.56                 | -48.01                              | -57.48       | 645.57                 | 612.71                  | 32.86                     | 19.645            |                    |           |
| 5,500.00                   | 5,244.24              | 5,061.61              | 4,974.95              | 22.25            | 17.87         | 60.02                 | -14.34                              | -90.79       | 635.36                 | 601.80                  | 33.56                     | 18.933            |                    |           |
| 5,600.00                   | 5,271.45              | 5,123.69              | 5,009.81              | 22.07            | 18.22         | 62.30                 | 22.28                               | -126.77      | 621.76                 | 587.03                  | 34.73                     | 17.904            |                    |           |
| 5,700.00                   | 5,283.44              | 5,186.72              | 5,039.93              | 22.05            | 18.66         | 65.40                 | 61.86                               | -165.45      | 605.43                 | 569.02                  | 36.41                     | 16.627            |                    |           |
| 5,800.00                   | 5,284.64              | 5,249.99              | 5,064.51              | 22.98            | 19.20         | 67.82                 | 103.63                              | -206.06      | 589.55                 | 551.07                  | 38.48                     | 15.320            |                    |           |
| 5,900.00                   | 5,285.45              | 5,322.71              | 5,085.47              | 24.28            | 19.95         | 69.70                 | 153.66                              | -254.44      | 579.23                 | 538.38                  | 40.85                     | 14.180            |                    |           |
| 6,000.00                   | 5,286.27              | 5,399.99              | 5,098.89              | 25.74            | 20.86         | 70.91                 | 208.47                              | -307.17      | 573.89                 | 530.55                  | 43.33                     | 13.244            |                    |           |
| 6,073.97                   | 5,286.87              | 5,453.27              | 5,102.73              | 26.92            | 21.56         | 71.25                 | 246.84                              | -343.91      | 572.74                 | 527.64                  | 45.10                     | 12.700            |                    |           |
| 6,100.00                   | 5,287.08              | 5,474.96              | 5,103.06              | 27.34            | 21.86         | 71.27                 | 262.52                              | -358.90      | 572.86                 | 527.11                  | 45.76                     | 12.520            |                    |           |
| 6,200.00                   | 5,287.90              | 5,574.96              | 5,103.88              | 29.05            | 23.35         | 71.29                 | 334.83                              | -427.97      | 573.62                 | 524.85                  | 48.78                     | 11.760            |                    |           |
| 6,300.00                   | 5,288.71              | 5,674.95              | 5,104.70              | 30.86            | 24.99         | 71.32                 | 407.14                              | -497.03      | 574.38                 | 522.33                  | 52.05                     | 11.036            |                    |           |
| 6,400.00                   | 5,289.53              | 5,774.95              | 5,105.51              | 32.74            | 26.76         | 71.34                 | 479.45                              | -566.10      | 575.14                 | 519.61                  | 55.53                     | 10.357            |                    |           |

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



# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design              |                       |                       |                       |                  |               |              |                                     |              |                        |                         | Offset Site Error:        | 0.00 usft         |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|--------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |              |                                     |              |                        |                         | Offset Well Error:        | 0.00 usft         |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               | Highside     |                                     | Distance     |                        | Warning                 |                           |                   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |
| 6,500.00                   | 5,290.34              | 5,874.95              | 5,106.33              | 34.70            | 28.63         | 71.37        | 551.75                              | -635.16      | 575.89                 | 516.70                  | 59.19                     | 9.729             |
| 6,600.00                   | 5,291.16              | 5,974.94              | 5,107.15              | 36.72            | 30.59         | 71.39        | 624.06                              | -704.23      | 576.65                 | 513.65                  | 63.00                     | 9.153             |
| 6,700.00                   | 5,291.97              | 6,074.94              | 5,107.96              | 38.78            | 32.62         | 71.42        | 696.37                              | -773.30      | 577.41                 | 510.48                  | 66.93                     | 8.627             |
| 6,800.00                   | 5,292.79              | 6,174.94              | 5,108.78              | 40.89            | 34.71         | 71.44        | 768.68                              | -842.36      | 578.17                 | 507.21                  | 70.96                     | 8.148             |
| 6,900.00                   | 5,293.60              | 6,274.93              | 5,109.60              | 43.04            | 36.84         | 71.47        | 840.99                              | -911.43      | 578.93                 | 503.86                  | 75.07                     | 7.712             |
| 7,000.00                   | 5,294.42              | 6,374.93              | 5,110.41              | 45.22            | 39.02         | 71.50        | 913.30                              | -980.50      | 579.68                 | 500.43                  | 79.25                     | 7.314             |
| 7,100.00                   | 5,295.23              | 6,474.93              | 5,111.23              | 47.43            | 41.23         | 71.52        | 985.61                              | -1,049.56    | 580.44                 | 496.94                  | 83.50                     | 6.952             |
| 7,200.00                   | 5,296.05              | 6,574.92              | 5,112.05              | 49.66            | 43.47         | 71.55        | 1,057.91                            | -1,118.63    | 581.20                 | 493.41                  | 87.79                     | 6.620             |
| 7,300.00                   | 5,296.86              | 6,674.92              | 5,112.86              | 51.92            | 45.74         | 71.57        | 1,130.22                            | -1,187.70    | 581.96                 | 489.82                  | 92.14                     | 6.316             |
| 7,400.00                   | 5,297.68              | 6,774.92              | 5,113.68              | 54.19            | 48.02         | 71.60        | 1,202.53                            | -1,256.76    | 582.72                 | 486.20                  | 96.52                     | 6.037             |
| 7,500.00                   | 5,298.49              | 6,874.91              | 5,114.50              | 56.48            | 50.33         | 71.62        | 1,274.84                            | -1,325.83    | 583.48                 | 482.54                  | 100.93                    | 5.781             |
| 7,600.00                   | 5,299.31              | 6,974.91              | 5,115.31              | 58.79            | 52.65         | 71.65        | 1,347.15                            | -1,394.89    | 584.24                 | 478.86                  | 105.38                    | 5.544             |
| 7,700.00                   | 5,300.12              | 7,074.91              | 5,116.13              | 61.10            | 54.98         | 71.67        | 1,419.46                            | -1,463.96    | 584.99                 | 475.14                  | 109.85                    | 5.325             |
| 7,800.00                   | 5,300.94              | 7,174.90              | 5,116.95              | 63.43            | 57.33         | 71.70        | 1,491.77                            | -1,533.03    | 585.75                 | 471.41                  | 114.35                    | 5.123             |
| 7,900.00                   | 5,301.75              | 7,274.90              | 5,117.76              | 65.77            | 59.69         | 71.72        | 1,564.07                            | -1,602.09    | 586.51                 | 467.65                  | 118.86                    | 4.934             |
| 8,000.00                   | 5,302.57              | 7,374.90              | 5,118.58              | 68.12            | 62.05         | 71.74        | 1,636.38                            | -1,671.16    | 587.27                 | 463.88                  | 123.40                    | 4.759             |
| 8,100.00                   | 5,303.38              | 7,474.90              | 5,119.40              | 70.48            | 64.43         | 71.77        | 1,708.69                            | -1,740.23    | 588.03                 | 460.08                  | 127.95                    | 4.596             |
| 8,200.00                   | 5,304.20              | 7,574.89              | 5,120.21              | 72.85            | 66.81         | 71.79        | 1,781.00                            | -1,809.29    | 588.79                 | 456.28                  | 132.51                    | 4.443             |
| 8,300.00                   | 5,305.01              | 7,674.89              | 5,121.03              | 75.22            | 69.20         | 71.82        | 1,853.31                            | -1,878.36    | 589.55                 | 452.46                  | 137.10                    | 4.300             |
| 8,400.00                   | 5,305.83              | 7,774.89              | 5,121.85              | 77.60            | 71.60         | 71.84        | 1,925.62                            | -1,947.43    | 590.31                 | 448.62                  | 141.69                    | 4.166             |
| 8,500.00                   | 5,306.64              | 7,874.88              | 5,122.66              | 79.99            | 74.00         | 71.87        | 1,997.93                            | -2,016.49    | 591.07                 | 444.78                  | 146.29                    | 4.040             |
| 8,600.00                   | 5,307.46              | 7,974.88              | 5,123.48              | 82.38            | 76.40         | 71.89        | 2,070.23                            | -2,085.56    | 591.83                 | 440.92                  | 150.91                    | 3.922             |
| 8,700.00                   | 5,308.27              | 8,074.88              | 5,124.29              | 84.77            | 78.81         | 71.92        | 2,142.54                            | -2,154.62    | 592.59                 | 437.06                  | 155.53                    | 3.810             |
| 8,800.00                   | 5,309.09              | 8,174.87              | 5,125.11              | 87.17            | 81.23         | 71.94        | 2,214.85                            | -2,223.69    | 593.35                 | 433.18                  | 160.17                    | 3.705             |
| 8,900.00                   | 5,309.90              | 8,274.87              | 5,125.93              | 89.58            | 83.65         | 71.96        | 2,287.16                            | -2,292.76    | 594.11                 | 429.30                  | 164.81                    | 3.605             |
| 9,000.00                   | 5,310.72              | 8,374.87              | 5,126.74              | 91.99            | 86.07         | 71.99        | 2,359.47                            | -2,361.82    | 594.87                 | 425.41                  | 169.46                    | 3.510             |
| 9,100.00                   | 5,311.53              | 8,474.86              | 5,127.56              | 94.40            | 88.49         | 72.01        | 2,431.78                            | -2,430.89    | 595.63                 | 421.52                  | 174.12                    | 3.421             |
| 9,200.00                   | 5,312.35              | 8,574.86              | 5,128.38              | 96.82            | 90.92         | 72.04        | 2,504.09                            | -2,499.96    | 596.39                 | 417.61                  | 178.78                    | 3.336             |
| 9,300.00                   | 5,313.16              | 8,674.86              | 5,129.19              | 99.23            | 93.35         | 72.06        | 2,576.39                            | -2,569.02    | 597.15                 | 413.70                  | 183.45                    | 3.255             |
| 9,400.00                   | 5,313.98              | 8,774.85              | 5,130.01              | 101.66           | 95.79         | 72.08        | 2,648.70                            | -2,638.09    | 597.91                 | 409.79                  | 188.12                    | 3.178             |
| 9,500.00                   | 5,314.79              | 8,874.85              | 5,130.83              | 104.08           | 98.22         | 72.11        | 2,721.01                            | -2,707.16    | 598.67                 | 405.87                  | 192.81                    | 3.105             |
| 9,600.00                   | 5,315.61              | 8,974.85              | 5,131.64              | 106.51           | 100.66        | 72.13        | 2,793.32                            | -2,776.22    | 599.44                 | 401.94                  | 197.49                    | 3.035             |
| 9,700.00                   | 5,316.42              | 9,074.84              | 5,132.46              | 108.94           | 103.10        | 72.15        | 2,865.63                            | -2,845.29    | 600.20                 | 398.01                  | 202.18                    | 2.969             |
| 9,800.00                   | 5,317.24              | 9,174.84              | 5,133.28              | 111.37           | 105.54        | 72.18        | 2,937.94                            | -2,914.35    | 600.96                 | 394.08                  | 206.88                    | 2.905             |
| 9,900.00                   | 5,318.05              | 9,274.84              | 5,134.09              | 113.80           | 107.98        | 72.20        | 3,010.25                            | -2,983.42    | 601.72                 | 390.14                  | 211.58                    | 2.844             |
| 10,000.00                  | 5,318.87              | 9,374.83              | 5,134.91              | 116.24           | 110.43        | 72.22        | 3,082.55                            | -3,052.49    | 602.48                 | 386.20                  | 216.28                    | 2.786             |
| 10,100.00                  | 5,319.68              | 9,474.83              | 5,135.73              | 118.67           | 112.87        | 72.25        | 3,154.86                            | -3,121.55    | 603.24                 | 382.25                  | 220.99                    | 2.730             |
| 10,200.00                  | 5,320.50              | 9,574.83              | 5,136.54              | 121.11           | 115.32        | 72.27        | 3,227.17                            | -3,190.62    | 604.00                 | 378.30                  | 225.70                    | 2.676             |
| 10,300.00                  | 5,321.31              | 9,674.82              | 5,137.36              | 123.55           | 117.77        | 72.29        | 3,299.48                            | -3,259.69    | 604.77                 | 374.35                  | 230.42                    | 2.625             |
| 10,400.00                  | 5,322.13              | 9,774.82              | 5,138.18              | 125.99           | 120.22        | 72.32        | 3,371.79                            | -3,328.75    | 605.53                 | 370.39                  | 235.14                    | 2.575             |
| 10,500.00                  | 5,322.94              | 9,874.82              | 5,138.99              | 128.44           | 122.67        | 72.34        | 3,444.10                            | -3,397.82    | 606.29                 | 366.43                  | 239.86                    | 2.528             |
| 10,600.00                  | 5,323.76              | 9,974.82              | 5,139.81              | 130.88           | 125.12        | 72.36        | 3,516.41                            | -3,466.89    | 607.05                 | 362.47                  | 244.58                    | 2.482             |
| 10,700.00                  | 5,324.57              | 10,074.81             | 5,140.63              | 133.33           | 127.58        | 72.39        | 3,588.71                            | -3,535.95    | 607.81                 | 358.50                  | 249.31                    | 2.438             |
| 10,800.00                  | 5,325.39              | 10,174.81             | 5,141.44              | 135.77           | 130.03        | 72.41        | 3,661.02                            | -3,605.02    | 608.58                 | 354.53                  | 254.04                    | 2.396             |
| 10,900.00                  | 5,326.20              | 10,274.81             | 5,142.26              | 138.22           | 132.49        | 72.43        | 3,733.33                            | -3,674.08    | 609.34                 | 350.56                  | 258.78                    | 2.355             |
| 11,000.00                  | 5,327.02              | 10,374.80             | 5,143.08              | 140.67           | 134.94        | 72.46        | 3,805.64                            | -3,743.15    | 610.10                 | 346.59                  | 263.51                    | 2.315             |
| 11,100.00                  | 5,327.83              | 10,474.80             | 5,143.89              | 143.12           | 137.40        | 72.48        | 3,877.95                            | -3,812.22    | 610.86                 | 342.61                  | 268.25                    | 2.277             |
| 11,200.00                  | 5,328.65              | 10,574.80             | 5,144.71              | 145.57           | 139.86        | 72.50        | 3,950.26                            | -3,881.28    | 611.62                 | 338.63                  | 273.00                    | 2.240             |
| 11,300.00                  | 5,329.46              | 10,674.79             | 5,145.53              | 148.02           | 142.32        | 72.52        | 4,022.57                            | -3,950.35    | 612.39                 | 334.65                  | 277.74                    | 2.205             |
| 11,400.00                  | 5,330.28              | 10,774.79             | 5,146.34              | 150.48           | 144.78        | 72.55        | 4,094.87                            | -4,019.42    | 613.15                 | 330.66                  | 282.49                    | 2.171             |

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





# Scientific Drilling, Intl

Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 308H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 11,500.00                                               | 5,331.09              | 10,874.79             | 5,147.16              | 152.93           | 147.24        | 72.57                 | 4,167.18                            | -4,088.48    | 613.91                 | 326.68                  | 287.23                    | 2.137             |                    |           |
| 11,600.00                                               | 5,331.91              | 10,974.78             | 5,147.98              | 155.39           | 149.70        | 72.59                 | 4,239.49                            | -4,157.55    | 614.68                 | 322.69                  | 291.99                    | 2.105             |                    |           |
| 11,700.00                                               | 5,332.72              | 11,074.78             | 5,148.79              | 157.84           | 152.16        | 72.61                 | 4,311.80                            | -4,226.62    | 615.44                 | 318.70                  | 296.74                    | 2.074             |                    |           |
| 11,800.00                                               | 5,333.54              | 11,174.78             | 5,149.61              | 160.30           | 154.62        | 72.64                 | 4,384.11                            | -4,295.68    | 616.20                 | 314.71                  | 301.49                    | 2.044             |                    |           |
| 11,900.00                                               | 5,334.35              | 11,274.77             | 5,150.43              | 162.75           | 157.08        | 72.66                 | 4,456.42                            | -4,364.75    | 616.97                 | 310.71                  | 306.25                    | 2.015             |                    |           |
| 12,000.00                                               | 5,335.17              | 11,374.77             | 5,151.24              | 165.21           | 159.55        | 72.68                 | 4,528.73                            | -4,433.81    | 617.73                 | 306.72                  | 311.01                    | 1.986             |                    |           |
| 12,100.00                                               | 5,335.98              | 11,474.77             | 5,152.06              | 167.67           | 162.01        | 72.70                 | 4,601.03                            | -4,502.88    | 618.49                 | 302.72                  | 315.77                    | 1.959             |                    |           |
| 12,200.00                                               | 5,336.80              | 11,574.76             | 5,152.88              | 170.13           | 164.47        | 72.72                 | 4,673.34                            | -4,571.95    | 619.26                 | 298.72                  | 320.53                    | 1.932             |                    |           |
| 12,300.00                                               | 5,337.61              | 11,674.76             | 5,153.69              | 172.59           | 166.94        | 72.75                 | 4,745.65                            | -4,641.01    | 620.02                 | 294.72                  | 325.30                    | 1.906             |                    |           |
| 12,400.00                                               | 5,338.43              | 11,774.76             | 5,154.51              | 175.05           | 169.40        | 72.77                 | 4,817.96                            | -4,710.08    | 620.78                 | 290.72                  | 330.06                    | 1.881             |                    |           |
| 12,500.00                                               | 5,339.24              | 11,874.75             | 5,155.33              | 177.51           | 171.87        | 72.79                 | 4,890.27                            | -4,779.15    | 621.55                 | 286.72                  | 334.83                    | 1.856             |                    |           |
| 12,600.00                                               | 5,340.06              | 11,974.75             | 5,156.14              | 179.97           | 174.33        | 72.81                 | 4,962.58                            | -4,848.21    | 622.31                 | 282.71                  | 339.60                    | 1.832             |                    |           |
| 12,700.00                                               | 5,340.87              | 12,074.75             | 5,156.96              | 182.43           | 176.80        | 72.83                 | 5,034.89                            | -4,917.28    | 623.07                 | 278.70                  | 344.37                    | 1.809             |                    |           |
| 12,800.00                                               | 5,341.69              | 12,174.74             | 5,157.78              | 184.89           | 179.26        | 72.86                 | 5,107.19                            | -4,986.35    | 623.84                 | 274.69                  | 349.15                    | 1.787             |                    |           |
| 12,900.00                                               | 5,342.50              | 12,274.74             | 5,158.59              | 187.35           | 181.73        | 72.88                 | 5,179.50                            | -5,055.41    | 624.60                 | 270.68                  | 353.92                    | 1.765             |                    |           |
| 13,000.00                                               | 5,343.32              | 12,374.74             | 5,159.41              | 189.82           | 184.20        | 72.90                 | 5,251.81                            | -5,124.48    | 625.37                 | 266.67                  | 358.70                    | 1.743             |                    |           |
| 13,100.00                                               | 5,344.13              | 12,474.74             | 5,160.23              | 192.28           | 186.67        | 72.92                 | 5,324.12                            | -5,193.54    | 626.13                 | 262.66                  | 363.47                    | 1.723             |                    |           |
| 13,200.00                                               | 5,344.95              | 12,574.73             | 5,161.04              | 194.74           | 189.13        | 72.94                 | 5,396.43                            | -5,262.61    | 626.90                 | 258.64                  | 368.25                    | 1.702             |                    |           |
| 13,300.00                                               | 5,345.76              | 12,674.73             | 5,161.86              | 197.21           | 191.60        | 72.97                 | 5,468.74                            | -5,331.68    | 627.66                 | 254.63                  | 373.03                    | 1.683             |                    |           |
| 13,400.00                                               | 5,346.58              | 12,774.73             | 5,162.68              | 199.67           | 194.07        | 72.99                 | 5,541.05                            | -5,400.74    | 628.43                 | 250.61                  | 377.81                    | 1.663             |                    |           |
| 13,500.00                                               | 5,347.39              | 12,874.72             | 5,163.49              | 202.14           | 196.54        | 73.01                 | 5,613.35                            | -5,469.81    | 629.19                 | 246.59                  | 382.60                    | 1.645             |                    |           |
| 13,600.00                                               | 5,348.21              | 12,974.72             | 5,164.31              | 204.60           | 199.01        | 73.03                 | 5,685.66                            | -5,538.88    | 629.95                 | 242.57                  | 387.38                    | 1.626             |                    |           |
| 13,700.00                                               | 5,349.02              | 13,074.72             | 5,165.13              | 207.07           | 201.48        | 73.05                 | 5,757.97                            | -5,607.94    | 630.72                 | 238.55                  | 392.17                    | 1.608             |                    |           |
| 13,800.00                                               | 5,349.84              | 13,174.71             | 5,165.94              | 209.53           | 203.94        | 73.07                 | 5,830.28                            | -5,677.01    | 631.48                 | 234.53                  | 396.96                    | 1.591             |                    |           |
| 13,900.00                                               | 5,350.66              | 13,274.71             | 5,166.76              | 212.00           | 206.41        | 73.09                 | 5,902.59                            | -5,746.08    | 632.25                 | 230.51                  | 401.74                    | 1.574             |                    |           |
| 14,000.00                                               | 5,351.47              | 13,374.71             | 5,167.58              | 214.46           | 208.88        | 73.11                 | 5,974.90                            | -5,815.14    | 633.01                 | 226.48                  | 406.53                    | 1.557             |                    |           |
| 14,100.00                                               | 5,352.29              | 13,474.70             | 5,168.39              | 216.93           | 211.35        | 73.14                 | 6,047.21                            | -5,884.21    | 633.78                 | 222.46                  | 411.32                    | 1.541             |                    |           |
| 14,200.00                                               | 5,353.10              | 13,574.70             | 5,169.21              | 219.40           | 213.82        | 73.16                 | 6,119.51                            | -5,953.28    | 634.55                 | 218.43                  | 416.12                    | 1.525             |                    |           |
| 14,300.00                                               | 5,353.92              | 13,674.70             | 5,170.03              | 221.87           | 216.29        | 73.18                 | 6,191.82                            | -6,022.34    | 635.31                 | 214.40                  | 420.91                    | 1.509             |                    |           |
| 14,400.00                                               | 5,354.73              | 13,774.69             | 5,170.84              | 224.33           | 218.77        | 73.20                 | 6,264.13                            | -6,091.41    | 636.08                 | 210.37                  | 425.70                    | 1.494 Level 3     |                    |           |
| 14,500.00                                               | 5,355.55              | 13,874.69             | 5,171.66              | 226.80           | 221.24        | 73.22                 | 6,336.44                            | -6,160.47    | 636.84                 | 206.34                  | 430.50                    | 1.479 Level 3     |                    |           |
| 14,600.00                                               | 5,356.36              | 13,974.69             | 5,172.48              | 229.27           | 223.71        | 73.24                 | 6,408.75                            | -6,229.54    | 637.61                 | 202.31                  | 435.30                    | 1.465 Level 3     |                    |           |
| 14,700.00                                               | 5,357.18              | 14,074.68             | 5,173.29              | 231.74           | 226.18        | 73.26                 | 6,481.06                            | -6,298.61    | 638.37                 | 198.28                  | 440.10                    | 1.451 Level 3     |                    |           |
| 14,800.00                                               | 5,357.99              | 14,174.68             | 5,174.11              | 234.20           | 228.65        | 73.28                 | 6,553.37                            | -6,367.67    | 639.14                 | 194.24                  | 444.89                    | 1.437 Level 3     |                    |           |
| 14,900.00                                               | 5,358.81              | 14,274.68             | 5,174.93              | 236.67           | 231.12        | 73.30                 | 6,625.67                            | -6,436.74    | 639.90                 | 190.21                  | 449.69                    | 1.423 Level 3     |                    |           |
| 15,000.00                                               | 5,359.62              | 14,374.67             | 5,175.74              | 239.14           | 233.59        | 73.32                 | 6,697.98                            | -6,505.81    | 640.67                 | 186.17                  | 454.50                    | 1.410 Level 3     |                    |           |
| 15,100.00                                               | 5,360.44              | 14,474.67             | 5,176.56              | 241.61           | 236.06        | 73.34                 | 6,770.29                            | -6,574.87    | 641.44                 | 182.14                  | 459.30                    | 1.397 Level 3     |                    |           |
| 15,169.25                                               | 5,361.00              | 14,543.92             | 5,177.13              | 243.32           | 237.78        | 73.36                 | 6,820.36                            | -6,622.70    | 641.95                 | 179.32                  | 462.62                    | 1.388 Level 3, SF |                    |           |

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



# Scientific Drilling, Intl

Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 309H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft |
| Reference                                               | Offset                | Semi Major Axis       |                       | Distance         |               | Minimum               |                                     | Separation   |                        | Warning                 |                           |                   |                              |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 0.00                                                    | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -139.06               | -15.29                              | -13.26       | 20.24                  |                         |                           |                   |                              |
| 100.00                                                  | 100.00                | 100.00                | 100.00                | 0.15             | 0.15          | -139.06               | -15.29                              | -13.26       | 20.24                  | 19.93                   | 0.31                      | 65.653            |                              |
| 200.00                                                  | 200.00                | 200.00                | 200.00                | 0.51             | 0.51          | -139.06               | -15.29                              | -13.26       | 20.24                  | 19.21                   | 1.03                      | 19.742            |                              |
| 300.00                                                  | 300.00                | 300.00                | 300.00                | 0.87             | 0.87          | -139.06               | -15.29                              | -13.26       | 20.24                  | 18.50                   | 1.74                      | 11.618            |                              |
| 305.56                                                  | 305.56                | 305.56                | 305.56                | 0.89             | 0.89          | -139.06               | -15.29                              | -13.26       | 20.24                  | 18.46                   | 1.78                      | 11.358 CC         |                              |
| 400.00                                                  | 400.00                | 399.84                | 399.84                | 1.23             | 1.22          | -139.19               | -15.39                              | -13.29       | 20.34                  | 17.88                   | 2.45                      | 8.287 ES          |                              |
| 500.00                                                  | 499.98                | 499.17                | 499.13                | 1.57             | 1.56          | 42.39                 | -17.86                              | -14.04       | 21.42                  | 18.29                   | 3.13                      | 6.851             |                              |
| 600.00                                                  | 599.84                | 598.46                | 598.23                | 1.91             | 1.90          | 44.93                 | -23.63                              | -15.79       | 23.11                  | 19.31                   | 3.80                      | 6.080             |                              |
| 700.00                                                  | 699.45                | 698.16                | 697.54                | 2.27             | 2.26          | 49.93                 | -32.03                              | -18.34       | 24.90                  | 20.40                   | 4.50                      | 5.532             |                              |
| 800.00                                                  | 798.70                | 798.05                | 797.02                | 2.65             | 2.64          | 60.40                 | -40.67                              | -20.96       | 25.15                  | 19.91                   | 5.24                      | 4.796             |                              |
| 852.22                                                  | 850.34                | 850.14                | 848.90                | 2.86             | 2.84          | 68.58                 | -45.17                              | -22.33       | 25.07                  | 19.41                   | 5.66                      | 4.430             |                              |
| 900.00                                                  | 897.47                | 897.75                | 896.32                | 3.05             | 3.02          | 77.78                 | -49.29                              | -23.57       | 25.25                  | 19.20                   | 6.05                      | 4.175             |                              |
| 1,000.00                                                | 995.68                | 997.18                | 995.34                | 3.50             | 3.40          | 100.03                | -57.88                              | -26.18       | 27.93                  | 21.04                   | 6.89                      | 4.053 SF          |                              |
| 1,100.00                                                | 1,093.79              | 1,096.55              | 1,094.30              | 3.96             | 3.79          | 117.34                | -66.48                              | -28.79       | 34.18                  | 26.49                   | 7.69                      | 4.445             |                              |
| 1,200.00                                                | 1,191.90              | 1,195.91              | 1,193.26              | 4.44             | 4.18          | 128.64                | -75.07                              | -31.39       | 42.52                  | 34.07                   | 8.45                      | 5.034             |                              |
| 1,300.00                                                | 1,290.01              | 1,295.28              | 1,292.23              | 4.92             | 4.57          | 136.07                | -83.66                              | -34.00       | 51.95                  | 42.76                   | 9.19                      | 5.653             |                              |
| 1,400.00                                                | 1,388.12              | 1,394.65              | 1,391.19              | 5.41             | 4.96          | 141.16                | -92.25                              | -36.61       | 61.98                  | 52.05                   | 9.93                      | 6.241             |                              |
| 1,500.00                                                | 1,486.22              | 1,494.02              | 1,490.15              | 5.91             | 5.35          | 144.82                | -100.84                             | -39.21       | 72.37                  | 61.69                   | 10.68                     | 6.778             |                              |
| 1,600.00                                                | 1,584.33              | 1,593.39              | 1,589.11              | 6.40             | 5.74          | 147.55                | -109.43                             | -41.82       | 82.97                  | 71.54                   | 11.42                     | 7.264             |                              |
| 1,700.00                                                | 1,682.44              | 1,692.76              | 1,688.08              | 6.91             | 6.13          | 149.66                | -118.02                             | -44.42       | 93.71                  | 81.54                   | 12.17                     | 7.700             |                              |
| 1,800.00                                                | 1,780.55              | 1,792.13              | 1,787.04              | 7.41             | 6.53          | 151.33                | -126.61                             | -47.03       | 104.55                 | 91.63                   | 12.92                     | 8.092             |                              |
| 1,900.00                                                | 1,878.65              | 1,891.50              | 1,886.00              | 7.91             | 6.92          | 152.69                | -135.20                             | -49.64       | 115.47                 | 101.80                  | 13.67                     | 8.445             |                              |
| 2,000.00                                                | 1,976.76              | 1,990.86              | 1,984.96              | 8.42             | 7.32          | 153.81                | -143.79                             | -52.24       | 126.44                 | 112.01                  | 14.43                     | 8.764             |                              |
| 2,100.00                                                | 2,074.87              | 2,090.23              | 2,083.92              | 8.93             | 7.71          | 154.76                | -152.38                             | -54.85       | 137.45                 | 122.27                  | 15.18                     | 9.054             |                              |
| 2,200.00                                                | 2,172.98              | 2,189.60              | 2,182.89              | 9.44             | 8.11          | 155.56                | -160.98                             | -57.45       | 148.49                 | 132.55                  | 15.94                     | 9.317             |                              |
| 2,300.00                                                | 2,271.09              | 2,288.97              | 2,281.85              | 9.95             | 8.50          | 156.25                | -169.57                             | -60.06       | 159.55                 | 142.86                  | 16.69                     | 9.558             |                              |
| 2,400.00                                                | 2,369.19              | 2,388.34              | 2,380.81              | 10.46            | 8.90          | 156.86                | -178.16                             | -62.66       | 170.64                 | 153.19                  | 17.45                     | 9.779             |                              |
| 2,500.00                                                | 2,467.30              | 2,487.71              | 2,479.77              | 10.97            | 9.29          | 157.39                | -186.75                             | -65.27       | 181.74                 | 163.53                  | 18.21                     | 9.981             |                              |
| 2,600.00                                                | 2,565.41              | 2,587.08              | 2,578.74              | 11.48            | 9.69          | 157.85                | -195.34                             | -67.88       | 192.86                 | 173.89                  | 18.97                     | 10.168            |                              |
| 2,700.00                                                | 2,663.52              | 2,686.44              | 2,677.70              | 11.99            | 10.09         | 158.27                | -203.93                             | -70.48       | 203.98                 | 184.26                  | 19.73                     | 10.341            |                              |
| 2,800.00                                                | 2,761.62              | 2,785.81              | 2,776.66              | 12.51            | 10.48         | 158.65                | -212.52                             | -73.09       | 215.12                 | 194.64                  | 20.49                     | 10.501            |                              |
| 2,900.00                                                | 2,859.73              | 2,885.18              | 2,875.62              | 13.02            | 10.88         | 158.98                | -221.11                             | -75.69       | 226.27                 | 205.02                  | 21.24                     | 10.650            |                              |
| 3,000.00                                                | 2,957.84              | 2,984.55              | 2,974.59              | 13.53            | 11.27         | 159.29                | -229.70                             | -78.30       | 237.42                 | 215.41                  | 22.00                     | 10.789            |                              |
| 3,100.00                                                | 3,055.95              | 3,083.92              | 3,073.55              | 14.05            | 11.67         | 159.57                | -238.29                             | -80.91       | 248.58                 | 225.81                  | 22.77                     | 10.919            |                              |
| 3,200.00                                                | 3,154.06              | 3,183.29              | 3,172.51              | 14.56            | 12.07         | 159.82                | -246.88                             | -83.51       | 259.74                 | 236.21                  | 23.53                     | 11.041            |                              |
| 3,300.00                                                | 3,252.16              | 3,282.66              | 3,271.47              | 15.07            | 12.46         | 160.05                | -255.48                             | -86.12       | 270.91                 | 246.62                  | 24.29                     | 11.154            |                              |
| 3,400.00                                                | 3,350.27              | 3,382.03              | 3,370.43              | 15.59            | 12.86         | 160.27                | -264.07                             | -88.72       | 282.08                 | 257.03                  | 25.05                     | 11.262            |                              |
| 3,500.00                                                | 3,448.38              | 3,481.39              | 3,469.40              | 16.10            | 13.26         | 160.47                | -272.66                             | -91.33       | 293.25                 | 267.44                  | 25.81                     | 11.362            |                              |
| 3,600.00                                                | 3,546.49              | 3,580.76              | 3,568.36              | 16.62            | 13.65         | 160.65                | -281.25                             | -93.94       | 304.43                 | 277.86                  | 26.57                     | 11.457            |                              |
| 3,700.00                                                | 3,644.60              | 3,680.13              | 3,667.32              | 17.13            | 14.05         | 160.82                | -289.84                             | -96.54       | 315.61                 | 288.28                  | 27.33                     | 11.547            |                              |
| 3,800.00                                                | 3,742.70              | 3,779.50              | 3,766.28              | 17.65            | 14.45         | 160.98                | -298.43                             | -99.15       | 326.80                 | 298.70                  | 28.09                     | 11.632            |                              |
| 3,900.00                                                | 3,840.81              | 3,878.87              | 3,865.25              | 18.16            | 14.84         | 161.13                | -307.02                             | -101.75      | 337.98                 | 309.13                  | 28.86                     | 11.713            |                              |
| 4,000.00                                                | 3,938.92              | 3,978.24              | 3,964.21              | 18.68            | 15.24         | 161.27                | -315.61                             | -104.36      | 349.17                 | 319.55                  | 29.62                     | 11.789            |                              |
| 4,100.00                                                | 4,037.03              | 4,077.61              | 4,063.17              | 19.19            | 15.64         | 161.40                | -324.20                             | -106.96      | 360.36                 | 329.98                  | 30.38                     | 11.862            |                              |
| 4,200.00                                                | 4,135.13              | 4,176.97              | 4,162.13              | 19.71            | 16.03         | 161.52                | -332.79                             | -109.57      | 371.55                 | 340.41                  | 31.14                     | 11.931            |                              |
| 4,300.00                                                | 4,233.24              | 4,276.34              | 4,261.10              | 20.22            | 16.43         | 161.64                | -341.39                             | -112.18      | 382.75                 | 350.84                  | 31.91                     | 11.996            |                              |
| 4,400.00                                                | 4,331.35              | 4,375.71              | 4,360.06              | 20.74            | 16.83         | 161.75                | -349.98                             | -114.78      | 393.94                 | 361.28                  | 32.67                     | 12.059            |                              |
| 4,500.00                                                | 4,429.46              | 4,475.08              | 4,459.02              | 21.25            | 17.22         | 161.85                | -358.57                             | -117.39      | 405.14                 | 371.71                  | 33.43                     | 12.119            |                              |
| 4,600.00                                                | 4,527.57              | 4,574.45              | 4,557.98              | 21.77            | 17.62         | 161.95                | -367.16                             | -119.99      | 416.34                 | 382.14                  | 34.19                     | 12.176            |                              |
| 4,700.00                                                | 4,625.68              | 4,674.02              | 4,657.15              | 22.28            | 18.02         | 162.05                | -375.77                             | -122.61      | 427.54                 | 393.55                  | 34.94                     | 12.234            |                              |
| 4,800.00                                                | 4,723.79              | 4,772.53              | 4,755.26              | 22.79            | 18.42         | 162.15                | -384.38                             | -125.22      | 438.74                 | 404.95                  | 35.69                     | 12.292            |                              |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 309H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |         | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |         | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     |              |                        |                         |                           |                   |         |                    |           |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |                    |           |
| 4,900.00                                                | 4,822.14              | 5,049.60              | 5,008.15              | 22.79            | 19.85         | 72.61                 | -477.09                             | -62.73       | 356.60                 | 323.08                  | 33.52                     | 10.639            |         |                    |           |
| 5,000.00                                                | 4,915.16              | 5,136.15              | 5,075.39              | 22.87            | 20.40         | 84.68                 | -519.57                             | -28.74       | 291.79                 | 258.30                  | 33.50                     | 8.711             |         |                    |           |
| 5,100.00                                                | 5,001.72              | 5,174.55              | 5,102.73              | 22.85            | 20.68         | 95.95                 | -540.30                             | -11.55       | 234.87                 | 198.82                  | 36.05                     | 6.515             |         |                    |           |
| 5,200.00                                                | 5,079.69              | 5,184.91              | 5,109.84              | 22.76            | 20.76         | 98.94                 | -546.09                             | -6.69        | 207.81                 | 168.19                  | 39.62                     | 5.245             |         |                    |           |
| 5,211.27                                                | 5,087.85              | 5,184.88              | 5,109.82              | 22.74            | 20.76         | 98.75                 | -546.07                             | -6.71        | 207.51                 | 167.61                  | 39.89                     | 5.202             |         |                    |           |
| 5,300.00                                                | 5,147.16              | 5,178.51              | 5,105.46              | 22.61            | 20.71         | 94.04                 | -542.51                             | -9.70        | 225.32                 | 185.03                  | 40.29                     | 5.592             |         |                    |           |
| 5,400.00                                                | 5,202.46              | 5,161.54              | 5,093.65              | 22.44            | 20.58         | 83.07                 | -533.16                             | -17.51       | 277.96                 | 239.20                  | 38.76                     | 7.171             |         |                    |           |
| 5,500.00                                                | 5,244.24              | 5,137.59              | 5,076.44              | 22.25            | 20.41         | 68.97                 | -520.33                             | -28.12       | 347.49                 | 310.03                  | 37.46                     | 9.275             |         |                    |           |
| 5,600.00                                                | 5,271.45              | 5,099.99              | 5,048.19              | 22.07            | 20.16         | 54.24                 | -501.07                             | -43.77       | 422.72                 | 386.25                  | 36.47                     | 11.591            |         |                    |           |
| 5,700.00                                                | 5,283.44              | 5,076.66              | 5,029.95              | 22.05            | 20.01         | 44.81                 | -489.70                             | -52.84       | 497.57                 | 460.71                  | 36.86                     | 13.500            |         |                    |           |
| 5,800.00                                                | 5,284.64              | 5,049.99              | 5,008.47              | 22.98            | 19.85         | 41.35                 | -477.26                             | -62.59       | 572.26                 | 534.97                  | 37.28                     | 15.348            |         |                    |           |
| 5,900.00                                                | 5,285.45              | 5,015.68              | 4,979.91              | 24.28            | 19.65         | 38.78                 | -462.18                             | -74.13       | 650.87                 | 613.49                  | 37.38                     | 17.414            |         |                    |           |
| 6,000.00                                                | 5,286.27              | 4,999.99              | 4,966.51              | 25.74            | 19.56         | 37.69                 | -455.63                             | -79.03       | 732.97                 | 695.11                  | 37.87                     | 19.357            |         |                    |           |
| 6,100.00                                                | 5,287.08              | 4,969.16              | 4,939.64              | 27.34            | 19.39         | 35.66                 | -443.44                             | -87.94       | 817.47                 | 779.56                  | 37.91                     | 21.561            |         |                    |           |
| 6,200.00                                                | 5,287.90              | 4,949.99              | 4,922.58              | 29.05            | 19.29         | 34.49                 | -436.32                             | -93.00       | 904.20                 | 866.05                  | 38.14                     | 23.705            |         |                    |           |
| 6,300.00                                                | 5,288.71              | 4,932.94              | 4,907.18              | 30.86            | 19.20         | 33.50                 | -430.28                             | -97.18       | 992.64                 | 954.29                  | 38.34                     | 25.888            |         |                    |           |
| 6,400.00                                                | 5,289.53              | 4,917.74              | 4,893.31              | 32.74            | 19.12         | 32.66                 | -425.14                             | -100.65      | 1,082.49               | 1,043.97                | 38.52                     | 28.103            |         |                    |           |
| 6,500.00                                                | 5,290.34              | 4,899.99              | 4,876.93              | 34.70            | 19.03         | 31.72                 | -419.43                             | -104.40      | 1,173.53               | 1,134.91                | 38.62                     | 30.385            |         |                    |           |
| 6,600.00                                                | 5,291.16              | 4,899.99              | 4,876.93              | 36.72            | 19.03         | 31.72                 | -419.43                             | -104.40      | 1,265.59               | 1,226.71                | 38.88                     | 32.550            |         |                    |           |
| 6,700.00                                                | 5,291.97              | 4,880.71              | 4,858.93              | 38.78            | 18.93         | 30.76                 | -413.60                             | -108.10      | 1,358.35               | 1,319.44                | 38.92                     | 34.905            |         |                    |           |
| 6,800.00                                                | 5,292.79              | 4,870.60              | 4,849.42              | 40.89            | 18.88         | 30.27                 | -410.69                             | -109.88      | 1,451.90               | 1,412.89                | 39.02                     | 37.213            |         |                    |           |
| 6,900.00                                                | 5,293.60              | 4,849.99              | 4,829.86              | 43.04            | 18.78         | 29.33                 | -405.09                             | -113.18      | 1,546.21               | 1,507.19                | 39.02                     | 39.626            |         |                    |           |
| 7,000.00                                                | 5,294.42              | 4,849.99              | 4,829.86              | 45.22            | 18.78         | 29.33                 | -405.09                             | -113.18      | 1,640.76               | 1,601.60                | 39.16                     | 41.896            |         |                    |           |
| 7,100.00                                                | 5,295.23              | 4,849.99              | 4,829.86              | 47.43            | 18.78         | 29.33                 | -405.09                             | -113.18      | 1,735.93               | 1,696.65                | 39.28                     | 44.190            |         |                    |           |
| 7,200.00                                                | 5,296.05              | 4,849.99              | 4,829.86              | 49.66            | 18.78         | 29.33                 | -405.09                             | -113.18      | 1,831.61               | 1,792.23                | 39.38                     | 46.505            |         |                    |           |
| 7,300.00                                                | 5,296.86              | 4,849.99              | 4,829.86              | 51.92            | 18.78         | 29.33                 | -405.09                             | -113.18      | 1,927.73               | 1,888.26                | 39.47                     | 48.838            |         |                    |           |
| 7,400.00                                                | 5,297.68              | 4,825.30              | 4,806.17              | 54.19            | 18.67         | 28.26                 | -398.96                             | -116.52      | 2,023.60               | 1,984.17                | 39.43                     | 51.323            |         |                    |           |
| 7,500.00                                                | 5,298.49              | 4,819.60              | 4,800.67              | 56.48            | 18.64         | 28.03                 | -397.64                             | -117.20      | 2,120.11               | 2,080.63                | 39.48                     | 53.704            |         |                    |           |
| 7,600.00                                                | 5,299.31              | 4,799.99              | 4,781.65              | 58.79            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,217.08               | 2,177.61                | 39.46                     | 56.183            |         |                    |           |
| 7,700.00                                                | 5,300.12              | 4,799.99              | 4,781.65              | 61.10            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,313.94               | 2,274.41                | 39.53                     | 58.538            |         |                    |           |
| 7,800.00                                                | 5,300.94              | 4,799.99              | 4,781.65              | 63.43            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,411.06               | 2,371.47                | 39.59                     | 60.901            |         |                    |           |
| 7,900.00                                                | 5,301.75              | 4,799.99              | 4,781.65              | 65.77            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,508.41               | 2,468.76                | 39.65                     | 63.271            |         |                    |           |
| 8,000.00                                                | 5,302.57              | 4,799.99              | 4,781.65              | 68.12            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,605.96               | 2,566.26                | 39.70                     | 65.646            |         |                    |           |
| 8,100.00                                                | 5,303.38              | 4,799.99              | 4,781.65              | 70.48            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,703.68               | 2,663.94                | 39.75                     | 68.025            |         |                    |           |
| 8,200.00                                                | 5,304.20              | 4,799.99              | 4,781.65              | 72.85            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,801.57               | 2,761.78                | 39.79                     | 70.406            |         |                    |           |
| 8,300.00                                                | 5,305.01              | 4,799.99              | 4,781.65              | 75.22            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,899.60               | 2,859.77                | 39.84                     | 72.790            |         |                    |           |
| 8,400.00                                                | 5,305.83              | 4,799.99              | 4,781.65              | 77.60            | 18.55         | 27.25                 | -393.36                             | -119.26      | 2,997.77               | 2,957.89                | 39.88                     | 75.175            |         |                    |           |
| 8,500.00                                                | 5,306.64              | 4,779.08              | 4,761.22              | 79.99            | 18.46         | 26.47                 | -389.26                             | -121.00      | 3,095.63               | 3,055.77                | 39.86                     | 77.663            |         |                    |           |
| 8,600.00                                                | 5,307.46              | 4,776.17              | 4,758.37              | 82.38            | 18.45         | 26.37                 | -388.73                             | -121.20      | 3,193.90               | 3,154.01                | 39.89                     | 80.061            |         |                    |           |
| 8,700.00                                                | 5,308.27              | 4,773.41              | 4,755.66              | 84.77            | 18.43         | 26.27                 | -388.23                             | -121.39      | 3,292.26               | 3,252.33                | 39.93                     | 82.457            |         |                    |           |
| 8,800.00                                                | 5,309.09              | 4,749.99              | 4,732.59              | 87.17            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,391.10               | 3,351.19                | 39.91                     | 84.972            |         |                    |           |
| 8,900.00                                                | 5,309.90              | 4,749.99              | 4,732.59              | 89.58            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,489.52               | 3,449.57                | 39.95                     | 87.348            |         |                    |           |
| 9,000.00                                                | 5,310.72              | 4,749.99              | 4,732.59              | 91.99            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,588.03               | 3,548.04                | 39.99                     | 89.722            |         |                    |           |
| 9,100.00                                                | 5,311.53              | 4,749.99              | 4,732.59              | 94.40            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,686.62               | 3,646.59                | 40.03                     | 92.095            |         |                    |           |
| 9,200.00                                                | 5,312.35              | 4,749.99              | 4,732.59              | 96.82            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,785.29               | 3,745.22                | 40.07                     | 94.465            |         |                    |           |
| 9,300.00                                                | 5,313.16              | 4,749.99              | 4,732.59              | 99.23            | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,884.02               | 3,843.91                | 40.11                     | 96.833            |         |                    |           |
| 9,400.00                                                | 5,313.98              | 4,749.99              | 4,732.59              | 101.66           | 18.33         | 25.46                 | -384.34                             | -122.62      | 3,982.82               | 3,942.67                | 40.15                     | 99.197            |         |                    |           |
| 9,500.00                                                | 5,314.79              | 4,749.99              | 4,732.59              | 104.08           | 18.33         | 25.46                 | -384.34                             | -122.62      | 4,081.67               | 4,041.48                | 40.19                     | 101.558           |         |                    |           |
| 9,600.00                                                | 5,315.61              | 4,749.99              | 4,732.59              | 106.51           | 18.33         | 25.46                 | -384.34                             | -122.62      | 4,180.58               | 4,140.35                | 40.23                     | 103.916           |         |                    |           |
| 9,700.00                                                | 5,316.42              | 4,749.99              | 4,732.59              | 108.94           | 18.33         | 25.46                 | -384.34                             | -122.62      | 4,279.54               | 4,239.27                | 40.27                     | 106.269           |         |                    |           |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 309H - Original Drilling - APD |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: | 0.00 usft |
| Reference                                               |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toofface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning            |           |
| Measured<br>Depth<br>(usft)                             | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                    |           |
| 9,800.00                                                | 5,317.24                    | 4,749.99                    | 4,732.59                    | 111.37              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,378.55                     | 4,338.24                      | 40.31                           | 108.618              |                    |           |
| 9,900.00                                                | 5,318.05                    | 4,749.99                    | 4,732.59                    | 113.80              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,477.60                     | 4,437.25                      | 40.35                           | 110.963              |                    |           |
| 10,000.00                                               | 5,318.87                    | 4,749.99                    | 4,732.59                    | 116.24              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,576.69                     | 4,536.30                      | 40.39                           | 113.302              |                    |           |
| 10,100.00                                               | 5,319.68                    | 4,749.99                    | 4,732.59                    | 118.67              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,675.82                     | 4,635.39                      | 40.44                           | 115.637              |                    |           |
| 10,200.00                                               | 5,320.50                    | 4,749.99                    | 4,732.59                    | 121.11              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,774.99                     | 4,734.51                      | 40.48                           | 117.967              |                    |           |
| 10,300.00                                               | 5,321.31                    | 4,749.99                    | 4,732.59                    | 123.55              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,874.19                     | 4,833.67                      | 40.52                           | 120.291              |                    |           |
| 10,400.00                                               | 5,322.13                    | 4,749.99                    | 4,732.59                    | 125.99              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 4,973.43                     | 4,932.86                      | 40.56                           | 122.609              |                    |           |
| 10,500.00                                               | 5,322.94                    | 4,749.99                    | 4,732.59                    | 128.44              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,072.69                     | 5,032.08                      | 40.61                           | 124.922              |                    |           |
| 10,600.00                                               | 5,323.76                    | 4,749.99                    | 4,732.59                    | 130.88              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,171.98                     | 5,131.33                      | 40.65                           | 127.228              |                    |           |
| 10,700.00                                               | 5,324.57                    | 4,749.99                    | 4,732.59                    | 133.33              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,271.30                     | 5,230.61                      | 40.70                           | 129.529              |                    |           |
| 10,800.00                                               | 5,325.39                    | 4,749.99                    | 4,732.59                    | 135.77              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,370.65                     | 5,329.90                      | 40.74                           | 131.823              |                    |           |
| 10,900.00                                               | 5,326.20                    | 4,749.99                    | 4,732.59                    | 138.22              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,470.01                     | 5,429.23                      | 40.79                           | 134.110              |                    |           |
| 11,000.00                                               | 5,327.02                    | 4,749.99                    | 4,732.59                    | 140.67              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,569.40                     | 5,528.57                      | 40.83                           | 136.391              |                    |           |
| 11,100.00                                               | 5,327.83                    | 4,749.99                    | 4,732.59                    | 143.12              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,668.82                     | 5,627.94                      | 40.88                           | 138.665              |                    |           |
| 11,200.00                                               | 5,328.65                    | 4,749.99                    | 4,732.59                    | 145.57              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,768.25                     | 5,727.32                      | 40.93                           | 140.932              |                    |           |
| 11,300.00                                               | 5,329.46                    | 4,749.99                    | 4,732.59                    | 148.02              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,867.70                     | 5,826.72                      | 40.98                           | 143.192              |                    |           |
| 11,400.00                                               | 5,330.28                    | 4,749.99                    | 4,732.59                    | 150.48              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 5,967.17                     | 5,926.14                      | 41.03                           | 145.445              |                    |           |
| 11,500.00                                               | 5,331.09                    | 4,749.99                    | 4,732.59                    | 152.93              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 6,066.66                     | 6,025.58                      | 41.08                           | 147.690              |                    |           |
| 11,600.00                                               | 5,331.91                    | 4,749.99                    | 4,732.59                    | 155.39              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 6,166.16                     | 6,125.04                      | 41.13                           | 149.928              |                    |           |
| 11,700.00                                               | 5,332.72                    | 4,749.99                    | 4,732.59                    | 157.84              | 18.33            | 25.46                       | -384.34                                   | -122.62         | 6,265.68                     | 6,224.50                      | 41.18                           | 152.159              |                    |           |
| 11,800.00                                               | 5,333.54                    | 4,726.58                    | 4,709.43                    | 160.30              | 18.23            | 24.70                       | -381.06                                   | -123.25         | 6,364.74                     | 6,323.55                      | 41.19                           | 154.515              |                    |           |
| 11,900.00                                               | 5,334.35                    | 4,725.75                    | 4,708.60                    | 162.75              | 18.23            | 24.68                       | -380.95                                   | -123.26         | 6,464.26                     | 6,423.02                      | 41.24                           | 156.736              |                    |           |
| 12,000.00                                               | 5,335.17                    | 4,724.94                    | 4,707.80                    | 165.21              | 18.23            | 24.65                       | -380.85                                   | -123.27         | 6,563.79                     | 6,522.49                      | 41.29                           | 158.949              |                    |           |
| 12,100.00                                               | 5,335.98                    | 4,724.15                    | 4,707.01                    | 167.67              | 18.22            | 24.63                       | -380.75                                   | -123.28         | 6,663.33                     | 6,621.98                      | 41.35                           | 161.154              |                    |           |
| 12,200.00                                               | 5,336.80                    | 4,723.38                    | 4,706.25                    | 170.13              | 18.22            | 24.60                       | -380.66                                   | -123.29         | 6,762.89                     | 6,721.48                      | 41.40                           | 163.351              |                    |           |
| 12,300.00                                               | 5,337.61                    | 4,699.99                    | 4,683.01                    | 172.59              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 6,862.89                     | 6,821.47                      | 41.42                           | 165.694              |                    |           |
| 12,400.00                                               | 5,338.43                    | 4,699.99                    | 4,683.01                    | 175.05              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 6,962.44                     | 6,920.97                      | 41.48                           | 167.871              |                    |           |
| 12,500.00                                               | 5,339.24                    | 4,699.99                    | 4,683.01                    | 177.51              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,062.00                     | 7,020.47                      | 41.53                           | 170.039              |                    |           |
| 12,600.00                                               | 5,340.06                    | 4,699.99                    | 4,683.01                    | 179.97              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,161.58                     | 7,119.99                      | 41.59                           | 172.200              |                    |           |
| 12,700.00                                               | 5,340.87                    | 4,699.99                    | 4,683.01                    | 182.43              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,261.17                     | 7,219.52                      | 41.65                           | 174.352              |                    |           |
| 12,800.00                                               | 5,341.69                    | 4,699.99                    | 4,683.01                    | 184.89              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,360.76                     | 7,319.06                      | 41.71                           | 176.495              |                    |           |
| 12,900.00                                               | 5,342.50                    | 4,699.99                    | 4,683.01                    | 187.35              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,460.37                     | 7,418.61                      | 41.76                           | 178.631              |                    |           |
| 13,000.00                                               | 5,343.32                    | 4,699.99                    | 4,683.01                    | 189.82              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,559.99                     | 7,518.17                      | 41.82                           | 180.757              |                    |           |
| 13,100.00                                               | 5,344.13                    | 4,699.99                    | 4,683.01                    | 192.28              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,659.62                     | 7,617.74                      | 41.88                           | 182.875              |                    |           |
| 13,200.00                                               | 5,344.95                    | 4,699.99                    | 4,683.01                    | 194.74              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,759.26                     | 7,717.31                      | 41.95                           | 184.985              |                    |           |
| 13,300.00                                               | 5,345.76                    | 4,699.99                    | 4,683.01                    | 197.21              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,858.91                     | 7,816.90                      | 42.01                           | 187.085              |                    |           |
| 13,400.00                                               | 5,346.58                    | 4,699.99                    | 4,683.01                    | 199.67              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 7,958.56                     | 7,916.49                      | 42.07                           | 189.177              |                    |           |
| 13,500.00                                               | 5,347.39                    | 4,699.99                    | 4,683.01                    | 202.14              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,058.23                     | 8,016.09                      | 42.13                           | 191.260              |                    |           |
| 13,600.00                                               | 5,348.21                    | 4,699.99                    | 4,683.01                    | 204.60              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,157.90                     | 8,115.70                      | 42.20                           | 193.334              |                    |           |
| 13,700.00                                               | 5,349.02                    | 4,699.99                    | 4,683.01                    | 207.07              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,257.58                     | 8,215.32                      | 42.26                           | 195.399              |                    |           |
| 13,800.00                                               | 5,349.84                    | 4,699.99                    | 4,683.01                    | 209.53              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,357.27                     | 8,314.94                      | 42.32                           | 197.455              |                    |           |
| 13,900.00                                               | 5,350.66                    | 4,699.99                    | 4,683.01                    | 212.00              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,456.96                     | 8,414.57                      | 42.39                           | 199.503              |                    |           |
| 14,000.00                                               | 5,351.47                    | 4,699.99                    | 4,683.01                    | 214.46              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,556.67                     | 8,514.21                      | 42.46                           | 201.541              |                    |           |
| 14,100.00                                               | 5,352.29                    | 4,699.99                    | 4,683.01                    | 216.93              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,656.38                     | 8,613.85                      | 42.52                           | 203.570              |                    |           |
| 14,200.00                                               | 5,353.10                    | 4,699.99                    | 4,683.01                    | 219.40              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,756.09                     | 8,713.50                      | 42.59                           | 205.590              |                    |           |
| 14,300.00                                               | 5,353.92                    | 4,699.99                    | 4,683.01                    | 221.87              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,855.82                     | 8,813.16                      | 42.66                           | 207.601              |                    |           |
| 14,400.00                                               | 5,354.73                    | 4,699.99                    | 4,683.01                    | 224.33              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 8,955.55                     | 8,912.82                      | 42.73                           | 209.602              |                    |           |
| 14,500.00                                               | 5,355.55                    | 4,699.99                    | 4,683.01                    | 226.80              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 9,055.28                     | 9,012.49                      | 42.80                           | 211.595              |                    |           |
| 14,600.00                                               | 5,356.36                    | 4,699.99                    | 4,683.01                    | 229.27              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 9,155.02                     | 9,112.16                      | 42.87                           | 213.578              |                    |           |
| 14,700.00                                               | 5,357.18                    | 4,699.99                    | 4,683.01                    | 231.74              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 9,254.77                     | 9,211.83                      | 42.94                           | 215.552              |                    |           |
| 14,800.00                                               | 5,357.99                    | 4,699.99                    | 4,683.01                    | 234.20              | 18.12            | 23.90                       | -378.07                                   | -123.23         | 9,354.52                     | 9,311.51                      | 43.01                           | 217.516              |                    |           |

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





**Scientific Drilling, Intl**  
Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 309H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                              |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                      |
| 14,900.00                                               | 5,358.81              | 4,699.99              | 4,683.01              | 236.67           | 18.12         | 23.90                 | -378.07                             | -123.23      | 9,454.28               | 9,411.20                | 43.08                     | 219.472           |                              |
| 15,000.00                                               | 5,359.62              | 4,699.99              | 4,683.01              | 239.14           | 18.12         | 23.90                 | -378.07                             | -123.23      | 9,554.04               | 9,510.89                | 43.15                     | 221.418           |                              |
| 15,100.00                                               | 5,360.44              | 4,699.99              | 4,683.01              | 241.61           | 18.12         | 23.90                 | -378.07                             | -123.23      | 9,653.81               | 9,610.58                | 43.22                     | 223.355           |                              |
| 15,169.25                                               | 5,361.00              | 4,699.99              | 4,683.01              | 243.32           | 18.12         | 23.90                 | -378.07                             | -123.23      | 9,722.89               | 9,679.62                | 43.27                     | 224.690           |                              |

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



# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 313H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |  | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   |  | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     | Warning      |                        |                         |                           |                   |  |                    |           |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |  |                    |           |
| 0.00                                                    | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 41.86                 | 44.41                               | 39.79        | 59.63                  |                         |                           |                   |  |                    |           |
| 100.00                                                  | 100.00                | 100.00                | 100.00                | 0.15             | 0.15          | 41.86                 | 44.41                               | 39.79        | 59.63                  | 59.32                   | 0.31                      | 193.425           |  |                    |           |
| 200.00                                                  | 200.00                | 200.00                | 200.00                | 0.51             | 0.51          | 41.86                 | 44.41                               | 39.79        | 59.63                  | 58.61                   | 1.03                      | 58.163            |  |                    |           |
| 300.00                                                  | 300.00                | 300.00                | 300.00                | 0.87             | 0.87          | 41.86                 | 44.41                               | 39.79        | 59.63                  | 57.89                   | 1.74                      | 34.228            |  |                    |           |
| 305.56                                                  | 305.56                | 305.56                | 305.56                | 0.89             | 0.89          | 41.86                 | 44.41                               | 39.79        | 59.63                  | 57.85                   | 1.78                      | 33.462 CC         |  |                    |           |
| 400.00                                                  | 400.00                | 399.58                | 399.58                | 1.23             | 1.23          | 41.80                 | 44.51                               | 39.81        | 59.72                  | 57.26                   | 2.46                      | 24.298 ES         |  |                    |           |
| 500.00                                                  | 499.98                | 497.76                | 497.72                | 1.57             | 1.58          | -139.27               | 47.02                               | 40.07        | 63.13                  | 59.98                   | 3.15                      | 20.013            |  |                    |           |
| 600.00                                                  | 599.84                | 595.15                | 594.93                | 1.91             | 1.94          | -144.37               | 52.82                               | 40.67        | 72.39                  | 68.55                   | 3.85                      | 18.808 SF         |  |                    |           |
| 700.00                                                  | 699.45                | 691.09                | 690.45                | 2.27             | 2.29          | -150.22               | 61.74                               | 41.60        | 88.19                  | 83.64                   | 4.55                      | 19.386            |  |                    |           |
| 800.00                                                  | 798.70                | 784.94                | 783.54                | 2.65             | 2.66          | -155.45               | 73.53                               | 42.83        | 110.88                 | 105.64                  | 5.24                      | 21.147            |  |                    |           |
| 900.00                                                  | 897.47                | 876.12                | 873.57                | 3.05             | 3.03          | -159.57               | 87.89                               | 44.33        | 140.42                 | 134.49                  | 5.92                      | 23.706            |  |                    |           |
| 1,000.00                                                | 995.68                | 964.26                | 960.11                | 3.50             | 3.43          | -162.73               | 104.47                              | 46.06        | 176.26                 | 169.68                  | 6.59                      | 26.762            |  |                    |           |
| 1,100.00                                                | 1,093.79              | 1,051.12              | 1,044.87              | 3.96             | 3.83          | -165.08               | 123.35                              | 48.03        | 215.75                 | 208.53                  | 7.22                      | 29.877            |  |                    |           |
| 1,200.00                                                | 1,191.90              | 1,142.25              | 1,133.60              | 4.44             | 4.28          | -166.82               | 144.04                              | 50.19        | 256.40                 | 248.51                  | 7.89                      | 32.510            |  |                    |           |
| 1,300.00                                                | 1,290.01              | 1,233.39              | 1,222.33              | 4.92             | 4.75          | -168.08               | 164.73                              | 52.35        | 297.18                 | 288.61                  | 8.57                      | 34.672            |  |                    |           |
| 1,400.00                                                | 1,388.12              | 1,324.52              | 1,311.06              | 5.41             | 5.22          | -169.04               | 185.42                              | 54.51        | 338.06                 | 328.80                  | 9.26                      | 36.526            |  |                    |           |
| 1,500.00                                                | 1,486.22              | 1,415.66              | 1,399.79              | 5.91             | 5.69          | -169.79               | 206.10                              | 56.66        | 379.00                 | 369.06                  | 9.94                      | 38.118            |  |                    |           |
| 1,600.00                                                | 1,584.33              | 1,506.79              | 1,488.52              | 6.40             | 6.17          | -170.40               | 226.79                              | 58.82        | 419.98                 | 409.35                  | 10.63                     | 39.496            |  |                    |           |
| 1,700.00                                                | 1,682.44              | 1,597.93              | 1,577.25              | 6.91             | 6.66          | -170.90               | 247.48                              | 60.98        | 461.00                 | 449.67                  | 11.33                     | 40.699            |  |                    |           |
| 1,800.00                                                | 1,780.55              | 1,689.06              | 1,665.97              | 7.41             | 7.14          | -171.31               | 268.17                              | 63.14        | 502.04                 | 490.02                  | 12.02                     | 41.757            |  |                    |           |
| 1,900.00                                                | 1,878.65              | 1,780.20              | 1,754.70              | 7.91             | 7.63          | -171.67               | 288.86                              | 65.30        | 543.10                 | 530.38                  | 12.72                     | 42.694            |  |                    |           |
| 2,000.00                                                | 1,976.76              | 1,871.33              | 1,843.43              | 8.42             | 8.12          | -171.97               | 309.54                              | 67.46        | 584.17                 | 570.75                  | 13.42                     | 43.530            |  |                    |           |
| 2,100.00                                                | 2,074.87              | 1,962.47              | 1,932.16              | 8.93             | 8.62          | -172.23               | 330.23                              | 69.62        | 625.26                 | 611.14                  | 14.12                     | 44.279            |  |                    |           |
| 2,200.00                                                | 2,172.98              | 2,053.60              | 2,020.89              | 9.44             | 9.11          | -172.47               | 350.92                              | 71.77        | 666.35                 | 651.53                  | 14.82                     | 44.954            |  |                    |           |
| 2,300.00                                                | 2,271.09              | 2,144.73              | 2,109.62              | 9.95             | 9.61          | -172.67               | 371.61                              | 73.93        | 707.45                 | 691.93                  | 15.53                     | 45.566            |  |                    |           |
| 2,400.00                                                | 2,369.19              | 2,235.87              | 2,198.35              | 10.46            | 10.10         | -172.85               | 392.30                              | 76.09        | 748.56                 | 732.33                  | 16.23                     | 46.122            |  |                    |           |
| 2,500.00                                                | 2,467.30              | 2,327.00              | 2,287.08              | 10.97            | 10.60         | -173.02               | 412.99                              | 78.25        | 789.68                 | 772.75                  | 16.94                     | 46.630            |  |                    |           |
| 2,600.00                                                | 2,565.41              | 2,418.14              | 2,375.81              | 11.48            | 11.10         | -173.16               | 433.67                              | 80.41        | 830.80                 | 813.16                  | 17.64                     | 47.096            |  |                    |           |
| 2,700.00                                                | 2,663.52              | 2,509.27              | 2,464.54              | 11.99            | 11.60         | -173.30               | 454.36                              | 82.57        | 871.92                 | 853.58                  | 18.35                     | 47.524            |  |                    |           |
| 2,800.00                                                | 2,761.62              | 2,600.41              | 2,553.27              | 12.51            | 12.10         | -173.42               | 475.05                              | 84.73        | 913.05                 | 894.00                  | 19.05                     | 47.919            |  |                    |           |
| 2,900.00                                                | 2,859.73              | 2,691.54              | 2,641.99              | 13.02            | 12.60         | -173.53               | 495.74                              | 86.88        | 954.18                 | 934.42                  | 19.76                     | 48.284            |  |                    |           |
| 3,000.00                                                | 2,957.84              | 2,782.68              | 2,730.72              | 13.53            | 13.09         | -173.63               | 516.43                              | 89.04        | 995.32                 | 974.85                  | 20.47                     | 48.623            |  |                    |           |
| 3,100.00                                                | 3,055.95              | 2,873.81              | 2,819.45              | 14.05            | 13.60         | -173.73               | 537.11                              | 91.20        | 1,036.45               | 1,015.28                | 21.18                     | 48.939            |  |                    |           |
| 3,200.00                                                | 3,154.06              | 2,964.95              | 2,908.18              | 14.56            | 14.10         | -173.81               | 557.80                              | 93.36        | 1,077.59               | 1,055.71                | 21.89                     | 49.233            |  |                    |           |
| 3,300.00                                                | 3,252.16              | 3,056.08              | 2,996.91              | 15.07            | 14.60         | -173.89               | 578.49                              | 95.52        | 1,118.73               | 1,096.14                | 22.60                     | 49.508            |  |                    |           |
| 3,400.00                                                | 3,350.27              | 3,147.21              | 3,085.64              | 15.59            | 15.10         | -173.97               | 599.18                              | 97.68        | 1,159.88               | 1,136.57                | 23.31                     | 49.765            |  |                    |           |
| 3,500.00                                                | 3,448.38              | 3,238.35              | 3,174.37              | 16.10            | 15.60         | -174.04               | 619.87                              | 99.83        | 1,201.02               | 1,177.00                | 24.02                     | 50.006            |  |                    |           |
| 3,600.00                                                | 3,546.49              | 3,329.48              | 3,263.10              | 16.62            | 16.10         | -174.10               | 640.56                              | 101.99       | 1,242.16               | 1,217.44                | 24.73                     | 50.233            |  |                    |           |
| 3,700.00                                                | 3,644.60              | 3,420.62              | 3,351.83              | 17.13            | 16.60         | -174.16               | 661.24                              | 104.15       | 1,283.31               | 1,257.87                | 25.44                     | 50.446            |  |                    |           |
| 3,800.00                                                | 3,742.70              | 3,511.75              | 3,440.56              | 17.65            | 17.10         | -174.22               | 681.93                              | 106.31       | 1,324.46               | 1,298.31                | 26.15                     | 50.648            |  |                    |           |
| 3,900.00                                                | 3,840.81              | 3,602.89              | 3,529.29              | 18.16            | 17.61         | -174.27               | 702.62                              | 108.47       | 1,365.61               | 1,338.74                | 26.86                     | 50.838            |  |                    |           |
| 4,000.00                                                | 3,938.92              | 3,694.02              | 3,618.01              | 18.68            | 18.11         | -174.32               | 723.31                              | 110.63       | 1,406.75               | 1,379.18                | 27.57                     | 51.017            |  |                    |           |
| 4,100.00                                                | 4,037.03              | 3,785.16              | 3,706.74              | 19.19            | 18.61         | -174.37               | 744.00                              | 112.79       | 1,447.90               | 1,419.62                | 28.29                     | 51.188            |  |                    |           |
| 4,200.00                                                | 4,135.13              | 3,876.29              | 3,795.47              | 19.71            | 19.11         | -174.41               | 764.68                              | 114.94       | 1,489.06               | 1,460.06                | 29.00                     | 51.349            |  |                    |           |
| 4,300.00                                                | 4,233.24              | 3,967.43              | 3,884.20              | 20.22            | 19.62         | -174.46               | 785.37                              | 117.10       | 1,530.21               | 1,500.50                | 29.71                     | 51.502            |  |                    |           |
| 4,400.00                                                | 4,331.35              | 4,058.56              | 3,972.93              | 20.74            | 20.12         | -174.50               | 806.06                              | 119.26       | 1,571.36               | 1,540.93                | 30.42                     | 51.648            |  |                    |           |
| 4,500.00                                                | 4,429.46              | 4,149.70              | 4,061.66              | 21.25            | 20.62         | -174.54               | 826.75                              | 121.42       | 1,612.51               | 1,581.37                | 31.14                     | 51.786            |  |                    |           |
| 4,600.00                                                | 4,527.57              | 4,240.83              | 4,153.75              | 21.77            | 21.13         | -174.58               | 847.44                              | 123.58       | 1,653.66               | 1,622.12                | 31.86                     | 51.918            |  |                    |           |
| 4,700.00                                                | 4,625.68              | 4,331.96              | 4,245.86              | 22.28            | 21.63         | -174.62               | 868.13                              | 125.74       | 1,694.81               | 1,662.67                | 32.58                     | 52.049            |  |                    |           |
| 4,800.00                                                | 4,723.79              | 4,423.09              | 4,337.97              | 22.79            | 22.13         | -174.66               | 888.82                              | 127.89       | 1,735.96               | 1,703.42                | 33.30                     | 52.180            |  |                    |           |
| 4,900.00                                                | 4,821.90              | 4,514.22              | 4,429.06              | 23.30            | 22.63         | -174.70               | 909.51                              | 129.99       | 1,777.11               | 1,744.17                | 34.02                     | 52.311            |  |                    |           |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 313H - Original Drilling - APD |                       |                       |                       |                  |               |              |  |                        |              |                        |                         |                   |        | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|--------------|--|------------------------|--------------|------------------------|-------------------------|-------------------|--------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |              |  |                        |              |                        |                         |                   |        | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               | Highside     |  | Offset Wellbore Centre |              | Distance               |                         | Minimum           |        | Warning            |           |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Toolface (°) |  | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation (usft) | Factor |                    |           |
| 5,000.00                                                | 4,915.16              | 6,269.94              | 5,309.56              | 22.87            | 29.76         | 111.27       |  | 244.18                 | 996.95       | 1,506.41               | 1,459.30                | 47.10             | 31.983 |                    |           |
| 5,100.00                                                | 5,001.72              | 6,220.65              | 5,310.02              | 22.85            | 28.95         | 106.18       |  | 279.66                 | 962.74       | 1,497.64               | 1,450.71                | 46.94             | 31.908 |                    |           |
| 5,200.00                                                | 5,079.69              | 6,158.38              | 5,310.61              | 22.76            | 27.97         | 102.22       |  | 324.49                 | 919.51       | 1,494.11               | 1,447.72                | 46.39             | 32.209 |                    |           |
| 5,238.62                                                | 5,107.09              | 6,131.17              | 5,310.86              | 22.70            | 27.56         | 100.84       |  | 344.07                 | 900.63       | 1,493.85               | 1,447.73                | 46.12             | 32.393 |                    |           |
| 5,300.00                                                | 5,147.16              | 6,084.66              | 5,311.30              | 22.61            | 26.88         | 98.79        |  | 377.55                 | 868.34       | 1,494.40               | 1,448.79                | 45.61             | 32.766 |                    |           |
| 5,400.00                                                | 5,202.46              | 6,001.29              | 5,312.08              | 22.44            | 25.76         | 95.84        |  | 437.56                 | 810.48       | 1,496.97               | 1,452.17                | 44.80             | 33.411 |                    |           |
| 5,500.00                                                | 5,244.24              | 5,910.35              | 5,312.94              | 22.25            | 24.75         | 93.50        |  | 503.03                 | 747.35       | 1,500.32               | 1,456.14                | 44.19             | 33.955 |                    |           |
| 5,600.00                                                | 5,271.45              | 5,814.05              | 5,313.85              | 22.07            | 24.10         | 91.92        |  | 572.34                 | 680.52       | 1,503.20               | 1,459.40                | 43.80             | 34.320 |                    |           |
| 5,700.00                                                | 5,283.44              | 5,645.23              | 5,297.51              | 22.05            | 24.07         | 90.45        |  | 690.70                 | 561.91       | 1,502.81               | 1,459.49                | 43.32             | 34.687 |                    |           |
| 5,800.00                                                | 5,284.64              | 5,483.41              | 5,241.96              | 22.98            | 24.36         | 88.33        |  | 792.42                 | 449.61       | 1,496.71               | 1,453.09                | 43.63             | 34.307 |                    |           |
| 5,900.00                                                | 5,285.45              | 5,355.69              | 5,172.69              | 24.28            | 24.59         | 85.60        |  | 860.19                 | 366.74       | 1,488.65               | 1,444.07                | 44.57             | 33.399 |                    |           |
| 6,000.00                                                | 5,286.27              | 5,259.63              | 5,107.59              | 25.74            | 24.71         | 83.03        |  | 902.03                 | 309.98       | 1,481.46               | 1,435.60                | 45.86             | 32.305 |                    |           |
| 6,100.00                                                | 5,287.08              | 5,187.80              | 5,052.58              | 27.34            | 24.76         | 80.85        |  | 927.54                 | 271.55       | 1,477.22               | 1,429.90                | 47.33             | 31.214 |                    |           |
| 6,149.39                                                | 5,287.48              | 5,159.08              | 5,029.25              | 28.18            | 24.77         | 79.93        |  | 936.27                 | 257.27       | 1,476.66               | 1,428.56                | 48.10             | 30.701 |                    |           |
| 6,200.00                                                | 5,287.90              | 5,133.33              | 5,007.73              | 29.05            | 24.77         | 79.08        |  | 943.37                 | 245.03       | 1,477.29               | 1,428.39                | 48.89             | 30.215 |                    |           |
| 6,300.00                                                | 5,288.71              | 5,091.18              | 4,971.40              | 30.86            | 24.77         | 77.64        |  | 953.44                 | 226.20       | 1,482.46               | 1,431.95                | 50.50             | 29.353 |                    |           |
| 6,400.00                                                | 5,289.53              | 5,057.87              | 4,941.80              | 32.74            | 24.75         | 76.47        |  | 960.03                 | 212.43       | 1,493.19               | 1,441.08                | 52.11             | 28.653 |                    |           |
| 6,500.00                                                | 5,290.34              | 5,031.01              | 4,917.42              | 34.70            | 24.72         | 75.51        |  | 964.44                 | 202.07       | 1,509.69               | 1,456.02                | 53.67             | 28.128 |                    |           |
| 6,600.00                                                | 5,291.16              | 5,000.00              | 4,888.77              | 36.72            | 24.68         | 74.39        |  | 968.54                 | 190.94       | 1,532.02               | 1,476.93                | 55.09             | 27.811 |                    |           |
| 6,700.00                                                | 5,291.97              | 5,000.00              | 4,888.77              | 38.78            | 24.68         | 74.39        |  | 968.54                 | 190.94       | 1,559.98               | 1,503.39                | 56.60             | 27.562 |                    |           |
| 6,800.00                                                | 5,292.79              | 4,975.09              | 4,865.40              | 40.89            | 24.64         | 73.47        |  | 971.04                 | 182.68       | 1,593.37               | 1,535.60                | 57.77             | 27.580 |                    |           |
| 6,900.00                                                | 5,293.60              | 4,950.00              | 4,841.59              | 43.04            | 24.60         | 72.55        |  | 972.84                 | 174.99       | 1,632.11               | 1,573.32                | 58.79             | 27.761 |                    |           |
| 7,000.00                                                | 5,294.42              | 4,950.00              | 4,841.59              | 45.22            | 24.60         | 72.55        |  | 972.84                 | 174.99       | 1,675.56               | 1,615.69                | 59.87             | 27.987 |                    |           |
| 7,100.00                                                | 5,295.23              | 4,950.00              | 4,841.59              | 47.43            | 24.60         | 72.55        |  | 972.84                 | 174.99       | 1,723.72               | 1,662.92                | 60.80             | 28.349 |                    |           |
| 7,200.00                                                | 5,296.05              | 4,931.54              | 4,823.92              | 49.66            | 24.55         | 71.86        |  | 973.71                 | 169.73       | 1,775.97               | 1,714.52                | 61.44             | 28.904 |                    |           |
| 7,300.00                                                | 5,296.86              | 4,923.74              | 4,816.42              | 51.92            | 24.53         | 71.57        |  | 973.96                 | 167.61       | 1,832.15               | 1,770.10                | 62.05             | 29.526 |                    |           |
| 7,400.00                                                | 5,297.68              | 4,916.79              | 4,809.71              | 54.19            | 24.52         | 71.31        |  | 974.13                 | 165.78       | 1,891.88               | 1,829.32                | 62.56             | 30.241 |                    |           |
| 7,500.00                                                | 5,298.49              | 4,900.00              | 4,793.47              | 56.48            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 1,954.93               | 1,892.04                | 62.88             | 31.087 |                    |           |
| 7,600.00                                                | 5,299.31              | 4,900.00              | 4,793.47              | 58.79            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,020.76               | 1,957.49                | 63.27             | 31.938 |                    |           |
| 7,700.00                                                | 5,300.12              | 4,900.00              | 4,793.47              | 61.10            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,089.30               | 2,025.72                | 63.58             | 32.860 |                    |           |
| 7,800.00                                                | 5,300.94              | 4,900.00              | 4,793.47              | 63.43            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,160.30               | 2,096.47                | 63.83             | 33.846 |                    |           |
| 7,900.00                                                | 5,301.75              | 4,900.00              | 4,793.47              | 65.77            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,233.52               | 2,169.50                | 64.02             | 34.890 |                    |           |
| 8,000.00                                                | 5,302.57              | 4,900.00              | 4,793.47              | 68.12            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,308.75               | 2,244.59                | 64.16             | 35.985 |                    |           |
| 8,100.00                                                | 5,303.38              | 4,900.00              | 4,793.47              | 70.48            | 24.48         | 70.69        |  | 974.30                 | 161.55       | 2,385.80               | 2,321.54                | 64.26             | 37.126 |                    |           |
| 8,200.00                                                | 5,304.20              | 4,880.10              | 4,774.11              | 72.85            | 24.42         | 69.94        |  | 974.08                 | 156.93       | 2,464.17               | 2,400.01                | 64.17             | 38.404 |                    |           |
| 8,300.00                                                | 5,305.01              | 4,877.02              | 4,771.11              | 75.22            | 24.41         | 69.83        |  | 974.01                 | 156.25       | 2,544.26               | 2,480.07                | 64.18             | 39.640 |                    |           |
| 8,400.00                                                | 5,305.83              | 4,874.16              | 4,768.32              | 77.60            | 24.40         | 69.72        |  | 973.93                 | 155.63       | 2,625.69               | 2,561.51                | 64.18             | 40.910 |                    |           |
| 8,500.00                                                | 5,306.64              | 4,871.50              | 4,765.72              | 79.99            | 24.39         | 69.62        |  | 973.85                 | 155.06       | 2,708.36               | 2,644.20                | 64.16             | 42.210 |                    |           |
| 8,600.00                                                | 5,307.46              | 4,850.00              | 4,744.69              | 82.38            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 2,792.46               | 2,728.49                | 63.97             | 43.653 |                    |           |
| 8,700.00                                                | 5,308.27              | 4,850.00              | 4,744.69              | 84.77            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 2,877.20               | 2,813.26                | 63.95             | 44.994 |                    |           |
| 8,800.00                                                | 5,309.09              | 4,850.00              | 4,744.69              | 87.17            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 2,962.90               | 2,898.99                | 63.91             | 46.358 |                    |           |
| 8,900.00                                                | 5,309.90              | 4,850.00              | 4,744.69              | 89.58            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,049.47               | 2,985.60                | 63.87             | 47.743 |                    |           |
| 9,000.00                                                | 5,310.72              | 4,850.00              | 4,744.69              | 91.99            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,136.84               | 3,073.02                | 63.82             | 49.148 |                    |           |
| 9,100.00                                                | 5,311.53              | 4,850.00              | 4,744.69              | 94.40            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,224.94               | 3,161.17                | 63.77             | 50.571 |                    |           |
| 9,200.00                                                | 5,312.35              | 4,850.00              | 4,744.69              | 96.82            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,313.72               | 3,250.01                | 63.71             | 52.011 |                    |           |
| 9,300.00                                                | 5,313.16              | 4,850.00              | 4,744.69              | 99.23            | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,403.12               | 3,339.47                | 63.65             | 53.465 |                    |           |
| 9,400.00                                                | 5,313.98              | 4,850.00              | 4,744.69              | 101.66           | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,493.10               | 3,429.51                | 63.59             | 54.933 |                    |           |
| 9,500.00                                                | 5,314.79              | 4,850.00              | 4,744.69              | 104.08           | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,583.60               | 3,520.08                | 63.52             | 56.413 |                    |           |
| 9,600.00                                                | 5,315.61              | 4,850.00              | 4,744.69              | 106.51           | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,674.60               | 3,611.15                | 63.46             | 57.905 |                    |           |
| 9,700.00                                                | 5,316.42              | 4,850.00              | 4,744.69              | 108.94           | 24.33         | 68.82        |  | 972.89                 | 150.72       | 3,766.06               | 3,702.67                | 63.39             | 59.408 |                    |           |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 313H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     | Warning      |                        |                         |                           |                   |                              |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 9,800.00                                                | 5,317.24              | 4,850.00              | 4,744.69              | 111.37           | 24.33         | 68.82                 | 972.89                              | 150.72       | 3,857.94               | 3,794.61                | 63.33                     | 60.920            |                              |
| 9,900.00                                                | 5,318.05              | 4,850.00              | 4,744.69              | 113.80           | 24.33         | 68.82                 | 972.89                              | 150.72       | 3,950.21               | 3,886.95                | 63.26                     | 62.440            |                              |
| 10,000.00                                               | 5,318.87              | 4,850.00              | 4,744.69              | 116.24           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,042.86               | 3,979.66                | 63.20                     | 63.969            |                              |
| 10,100.00                                               | 5,319.68              | 4,850.00              | 4,744.69              | 118.67           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,135.84               | 4,072.70                | 63.14                     | 65.506            |                              |
| 10,200.00                                               | 5,320.50              | 4,850.00              | 4,744.69              | 121.11           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,229.14               | 4,166.07                | 63.08                     | 67.049            |                              |
| 10,300.00                                               | 5,321.31              | 4,850.00              | 4,744.69              | 123.55           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,322.75               | 4,259.73                | 63.02                     | 68.598            |                              |
| 10,400.00                                               | 5,322.13              | 4,850.00              | 4,744.69              | 125.99           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,416.63               | 4,353.67                | 62.96                     | 70.152            |                              |
| 10,500.00                                               | 5,322.94              | 4,850.00              | 4,744.69              | 128.44           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,510.78               | 4,447.88                | 62.90                     | 71.712            |                              |
| 10,600.00                                               | 5,323.76              | 4,850.00              | 4,744.69              | 130.88           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,605.17               | 4,542.33                | 62.85                     | 73.277            |                              |
| 10,700.00                                               | 5,324.57              | 4,850.00              | 4,744.69              | 133.33           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,699.80               | 4,637.01                | 62.79                     | 74.846            |                              |
| 10,800.00                                               | 5,325.39              | 4,850.00              | 4,744.69              | 135.77           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,794.64               | 4,731.90                | 62.74                     | 76.418            |                              |
| 10,900.00                                               | 5,326.20              | 4,850.00              | 4,744.69              | 138.22           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,889.69               | 4,827.00                | 62.69                     | 77.994            |                              |
| 11,000.00                                               | 5,327.02              | 4,850.00              | 4,744.69              | 140.67           | 24.33         | 68.82                 | 972.89                              | 150.72       | 4,984.94               | 4,922.29                | 62.65                     | 79.573            |                              |
| 11,100.00                                               | 5,327.83              | 4,850.00              | 4,744.69              | 143.12           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,080.36               | 5,017.76                | 62.60                     | 81.155            |                              |
| 11,200.00                                               | 5,328.65              | 4,850.00              | 4,744.69              | 145.57           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,175.96               | 5,113.40                | 62.56                     | 82.739            |                              |
| 11,300.00                                               | 5,329.46              | 4,850.00              | 4,744.69              | 148.02           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,271.72               | 5,209.21                | 62.52                     | 84.326            |                              |
| 11,400.00                                               | 5,330.28              | 4,850.00              | 4,744.69              | 150.48           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,367.64               | 5,305.16                | 62.48                     | 85.914            |                              |
| 11,500.00                                               | 5,331.09              | 4,850.00              | 4,744.69              | 152.93           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,463.70               | 5,401.26                | 62.44                     | 87.504            |                              |
| 11,600.00                                               | 5,331.91              | 4,850.00              | 4,744.69              | 155.39           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,559.90               | 5,497.50                | 62.40                     | 89.096            |                              |
| 11,700.00                                               | 5,332.72              | 4,850.00              | 4,744.69              | 157.84           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,656.24               | 5,593.87                | 62.37                     | 90.688            |                              |
| 11,800.00                                               | 5,333.54              | 4,850.00              | 4,744.69              | 160.30           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,752.70               | 5,690.36                | 62.34                     | 92.281            |                              |
| 11,900.00                                               | 5,334.35              | 4,850.00              | 4,744.69              | 162.75           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,849.27               | 5,786.96                | 62.31                     | 93.875            |                              |
| 12,000.00                                               | 5,335.17              | 4,850.00              | 4,744.69              | 165.21           | 24.33         | 68.82                 | 972.89                              | 150.72       | 5,945.96               | 5,883.68                | 62.28                     | 95.470            |                              |
| 12,100.00                                               | 5,335.98              | 4,850.00              | 4,744.69              | 167.67           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,042.76               | 5,980.51                | 62.25                     | 97.065            |                              |
| 12,200.00                                               | 5,336.80              | 4,850.00              | 4,744.69              | 170.13           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,139.66               | 6,077.43                | 62.23                     | 98.660            |                              |
| 12,300.00                                               | 5,337.61              | 4,850.00              | 4,744.69              | 172.59           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,236.66               | 6,174.45                | 62.21                     | 100.255           |                              |
| 12,400.00                                               | 5,338.43              | 4,850.00              | 4,744.69              | 175.05           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,333.75               | 6,271.57                | 62.19                     | 101.850           |                              |
| 12,500.00                                               | 5,339.24              | 4,850.00              | 4,744.69              | 177.51           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,430.94               | 6,368.77                | 62.17                     | 103.445           |                              |
| 12,600.00                                               | 5,340.06              | 4,850.00              | 4,744.69              | 179.97           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,528.20               | 6,466.05                | 62.15                     | 105.039           |                              |
| 12,700.00                                               | 5,340.87              | 4,850.00              | 4,744.69              | 182.43           | 24.33         | 68.82                 | 972.89                              | 150.72       | 6,625.55               | 6,563.42                | 62.13                     | 106.632           |                              |
| 12,800.00                                               | 5,341.69              | 4,826.83              | 4,721.94              | 184.89           | 24.24         | 67.96                 | 971.27                              | 146.61       | 6,722.53               | 6,660.57                | 61.96                     | 108.503           |                              |
| 12,900.00                                               | 5,342.50              | 4,826.41              | 4,721.53              | 187.35           | 24.24         | 67.94                 | 971.23                              | 146.54       | 6,820.01               | 6,758.07                | 61.94                     | 110.104           |                              |
| 13,000.00                                               | 5,343.32              | 4,826.01              | 4,721.14              | 189.82           | 24.24         | 67.93                 | 971.20                              | 146.47       | 6,917.57               | 6,855.64                | 61.93                     | 111.703           |                              |
| 13,100.00                                               | 5,344.13              | 4,825.62              | 4,720.75              | 192.28           | 24.24         | 67.91                 | 971.17                              | 146.41       | 7,015.19               | 6,953.27                | 61.92                     | 113.301           |                              |
| 13,200.00                                               | 5,344.95              | 4,825.24              | 4,720.38              | 194.74           | 24.24         | 67.90                 | 971.14                              | 146.35       | 7,112.88               | 7,050.97                | 61.91                     | 114.898           |                              |
| 13,300.00                                               | 5,345.76              | 4,824.87              | 4,720.01              | 197.21           | 24.24         | 67.89                 | 971.10                              | 146.29       | 7,210.63               | 7,148.74                | 61.90                     | 116.494           |                              |
| 13,400.00                                               | 5,346.58              | 4,824.51              | 4,719.66              | 199.67           | 24.23         | 67.87                 | 971.07                              | 146.23       | 7,308.45               | 7,246.56                | 61.89                     | 118.088           |                              |
| 13,500.00                                               | 5,347.39              | 4,824.15              | 4,719.31              | 202.14           | 24.23         | 67.86                 | 971.04                              | 146.17       | 7,406.32               | 7,344.44                | 61.88                     | 119.680           |                              |
| 13,600.00                                               | 5,348.21              | 4,823.81              | 4,718.97              | 204.60           | 24.23         | 67.85                 | 971.01                              | 146.11       | 7,504.25               | 7,442.37                | 61.88                     | 121.271           |                              |
| 13,700.00                                               | 5,349.02              | 4,823.47              | 4,718.64              | 207.07           | 24.23         | 67.83                 | 970.98                              | 146.06       | 7,602.23               | 7,540.35                | 61.88                     | 122.860           |                              |
| 13,800.00                                               | 5,349.84              | 4,823.15              | 4,718.32              | 209.53           | 24.23         | 67.82                 | 970.96                              | 146.01       | 7,700.26               | 7,638.39                | 61.88                     | 124.448           |                              |
| 13,900.00                                               | 5,350.66              | 4,800.00              | 4,695.55              | 212.00           | 24.14         | 66.97                 | 968.63                              | 142.57       | 7,798.78               | 7,737.06                | 61.72                     | 126.366           |                              |
| 14,000.00                                               | 5,351.47              | 4,800.00              | 4,695.55              | 214.46           | 24.14         | 66.97                 | 968.63                              | 142.57       | 7,896.90               | 7,835.18                | 61.72                     | 127.948           |                              |
| 14,100.00                                               | 5,352.29              | 4,800.00              | 4,695.55              | 216.93           | 24.14         | 66.97                 | 968.63                              | 142.57       | 7,995.07               | 7,933.34                | 61.72                     | 129.528           |                              |
| 14,200.00                                               | 5,353.10              | 4,800.00              | 4,695.55              | 219.40           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,093.28               | 8,031.55                | 61.73                     | 131.106           |                              |
| 14,300.00                                               | 5,353.92              | 4,800.00              | 4,695.55              | 221.87           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,191.53               | 8,129.79                | 61.74                     | 132.681           |                              |
| 14,400.00                                               | 5,354.73              | 4,800.00              | 4,695.55              | 224.33           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,289.83               | 8,228.08                | 61.75                     | 134.254           |                              |
| 14,500.00                                               | 5,355.55              | 4,800.00              | 4,695.55              | 226.80           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,388.16               | 8,326.40                | 61.76                     | 135.825           |                              |
| 14,600.00                                               | 5,356.36              | 4,800.00              | 4,695.55              | 229.27           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,486.54               | 8,424.77                | 61.77                     | 137.394           |                              |
| 14,700.00                                               | 5,357.18              | 4,800.00              | 4,695.55              | 231.74           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,584.95               | 8,523.17                | 61.78                     | 138.960           |                              |
| 14,800.00                                               | 5,357.99              | 4,800.00              | 4,695.55              | 234.20           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,683.40               | 8,621.60                | 61.79                     | 140.523           |                              |

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





**Scientific Drilling, Intl**  
Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | G35 2409 - 313H - Original Drilling - APD |  | Offset Site Error: 0.00 usft |  |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------------------------|--|------------------------------|--|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: 0.00 usft              |  |                              |  |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                           |  |                              |  |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                                   |  |                              |  |
| 14,900.00                  | 5,358.81              | 4,800.00              | 4,695.55              | 236.67           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,781.88               | 8,720.07                | 61.81                     | 142.084           |                                           |  |                              |  |
| 15,000.00                  | 5,359.62              | 4,800.00              | 4,695.55              | 239.14           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,880.40               | 8,818.58                | 61.82                     | 143.642           |                                           |  |                              |  |
| 15,100.00                  | 5,360.44              | 4,800.00              | 4,695.55              | 241.61           | 24.14         | 66.97                 | 968.63                              | 142.57       | 8,978.95               | 8,917.11                | 61.84                     | 145.197           |                                           |  |                              |  |
| 15,169.25                  | 5,361.00              | 4,800.00              | 4,695.55              | 243.32           | 24.14         | 66.96                 | 968.63                              | 142.57       | 9,047.21               | 8,985.36                | 61.85                     | 146.273           |                                           |  |                              |  |

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



# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 632H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                                                    | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 41.99                 | 29.48                               | 26.53        | 39.66                  |                         |                           |                   |                    |           |
| 100.00                                                  | 100.00                | 100.00                | 100.00                | 0.15             | 0.15          | 41.99                 | 29.48                               | 26.53        | 39.66                  | 39.35                   | 0.31                      | 128.652           |                    |           |
| 200.00                                                  | 200.00                | 200.00                | 200.00                | 0.51             | 0.51          | 41.99                 | 29.48                               | 26.53        | 39.66                  | 38.64                   | 1.03                      | 38.685            |                    |           |
| 300.00                                                  | 300.00                | 300.00                | 300.00                | 0.87             | 0.87          | 41.99                 | 29.48                               | 26.53        | 39.66                  | 37.92                   | 1.74                      | 22.766            |                    |           |
| 400.00                                                  | 400.00                | 400.00                | 400.00                | 1.23             | 1.23          | 41.99                 | 29.48                               | 26.53        | 39.66                  | 37.20                   | 2.46                      | 16.128 CC, ES     |                    |           |
| 500.00                                                  | 499.98                | 498.76                | 498.74                | 1.57             | 1.58          | -139.61               | 31.17                               | 26.73        | 42.40                  | 39.24                   | 3.16                      | 13.427            |                    |           |
| 600.00                                                  | 599.84                | 596.82                | 596.67                | 1.91             | 1.94          | -146.32               | 36.19                               | 27.33        | 51.11                  | 47.25                   | 3.85                      | 13.261            |                    |           |
| 700.00                                                  | 699.45                | 693.49                | 692.98                | 2.27             | 2.29          | -153.37               | 44.39                               | 28.31        | 66.59                  | 62.03                   | 4.56                      | 14.617            |                    |           |
| 800.00                                                  | 798.70                | 788.13                | 786.94                | 2.65             | 2.66          | -158.96               | 55.55                               | 29.65        | 89.10                  | 83.85                   | 5.25                      | 16.972            |                    |           |
| 900.00                                                  | 897.47                | 883.79                | 881.72                | 3.05             | 3.04          | -162.97               | 68.46                               | 31.19        | 117.04                 | 111.09                  | 5.95                      | 19.665            |                    |           |
| 1,000.00                                                | 995.68                | 978.57                | 975.62                | 3.50             | 3.43          | -165.77               | 81.25                               | 32.72        | 148.28                 | 141.63                  | 6.65                      | 22.286            |                    |           |
| 1,100.00                                                | 1,093.79              | 1,073.16              | 1,069.33              | 3.96             | 3.82          | -167.71               | 94.02                               | 34.24        | 180.30                 | 172.96                  | 7.34                      | 24.565            |                    |           |
| 1,200.00                                                | 1,191.90              | 1,167.75              | 1,163.04              | 4.44             | 4.21          | -169.06               | 106.79                              | 35.77        | 212.44                 | 204.41                  | 8.03                      | 26.446            |                    |           |
| 1,300.00                                                | 1,290.01              | 1,262.34              | 1,256.75              | 4.92             | 4.61          | -170.06               | 119.56                              | 37.29        | 244.67                 | 235.94                  | 8.73                      | 28.028            |                    |           |
| 1,400.00                                                | 1,388.12              | 1,356.93              | 1,350.47              | 5.41             | 5.01          | -170.83               | 132.33                              | 38.82        | 276.94                 | 267.51                  | 9.43                      | 29.373            |                    |           |
| 1,500.00                                                | 1,486.22              | 1,451.53              | 1,444.18              | 5.91             | 5.42          | -171.43               | 145.10                              | 40.34        | 309.25                 | 299.12                  | 10.13                     | 30.528            |                    |           |
| 1,600.00                                                | 1,584.33              | 1,546.12              | 1,537.89              | 6.40             | 5.82          | -171.93               | 157.87                              | 41.86        | 341.59                 | 330.75                  | 10.83                     | 31.529            |                    |           |
| 1,700.00                                                | 1,682.44              | 1,640.71              | 1,631.61              | 6.91             | 6.23          | -172.33               | 170.64                              | 43.39        | 373.94                 | 362.40                  | 11.54                     | 32.406            |                    |           |
| 1,800.00                                                | 1,780.55              | 1,735.30              | 1,725.32              | 7.41             | 6.63          | -172.67               | 183.41                              | 44.91        | 406.31                 | 394.06                  | 12.25                     | 33.179            |                    |           |
| 1,900.00                                                | 1,878.65              | 1,829.89              | 1,819.03              | 7.91             | 7.04          | -172.96               | 196.17                              | 46.44        | 438.69                 | 425.73                  | 12.95                     | 33.865            |                    |           |
| 2,000.00                                                | 1,976.76              | 1,924.48              | 1,912.74              | 8.42             | 7.45          | -173.22               | 208.94                              | 47.96        | 471.08                 | 457.41                  | 13.66                     | 34.478            |                    |           |
| 2,100.00                                                | 2,074.87              | 2,019.07              | 2,006.46              | 8.93             | 7.85          | -173.43               | 221.71                              | 49.49        | 503.47                 | 489.10                  | 14.37                     | 35.030            |                    |           |
| 2,200.00                                                | 2,172.98              | 2,113.66              | 2,100.17              | 9.44             | 8.26          | -173.63               | 234.48                              | 51.01        | 535.87                 | 520.79                  | 15.08                     | 35.527            |                    |           |
| 2,300.00                                                | 2,271.09              | 2,208.25              | 2,193.88              | 9.95             | 8.67          | -173.80               | 247.25                              | 52.54        | 568.28                 | 552.48                  | 15.79                     | 35.979            |                    |           |
| 2,400.00                                                | 2,369.19              | 2,302.84              | 2,287.60              | 10.46            | 9.08          | -173.95               | 260.02                              | 54.06        | 600.69                 | 584.18                  | 16.51                     | 36.391            |                    |           |
| 2,500.00                                                | 2,467.30              | 2,397.44              | 2,381.31              | 10.97            | 9.49          | -174.09               | 272.79                              | 55.59        | 633.10                 | 615.88                  | 17.22                     | 36.768            |                    |           |
| 2,600.00                                                | 2,565.41              | 2,492.03              | 2,475.02              | 11.48            | 9.90          | -174.21               | 285.56                              | 57.11        | 665.52                 | 647.58                  | 17.93                     | 37.114            |                    |           |
| 2,700.00                                                | 2,663.52              | 2,586.62              | 2,568.73              | 11.99            | 10.31         | -174.32               | 298.33                              | 58.64        | 697.93                 | 679.29                  | 18.64                     | 37.433            |                    |           |
| 2,800.00                                                | 2,761.62              | 2,681.21              | 2,662.45              | 12.51            | 10.72         | -174.42               | 311.10                              | 60.16        | 730.35                 | 711.00                  | 19.36                     | 37.728            |                    |           |
| 2,900.00                                                | 2,859.73              | 2,775.80              | 2,756.16              | 13.02            | 11.13         | -174.52               | 323.86                              | 61.69        | 762.78                 | 742.70                  | 20.07                     | 38.001            |                    |           |
| 3,000.00                                                | 2,957.84              | 2,870.39              | 2,849.87              | 13.53            | 11.54         | -174.60               | 336.63                              | 63.21        | 795.20                 | 774.41                  | 20.79                     | 38.255            |                    |           |
| 3,100.00                                                | 3,055.95              | 2,964.98              | 2,943.59              | 14.05            | 11.95         | -174.68               | 349.40                              | 64.74        | 827.63                 | 806.13                  | 21.50                     | 38.492            |                    |           |
| 3,200.00                                                | 3,154.06              | 3,059.57              | 3,037.30              | 14.56            | 12.37         | -174.75               | 362.17                              | 66.26        | 860.05                 | 837.84                  | 22.22                     | 38.713            |                    |           |
| 3,300.00                                                | 3,252.16              | 3,154.16              | 3,131.01              | 15.07            | 12.78         | -174.82               | 374.94                              | 67.79        | 892.48                 | 869.55                  | 22.93                     | 38.920            |                    |           |
| 3,400.00                                                | 3,350.27              | 3,248.76              | 3,224.72              | 15.59            | 13.19         | -174.88               | 387.71                              | 69.31        | 924.91                 | 901.26                  | 23.65                     | 39.114            |                    |           |
| 3,500.00                                                | 3,448.38              | 3,343.35              | 3,318.44              | 16.10            | 13.60         | -174.94               | 400.48                              | 70.84        | 957.34                 | 932.98                  | 24.36                     | 39.296            |                    |           |
| 3,600.00                                                | 3,546.49              | 3,437.94              | 3,412.15              | 16.62            | 14.01         | -175.00               | 413.25                              | 72.36        | 989.77                 | 964.69                  | 25.08                     | 39.467            |                    |           |
| 3,700.00                                                | 3,644.60              | 3,532.53              | 3,505.86              | 17.13            | 14.42         | -175.05               | 426.02                              | 73.89        | 1,022.20               | 996.41                  | 25.79                     | 39.629            |                    |           |
| 3,800.00                                                | 3,742.70              | 3,627.12              | 3,599.57              | 17.65            | 14.83         | -175.10               | 438.78                              | 75.41        | 1,054.64               | 1,028.12                | 26.51                     | 39.782            |                    |           |
| 3,900.00                                                | 3,840.81              | 3,721.71              | 3,693.29              | 18.16            | 15.25         | -175.14               | 451.55                              | 76.94        | 1,087.07               | 1,059.84                | 27.23                     | 39.926            |                    |           |
| 4,000.00                                                | 3,938.92              | 3,816.30              | 3,787.00              | 18.68            | 15.66         | -175.19               | 464.32                              | 78.46        | 1,119.50               | 1,091.56                | 27.94                     | 40.063            |                    |           |
| 4,100.00                                                | 4,037.03              | 3,910.89              | 3,880.71              | 19.19            | 16.07         | -175.23               | 477.09                              | 79.99        | 1,151.94               | 1,123.28                | 28.66                     | 40.193            |                    |           |
| 4,200.00                                                | 4,135.13              | 4,005.48              | 3,974.43              | 19.71            | 16.48         | -175.26               | 489.86                              | 81.51        | 1,184.37               | 1,154.99                | 29.38                     | 40.316            |                    |           |
| 4,300.00                                                | 4,233.24              | 4,100.07              | 4,068.14              | 20.22            | 16.89         | -175.30               | 502.63                              | 83.04        | 1,216.81               | 1,186.71                | 30.09                     | 40.433            |                    |           |
| 4,400.00                                                | 4,331.35              | 4,194.67              | 4,161.85              | 20.74            | 17.30         | -175.33               | 515.40                              | 84.56        | 1,249.24               | 1,218.43                | 30.81                     | 40.544            |                    |           |
| 4,500.00                                                | 4,429.46              | 4,289.26              | 4,255.56              | 21.25            | 17.72         | -175.37               | 528.17                              | 86.09        | 1,281.68               | 1,250.15                | 31.53                     | 40.651            |                    |           |
| 4,600.00                                                | 4,527.57              | 4,383.85              | 4,349.28              | 21.77            | 18.13         | -175.40               | 540.94                              | 87.61        | 1,314.11               | 1,281.87                | 32.25                     | 40.752            |                    |           |
| 4,700.00                                                | 4,626.02              | 4,479.04              | 4,443.59              | 22.25            | 18.54         | -175.46               | 553.79                              | 89.15        | 1,346.51               | 1,311.55                | 32.96                     | 40.795            |                    |           |
| 4,800.00                                                | 4,724.96              | 4,575.98              | 4,539.62              | 22.59            | 18.97         | -175.51               | 566.87                              | 90.71        | 1,378.91               | 1,341.61                | 33.64                     | 40.838            |                    |           |
| 4,900.00                                                | 4,822.14              | 4,672.52              | 4,635.27              | 22.79            | 19.39         | -175.56               | 579.91                              | 92.26        | 1,411.31               | 1,374.19                | 34.27                     | 40.871            |                    |           |
| 5,000.00                                                | 4,919.16              | 4,766.29              | 4,728.17              | 22.87            | 19.79         | -175.61               | 592.56                              | 93.78        | 1,443.74               | 1,406.60                | 34.87                     | 39.942            |                    |           |

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





# Scientific Drilling, Intl

Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 632H - Original Drilling - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                               |                       | Offset                |                       | Semi Major Axis  |               | Distance              |                                     | Warning      |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,100.00                                                | 5,001.72              | 4,800.00              | 4,761.53              | 22.85            | 19.94         | 62.30                 | 597.36                              | 94.08        | 1,367.40               | 1,332.38                | 35.02                     | 39.043            |                    |           |
| 5,200.00                                                | 5,079.69              | 4,850.00              | 4,810.61              | 22.76            | 20.18         | 61.88                 | 606.68                              | 92.36        | 1,353.61               | 1,318.28                | 35.33                     | 38.312            |                    |           |
| 5,300.00                                                | 5,147.16              | 4,885.75              | 4,845.26              | 22.61            | 20.37         | 62.60                 | 615.01                              | 89.47        | 1,335.03               | 1,299.41                | 35.62                     | 37.483            |                    |           |
| 5,400.00                                                | 5,202.46              | 4,921.37              | 4,879.27              | 22.44            | 20.57         | 64.35                 | 624.67                              | 85.22        | 1,312.24               | 1,276.16                | 36.08                     | 36.372            |                    |           |
| 5,500.00                                                | 5,244.24              | 4,950.00              | 4,906.18              | 22.25            | 20.73         | 66.70                 | 633.40                              | 80.81        | 1,286.12               | 1,249.40                | 36.72                     | 35.025            |                    |           |
| 5,600.00                                                | 5,271.45              | 4,988.07              | 4,941.25              | 22.07            | 20.96         | 70.04                 | 646.30                              | 73.61        | 1,257.63               | 1,219.85                | 37.78                     | 33.285            |                    |           |
| 5,700.00                                                | 5,283.44              | 5,018.10              | 4,968.29              | 22.05            | 21.15         | 73.60                 | 657.50                              | 66.86        | 1,228.03               | 1,188.94                | 39.09                     | 31.415            |                    |           |
| 5,800.00                                                | 5,284.64              | 5,050.00              | 4,996.31              | 22.98            | 21.36         | 75.52                 | 670.34                              | 58.68        | 1,200.33               | 1,159.63                | 40.70                     | 29.491            |                    |           |
| 5,900.00                                                | 5,285.45              | 5,082.38              | 5,023.97              | 24.28            | 21.59         | 76.88                 | 684.35                              | 49.33        | 1,178.98               | 1,136.44                | 42.54                     | 27.716            |                    |           |
| 6,000.00                                                | 5,286.27              | 5,124.41              | 5,058.54              | 25.74            | 21.89         | 78.58                 | 703.94                              | 35.66        | 1,164.06               | 1,119.41                | 44.66                     | 26.068            |                    |           |
| 6,100.00                                                | 5,287.08              | 5,175.56              | 5,098.42              | 27.34            | 22.29         | 80.55                 | 729.78                              | 16.78        | 1,155.23               | 1,108.26                | 46.96                     | 24.599            |                    |           |
| 6,200.00                                                | 5,287.90              | 5,238.23              | 5,143.62              | 29.05            | 22.83         | 82.80                 | 764.24                              | -9.56        | 1,151.77               | 1,102.25                | 49.52                     | 23.260            |                    |           |
| 6,226.81                                                | 5,288.11              | 5,257.34              | 5,156.54              | 29.53            | 23.00         | 83.44                 | 775.31                              | -18.25       | 1,151.62               | 1,101.38                | 50.25                     | 22.919            |                    |           |
| 6,300.00                                                | 5,288.71              | 5,315.09              | 5,192.97              | 30.86            | 23.56         | 85.25                 | 810.22                              | -46.32       | 1,152.57               | 1,100.26                | 52.31                     | 22.032            |                    |           |
| 6,400.00                                                | 5,289.53              | 5,408.46              | 5,242.93              | 32.74            | 24.57         | 87.71                 | 870.68                              | -96.83       | 1,156.09               | 1,100.68                | 55.42                     | 20.862            |                    |           |
| 6,500.00                                                | 5,290.34              | 5,518.87              | 5,286.50              | 34.70            | 25.97         | 89.83                 | 946.99                              | -163.45      | 1,160.45               | 1,101.53                | 58.92                     | 19.697            |                    |           |
| 6,600.00                                                | 5,291.16              | 5,643.15              | 5,313.95              | 36.72            | 27.76         | 91.13                 | 1,036.41                            | -244.98      | 1,163.77               | 1,100.92                | 62.84                     | 18.519            |                    |           |
| 6,700.00                                                | 5,291.97              | 5,760.68              | 5,319.33              | 38.78            | 29.64         | 91.35                 | 1,121.56                            | -325.67      | 1,165.00               | 1,098.13                | 66.88                     | 17.421            |                    |           |
| 6,800.00                                                | 5,292.79              | 5,860.68              | 5,320.11              | 40.89            | 31.36         | 91.35                 | 1,193.87                            | -394.74      | 1,165.80               | 1,095.02                | 70.78                     | 16.471            |                    |           |
| 6,900.00                                                | 5,293.60              | 5,960.68              | 5,320.90              | 43.04            | 33.18         | 91.34                 | 1,266.18                            | -463.80      | 1,166.60               | 1,091.78                | 74.82                     | 15.593            |                    |           |
| 7,000.00                                                | 5,294.42              | 6,060.67              | 5,321.68              | 45.22            | 35.07         | 91.34                 | 1,338.49                            | -532.87      | 1,167.40               | 1,088.44                | 78.96                     | 14.785            |                    |           |
| 7,100.00                                                | 5,295.23              | 6,160.67              | 5,322.47              | 47.43            | 37.04         | 91.34                 | 1,410.80                            | -601.94      | 1,168.20               | 1,085.00                | 83.20                     | 14.041            |                    |           |
| 7,200.00                                                | 5,296.05              | 6,260.67              | 5,323.25              | 49.66            | 39.07         | 91.34                 | 1,483.11                            | -671.00      | 1,169.00               | 1,081.48                | 87.51                     | 13.358            |                    |           |
| 7,300.00                                                | 5,296.86              | 6,360.66              | 5,324.03              | 51.92            | 41.15         | 91.33                 | 1,555.41                            | -740.07      | 1,169.79               | 1,077.90                | 91.90                     | 12.729            |                    |           |
| 7,400.00                                                | 5,297.68              | 6,460.66              | 5,324.82              | 54.19            | 43.27         | 91.33                 | 1,627.72                            | -809.14      | 1,170.59               | 1,074.25                | 96.34                     | 12.151            |                    |           |
| 7,500.00                                                | 5,298.49              | 6,560.66              | 5,325.60              | 56.48            | 45.42         | 91.33                 | 1,700.03                            | -878.21      | 1,171.39               | 1,070.56                | 100.83                    | 11.617            |                    |           |
| 7,600.00                                                | 5,299.31              | 6,660.65              | 5,326.39              | 58.79            | 47.61         | 91.33                 | 1,772.34                            | -947.27      | 1,172.19               | 1,066.83                | 105.36                    | 11.125            |                    |           |
| 7,700.00                                                | 5,300.12              | 6,760.65              | 5,327.17              | 61.10            | 49.83         | 91.33                 | 1,844.65                            | -1,016.34    | 1,172.99               | 1,063.05                | 109.94                    | 10.670            |                    |           |
| 7,800.00                                                | 5,300.94              | 6,860.65              | 5,327.95              | 63.43            | 52.07         | 91.32                 | 1,916.96                            | -1,085.41    | 1,173.79               | 1,059.25                | 114.54                    | 10.248            |                    |           |
| 7,900.00                                                | 5,301.75              | 6,960.64              | 5,328.74              | 65.77            | 54.33         | 91.32                 | 1,989.26                            | -1,154.47    | 1,174.59               | 1,055.41                | 119.18                    | 9.856             |                    |           |
| 8,000.00                                                | 5,302.57              | 7,060.64              | 5,329.52              | 68.12            | 56.61         | 91.32                 | 2,061.57                            | -1,223.54    | 1,175.38               | 1,051.55                | 123.83                    | 9.492             |                    |           |
| 8,100.00                                                | 5,303.38              | 7,160.64              | 5,330.31              | 70.48            | 58.91         | 91.32                 | 2,133.88                            | -1,292.61    | 1,176.18               | 1,047.67                | 128.52                    | 9.152             |                    |           |
| 8,200.00                                                | 5,304.20              | 7,260.63              | 5,331.09              | 72.85            | 61.22         | 91.31                 | 2,206.19                            | -1,361.68    | 1,176.98               | 1,043.76                | 133.22                    | 8.835             |                    |           |
| 8,300.00                                                | 5,305.01              | 7,360.63              | 5,331.87              | 75.22            | 63.54         | 91.31                 | 2,278.50                            | -1,430.74    | 1,177.78               | 1,039.84                | 137.94                    | 8.538             |                    |           |
| 8,400.00                                                | 5,305.83              | 7,460.63              | 5,332.66              | 77.60            | 65.88         | 91.31                 | 2,350.81                            | -1,499.81    | 1,178.58               | 1,035.90                | 142.68                    | 8.260             |                    |           |
| 8,500.00                                                | 5,306.64              | 7,560.62              | 5,333.44              | 79.99            | 68.23         | 91.31                 | 2,423.11                            | -1,568.88    | 1,179.38               | 1,031.95                | 147.43                    | 8.000             |                    |           |
| 8,600.00                                                | 5,307.46              | 7,660.62              | 5,334.23              | 82.38            | 70.58         | 91.30                 | 2,495.42                            | -1,637.94    | 1,180.18               | 1,027.98                | 152.20                    | 7.754             |                    |           |
| 8,700.00                                                | 5,308.27              | 7,760.62              | 5,335.01              | 84.77            | 72.94         | 91.30                 | 2,567.73                            | -1,707.01    | 1,180.97               | 1,024.00                | 156.97                    | 7.523             |                    |           |
| 8,800.00                                                | 5,309.09              | 7,860.61              | 5,335.79              | 87.17            | 75.31         | 91.30                 | 2,640.04                            | -1,776.08    | 1,181.77               | 1,020.01                | 161.76                    | 7.306             |                    |           |
| 8,900.00                                                | 5,309.90              | 7,960.61              | 5,336.58              | 89.58            | 77.69         | 91.30                 | 2,712.35                            | -1,845.14    | 1,182.57               | 1,016.01                | 166.56                    | 7.100             |                    |           |
| 9,000.00                                                | 5,310.72              | 8,060.61              | 5,337.36              | 91.99            | 80.07         | 91.29                 | 2,784.65                            | -1,914.21    | 1,183.37               | 1,012.00                | 171.37                    | 6.905             |                    |           |
| 9,100.00                                                | 5,311.53              | 8,160.61              | 5,338.15              | 94.40            | 82.46         | 91.29                 | 2,856.96                            | -1,983.28    | 1,184.17               | 1,007.99                | 176.18                    | 6.721             |                    |           |
| 9,200.00                                                | 5,312.35              | 8,260.60              | 5,338.93              | 96.82            | 84.86         | 91.29                 | 2,929.27                            | -2,052.35    | 1,184.97               | 1,003.96                | 181.01                    | 6.547             |                    |           |
| 9,300.00                                                | 5,313.16              | 8,360.60              | 5,339.72              | 99.23            | 87.26         | 91.29                 | 3,001.58                            | -2,121.41    | 1,185.76               | 999.93                  | 185.84                    | 6.381             |                    |           |
| 9,400.00                                                | 5,313.98              | 8,460.60              | 5,340.50              | 101.66           | 89.66         | 91.28                 | 3,073.89                            | -2,190.48    | 1,186.56               | 995.89                  | 190.67                    | 6.223             |                    |           |
| 9,500.00                                                | 5,314.79              | 8,560.59              | 5,341.28              | 104.08           | 92.07         | 91.28                 | 3,146.20                            | -2,259.55    | 1,187.36               | 991.84                  | 195.52                    | 6.073             |                    |           |
| 9,600.00                                                | 5,315.61              | 8,660.59              | 5,342.07              | 106.51           | 94.48         | 91.28                 | 3,218.50                            | -2,328.61    | 1,188.16               | 987.79                  | 200.37                    | 5.930             |                    |           |
| 9,700.00                                                | 5,316.42              | 8,760.59              | 5,342.85              | 108.94           | 96.90         | 91.28                 | 3,290.81                            | -2,397.68    | 1,188.96               | 983.74                  | 205.22                    | 5.794             |                    |           |
| 9,800.00                                                | 5,317.24              | 8,860.58              | 5,343.64              | 111.37           | 99.31         | 91.28                 | 3,363.12                            | -2,466.75    | 1,189.76               | 979.68                  | 210.08                    | 5.663             |                    |           |
| 9,900.00                                                | 5,318.05              | 8,960.58              | 5,344.42              | 113.80           | 101.73        | 91.27                 | 3,435.43                            | -2,535.82    | 1,190.56               | 975.61                  | 214.94                    | 5.539             |                    |           |

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





# Scientific Drilling, Intl

## Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| Offset Design G35 2409 - 632H - Original Drilling - APD |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                              |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Well Error: | 0.00 usft |
| Reference                                               |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                    |           |
| Measured<br>Depth<br>(usft)                             | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |         |                    |           |
| 10,000.00                                               | 5,318.87                    | 9,060.58                    | 5,345.20                    | 116.24              | 104.16           | 91.27                       | 3,507.74                                  | -2,604.88       | 1,191.35                     | 971.54                        | 219.81                          | 5.420                |         |                    |           |
| 10,100.00                                               | 5,319.68                    | 9,160.57                    | 5,345.99                    | 118.67              | 106.59           | 91.27                       | 3,580.05                                  | -2,673.95       | 1,192.15                     | 967.47                        | 224.68                          | 5.306                |         |                    |           |
| 10,200.00                                               | 5,320.50                    | 9,260.57                    | 5,346.77                    | 121.11              | 109.01           | 91.27                       | 3,652.35                                  | -2,743.02       | 1,192.95                     | 963.39                        | 229.56                          | 5.197                |         |                    |           |
| 10,300.00                                               | 5,321.31                    | 9,360.57                    | 5,347.56                    | 123.55              | 111.44           | 91.26                       | 3,724.66                                  | -2,812.08       | 1,193.75                     | 959.31                        | 234.44                          | 5.092                |         |                    |           |
| 10,400.00                                               | 5,322.13                    | 9,460.56                    | 5,348.34                    | 125.99              | 113.88           | 91.26                       | 3,796.97                                  | -2,881.15       | 1,194.55                     | 955.23                        | 239.32                          | 4.991                |         |                    |           |
| 10,500.00                                               | 5,322.94                    | 9,560.56                    | 5,349.12                    | 128.44              | 116.31           | 91.26                       | 3,869.28                                  | -2,950.22       | 1,195.35                     | 951.14                        | 244.21                          | 4.895                |         |                    |           |
| 10,600.00                                               | 5,323.76                    | 9,660.56                    | 5,349.91                    | 130.88              | 118.75           | 91.26                       | 3,941.59                                  | -3,019.29       | 1,196.15                     | 947.05                        | 249.09                          | 4.802                |         |                    |           |
| 10,700.00                                               | 5,324.57                    | 9,760.55                    | 5,350.69                    | 133.33              | 121.19           | 91.25                       | 4,013.90                                  | -3,088.35       | 1,196.94                     | 942.96                        | 253.99                          | 4.713                |         |                    |           |
| 10,800.00                                               | 5,325.39                    | 9,860.55                    | 5,351.48                    | 135.77              | 123.63           | 91.25                       | 4,086.20                                  | -3,157.42       | 1,197.74                     | 938.86                        | 258.88                          | 4.627                |         |                    |           |
| 10,900.00                                               | 5,326.20                    | 9,960.55                    | 5,352.26                    | 138.22              | 126.07           | 91.25                       | 4,158.51                                  | -3,226.49       | 1,198.54                     | 934.77                        | 263.77                          | 4.544                |         |                    |           |
| 11,000.00                                               | 5,327.02                    | 10,060.54                   | 5,353.04                    | 140.67              | 128.51           | 91.25                       | 4,230.82                                  | -3,295.55       | 1,199.34                     | 930.67                        | 268.67                          | 4.464                |         |                    |           |
| 11,100.00                                               | 5,327.83                    | 10,160.54                   | 5,353.83                    | 143.12              | 130.96           | 91.24                       | 4,303.13                                  | -3,364.62       | 1,200.14                     | 926.57                        | 273.57                          | 4.387                |         |                    |           |
| 11,200.00                                               | 5,328.65                    | 10,260.54                   | 5,354.61                    | 145.57              | 133.40           | 91.24                       | 4,375.44                                  | -3,433.69       | 1,200.94                     | 922.46                        | 278.48                          | 4.313                |         |                    |           |
| 11,300.00                                               | 5,329.46                    | 10,360.53                   | 5,355.40                    | 148.02              | 135.85           | 91.24                       | 4,447.74                                  | -3,502.75       | 1,201.74                     | 918.36                        | 283.38                          | 4.241                |         |                    |           |
| 11,400.00                                               | 5,330.28                    | 10,460.53                   | 5,356.18                    | 150.48              | 138.30           | 91.24                       | 4,520.05                                  | -3,571.82       | 1,202.53                     | 914.25                        | 288.29                          | 4.171                |         |                    |           |
| 11,500.00                                               | 5,331.09                    | 10,560.53                   | 5,356.97                    | 152.93              | 140.75           | 91.24                       | 4,592.36                                  | -3,640.89       | 1,203.33                     | 910.14                        | 293.19                          | 4.104                |         |                    |           |
| 11,600.00                                               | 5,331.91                    | 10,660.53                   | 5,357.75                    | 155.39              | 143.20           | 91.23                       | 4,664.67                                  | -3,709.96       | 1,204.13                     | 906.03                        | 298.10                          | 4.039                |         |                    |           |
| 11,700.00                                               | 5,332.72                    | 10,760.52                   | 5,358.53                    | 157.84              | 145.65           | 91.23                       | 4,736.98                                  | -3,779.02       | 1,204.93                     | 901.92                        | 303.01                          | 3.976                |         |                    |           |
| 11,800.00                                               | 5,333.54                    | 10,860.52                   | 5,359.32                    | 160.30              | 148.10           | 91.23                       | 4,809.29                                  | -3,848.09       | 1,205.73                     | 897.80                        | 307.93                          | 3.916                |         |                    |           |
| 11,900.00                                               | 5,334.35                    | 10,960.52                   | 5,360.10                    | 162.75              | 150.56           | 91.23                       | 4,881.59                                  | -3,917.16       | 1,206.53                     | 893.69                        | 312.84                          | 3.857                |         |                    |           |
| 12,000.00                                               | 5,335.17                    | 11,060.51                   | 5,360.89                    | 165.21              | 153.01           | 91.22                       | 4,953.90                                  | -3,986.22       | 1,207.33                     | 889.57                        | 317.76                          | 3.800                |         |                    |           |
| 12,100.00                                               | 5,335.98                    | 11,160.51                   | 5,361.67                    | 167.67              | 155.46           | 91.22                       | 5,026.21                                  | -4,055.29       | 1,208.12                     | 885.45                        | 322.67                          | 3.744                |         |                    |           |
| 12,200.00                                               | 5,336.80                    | 11,260.51                   | 5,362.45                    | 170.13              | 157.92           | 91.22                       | 5,098.52                                  | -4,124.36       | 1,208.92                     | 881.33                        | 327.59                          | 3.690                |         |                    |           |
| 12,300.00                                               | 5,337.61                    | 11,360.50                   | 5,363.24                    | 172.59              | 160.38           | 91.22                       | 5,170.83                                  | -4,193.43       | 1,209.72                     | 877.21                        | 332.51                          | 3.638                |         |                    |           |
| 12,400.00                                               | 5,338.43                    | 11,460.50                   | 5,364.02                    | 175.05              | 162.83           | 91.22                       | 5,243.14                                  | -4,262.49       | 1,210.52                     | 873.09                        | 337.43                          | 3.587                |         |                    |           |
| 12,500.00                                               | 5,339.24                    | 11,560.50                   | 5,364.81                    | 177.51              | 165.29           | 91.21                       | 5,315.44                                  | -4,331.56       | 1,211.32                     | 868.97                        | 342.35                          | 3.538                |         |                    |           |
| 12,600.00                                               | 5,340.06                    | 11,660.49                   | 5,365.59                    | 179.97              | 167.75           | 91.21                       | 5,387.75                                  | -4,400.63       | 1,212.12                     | 864.84                        | 347.27                          | 3.490                |         |                    |           |
| 12,700.00                                               | 5,340.87                    | 11,760.49                   | 5,366.37                    | 182.43              | 170.21           | 91.21                       | 5,460.06                                  | -4,469.69       | 1,212.92                     | 860.72                        | 352.20                          | 3.444                |         |                    |           |
| 12,800.00                                               | 5,341.69                    | 11,860.49                   | 5,367.16                    | 184.89              | 172.67           | 91.21                       | 5,532.37                                  | -4,538.76       | 1,213.71                     | 856.59                        | 357.12                          | 3.399                |         |                    |           |
| 12,900.00                                               | 5,342.50                    | 11,960.48                   | 5,367.94                    | 187.35              | 175.13           | 91.20                       | 5,604.68                                  | -4,607.83       | 1,214.51                     | 852.47                        | 362.05                          | 3.355                |         |                    |           |
| 13,000.00                                               | 5,343.32                    | 12,060.48                   | 5,368.73                    | 189.82              | 177.59           | 91.20                       | 5,676.99                                  | -4,676.90       | 1,215.31                     | 848.34                        | 366.97                          | 3.312                |         |                    |           |
| 13,100.00                                               | 5,344.13                    | 12,160.48                   | 5,369.51                    | 192.28              | 180.05           | 91.20                       | 5,749.29                                  | -4,745.96       | 1,216.11                     | 844.21                        | 371.90                          | 3.270                |         |                    |           |
| 13,200.00                                               | 5,344.95                    | 12,260.47                   | 5,370.29                    | 194.74              | 182.51           | 91.20                       | 5,821.60                                  | -4,815.03       | 1,216.91                     | 840.08                        | 376.83                          | 3.229                |         |                    |           |
| 13,300.00                                               | 5,345.76                    | 12,360.47                   | 5,371.08                    | 197.21              | 184.97           | 91.19                       | 5,893.91                                  | -4,884.10       | 1,217.71                     | 835.95                        | 381.76                          | 3.190                |         |                    |           |
| 13,400.00                                               | 5,346.58                    | 12,460.47                   | 5,371.86                    | 199.67              | 187.43           | 91.19                       | 5,966.22                                  | -4,953.16       | 1,218.51                     | 831.82                        | 386.69                          | 3.151                |         |                    |           |
| 13,500.00                                               | 5,347.39                    | 12,560.46                   | 5,372.65                    | 202.14              | 189.90           | 91.19                       | 6,038.53                                  | -5,022.23       | 1,219.30                     | 827.69                        | 391.62                          | 3.114                |         |                    |           |
| 13,600.00                                               | 5,348.21                    | 12,660.46                   | 5,373.43                    | 204.60              | 192.36           | 91.19                       | 6,110.83                                  | -5,091.30       | 1,220.10                     | 823.56                        | 396.55                          | 3.077                |         |                    |           |
| 13,700.00                                               | 5,349.02                    | 12,760.46                   | 5,374.22                    | 207.07              | 194.82           | 91.19                       | 6,183.14                                  | -5,160.36       | 1,220.90                     | 819.42                        | 401.48                          | 3.041                |         |                    |           |
| 13,800.00                                               | 5,349.84                    | 12,860.45                   | 5,375.00                    | 209.53              | 197.29           | 91.18                       | 6,255.45                                  | -5,229.43       | 1,221.70                     | 815.29                        | 406.41                          | 3.006                |         |                    |           |
| 13,900.00                                               | 5,350.66                    | 12,960.45                   | 5,375.78                    | 212.00              | 199.75           | 91.18                       | 6,327.76                                  | -5,298.50       | 1,222.50                     | 811.16                        | 411.34                          | 2.972                |         |                    |           |
| 14,000.00                                               | 5,351.47                    | 13,060.45                   | 5,376.57                    | 214.46              | 202.22           | 91.18                       | 6,400.07                                  | -5,367.57       | 1,223.30                     | 807.02                        | 416.28                          | 2.939                |         |                    |           |
| 14,100.00                                               | 5,352.29                    | 13,160.45                   | 5,377.35                    | 216.93              | 204.68           | 91.18                       | 6,472.38                                  | -5,436.63       | 1,224.10                     | 802.89                        | 421.21                          | 2.906                |         |                    |           |
| 14,200.00                                               | 5,353.10                    | 13,260.44                   | 5,378.14                    | 219.40              | 207.15           | 91.17                       | 6,544.68                                  | -5,505.70       | 1,224.89                     | 798.75                        | 426.14                          | 2.874                |         |                    |           |
| 14,300.00                                               | 5,353.92                    | 13,360.44                   | 5,378.92                    | 221.87              | 209.61           | 91.17                       | 6,616.99                                  | -5,574.77       | 1,225.69                     | 794.62                        | 431.08                          | 2.843                |         |                    |           |
| 14,400.00                                               | 5,354.73                    | 13,460.44                   | 5,379.70                    | 224.33              | 212.08           | 91.17                       | 6,689.30                                  | -5,643.83       | 1,226.49                     | 790.48                        | 436.01                          | 2.813                |         |                    |           |
| 14,500.00                                               | 5,355.55                    | 13,560.43                   | 5,380.49                    | 226.80              | 214.55           | 91.17                       | 6,761.61                                  | -5,712.90       | 1,227.29                     | 786.34                        | 440.95                          | 2.783                |         |                    |           |
| 14,600.00                                               | 5,356.36                    | 13,660.43                   | 5,381.27                    | 229.27              | 217.01           | 91.17                       | 6,833.92                                  | -5,781.97       | 1,228.09                     | 782.20                        | 445.89                          | 2.754                |         |                    |           |
| 14,700.00                                               | 5,357.18                    | 13,760.43                   | 5,382.06                    | 231.74              | 219.48           | 91.16                       | 6,906.23                                  | -5,851.04       | 1,228.89                     | 778.06                        | 450.82                          | 2.726                |         |                    |           |
| 14,800.00                                               | 5,357.99                    | 13,860.42                   | 5,382.84                    | 234.20              | 221.95           | 91.16                       | 6,978.53                                  | -5,920.10       | 1,229.69                     | 773.93                        | 455.76                          | 2.698                |         |                    |           |
| 14,900.00                                               | 5,358.81                    | 13,960.42                   | 5,383.62                    | 236.67              | 224.42           | 91.16                       | 7,050.84                                  | -5,989.17       | 1,230.49                     | 769.79                        | 460.70                          | 2.671                |         |                    |           |
| 15,000.00                                               | 5,359.62                    | 14,060.42                   | 5,384.41                    | 239.14              | 226.88           | 91.16                       | 7,123.15                                  | -6,058.24       | 1,231.28                     | 765.65                        | 465.64                          | 2.644                |         |                    |           |

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





**Scientific Drilling, Intl**  
Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

| <b>Offset Design</b> G35 2409 - 632H - Original Drilling - APD |                             |                             |                             |                     |                  |                             |                                    |                           |                              |                               |                                 |                      | <b>Offset Site Error:</b> 0.00 usft |
|----------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------------------|---------------------------|------------------------------|-------------------------------|---------------------------------|----------------------|-------------------------------------|
| Survey Program: 0-MWD+IGRF                                     |                             |                             |                             |                     |                  |                             |                                    |                           |                              |                               |                                 |                      | <b>Offset Well Error:</b> 0.00 usft |
| Reference                                                      |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                           |                           | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                             |
| Measured<br>Depth<br>(usft)                                    | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore<br>+N/-S<br>(usft) | Centre<br>+E/-W<br>(usft) |                              |                               |                                 |                      |                                     |
| 15,100.00                                                      | 5,360.44                    | 14,160.41                   | 5,385.19                    | 241.61              | 229.35           | 91.16                       | 7,195.46                           | -6,127.30                 | 1,232.08                     | 761.51                        | 470.58                          | 2.618                |                                     |
| 15,169.25                                                      | 5,361.00                    | 14,229.66                   | 5,385.74                    | 243.32              | 231.06           | 91.15                       | 7,245.53                           | -6,175.13                 | 1,232.61                     | 758.62                        | 473.99                          | 2.600 SF             |                                     |

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



# Scientific Drilling, Intl

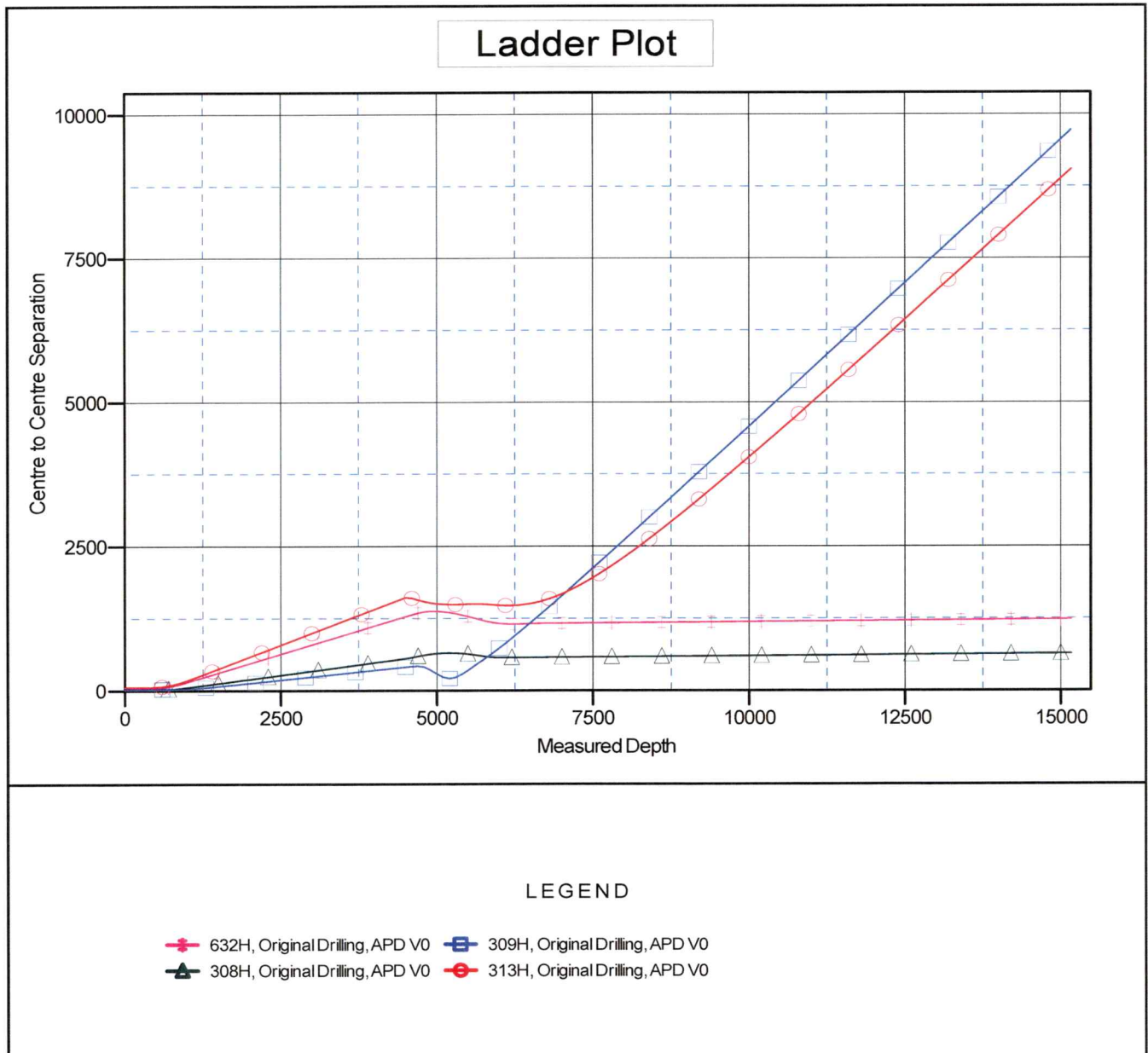
Anticollision Report



|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

Reference Depths are relative to GL 6899' & RKB 14' @ 6913.00usft (A)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.8333334

Coordinates are relative to: 310H - Slot 4  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: 0.04°



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





# Scientific Drilling, Intl

Anticollision Report

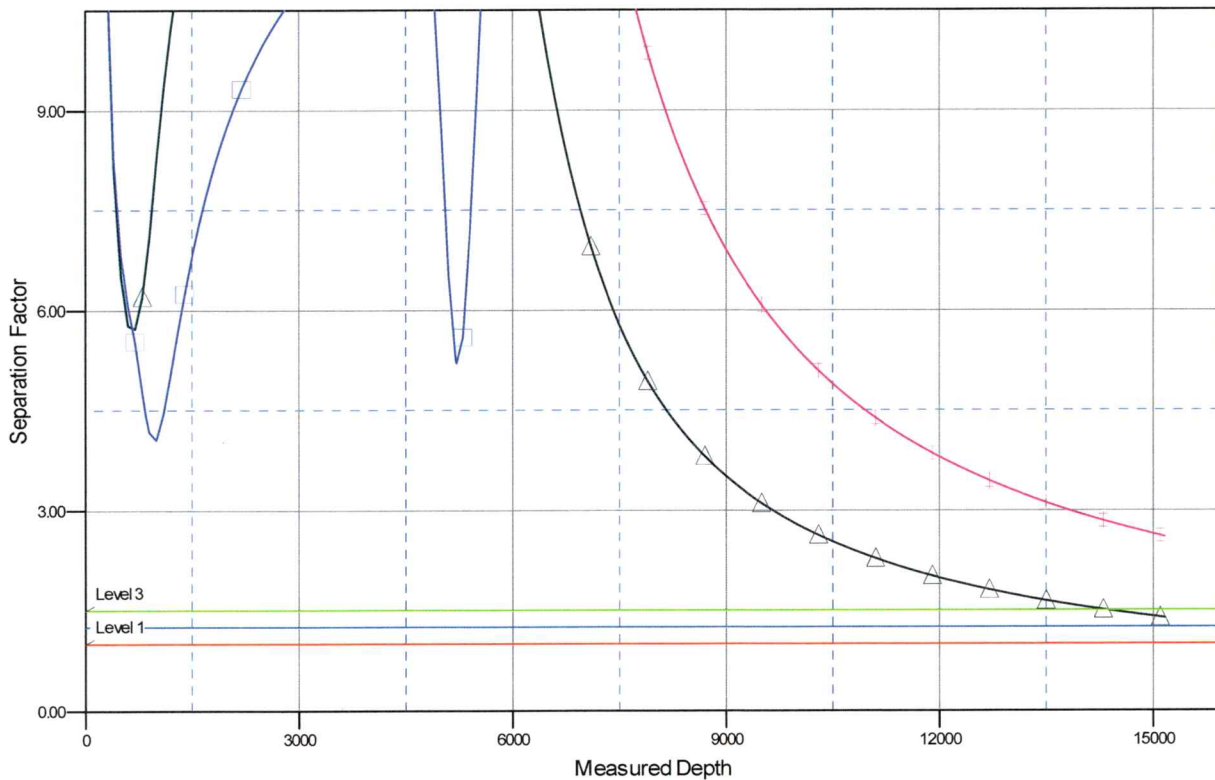


|                           |                   |                                     |                                              |
|---------------------------|-------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>           | DJR Operating     | <b>Local Co-ordinate Reference:</b> | Well 310H - Slot 4                           |
| <b>Project:</b>           | Nageezi Unit      | <b>TVD Reference:</b>               | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Reference Site:</b>    | G35 2409          | <b>MD Reference:</b>                | GL 6899' & RKB 14' @ 6913.00usft (Aztec 920) |
| <b>Site Error:</b>        | 0.00 usft         | <b>North Reference:</b>             | True                                         |
| <b>Reference Well:</b>    | 310H              | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Well Error:</b>        | 0.00 usft         | <b>Output errors are at</b>         | 2.00 sigma                                   |
| <b>Reference Wellbore</b> | Original Drilling | <b>Database:</b>                    | Grand Junction                               |
| <b>Reference Design:</b>  | APD               | <b>Offset TVD Reference:</b>        | Offset Datum                                 |

Reference Depths are relative to GL 6899' & RKB 14' @ 6913.00usft (A)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.8333334

Coordinates are relative to: 310H - Slot 4  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: 0.04°

## Separation Factor Plot



## LEGEND

- 632H, Original Drilling, APD V0
- 309H, Original Drilling, APD V0
- 308H, Original Drilling, APD V0
- 313H, Original Drilling, APD V0

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

G35-2409

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit Original  
to Appropriate  
District Office

### GAS CAPTURE PLAN

Date: 2/4/2020

☒ Original

Operator & OGRID No.: **DJR Operating LLC. : 371838**

☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name         | API     | Well Location (ULSTR)       | Footages             | Expected MCF/D | Flared or Vented | Comments |
|-------------------|---------|-----------------------------|----------------------|----------------|------------------|----------|
| Nageezi Unit 308H | Pending | SWNE, Section 35, T24N, R9W | 2333' FNL, 2295' FEL | 850            | Flared           |          |
| Nageezi Unit 309H | Pending | SWNE, Section 35, T24N, R9W | 2363' FNL, 2321' FEL | 975            | Flared           |          |
| Nageezi Unit 310H | Pending | SWNE, Section 35, T24N, R9W | 2348' FNL, 2308' FEL | 975            | Flared           |          |
| Nageezi Unit 313H | Pending | SWNE, Section 35, T24N, R9W | 2303' FNL, 2268' FEL | 960            | Flared           |          |
| Nageezi Unit 632H | Pending | SWNE, Section 35, T24N, R9W | 2318' FNL, 2282' FEL | 975            | Flared           |          |

#### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to **Enterprise Field Services, LLC (Enterprise)** and will be connected to **Enterprise's** low/high pressure gathering system located in **San Juan** County, New Mexico. It will require approximately **11,270'** of pipeline to connect the facility to DJR Operating LLC. low/high pressure **Escrito Trunk in Sec. 3, T23N, R9W** which ties into **Enterprise's** existing pipeline in **Section 12, T24N, R10W**. **DJR Operating LLC.** provides (periodically) to **Enterprise** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **DJR Operating LLC.** and **Enterprise** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the **Chaco Processing Plant** located in **Sec. 16, Twn 26N, Rng 12W, San Juan** County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Enterprise** system at that time. Based on current information, it is **DJR Operating LLC's** belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



**District I**

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**District II**

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**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 16794

**COMMENTS**

|             |                                     |             |                |        |        |                |              |              |             |
|-------------|-------------------------------------|-------------|----------------|--------|--------|----------------|--------------|--------------|-------------|
| Operator:   | DJR OPERATING, LLC                  | 1 Road 3263 | Aztec, NM87410 | OGRID: | 371838 | Action Number: | 16794        | Action Type: | FORM 3160-3 |
| Created By  | Comment                             |             |                |        |        |                | Comment Date |              |             |
| ahvermersch | See attached letter for NMOCD COA's |             |                |        |        |                | 02/03/2021   |              |             |

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 16794

CONDITIONS OF APPROVAL

|                                                                      |  |                                              |                  |                         |                             |
|----------------------------------------------------------------------|--|----------------------------------------------|------------------|-------------------------|-----------------------------|
| Operator:<br>DJR OPERATING, LLC      1 Road 3263      Aztec, NM87410 |  |                                              | OGRID:<br>371838 | Action Number:<br>16794 | Action Type:<br>FORM 3160-3 |
|                                                                      |  |                                              |                  |                         |                             |
| OCD Reviewer                                                         |  | Condition                                    |                  |                         |                             |
| ahvermersch                                                          |  | Notify OCD 24 hours prior to casing & cement |                  |                         |                             |