

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-045-38367
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
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	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
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)



Approval Date: 08/12/2024

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-045-38367	Pool Code 98080	Pool Name NAGEEZI UNIT; MANCOS (OIL)
Property Code 325268	Property Name NAGEEZI UNIT	Well Number 701H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6711'
Surface Owner: ☐ State ☐ Fee ☒ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☐ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	4	23N	9W		1135' SOUTH	131' EAST	36.251880° N	107.785814° W	SAN JUAN

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	4	23N	9W	4	344' NORTH	21' WEST	36.262313° N	107.803182° W	SAN JUAN

Dedicated Acres PENETRATED SPACING UNIT; SEC 4: SE/SE, SW/SE, NW/SE, NE/SW & NW/4 (321.96 AC.); SEC 5: LOT 1 (40.96 AC.) = 362.92 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:	Well Setbacks are under Common Ownership: ☐ Yes ☐ No			

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
O	4	23N	9W		582' SOUTH	1328' EAST	36.250341° N	107.789882° W	SAN JUAN

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
O	4	23N	9W		582' SOUTH	1328' EAST	36.250341° N	107.789882° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	4	23N	9W	4	344' NORTH	21' WEST	36.262313° N	107.803182° W	SAN JUAN

Unitized Area or Area of Uniform Interest NAGEEZI	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford

Signature

8/28/2024

Date

Shaw-Marie Ford

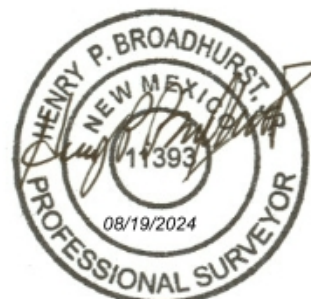
Printed Name

sford@enduringresources.com

E-mail Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor:

Certificate Number

11393

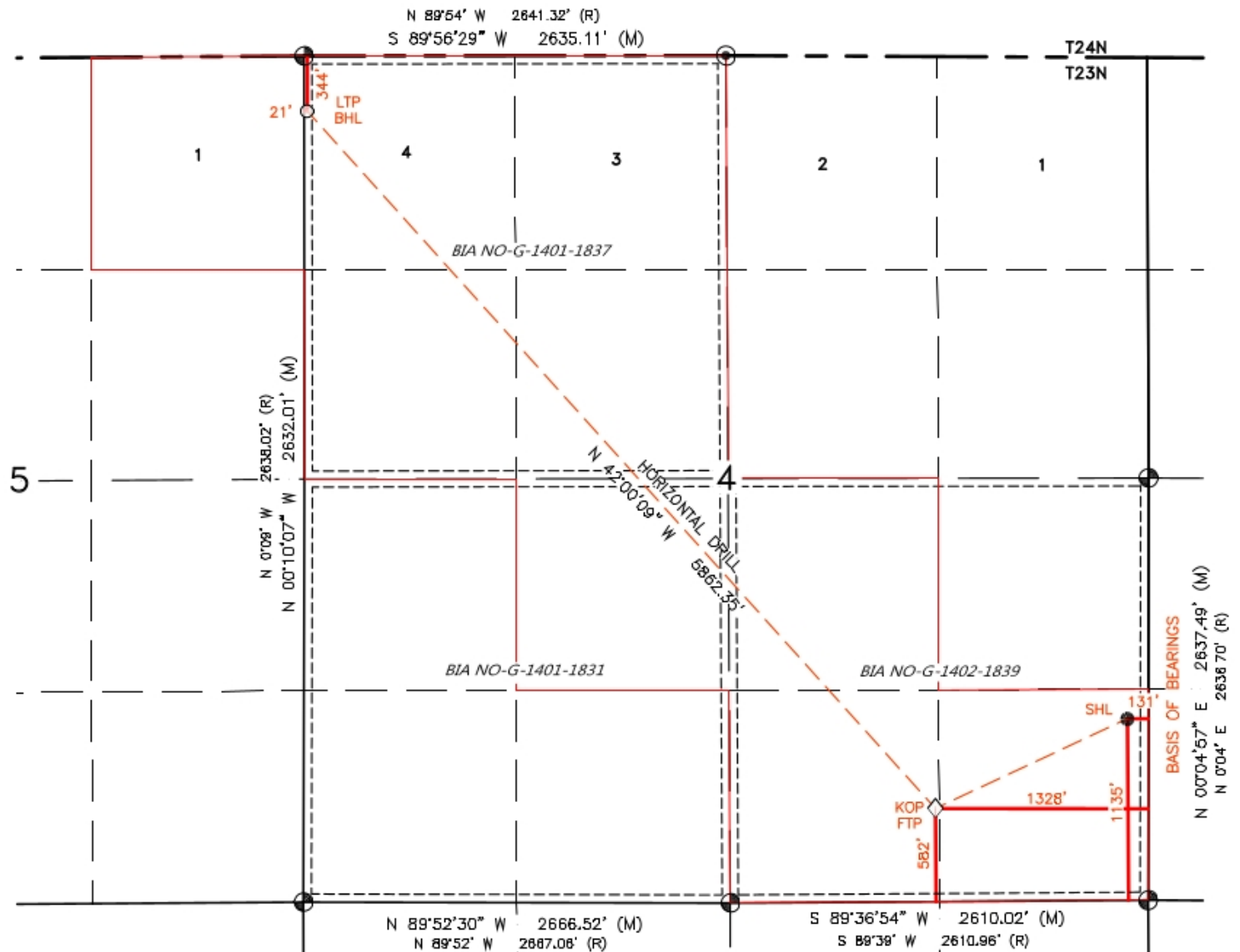
Date of Survey

MARCH 24, 2023

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

FND 2 1/2" BC
GLO 1947

FND 2 1/2" BC
GLO 1933



SURFACE LOCATION (SHL)
1135' FSL 131' FEL
SEC. 4, T23N, R9W
LAT. 36.251880° N (NAD83)
LONG. 107.785814° W (NAD83)

FIRST TAKE POINT (FTP)
582' FSL 1328' FEL
SEC. 4, T23N, R9W
LAT. 36.250341° N (NAD83)
LONG. 107.789882° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
344' FNL 21' FWL
SEC. 4, T23N, R9W
LAT. 36.262313° N (NAD83)
LONG. 107.803182° W (NAD83)

KICK OFF POINT (KOP)
582' FSL 1328' FEL
SEC. 4, T23N, R9W
LAT. 36.250341° N (NAD83)
LONG. 107.789882° W (NAD83)

LAST TAKE POINT (LTP)
344' FNL 21' FWL
SEC. 4, T23N, R9W
LAT. 36.262313° N (NAD83)
LONG. 107.803182° W (NAD83)

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** DJR Operating, LLC **OGRID:** 371838 **Date:** 08 / 19 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
NAGEEZI UNIT 701H	TBD	P-04-23N-09W	1135 FSL x 131 FEL	185	47	46
NAGEEZI UNIT 704H	TBD	P-04-23N-09W	1134 FSL x 111 FEL	200	51	50
NAGEEZI UNIT 732H	TBD	P-04-23N-09W	1134 FSL x 71 FEL	225	58	56
NAGEEZI UNIT 733H	TBD	P-04-23N-09W	1134 FSL x 91 FEL	194	50	48

IV. Central Delivery Point Name: Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
NAGEEZI UNIT 701H	TBD	12/27/2024	1/6/2025	2/13/2025	2/28/2025	3/2/2025
NAGEEZI UNIT 704H	TBD	1/4/2025	1/14/2025	2/13/2025	3/4/2025	3/6/2025
NAGEEZI UNIT 732H	TBD	1/13/2025	1/23/2025	2/13/2025	3/9/2025	3/11/2025
NAGEEZI UNIT 733H	TBD	1/21/2025	1/31/2025	2/13/2025	3/14/2025	3/16/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 8/19/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 701H, 704H, 732H, and 733H
SESE P-04-23N-09W

SEPARATION EQUIPMENT

DJR Operating, LLC (DJR) has pulled representative pressurized samples from wells in the same producing formation. DJR has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- Individual 3-phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3-phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 701H, 704H, 732H, and 733H
SESE P-04-23N-09W

VENTING and FLARING

DJR Operating, LLC (DJR) has a natural gas system available prior to startup of completion operations. DJR utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, DJR utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) DJR utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) DJR's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

DJR will only flare gas during the following times:

- Scheduled maintenance for gas capturing equipment including:
 - Vapor Recovery Tower
 - Vapor Recovery Unit
 - Storage tanks
 - Pipelines
 - Emergency flaring



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 701H, 704H, 732H, and 733H
SESE P-04-23N-09W

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

DJR Operating, LLC (DJR) understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

19.15.27.8 B. Venting and flaring during drilling operations

- DJR shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- In the event of an emergency, DJR will vent natural gas in order to avoid substantial impact. DJR shall report the vented or flared gas to the NMOCD.

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

- DJR facilities are built and ready from day 1 of Flowback.
- Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
 - 1) An appropriately sized flare stack with an automatic igniter.
 - 2) DJR analyzes the natural gas samples twice per week.
 - 3) DJR routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
 - 4) DJR provides the NMOCD with pipeline specifications and natural gas data.



19.15.27.8 D. Venting and flaring during production operations

During Production Operations DJR will not vent or flare natural gas except under the following circumstances:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
 - a. DJR does not vent after the well achieves a stabilized rate and pressure.
 - b. DJR will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. DJR will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
 - a. DJR receives approval from the NMOCD.
 - b. DJR remains in compliance with the NM gas capture requirements.
 - c. DJR submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
 - a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

1. DJR has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. DJR will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency.
 - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.



- b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts DJR of flare malfunction within 18 months after May 25, 2021.
 - c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
 - d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
4. DJR will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
 5. DJR will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
 6. DJR may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
 7. Facilities will be designed to minimize waste.
 8. DJR will resolve emergencies as promptly as possible.

19.15.27.8 F. Measurement or estimation of vented and flared natural gas

1. DJR will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in DJR's SCADA system.
2. DJR will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
3. DJR's measuring equipment will conform to the industry standards.
4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
5. DJR will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. DJR will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. DJR will install measuring equipment whenever the NMOCD determines that metering is necessary.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 701H, 704H, 732H, and 733H
SESE P-04-23N-09W

BEST MANAGEMENT PRACTICES

DJR Operating, LLC (DJR) utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

DJR has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

DJR will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

DJR shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

DJR shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

DJR will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

DJR's measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

DJR shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.

Rev 3



DRILLING AND CASING PLAN

Nageezi Unit #701H

San Juan County, New Mexico

Surface Location

131-ft FEL & 1135-ft FSL
 Sec 4 T23N R9W
 Graded Elevation 6711' MSL
 RKB Elevation 6725' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2518800° N
 Longitude 107.7858140° W

Kick Off Point for Horizontal Build Curve

4038-ft MD
 3854-ft TVD

Local Coordinates (from SHL)

830-ft South
 690-ft West

Heel Location (Pay zone entry)

1328-ft FEL & 582-ft FSL
 Sec 4 T23N R9W

Heel Geographical Coordinates (NAD-83)

Latitude 36.25034107° N
 Longitude 107.78988191° W

Bottom Hole Location (TD)

21-ft FWL & 344-ft FNL
 Sec 4 T23N R9W

BHL Geographical Coordinates (NAD-83)

Latitude 36.26231253° N
 Longitude 107.8031819° W

Well objectives

This well is planned as a 5860-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 130°F. Bottom hole pressure in the Mancos Silt 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	426	426	Sd	W	8.3	8.4 – 8.8
Kirtland	558	558	Sh	-	8.3	8.4 – 8.8
Fruitland	869	868	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1141	1134	Sd	W	8.3	9.0 - 9.5
Lewis	1247	1237	Sh	-		9.0 - 9.5
Chacra	1871	1824	Sd	-	8.3	9.0 - 9.5
Menefee	2664	2567	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3705	3542	Sd	-	8.3	9.0 - 9.5
Mancos	3864	3691	Sh	-		9.0 - 9.5
Mancos Silt	4210	4013	Slt	O/G	6.6	9.0 - 9.5
Gallup A	NP	NP	Slt	O/G	6.6	9.0 - 9.5
Gallup B	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Target	4920	4392	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	4873	surf	4390	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4617	10782	4313	4431	4617

Note: all casing will be new

Rev 3



Casing Design Load Cases

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

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

Casing string		Design Factors			
		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

	Lead
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

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	3864-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	427	106
Volume (bbls)	178	29
Volume (cu.ft.)	999	161
Excess %	78	0



Rev 3

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4617-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	532
Volume (cu.ft)	144
Excess %	809
	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 – 4873	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	4873 – 10782	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

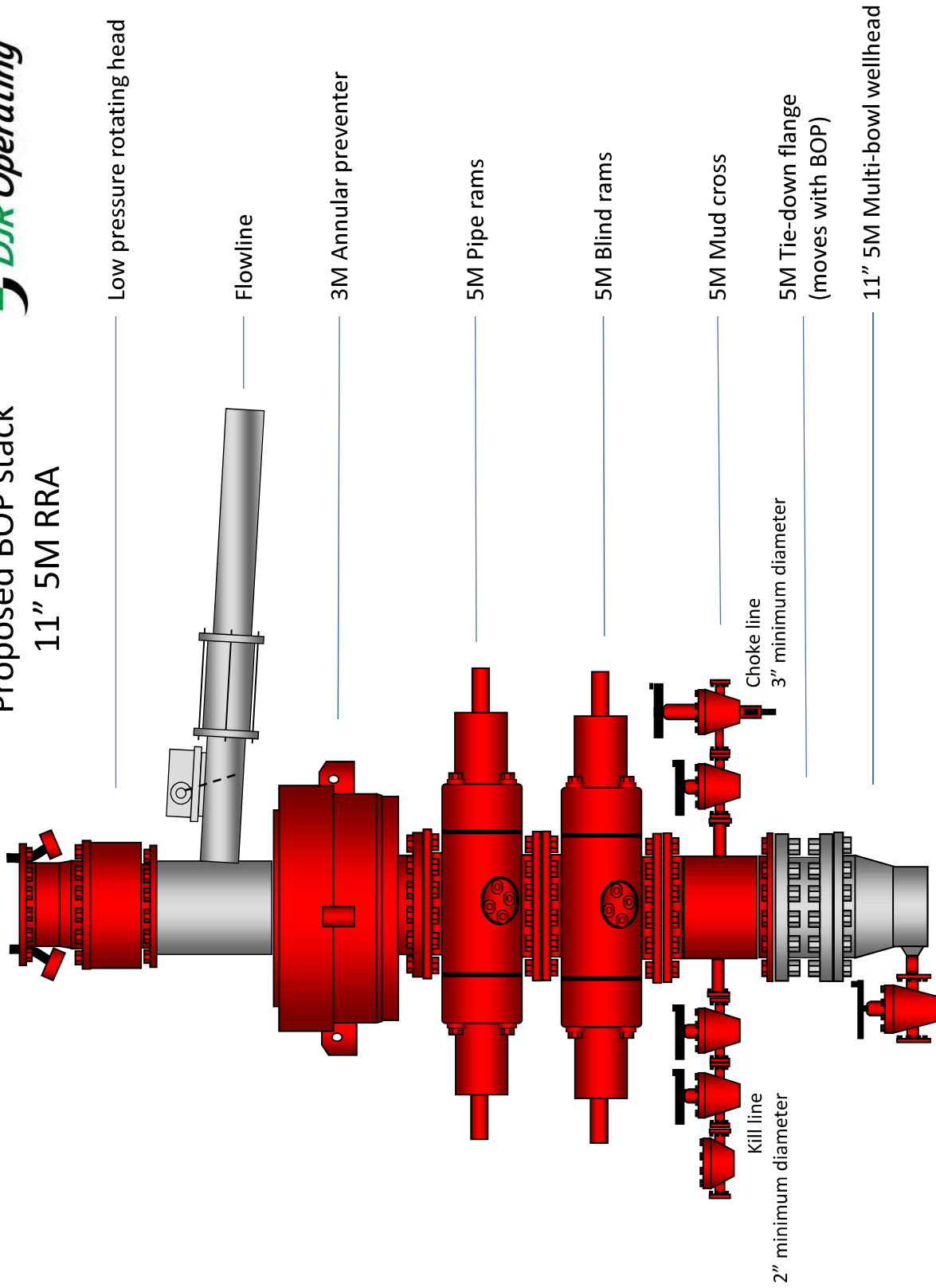
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports 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.



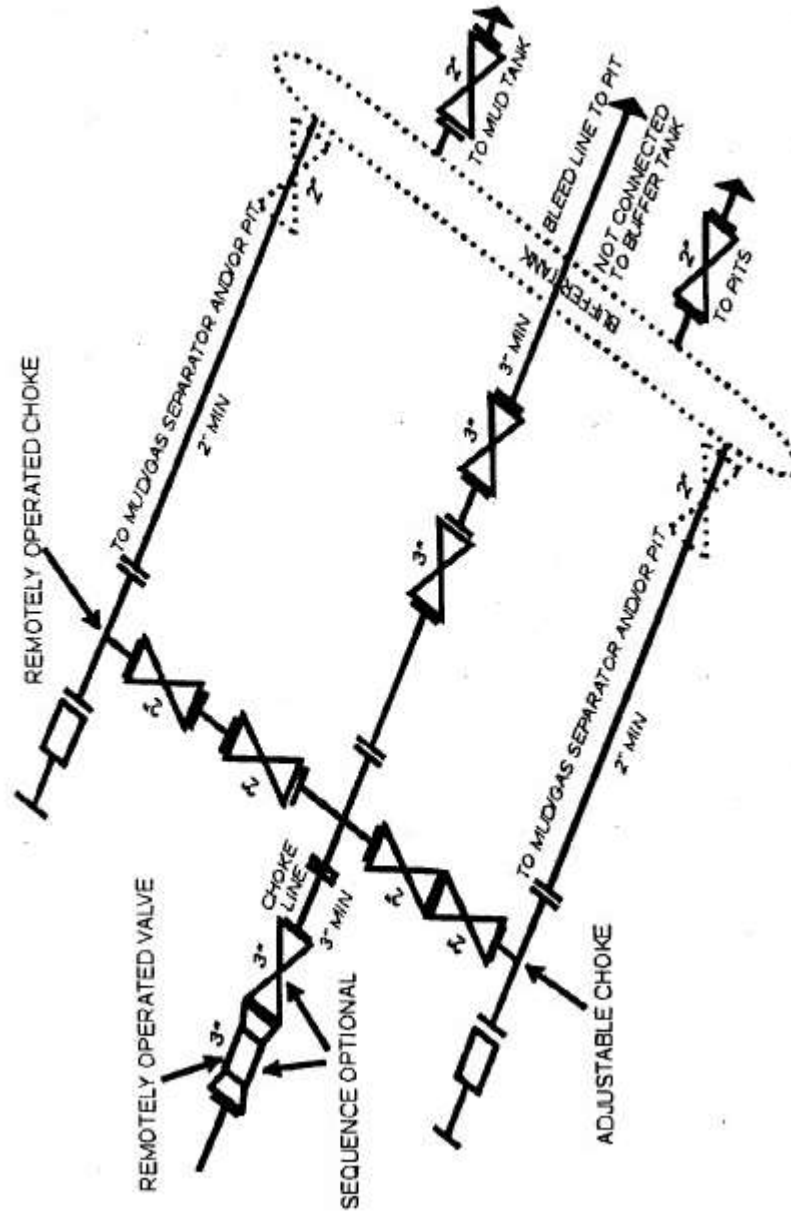
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Nageezi Unit
Site: P04 2309
Well: 701H
Wellbore: Original Drilling
Design: APD

PROJECT DETAILS: Nageezi Unit

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: True



WELL DETAILS: 701H

GL 6711' & RKB 14' @ 6725ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0	0	1910986.31	2737102.45	36.25188000	-107.78581400	1

Plan: APD (701H/Original Drilling)

Created By: Janie Collins Date: 12:30, April 20 2023

DESIGN TARGET DETAILS

	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Heel	4392	-560	-1199	1910425.54	2735903.31	36.25034107	-107.78988191
Toe	4431	-5120	-1199	1914781.94	2731980.44	36.26231253	-107.80318194

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
450	0.00	0.00	450	-140	0	0.00	0.00	0
1476	20.52	219.73	1454	-116	-116	2.00	219.73	10
4038	20.52	219.73	3854	-830	-890	0.00	0.00	59
4920	89.62	318.03	4392	-560	-1199	10.50	97.91	630
10782	89.62	318.03	4431	-5120	-1199	0.00	0.00	6375



Azimuths to True North
Magnetic North: 8

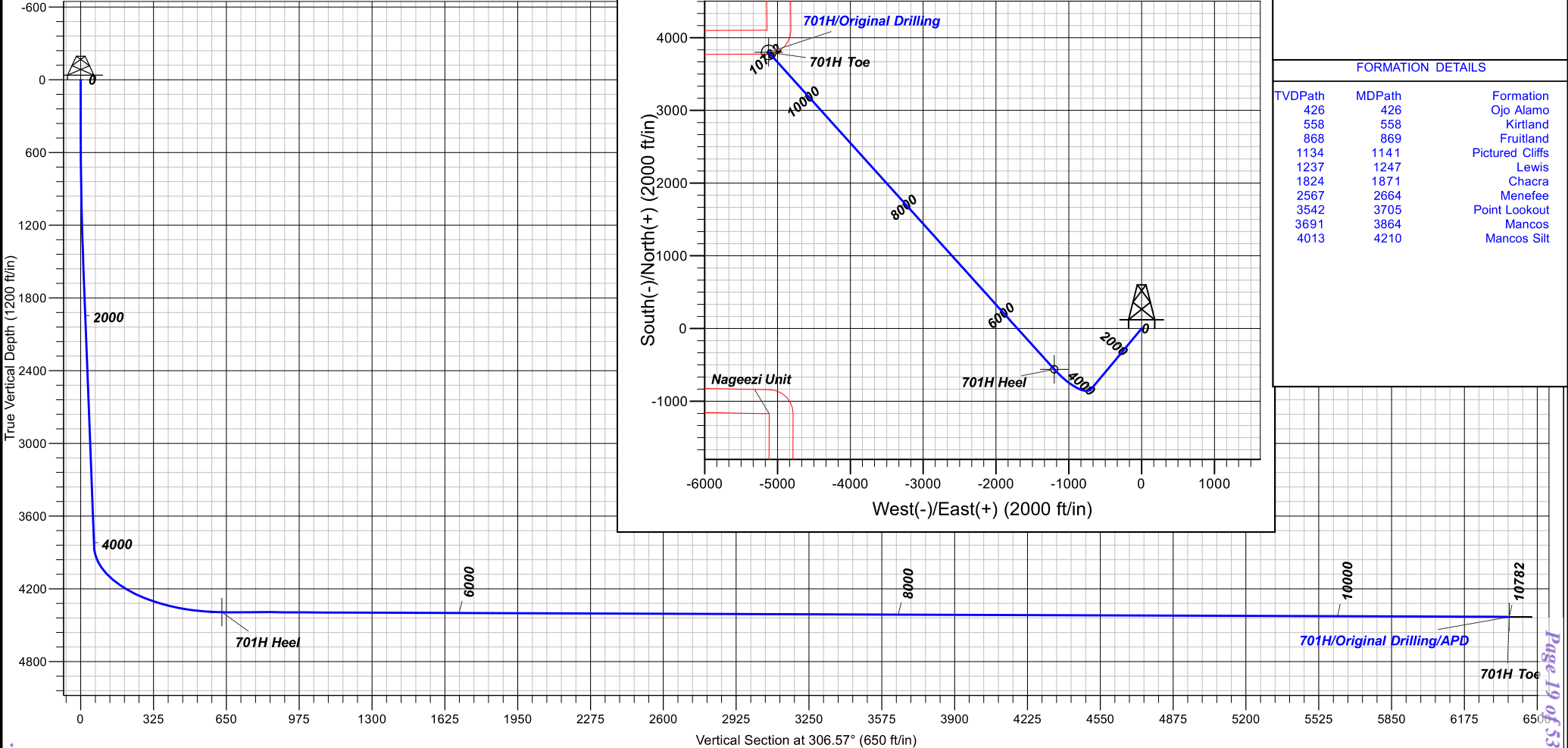
Magnetic Field
Strength: 49225
Dip Angle: 62.8
Date: 6/2/2022
Model: IGRF2015

CASING DETAILS

TVD	MD	Name
350	350	Surface
4390	4873	Intermediate

FORMATION DETAILS

TVDPATH	MDPATH	FORMATION
426	426	Ojo Alamo
558	558	Kirtland
868	869	Fruitland
1134	1141	Pictured Cliffs
1237	1247	Lewis
1824	1871	Chacra
2567	2664	Menefee
3542	3705	Point Lookout
3691	3864	Mancos
4013	4210	Mancos Silt





DJR Operating

Nageezi Unit

P04 2309

701H - Slot 1

Original Drilling

Plan: APD

Standard Planning Report

20 April, 2023





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 701H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Project:	Nageezi Unit	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site:	P04 2309	North Reference:	True
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Project	Nageezi Unit		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	P04 2309				
Site Position:		Northing:	1,910,986.31 usft	Latitude:	36.25188000
From:	Lat/Long	Easting:	2,737,102.46 usft	Longitude:	-107.78581400
Position Uncertainty:	0 ft	Slot Radius:	13.20 in		

Well	701H - Slot 1					
Well Position	+N/-S	0 ft	Northing:	1,910,986.31 usft	Latitude:	36.25188000
	+E/-W	0 ft	Easting:	2,737,102.46 usft	Longitude:	-107.78581400
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6711 ft
Grid Convergence:		0.03 °				

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/2/2022	8.71	62.86	49,225.34279964

Design	APD			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	306.57

Plan Survey Tool Program	Date	4/19/2023			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0	10,782	APD (Original Drilling)	MWD+IGRF	
				OWSG MWD + IGRF or WMM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
450	0.00	0.00	450	0	0	0.00	0.00	0.00	0.00	
1476	20.52	219.73	1454	-140	-116	2.00	2.00	0.00	219.73	
4038	20.52	219.73	3854	-830	-690	0.00	0.00	0.00	0.00	
4920	89.62	318.03	4392	-560	-1199	10.50	7.84	11.15	97.91	701H Heel
10,782	89.62	318.03	4431	3798	-5120	0.00	0.00	0.00	0.00	701H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 701H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Project:	Nageezi Unit	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site:	P04 2309	North Reference:	True
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
450	0.00	0.00	450	0	0	0	0.00	0.00	0.00
500	1.00	219.73	500	0	0	0	2.00	2.00	0.00
600	3.00	219.73	600	-3	-3	0	2.00	2.00	0.00
700	5.00	219.73	700	-8	-7	1	2.00	2.00	0.00
800	7.00	219.73	799	-16	-14	1	2.00	2.00	0.00
900	9.00	219.73	898	-27	-23	2	2.00	2.00	0.00
1000	11.00	219.73	997	-40	-34	3	2.00	2.00	0.00
1100	13.00	219.73	1094	-56	-47	4	2.00	2.00	0.00
1200	15.00	219.73	1191	-75	-62	5	2.00	2.00	0.00
1300	17.00	219.73	1288	-96	-80	7	2.00	2.00	0.00
1400	19.00	219.73	1383	-120	-100	9	2.00	2.00	0.00
1476	20.52	219.73	1454	-140	-116	10	2.00	2.00	0.00
1500	20.52	219.73	1477	-146	-122	10	0.00	0.00	0.00
1600	20.52	219.73	1570	-173	-144	12	0.00	0.00	0.00
1700	20.52	219.73	1664	-200	-166	14	0.00	0.00	0.00
1800	20.52	219.73	1758	-227	-189	16	0.00	0.00	0.00
1900	20.52	219.73	1851	-254	-211	18	0.00	0.00	0.00
2000	20.52	219.73	1945	-281	-234	20	0.00	0.00	0.00
2100	20.52	219.73	2039	-308	-256	22	0.00	0.00	0.00
2200	20.52	219.73	2132	-335	-278	24	0.00	0.00	0.00
2300	20.52	219.73	2226	-362	-301	26	0.00	0.00	0.00
2400	20.52	219.73	2320	-389	-323	28	0.00	0.00	0.00
2500	20.52	219.73	2413	-416	-346	30	0.00	0.00	0.00
2600	20.52	219.73	2507	-443	-368	32	0.00	0.00	0.00
2700	20.52	219.73	2601	-470	-390	34	0.00	0.00	0.00
2800	20.52	219.73	2694	-497	-413	36	0.00	0.00	0.00
2900	20.52	219.73	2788	-524	-435	38	0.00	0.00	0.00
3000	20.52	219.73	2882	-551	-458	39	0.00	0.00	0.00
3100	20.52	219.73	2975	-578	-480	41	0.00	0.00	0.00
3200	20.52	219.73	3069	-605	-502	43	0.00	0.00	0.00
3300	20.52	219.73	3163	-631	-525	45	0.00	0.00	0.00
3400	20.52	219.73	3256	-658	-547	47	0.00	0.00	0.00
3500	20.52	219.73	3350	-685	-570	49	0.00	0.00	0.00
3600	20.52	219.73	3443	-712	-592	51	0.00	0.00	0.00
3700	20.52	219.73	3537	-739	-614	53	0.00	0.00	0.00
3800	20.52	219.73	3631	-766	-637	55	0.00	0.00	0.00
3900	20.52	219.73	3724	-793	-659	57	0.00	0.00	0.00
4000	20.52	219.73	3818	-820	-682	59	0.00	0.00	0.00
4038	20.52	219.73	3854	-830	-690	59	0.00	0.00	0.00
4100	20.61	238.25	3912	-845	-706	64	10.50	0.14	30.01
4200	24.52	263.92	4004	-856	-742	86	10.50	3.91	25.67
4300	31.44	280.91	4093	-853	-788	125	10.50	6.93	16.99
4400	39.83	291.82	4174	-836	-844	179	10.50	8.39	10.91
4500	48.93	299.35	4245	-806	-907	248	10.50	9.10	7.53
4600	58.40	305.00	4305	-763	-975	328	10.50	9.47	5.65
4700	68.07	309.60	4350	-709	-1045	417	10.50	9.67	4.59
4800	77.85	313.60	4379	-645	-1117	512	10.50	9.78	4.00
4900	87.69	317.31	4392	-575	-1186	610	10.50	9.83	3.71
4920	89.62	318.03	4392	-560	-1199	630	10.50	9.85	3.65



Lonestar Consulting, LLC
Planning Report



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Project:	Nageezi Unit	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site:	P04 2309	North Reference:	True
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5000	89.62	318.03	4393	-500	-1253	708	0.00	0.00	0.00
5100	89.62	318.03	4393	-426	-1320	806	0.00	0.00	0.00
5200	89.62	318.03	4394	-352	-1387	904	0.00	0.00	0.00
5300	89.62	318.03	4395	-277	-1454	1002	0.00	0.00	0.00
5400	89.62	318.03	4395	-203	-1521	1100	0.00	0.00	0.00
5500	89.62	318.03	4396	-129	-1588	1198	0.00	0.00	0.00
5600	89.62	318.03	4397	-54	-1654	1296	0.00	0.00	0.00
5700	89.62	318.03	4397	20	-1721	1394	0.00	0.00	0.00
5800	89.62	318.03	4398	94	-1788	1492	0.00	0.00	0.00
5900	89.62	318.03	4399	169	-1855	1590	0.00	0.00	0.00
6000	89.62	318.03	4399	243	-1922	1688	0.00	0.00	0.00
6100	89.62	318.03	4400	317	-1989	1786	0.00	0.00	0.00
6200	89.62	318.03	4401	392	-2056	1884	0.00	0.00	0.00
6300	89.62	318.03	4401	466	-2123	1982	0.00	0.00	0.00
6400	89.62	318.03	4402	540	-2189	2080	0.00	0.00	0.00
6500	89.62	318.03	4403	615	-2256	2178	0.00	0.00	0.00
6600	89.62	318.03	4403	689	-2323	2276	0.00	0.00	0.00
6700	89.62	318.03	4404	763	-2390	2374	0.00	0.00	0.00
6800	89.62	318.03	4405	838	-2457	2472	0.00	0.00	0.00
6900	89.62	318.03	4405	912	-2524	2570	0.00	0.00	0.00
7000	89.62	318.03	4406	986	-2591	2668	0.00	0.00	0.00
7100	89.62	318.03	4407	1061	-2658	2766	0.00	0.00	0.00
7200	89.62	318.03	4407	1135	-2724	2864	0.00	0.00	0.00
7300	89.62	318.03	4408	1209	-2791	2962	0.00	0.00	0.00
7400	89.62	318.03	4409	1284	-2858	3060	0.00	0.00	0.00
7500	89.62	318.03	4409	1358	-2925	3158	0.00	0.00	0.00
7600	89.62	318.03	4410	1432	-2992	3256	0.00	0.00	0.00
7700	89.62	318.03	4410	1507	-3059	3354	0.00	0.00	0.00
7800	89.62	318.03	4411	1581	-3126	3452	0.00	0.00	0.00
7900	89.62	318.03	4412	1656	-3193	3550	0.00	0.00	0.00
8000	89.62	318.03	4412	1730	-3260	3648	0.00	0.00	0.00
8100	89.62	318.03	4413	1804	-3326	3746	0.00	0.00	0.00
8200	89.62	318.03	4414	1879	-3393	3844	0.00	0.00	0.00
8300	89.62	318.03	4414	1953	-3460	3943	0.00	0.00	0.00
8400	89.62	318.03	4415	2027	-3527	4041	0.00	0.00	0.00
8500	89.62	318.03	4416	2102	-3594	4139	0.00	0.00	0.00
8600	89.62	318.03	4416	2176	-3661	4237	0.00	0.00	0.00
8700	89.62	318.03	4417	2250	-3728	4335	0.00	0.00	0.00
8800	89.62	318.03	4418	2325	-3795	4433	0.00	0.00	0.00
8900	89.62	318.03	4418	2399	-3861	4531	0.00	0.00	0.00
9000	89.62	318.03	4419	2473	-3928	4629	0.00	0.00	0.00
9100	89.62	318.03	4420	2548	-3995	4727	0.00	0.00	0.00
9200	89.62	318.03	4420	2622	-4062	4825	0.00	0.00	0.00
9300	89.62	318.03	4421	2696	-4129	4923	0.00	0.00	0.00
9400	89.62	318.03	4422	2771	-4196	5021	0.00	0.00	0.00
9500	89.62	318.03	4422	2845	-4263	5119	0.00	0.00	0.00
9600	89.62	318.03	4423	2919	-4330	5217	0.00	0.00	0.00
9700	89.62	318.03	4424	2994	-4396	5315	0.00	0.00	0.00
9800	89.62	318.03	4424	3068	-4463	5413	0.00	0.00	0.00
9900	89.62	318.03	4425	3142	-4530	5511	0.00	0.00	0.00
10,000	89.62	318.03	4426	3217	-4597	5609	0.00	0.00	0.00
10,100	89.62	318.03	4426	3291	-4664	5707	0.00	0.00	0.00
10,200	89.62	318.03	4427	3365	-4731	5805	0.00	0.00	0.00
10,300	89.62	318.03	4428	3440	-4798	5903	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 701H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Project:	Nageezi Unit	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site:	P04 2309	North Reference:	True
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,400	89.62	318.03	4428	3514	-4865	6001	0.00	0.00	0.00	
10,500	89.62	318.03	4429	3588	-4931	6099	0.00	0.00	0.00	
10,600	89.62	318.03	4430	3663	-4998	6197	0.00	0.00	0.00	
10,700	89.62	318.03	4430	3737	-5065	6295	0.00	0.00	0.00	
10,782	89.62	318.03	4431	3798	-5120	6375	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
701H Heel	0.00	0.00	4392	-560	-1199	1,910,425.55	2,735,903.31	36.25034107		-107.78988191
- plan hits target center										
- Circle (radius 50)										
701H Toe	0.00	0.00	4431	3798	-5120	1,914,781.95	2,731,980.44	36.26231253		-107.80318194
- plan hits target center										
- Circle (radius 100)										

Casing Points							
Measured Depth (ft)	Vertical Depth (ft)	Name				Casing Diameter (in)	Hole Diameter (in)
350	350	Surface				9.63	12.25
4873	4390	Intermediate				7.00	8.75

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
426	426	Ojo Alamo		0.00	0.00	
558	558	Kirtland		0.00	0.00	
869	868	Fruitland		0.00	0.00	
1141	1134	Pictured Cliffs		0.00	0.00	
1247	1237	Lewis		0.00	0.00	
1871	1824	Chacra		0.00	0.00	
2664	2567	Menefee		0.00	0.00	
3705	3542	Point Lookout		0.00	0.00	
3864	3691	Mancos		0.00	0.00	
4210	4013	Mancos Silt		0.00	0.00	



DJR Operating

Nageezi Unit

P04 2309

701H

Original Drilling

APD

Anticollision Report

20 April, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference	APD		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 15,000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/19/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	10,782	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
A09 2309						
507H (ECA) - Original drilling - As drilled	10,547	11,971	835	551	2.939	CC
507H (ECA) - Original drilling - As drilled	10,782	12,197	838	544	2.847	ES, SF
508H - Original drilling - APD	10,782	12,054	820	523	2.764	CC, ES, SF
510H (ECA) - Original drilling - Original drilling	3169	3205	262	230	8.153	CC, ES
510H (ECA) - Original drilling - Original drilling	3200	3230	263	230	8.106	SF
P04 2309						
704H - Original Drilling - APD	450	450	20	17	6.414	CC
704H - Original Drilling - APD	700	701	21	16	4.356	ES
704H - Original Drilling - APD	2600	2602	83	54	2.861	SF
732H - Original Drilling - APD	450	450	60	57	19.148	CC, ES
732H - Original Drilling - APD	10,782	10,693	1459	1145	4.649	SF
733H - Original Drilling - APD	450	450	40	37	13.394	CC, ES
733H - Original Drilling - APD	600	598	46	42	11.551	SF

Offset Design: A09 2309 - 507H (ECA) - Original drilling - As drilled													Offset Site Error: 0 ft	
Survey Program: 366-MWD+HDGM, 4189-MWD+HDGM, 5511-MWD+HDGM													Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0	0	38	38	0	0	-172.72	-1396	-178	1407					
100	100	142	142	0	0	-172.71	-1395	-179	1407	1406	0.55	2,540.076		
200	200	246	246	1	0	-172.68	-1395	-179	1406	1405	1.09	1,288.486		
300	300	350	350	1	1	-172.65	-1394	-180	1405	1404	1.63	862.811		
400	400	447	447	1	1	-172.61	-1393	-181	1405	1402	2.30	609.415		
450	450	490	490	2	1	-172.61	-1393	-181	1404	1402	2.63	533.717		
500	500	544	544	2	1	-32.40	-1393	-180	1404	1401	2.99	470.000		
600	600	655	655	2	2	-32.74	-1392	-174	1400	1396	3.71	377.294		
700	700	748	747	2	2	-33.28	-1392	-166	1393	1389	4.39	317.501		
800	799	846	845	3	2	-34.12	-1393	-154	1384	1379	5.11	270.982		
900	898	946	943	3	3	-35.21	-1394	-139	1372	1366	5.86	234.058		
1000	997	1041	1037	4	3	-36.54	-1395	-122	1357	1350	6.63	204.651		
1100	1094	1141	1134	4	4	-38.18	-1396	-100	1340	1333	7.46	179.587		
1200	1191	1233	1225	5	4	-39.89	-1396	-80	1321	1313	8.30	159.149		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 507H (ECA) - Original drilling - As drilled													Offset Site Error:	0 ft
Survey Program: 366-MWD+HDGM, 4189-MWD+HDGM, 5511-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1300	1288	1327	1316	5	4	-41.83	-1397	-59	1300	1291	9.19	141.513		
1400	1383	1404	1391	6	5	-43.62	-1397	-42	1279	1269	10.04	127.311		
1476	1454	1479	1465	6	5	-45.44	-1398	-25	1261	1251	10.81	116.706		
1500	1477	1502	1487	6	5	-45.92	-1398	-20	1256	1245	11.05	113.634		
1600	1570	1584	1567	7	6	-47.69	-1398	-2	1234	1222	12.01	102.695		
1700	1664	1662	1642	8	6	-49.46	-1399	16	1214	1201	13.00	93.382		
1800	1758	1754	1731	8	6	-51.63	-1400	38	1196	1182	14.09	84.844		
1900	1851	1840	1815	9	7	-53.73	-1400	58	1180	1164	15.19	77.634		
2000	1945	1922	1895	10	7	-55.75	-1401	78	1165	1149	16.29	71.534		
2100	2039	2005	1975	11	8	-57.85	-1401	98	1154	1136	17.42	66.239		
2200	2132	2094	2061	11	8	-60.11	-1402	120	1144	1126	18.59	61.546		
2300	2226	2171	2136	12	8	-62.08	-1403	138	1137	1117	19.70	57.725		
2400	2320	2265	2228	13	9	-64.45	-1405	160	1132	1111	20.90	54.174		
2500	2413	2357	2318	14	9	-66.73	-1407	180	1129	1107	22.09	51.136		
2600	2507	2453	2412	14	10	-69.13	-1408	200	1128	1104	23.29	48.419		
2639	2544	2487	2445	15	10	-69.99	-1408	207	1128	1104	23.74	47.490		
2700	2601	2539	2496	15	10	-71.28	-1409	218	1128	1104	24.43	46.170		
2800	2694	2633	2588	16	11	-73.62	-1410	238	1130	1105	25.61	44.135		
2900	2788	2725	2678	17	11	-75.87	-1411	256	1134	1107	26.76	42.369		
3000	2882	2807	2758	17	12	-77.86	-1411	273	1140	1112	27.83	40.954		
3100	2975	2891	2841	18	12	-79.89	-1412	289	1148	1119	28.91	39.714		
3200	3069	2969	2917	19	12	-81.79	-1413	306	1159	1129	29.92	38.731		
3300	3162	3055	3001	20	13	-83.89	-1413	326	1172	1141	30.97	37.847		
3400	3256	3144	3088	20	13	-86.02	-1413	346	1187	1155	32.02	37.075		
3500	3350	3232	3173	21	14	-88.08	-1413	365	1204	1171	33.03	36.446		
3600	3443	3323	3262	22	14	-90.15	-1413	385	1222	1188	34.04	35.897		
3700	3537	3407	3344	23	14	-92.01	-1414	403	1242	1207	34.98	35.514		
3800	3631	3488	3422	24	15	-93.75	-1414	421	1264	1229	35.87	35.247		
3900	3724	3576	3500	24	15	-95.49	-1414	439	1286	1249	36.76	34.980		
4000	3818	3669	3592	25	16	-97.23	-1414	457	1308	1271	37.65	34.713		
4038	3854	3705	3628	25	16	-98.97	-1414	475	1330	1293	38.54	34.446		
4050	3865	3717	3640	25	16	-99.71	-1414	487	1342	1305	38.84	34.344		
4100	3912	3765	3688	26	17	-101.45	-1414	505	1364	1327	39.73	34.077		
4150	3958	3812	3735	26	17	-103.19	-1414	523	1386	1349	40.62	33.810		
4200	4004	3859	3782	27	18	-104.93	-1414	541	1408	1371	41.51	33.543		
4250	4049	3905	3828	27	18	-106.67	-1414	559	1430	1393	42.40	33.276		
4300	4093	3951	3872	28	19	-108.41	-1414	577	1452	1415	43.29	33.009		
4350	4134	3992	3915	28	19	-110.15	-1414	595	1474	1437	44.18	32.742		
4400	4174	4033	3956	28	19	-111.89	-1414	613	1496	1459	45.07	32.475		
4450	4211	4074	3997	28	19	-113.63	-1414	631	1518	1481	45.96	32.208		
4500	4245	4115	4038	28	19	-115.37	-1414	649	1540	1503	46.85	31.941		
4550	4277	4156	4079	29	20	-117.11	-1414	667	1562	1525	47.74	31.674		
4600	4305	4197	4120	29	20	-118.85	-1414	685	1584	1547	48.63	31.407		
4650	4329	4238	4161	29	20	-120.59	-1414	703	1606	1569	49.52	31.140		
4700	4350	4279	4192	29	20	-122.33	-1414	721	1628	1591	50.41	30.873		
4750	4366	4320	4233	30	21	-124.07	-1414	739	1650	1613	51.30	30.606		
4762	4370	4361	4274	30	21	-125.81	-1414	757	1672	1635	52.19	30.339		
4800	4379	4402	4315	30	21	-127.55	-1414	775	1694	1657	53.08	30.072		
4811	4381	4443	4356	30	21	-129.29	-1414	793	1716	1679	53.97	29.805		
4850	4387	4484	4401	30	21	-131.03	-1414	811	1738	1701	54.86	29.538		
4860	4389	4525	4442	30	21	-132.77	-1414	829	1760	1723	55.75	29.271		
4900	4392	4566	4483	30	21	-134.51	-1414	847	1782	1745	56.64	29.004		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 507H (ECA) - Original drilling - As drilled													Offset Site Error:	0 ft	
Survey Program:		366-MWD+HDGM, 4189-MWD+HDGM, 5511-MWD+HDGM						Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset		Highside			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4904	4392	6324	4879	30	33	118.29	-15	-564	950	901	49.94	19.031			
4920	4392	6343	4879	31	34	118.28	-1	-577	950	900	50.44	18.841			
4937	4392	6367	4879	31	34	118.28	17	-593	950	899	51.08	18.604			
5000	4393	6451	4878	31	36	118.23	79	-650	949	896	53.40	17.770			
5023	4393	6476	4878	31	36	118.20	97	-667	948	894	54.19	17.498			
5100	4393	6558	4875	32	38	118.05	157	-723	946	889	56.79	16.653			
5124	4393	6588	4874	32	38	118.01	179	-743	945	887	57.77	16.352			
5200	4394	6660	4871	33	40	117.89	231	-793	941	881	60.26	15.621			
5223	4394	6681	4870	33	40	117.86	246	-807	940	879	61.06	15.401			
5300	4395	6764	4868	34	42	117.75	306	-864	937	874	63.93	14.664			
5324	4395	6790	4867	34	43	117.71	325	-882	936	871	65.06	14.393			
5400	4395	6860	4865	35	44	117.62	376	-930	933	865	67.52	13.817			
5423	4395	6880	4864	36	45	117.61	390	-944	932	864	68.25	13.656			
5500	4396	6954	4864	37	46	117.66	444	-996	929	858	71.09	13.073			
5523	4396	6980	4864	37	47	117.67	462	-1014	929	856	72.04	12.889			
5600	4397	7068	4863	38	49	117.69	525	-1075	925	850	75.32	12.282			
5625	4397	7095	4863	39	49	117.70	544	-1094	924	847	76.34	12.101			
5700	4397	7174	4860	40	51	117.64	600	-1150	920	840	79.45	11.574			
5725	4397	7194	4860	41	52	117.61	615	-1164	918	838	80.31	11.433			
5800	4398	7254	4858	42	53	117.54	658	-1205	915	832	82.87	11.040			
5823	4398	7271	4858	42	53	117.53	671	-1217	914	831	83.61	10.933			
5900	4399	7347	4857	44	55	117.52	726	-1269	912	825	86.67	10.524			
5923	4399	7373	4857	44	56	117.53	745	-1287	911	824	87.71	10.391			
6000	4399	7450	4857	46	58	117.58	800	-1340	909	818	90.81	10.009			
6023	4399	7472	4857	46	58	117.57	816	-1355	908	816	91.73	9.901			
6100	4400	7535	4855	48	60	117.48	863	-1398	907	812	94.47	9.598			
6122	4400	7553	4855	48	60	117.45	876	-1410	907	811	95.25	9.517			
6200	4401	7635	4852	50	62	117.25	938	-1464	906	807	98.73	9.171			
6222	4401	7657	4852	50	62	117.21	954	-1479	905	806	99.67	9.082			
6300	4401	7752	4848	52	65	116.99	1024	-1543	903	800	103.65	8.716			
6324	4401	7782	4847	52	65	116.92	1046	-1563	903	798	104.89	8.605			
6400	4402	7861	4845	54	67	116.83	1103	-1617	899	791	108.26	8.307			
6424	4402	7884	4844	54	68	116.81	1120	-1633	898	789	109.27	8.221			
6500	4403	7950	4843	56	69	116.78	1168	-1679	895	783	112.20	7.981			
6523	4403	7973	4843	57	70	116.79	1184	-1695	895	782	113.18	7.906			
6600	4403	8046	4843	58	72	116.85	1237	-1745	893	777	116.28	7.679			
6623	4403	8070	4844	59	72	116.88	1255	-1762	892	775	117.28	7.608			
6700	4404	8149	4845	60	74	117.04	1311	-1817	890	769	120.53	7.383			
6723	4404	8169	4846	61	75	117.08	1325	-1831	889	768	121.37	7.327			
6800	4405	8232	4847	63	76	117.18	1371	-1874	888	764	124.09	7.156			
6821	4405	8250	4847	63	77	117.20	1384	-1886	888	763	124.86	7.110			
6900	4405	8325	4848	65	78	117.22	1440	-1937	888	759	128.09	6.929			
6921	4405	8347	4848	65	79	117.22	1456	-1952	887	758	129.04	6.877			
7000	4406	8428	4849	67	81	117.28	1516	-2007	887	755	132.45	6.697			
7021	4406	8449	4850	68	81	117.31	1531	-2021	887	754	133.34	6.651			
7100	4406	8531	4853	69	83	117.49	1591	-2077	886	750	136.66	6.486			
7122	4407	8556	4853	70	84	117.54	1609	-2094	886	748	137.69	6.436			
7200	4407	8636	4855	72	86	117.65	1667	-2149	885	744	141.03	6.274			
7222	4407	8659	4855	72	87	117.67	1684	-2164	885	743	141.97	6.230			
7300	4408	8733	4856	74	88	117.76	1738	-2216	883	738	145.13	6.087			
7322	4408	8753	4857	74	89	117.78	1752	-2229	883	737	145.96	6.050			
7400	4408	8830	4857	76	91	117.83	1809	-2281	882	733	149.25	5.913			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 507H (ECA) - Original drilling - As drilled											Offset Site Error:	0 ft
Survey Program: 366-MWD+HDGM, 4189-MWD+HDGM, 5511-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S	+E/-W	Between Centres	Between Ellipses	(ft)	Warning
							(ft)	(ft)	(ft)	(ft)		
7422	4409	8851	4858	77	91	117.84	1825	-2295	882	732	150.17	5.875
7500	4409	8933	4859	79	93	117.94	1884	-2351	882	728	153.58	5.741
7522	4409	8956	4860	79	94	117.97	1901	-2367	881	727	154.54	5.703
7600	4410	9037	4861	81	96	118.04	1960	-2422	880	722	157.96	5.572
7622	4410	9059	4861	81	96	118.05	1977	-2437	880	721	158.91	5.537
7700	4410	9136	4861	83	98	118.10	2033	-2490	879	716	162.23	5.416
7722	4411	9161	4862	84	99	118.12	2051	-2507	878	715	163.26	5.379
7800	4411	9235	4862	86	101	118.18	2105	-2558	877	710	166.45	5.268
7822	4411	9256	4862	86	101	118.18	2120	-2572	877	709	167.34	5.238
7900	4412	9347	4863	88	104	118.28	2187	-2634	875	704	171.10	5.113
7923	4412	9373	4864	88	104	118.35	2205	-2653	874	702	172.14	5.079
8000	4412	9449	4866	90	106	118.53	2259	-2706	872	697	175.21	4.976
8023	4413	9468	4866	91	107	118.57	2273	-2719	871	695	176.04	4.949
8100	4413	9540	4868	93	108	118.70	2325	-2769	869	690	179.05	4.856
8122	4413	9561	4868	93	109	118.72	2340	-2784	869	689	179.94	4.829
8200	4414	9633	4868	95	111	118.74	2392	-2832	868	685	183.04	4.742
8222	4414	9655	4868	95	111	118.75	2409	-2847	868	684	183.99	4.716
8300	4414	9733	4869	97	113	118.79	2467	-2901	867	679	187.37	4.626
8370	4415	9798	4870	99	115	118.83	2514	-2944	866	676	190.14	4.556
8400	4415	9818	4870	100	115	118.83	2529	-2958	866	675	191.05	4.535
8404	4415	9822	4870	100	115	118.83	2532	-2960	866	675	191.20	4.531
8500	4416	9907	4871	102	118	118.82	2596	-3016	868	673	194.92	4.452
8504	4416	9912	4871	102	118	118.82	2600	-3019	868	673	195.11	4.448
8600	4416	10,009	4873	104	120	118.83	2673	-3083	870	670	199.31	4.363
8604	4417	10,014	4873	105	120	118.84	2676	-3086	870	670	199.51	4.359
8700	4417	10,125	4875	107	123	118.89	2759	-3161	870	666	204.24	4.261
8721	4417	10,149	4875	107	124	118.90	2777	-3177	870	665	205.24	4.240
8800	4418	10,231	4875	109	126	118.92	2838	-3232	870	661	208.78	4.166
8822	4418	10,252	4875	110	126	118.92	2853	-3247	869	660	209.72	4.146
8900	4418	10,328	4875	112	128	118.89	2909	-3297	869	656	213.07	4.078
8921	4419	10,348	4875	112	129	118.89	2924	-3311	869	655	213.97	4.060
9000	4419	10,429	4876	114	131	118.92	2984	-3366	868	651	217.45	3.993
9022	4419	10,451	4876	114	131	118.93	3000	-3380	868	650	218.38	3.975
9100	4420	10,529	4877	116	133	119.00	3057	-3433	868	646	221.66	3.914
9121	4420	10,550	4878	117	134	119.02	3073	-3448	867	645	222.56	3.897
9200	4420	10,630	4878	119	136	119.03	3132	-3501	867	641	226.00	3.836
9262	4421	10,685	4878	120	137	118.99	3173	-3538	867	638	228.50	3.792
9300	4421	10,716	4878	121	138	118.98	3196	-3559	867	637	229.91	3.770
9304	4421	10,720	4878	121	138	118.98	3199	-3561	867	637	230.06	3.767
9400	4422	10,802	4880	124	140	119.00	3261	-3615	869	635	233.58	3.718
9404	4422	10,806	4880	124	140	119.00	3264	-3618	869	635	233.77	3.716
9500	4422	10,903	4882	126	142	119.06	3337	-3681	871	633	237.85	3.663
9520	4423	10,936	4884	126	143	119.13	3361	-3703	871	632	239.16	3.644
9600	4423	11,046	4888	128	146	119.44	3441	-3779	871	627	243.23	3.579
9623	4423	11,075	4888	129	147	119.47	3462	-3799	870	626	244.36	3.560
9700	4424	11,161	4887	131	149	119.47	3524	-3859	867	619	248.04	3.495
9724	4424	11,184	4887	131	149	119.45	3541	-3875	866	617	249.09	3.476
9800	4424	11,256	4885	133	151	119.41	3592	-3925	863	610	252.39	3.418
9824	4425	11,290	4885	134	152	119.42	3617	-3949	862	608	253.74	3.396
9900	4425	11,379	4885	136	154	119.62	3679	-4013	857	600	257.01	3.334
9925	4425	11,403	4885	136	155	119.67	3695	-4030	855	597	257.98	3.316
10,000	4426	11,467	4885	138	157	119.75	3740	-4076	851	590	260.83	3.262

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



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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 507H (ECA) - Original drilling - As drilled											Offset Site Error:	0 ft
Survey Program: 366-MWD+HDGM, 4189-MWD+HDGM, 5511-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
10,024	4426	11,485	4885	139	157	119.78	3753	-4088	850	588	261.65	3.248
10,100	4426	11,548	4885	140	159	119.85	3798	-4132	847	583	264.41	3.204
10,123	4427	11,568	4885	141	159	119.85	3812	-4146	847	581	265.31	3.191
10,200	4427	11,649	4885	143	161	119.90	3871	-4202	844	576	268.70	3.143
10,223	4427	11,673	4885	143	162	119.92	3888	-4218	844	574	269.69	3.129
10,300	4428	11,747	4885	145	164	119.93	3942	-4269	842	569	272.96	3.083
10,323	4428	11,773	4884	146	164	119.91	3961	-4287	841	567	274.10	3.068
10,400	4428	11,856	4882	148	167	119.79	4022	-4344	838	560	277.92	3.015
10,423	4429	11,877	4881	148	167	119.72	4037	-4358	837	558	279.05	3.000
10,500	4429	11,935	4878	150	169	119.53	4080	-4397	835	553	282.20	2.959
10,547	4429	11,971	4876	151	169	119.42	4107	-4420	835	551	284.04	2.939 CC
10,600	4430	12,013	4876	153	170	119.33	4139	-4447	835	549	286.05	2.920
10,604	4430	12,017	4876	153	171	119.32	4143	-4450	835	549	286.27	2.918
10,700	4430	12,109	4876	155	173	119.28	4212	-4511	837	546	290.35	2.881
10,704	4430	12,112	4876	155	173	119.28	4214	-4513	837	546	290.49	2.880
10,782	4431	12,197	4877	157	175	119.25	4278	-4569	838	544	294.29	2.847 ES, SF

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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 508H - Original drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	48	48	0	0	-171.53	-1396	-208	1412						
100	100	148	148	0	0	-171.53	-1396	-208	1412	1411	0.61	2,296.409			
200	200	248	248	1	1	-171.53	-1396	-208	1412	1410	1.33	1,060.119			
300	300	348	348	1	1	-171.53	-1396	-208	1412	1410	2.05	689.124			
310	310	358	358	1	1	-171.53	-1396	-208	1412	1410	2.12	665.823			
400	400	431	431	1	1	-171.53	-1397	-208	1412	1409	2.70	523.029			
450	450	463	463	2	1	-171.52	-1397	-208	1413	1410	2.99	472.612			
500	500	500	500	2	2	-31.22	-1398	-209	1414	1411	3.29	430.077			
600	600	559	559	2	2	-31.19	-1401	-211	1416	1412	3.82	370.718			
700	700	623	622	2	2	-31.17	-1405	-214	1418	1413	4.38	323.878			
800	799	700	699	3	2	-31.19	-1413	-219	1419	1414	5.00	284.100			
900	898	751	749	3	2	-31.22	-1419	-222	1420	1414	5.53	256.834			
1000	997	800	798	4	3	-31.25	-1426	-227	1420	1414	6.06	234.282			
1098	1092	877	874	4	3	-31.34	-1438	-235	1420	1413	6.72	211.226			
1100	1094	878	875	4	3	-31.34	-1438	-235	1420	1413	6.74	210.817			
1200	1191	942	937	5	3	-31.44	-1450	-243	1419	1412	7.37	192.647			
1300	1288	1034	1026	5	4	-31.63	-1469	-254	1417	1409	8.16	173.706			
1400	1383	1134	1123	6	4	-31.93	-1489	-267	1413	1404	9.01	156.844			
1476	1454	1209	1196	6	5	-32.23	-1504	-277	1407	1398	9.69	145.301			
1500	1477	1233	1220	6	5	-32.32	-1509	-280	1405	1395	9.90	141.896			
1600	1570	1333	1316	7	5	-32.67	-1529	-293	1397	1386	10.82	129.134			
1700	1664	1432	1412	8	6	-33.03	-1549	-306	1389	1377	11.75	118.180			
1800	1758	1531	1509	8	6	-33.39	-1569	-319	1380	1368	12.70	108.704			
1900	1851	1630	1605	9	7	-33.76	-1589	-332	1372	1359	13.66	100.443			
2000	1945	1730	1702	10	8	-34.13	-1609	-345	1364	1350	14.64	93.191			
2100	2039	1829	1798	11	8	-34.51	-1629	-358	1356	1341	15.63	86.782			
2200	2132	1928	1894	11	9	-34.89	-1649	-371	1348	1332	16.63	81.083			
2300	2226	2027	1991	12	9	-35.27	-1669	-384	1340	1323	17.64	75.987			
2400	2320	2127	2087	13	10	-35.66	-1689	-397	1332	1314	18.66	71.406			
2500	2413	2226	2183	14	10	-36.06	-1709	-410	1325	1305	19.69	67.270			
2600	2507	2325	2280	14	11	-36.45	-1729	-423	1317	1296	20.73	63.517			
2700	2601	2425	2376	15	12	-36.86	-1750	-436	1309	1287	21.78	60.099			
2800	2694	2524	2472	16	12	-37.26	-1770	-449	1302	1279	22.85	56.974			
2900	2788	2623	2569	17	13	-37.68	-1790	-462	1294	1270	23.92	54.108			
3000	2882	2722	2665	17	13	-38.09	-1810	-475	1287	1262	25.00	51.470			
3100	2975	2822	2762	18	14	-38.52	-1830	-488	1279	1253	26.09	49.035			
3200	3069	2921	2858	19	15	-38.94	-1850	-500	1272	1245	27.19	46.782			
3300	3162	3020	2954	20	15	-39.38	-1870	-513	1265	1236	28.30	44.691			
3400	3256	3120	3051	20	16	-39.81	-1890	-526	1257	1228	29.42	42.746			
3500	3350	3219	3147	21	16	-40.25	-1910	-539	1250	1220	30.55	40.933			
3600	3443	3318	3243	22	17	-40.70	-1930	-552	1243	1212	31.69	39.239			
3700	3537	3417	3340	23	17	-41.15	-1950	-565	1236	1204	32.84	37.654			
3800	3631	3517	3436	24	18	-41.61	-1970	-578	1230	1196	34.00	36.168			
3900	3724	3616	3532	24	19	-42.07	-1990	-591	1223	1188	35.16	34.772			
4000	3818	3715	3629	25	19	-42.54	-2010	-604	1216	1180	36.34	33.458			
4038	3854	3753	3666	25	19	-42.72	-2018	-609	1213	1177	36.80	32.976			
4050	3865	3765	3677	25	19	-46.10	-2020	-610	1213	1176	36.94	32.832			
4085	3897	3799	3710	26	20	-56.17	-2027	-615	1212	1175	37.38	32.421			
4100	3912	3814	3725	26	20	-60.56	-2030	-617	1212	1175	37.58	32.251			
4150	3958	3863	3772	26	20	-73.79	-2040	-623	1215	1177	38.29	31.731			
4200	4004	5666	4828	27	31	-55.45	-1481	-1447	1221	1190	30.43	40.106			
4250	4049	5680	4828	27	31	-69.82	-1470	-1457	1179	1148	31.27	37.721			

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Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 508H - Original drilling - APD													Offset Site Error:	0 ft	
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:	0 ft
Measured Depth	Reference Vertical	Measured Depth	Offset Vertical	Reference	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
4300	4093	5699	4828	27	31	-80.98	-1456	-1469	1140	1108	32.18	35.425			
4350	4134	5722	4828	28	32	-89.58	-1439	-1484	1103	1070	33.16	33.254			
4400	4174	5748	4828	28	32	-96.21	-1419	-1502	1068	1034	34.22	31.203			
4450	4211	5779	4829	28	33	-101.33	-1396	-1522	1035	1000	35.36	29.281			
4500	4245	5813	4829	28	33	-105.28	-1370	-1545	1006	969	36.59	27.495			
4550	4277	5850	4829	29	34	-108.33	-1342	-1569	980	942	37.90	25.851			
4600	4305	5891	4829	29	35	-110.67	-1312	-1596	956	917	39.28	24.346			
4650	4329	5933	4829	29	35	-112.46	-1280	-1624	936	896	40.74	22.982			
4700	4350	5978	4830	29	36	-113.79	-1246	-1654	919	877	42.26	21.756			
4750	4366	6025	4830	30	37	-114.78	-1211	-1685	906	862	43.84	20.668			
4800	4379	6073	4830	30	38	-115.47	-1175	-1716	896	850	45.44	19.715			
4850	4387	6122	4830	30	39	-115.92	-1138	-1749	889	842	47.05	18.894			
4900	4392	6172	4831	30	40	-116.16	-1101	-1782	885	837	48.65	18.202			
4905	4392	6177	4831	30	40	-116.17	-1097	-1785	885	837	48.79	18.146			
4920	4392	6192	4831	31	40	-116.20	-1086	-1795	885	836	49.26	17.965			
4937	4392	6209	4831	31	41	-116.21	-1073	-1806	885	835	49.83	17.756			
5000	4393	6272	4831	31	42	-116.22	-1025	-1848	884	832	51.85	17.052			
5022	4393	6294	4831	31	42	-116.23	-1009	-1862	884	831	52.60	16.802			
5100	4393	6372	4832	32	44	-116.25	-950	-1914	883	828	55.26	15.980			
5122	4393	6394	4832	32	44	-116.26	-934	-1928	883	827	56.06	15.747			
5200	4394	6472	4832	33	46	-116.28	-875	-1980	882	823	58.84	14.989			
5222	4394	6494	4832	33	47	-116.28	-859	-1994	882	822	59.69	14.771			
5300	4395	6572	4833	34	48	-116.30	-800	-2046	881	818	62.55	14.080			
5322	4395	6594	4833	34	49	-116.31	-784	-2060	881	817	63.60	13.843			
5400	4395	6672	4833	35	50	-116.33	-725	-2112	880	813	66.38	13.252			
5422	4395	6694	4833	36	51	-116.34	-709	-2126	879	812	67.17	13.093			
5500	4396	6772	4834	37	53	-116.36	-650	-2178	879	808	70.29	12.499			
5522	4396	6794	4834	37	53	-116.36	-633	-2192	878	807	71.13	12.347			
5600	4397	6872	4834	38	55	-116.38	-575	-2244	877	803	74.26	11.814			
5622	4397	6894	4835	39	55	-116.39	-558	-2258	877	802	75.13	11.674			
5700	4397	6972	4835	40	57	-116.41	-500	-2310	876	798	78.30	11.191			
5722	4397	6994	4835	40	58	-116.42	-483	-2324	876	797	79.18	11.063			
5800	4398	7072	4836	42	59	-116.44	-424	-2376	875	793	82.38	10.623			
5822	4398	7094	4836	42	60	-116.44	-408	-2390	875	792	83.28	10.506			
5900	4399	7172	4836	44	62	-116.47	-349	-2442	874	788	86.50	10.104			
5922	4399	7194	4836	44	62	-116.47	-333	-2456	874	786	87.41	9.997			
6000	4399	7272	4837	46	64	-116.49	-274	-2508	873	782	90.66	9.629			
6022	4399	7294	4837	46	64	-116.50	-258	-2522	873	781	91.56	9.531			
6100	4400	7372	4837	48	66	-116.52	-199	-2574	872	777	94.83	9.193			
6122	4400	7394	4837	48	67	-116.53	-183	-2588	872	776	95.75	9.103			
6200	4401	7472	4838	50	68	-116.55	-124	-2640	871	772	99.04	8.792			
6222	4401	7494	4838	50	69	-116.55	-108	-2654	870	770	99.96	8.708			
6300	4401	7572	4838	52	71	-116.58	-49	-2705	870	766	103.26	8.422			
6322	4401	7594	4838	52	71	-116.58	-32	-2720	869	765	104.18	8.345			
6400	4402	7672	4839	54	73	-116.60	26	-2771	868	761	107.49	8.079			
6422	4402	7694	4839	54	74	-116.61	43	-2786	868	760	108.42	8.008			
6500	4403	7772	4839	56	75	-116.63	101	-2837	867	756	111.74	7.762			
6522	4403	7794	4839	56	76	-116.64	118	-2852	867	754	112.67	7.696			
6600	4403	7872	4840	58	78	-116.66	177	-2903	866	750	116.01	7.467			
6622	4403	7894	4840	59	78	-116.67	193	-2918	866	749	116.94	7.405			
6700	4404	7972	4840	60	80	-116.69	252	-2969	865	745	120.28	7.193			
6722	4404	7994	4841	61	81	-116.69	268	-2984	865	744	121.21	7.135			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 508H - Original drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF								Rule Assigned:					Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
6800	4405	8072	4841	63	82	-116.71	327	-3035	864	739	124.56	6.936		
6822	4405	8094	4841	63	83	-116.72	343	-3050	864	738	125.50	6.883		
6900	4405	8172	4841	65	85	-116.74	402	-3101	863	734	128.85	6.697		
6922	4405	8194	4842	65	85	-116.75	418	-3116	863	733	129.79	6.646		
7000	4406	8272	4842	67	87	-116.77	477	-3167	862	729	133.15	6.472		
7022	4406	8294	4842	68	88	-116.78	493	-3182	862	727	134.09	6.425		
7100	4406	8372	4843	69	90	-116.80	552	-3233	861	723	137.45	6.262		
7122	4407	8394	4843	70	90	-116.81	569	-3248	860	722	138.39	6.217		
7200	4407	8472	4843	72	92	-116.83	627	-3299	860	718	141.76	6.063		
7222	4407	8494	4843	72	92	-116.83	644	-3314	859	717	142.70	6.022		
7300	4408	8572	4844	74	94	-116.86	702	-3365	858	712	146.07	5.877		
7322	4408	8594	4844	74	95	-116.86	719	-3380	858	711	147.01	5.837		
7400	4408	8672	4844	76	97	-116.88	778	-3431	857	707	150.39	5.701		
7422	4409	8694	4844	77	97	-116.89	794	-3446	857	706	151.33	5.664		
7500	4409	8772	4845	79	99	-116.91	853	-3497	856	701	154.71	5.534		
7522	4409	8794	4845	79	100	-116.92	869	-3512	856	700	155.65	5.499		
7600	4410	8872	4845	81	101	-116.94	928	-3563	855	696	159.03	5.377		
7622	4410	8894	4845	81	102	-116.95	944	-3578	855	695	159.97	5.344		
7700	4410	8972	4846	83	104	-116.97	1003	-3629	854	691	163.35	5.228		
7722	4411	8994	4846	84	104	-116.98	1019	-3644	854	689	164.29	5.196		
7800	4411	9072	4846	86	106	-117.00	1078	-3695	853	685	167.68	5.086		
7822	4411	9094	4846	86	107	-117.00	1094	-3710	853	684	168.62	5.056		
7900	4412	9172	4847	88	109	-117.03	1153	-3761	852	680	172.00	4.952		
7922	4412	9194	4847	88	109	-117.03	1170	-3776	852	679	172.95	4.923		
8000	4412	9272	4847	90	111	-117.06	1228	-3827	851	674	176.33	4.824		
8022	4413	9294	4848	91	111	-117.06	1245	-3842	850	673	177.28	4.797		
8100	4413	9372	4848	93	113	-117.08	1303	-3893	850	669	180.66	4.702		
8122	4413	9394	4848	93	114	-117.09	1320	-3908	849	668	181.61	4.676		
8200	4414	9472	4849	95	116	-117.11	1379	-3959	848	663	184.99	4.586		
8222	4414	9494	4849	95	116	-117.12	1395	-3974	848	662	185.94	4.562		
8300	4414	9572	4849	97	118	-117.14	1454	-4025	847	658	189.33	4.475		
8322	4415	9594	4849	98	119	-117.15	1470	-4040	847	657	190.27	4.452		
8400	4415	9672	4850	100	121	-117.17	1529	-4091	846	653	193.66	4.369		
8422	4415	9694	4850	100	121	-117.18	1545	-4106	846	651	194.60	4.347		
8500	4416	9772	4850	102	123	-117.20	1604	-4157	845	647	197.99	4.268		
8522	4416	9794	4850	103	123	-117.21	1620	-4172	845	646	198.93	4.247		
8600	4416	9872	4851	104	125	-117.23	1679	-4223	844	642	202.32	4.171		
8622	4417	9894	4851	105	126	-117.24	1695	-4238	844	640	203.27	4.151		
8700	4417	9972	4851	107	128	-117.26	1754	-4289	843	636	206.65	4.079		
8722	4417	9994	4851	107	128	-117.27	1771	-4304	843	635	207.60	4.059		
8800	4418	10,072	4852	109	130	-117.29	1829	-4355	842	631	210.98	3.990		
8822	4418	10,094	4852	110	131	-117.30	1846	-4370	841	630	211.93	3.971		
8900	4418	10,172	4852	112	133	-117.32	1904	-4421	841	625	215.32	3.904		
8922	4419	10,194	4852	112	133	-117.33	1921	-4436	840	624	216.26	3.886		
9000	4419	10,272	4853	114	135	-117.35	1980	-4487	840	620	219.65	3.822		
9022	4419	10,294	4853	114	136	-117.35	1996	-4502	839	619	220.59	3.805		
9100	4420	10,372	4853	116	137	-117.38	2055	-4553	838	614	223.98	3.743		
9122	4420	10,394	4854	117	138	-117.38	2071	-4568	838	613	224.92	3.726		
9200	4420	10,472	4854	119	140	-117.41	2130	-4619	837	609	228.31	3.667		
9222	4421	10,494	4854	119	140	-117.41	2146	-4634	837	608	229.25	3.651		
9300	4421	10,572	4854	121	142	-117.44	2205	-4685	836	604	232.63	3.594		
9322	4421	10,594	4855	122	143	-117.44	2221	-4700	836	602	233.58	3.579		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 508H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9400	4422	10,672	4855	124	145	-117.47	2280	-4751	835	598	236.96	3.524		
9422	4422	10,694	4855	124	145	-117.47	2296	-4765	835	597	237.90	3.509		
9500	4422	10,772	4856	126	147	-117.50	2355	-4817	834	593	241.29	3.456		
9522	4423	10,794	4856	127	148	-117.50	2372	-4831	834	591	242.23	3.442		
9600	4423	10,872	4856	128	150	-117.53	2430	-4883	833	587	245.61	3.391		
9622	4423	10,894	4856	129	150	-117.53	2447	-4897	833	586	246.56	3.377		
9700	4424	10,972	4857	131	152	-117.56	2505	-4949	832	582	249.94	3.328		
9722	4424	10,994	4857	131	152	-117.56	2522	-4963	832	581	250.88	3.314		
9800	4424	11,072	4857	133	154	-117.59	2581	-5015	831	576	254.26	3.267		
9822	4425	11,094	4857	134	155	-117.59	2597	-5029	830	575	255.20	3.254		
9900	4425	11,172	4858	136	157	-117.62	2656	-5081	830	571	258.58	3.208		
9922	4425	11,194	4858	136	157	-117.63	2672	-5095	829	570	259.52	3.195		
10,000	4426	11,272	4858	138	159	-117.65	2731	-5147	828	566	262.90	3.151		
10,022	4426	11,294	4858	139	160	-117.66	2747	-5161	828	564	263.84	3.139		
10,100	4426	11,372	4859	140	162	-117.68	2806	-5213	827	560	267.22	3.096		
10,122	4427	11,394	4859	141	162	-117.69	2822	-5227	827	559	268.16	3.084		
10,200	4427	11,472	4859	143	164	-117.71	2881	-5279	826	555	271.54	3.043		
10,222	4427	11,494	4859	143	165	-117.72	2897	-5293	826	553	272.48	3.031		
10,300	4428	11,572	4860	145	166	-117.74	2956	-5345	825	549	275.85	2.991		
10,322	4428	11,594	4860	146	167	-117.75	2973	-5359	825	548	276.79	2.980		
10,400	4428	11,672	4860	148	169	-117.77	3031	-5411	824	544	280.17	2.941		
10,422	4429	11,694	4861	148	169	-117.78	3048	-5425	824	543	281.11	2.930		
10,500	4429	11,772	4861	150	171	-117.80	3106	-5477	823	538	284.48	2.893		
10,522	4429	11,794	4861	151	172	-117.81	3123	-5491	823	537	285.42	2.882		
10,600	4430	11,872	4861	153	174	-117.83	3182	-5543	822	533	288.79	2.846		
10,622	4430	11,894	4862	153	174	-117.84	3198	-5557	822	532	289.73	2.836		
10,700	4430	11,972	4862	155	176	-117.86	3257	-5609	821	528	293.10	2.800		
10,718	4431	11,990	4862	155	177	-117.87	3270	-5621	820	527	293.87	2.792		
10,782	4431	12,054	4862	157	178	-117.89	3318	-5663	820	523	296.63	2.764	CC, ES, SF	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 510H (ECA) - Original drilling - Original drilling												Offset Site Error:	0 ft
Survey Program: 368-MWD+HDGM, 5232-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0	0	39	39	0	0	-169.11	-1396	-269	1422				
100	100	143	143	0	0	-169.10	-1396	-269	1422	1421	0.55	2,561.707	
200	200	247	247	1	0	-169.06	-1395	-270	1421	1420	1.09	1,299.786	
300	300	351	351	1	1	-169.02	-1394	-271	1420	1419	1.63	870.430	
400	400	509	509	1	1	-168.96	-1390	-271	1418	1415	2.53	561.145	
450	450	599	599	2	1	-168.93	-1384	-271	1415	1412	3.03	466.760	
500	500	674	673	2	2	-28.66	-1377	-271	1410	1406	3.47	405.924	
600	600	828	826	2	2	-28.84	-1360	-269	1396	1391	4.37	319.299	
700	700	985	982	2	3	-29.20	-1335	-266	1374	1369	5.29	259.773	
800	799	1108	1102	3	3	-29.61	-1313	-266	1347	1341	6.09	221.267	
900	898	1220	1212	3	4	-30.20	-1290	-264	1315	1308	6.86	191.681	
1000	997	1411	1396	4	5	-31.34	-1242	-258	1275	1267	7.89	161.540	
1100	1094	1501	1483	4	5	-32.17	-1216	-257	1229	1221	8.60	142.921	
1200	1191	1616	1592	5	6	-33.26	-1181	-258	1181	1171	9.39	125.697	
1300	1288	1712	1683	5	6	-34.54	-1151	-258	1128	1118	10.14	111.227	
1400	1383	1798	1765	6	7	-36.03	-1123	-259	1072	1061	10.87	98.588	
1476	1454	1856	1819	6	7	-37.27	-1104	-259	1028	1017	11.43	89.962	
1500	1477	1872	1835	6	7	-37.46	-1098	-259	1014	1003	11.61	87.383	
1600	1570	1948	1907	7	8	-38.43	-1074	-260	957	944	12.35	77.435	
1700	1664	2037	1991	8	8	-39.73	-1045	-260	899	886	13.14	68.390	
1800	1758	2110	2060	8	8	-41.00	-1022	-259	841	827	13.94	60.341	
1900	1851	2183	2130	9	9	-42.39	-999	-260	785	770	14.78	53.118	
2000	1945	2254	2197	10	9	-43.86	-978	-260	730	714	15.65	46.632	
2100	2039	2338	2277	11	10	-45.87	-953	-260	676	659	16.57	40.802	
2200	2132	2416	2352	11	10	-48.03	-930	-261	623	605	17.54	35.493	
2300	2226	2496	2429	12	11	-50.72	-907	-260	571	552	18.58	30.711	
2400	2320	2580	2508	13	11	-54.02	-882	-260	520	500	19.71	26.384	
2500	2413	2660	2585	14	11	-57.88	-858	-259	471	450	20.96	22.455	
2600	2507	2738	2660	14	12	-62.30	-836	-258	424	402	22.37	18.958	
2700	2601	2823	2741	15	12	-67.95	-811	-257	381	357	23.92	15.926	
2800	2694	2909	2823	16	13	-74.98	-785	-256	341	315	25.67	13.278	
2900	2788	2991	2901	17	13	-83.07	-759	-255	306	279	27.64	11.088	
3000	2882	3070	2976	17	14	-91.92	-735	-254	281	251	29.63	9.469	
3100	2975	3150	3053	18	14	-101.45	-712	-255	265	234	31.33	8.471	
3169	3039	3205	3105	19	14	-108.25	-696	-255	262	230	32.17	8.153 CC, ES	
3200	3069	3230	3129	19	14	-111.40	-689	-254	263	230	32.43	8.106 SF	
3300	3162	3311	3207	20	15	-121.43	-665	-254	273	240	32.80	8.329	
3400	3256	3392	3284	20	15	-130.69	-641	-253	295	262	32.60	9.044	
3500	3350	3476	3365	21	16	-139.11	-617	-252	325	293	32.20	10.106	
3600	3443	3552	3438	22	16	-145.50	-596	-251	363	331	31.78	11.418	
3700	3537	3630	3512	23	17	-151.06	-573	-249	406	375	31.47	12.910	
3800	3631	3710	3588	24	17	-155.88	-550	-246	453	422	31.37	14.454	
3900	3724	3779	3654	24	17	-159.48	-529	-244	504	473	31.26	16.120	
4000	3818	3858	3729	25	18	-163.07	-503	-241	557	526	31.41	17.747	
4038	3854	3894	3763	25	18	-164.52	-492	-240	578	547	31.59	18.304	
4050	3865	3905	3773	25	18	-169.01	-488	-239	585	553	31.65	18.469	
4100	3912	3960	3826	26	18	172.11	-471	-238	611	579	32.05	19.074	
4150	3958	4022	3886	26	19	155.27	-454	-237	637	605	32.60	19.548	
4200	4004	4064	3926	27	19	141.56	-444	-237	662	629	32.93	20.114	
4250	4049	4094	3955	27	19	130.53	-437	-235	688	654	33.15	20.745	
4300	4093	4119	3979	27	19	121.60	-432	-233	713	680	33.33	21.406	
4350	4134	4154	4014	28	19	114.87	-425	-228	739	706	33.71	21.935	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 510H (ECA) - Original drilling - Original drilling												Offset Site Error:	0 ft
Survey Program: 368-MWD+HDGM, 5232-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4400	4174	4186	4045	28	19	109.42	-421	-223	765	731	34.08	22.463	
4450	4211	4215	4073	28	19	104.90	-417	-218	792	757	34.44	22.981	
4500	4245	4251	4109	28	20	101.69	-414	-211	818	783	34.97	23.384	
4550	4277	4280	4137	29	20	98.60	-412	-205	844	808	35.41	23.831	
4600	4305	4302	4158	29	20	95.50	-412	-200	870	835	35.79	24.318	
4650	4329	4318	4173	29	20	92.30	-412	-196	897	861	36.12	24.841	
4700	4350	4328	4184	29	20	88.96	-412	-194	925	888	36.41	25.398	
4750	4366	4334	4189	30	20	85.53	-412	-192	952	916	36.66	25.977	
4800	4379	4336	4191	30	20	82.07	-412	-192	980	943	36.89	26.569	
4850	4387	4335	4190	30	20	78.65	-412	-192	1008	971	37.10	27.165	
4900	4392	4331	4186	30	20	75.35	-412	-193	1035	998	37.30	27.755	
4920	4392	4329	4184	31	20	74.11	-412	-194	1046	1009	37.37	27.985	
5000	4393	4315	4171	31	20	73.24	-412	-197	1091	1054	37.63	29.002	
5100	4393	4315	4171	32	20	73.24	-412	-197	1153	1115	38.12	30.243	
5200	4394	4301	4157	33	20	72.34	-412	-200	1220	1181	38.37	31.782	
5300	4395	4294	4150	34	20	71.88	-412	-202	1290	1252	38.66	33.383	
5400	4395	4284	4141	35	20	71.26	-412	-204	1365	1326	38.87	35.120	
5500	4396	4284	4141	37	20	71.26	-412	-204	1442	1403	39.13	36.859	
5600	4397	4276	4133	38	20	70.74	-412	-205	1523	1483	39.28	38.763	
5700	4397	4271	4128	40	20	70.42	-413	-207	1605	1565	39.42	40.707	
5800	4398	4266	4123	42	20	70.14	-413	-208	1689	1649	39.55	42.708	
5900	4399	4262	4119	44	20	69.88	-413	-208	1775	1735	39.66	44.756	
6000	4399	4252	4109	46	20	69.23	-414	-210	1862	1822	39.70	46.908	
6100	4400	4252	4109	48	20	69.23	-414	-210	1950	1911	39.81	48.999	
6200	4401	4252	4109	50	20	69.23	-414	-210	2040	2000	39.90	51.125	
6300	4401	4252	4109	52	20	69.23	-414	-210	2130	2090	39.98	53.279	
6400	4402	4252	4109	54	20	69.23	-414	-210	2222	2181	40.06	55.459	
6500	4403	4252	4109	56	20	69.23	-414	-210	2313	2273	40.12	57.660	
6600	4403	4241	4099	58	20	68.55	-414	-213	2406	2366	40.11	59.990	
6700	4404	4239	4097	60	20	68.41	-415	-213	2499	2459	40.15	62.249	
6800	4405	4237	4095	63	20	68.28	-415	-213	2593	2553	40.18	64.522	
6900	4405	4235	4093	65	20	68.16	-415	-214	2687	2647	40.22	66.805	
7000	4406	4233	4091	67	20	68.05	-415	-214	2781	2741	40.25	69.097	
7100	4406	4232	4089	69	20	67.95	-415	-215	2876	2836	40.28	71.398	
7200	4407	4220	4078	72	20	67.21	-416	-217	2971	2931	40.25	73.817	
7300	4408	4220	4078	74	20	67.21	-416	-217	3067	3027	40.29	76.115	
7400	4408	4220	4078	76	20	67.21	-416	-217	3163	3122	40.33	78.419	
7500	4409	4220	4078	79	20	67.21	-416	-217	3259	3218	40.37	80.727	
7600	4410	4220	4078	81	20	67.21	-416	-217	3355	3315	40.40	83.039	
7700	4410	4220	4078	83	20	67.21	-416	-217	3451	3411	40.44	85.354	
7800	4411	4220	4078	86	20	67.21	-416	-217	3548	3508	40.47	87.671	
7900	4412	4220	4078	88	20	67.21	-416	-217	3645	3604	40.50	89.990	
8000	4412	4220	4078	90	20	67.21	-416	-217	3742	3701	40.54	92.310	
8100	4413	4220	4078	93	20	67.21	-416	-217	3839	3799	40.57	94.630	
8200	4414	4220	4078	95	20	67.21	-416	-217	3936	3896	40.60	96.951	
8300	4414	4220	4078	97	20	67.21	-416	-217	4034	3993	40.64	99.270	
8400	4415	4220	4078	100	20	67.21	-416	-217	4131	4091	40.67	101.589	
8500	4416	4220	4078	102	20	67.21	-416	-217	4229	4188	40.70	103.906	
8600	4416	4220	4078	104	20	67.21	-416	-217	4327	4286	40.73	106.222	
8700	4417	4220	4078	107	20	67.21	-416	-217	4425	4384	40.77	108.536	
8800	4418	4220	4078	109	20	67.21	-416	-217	4523	4482	40.80	110.847	
8900	4418	4220	4078	112	20	67.21	-416	-217	4621	4580	40.84	113.155	

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



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: A09 2309 - 510H (ECA) - Original drilling - Original drilling													Offset Site Error: 0 ft	
Survey Program: 368-MWD+HDGM, 5232-MWD+HDGM												Offset Well Error: 0 ft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9000	4419	4220	4078	114	20	67.21	-416	-217	4719	4678	40.87	115.461		
9100	4420	4220	4078	116	20	67.21	-416	-217	4817	4776	40.91	117.763		
9200	4420	4220	4078	119	20	67.21	-416	-217	4915	4875	40.94	120.062		
9300	4421	4220	4078	121	20	67.21	-416	-217	5014	4973	40.98	122.357		
9400	4422	4220	4078	124	20	67.21	-416	-217	5112	5071	41.01	124.648		
9500	4422	4220	4078	126	20	67.21	-416	-217	5211	5170	41.05	126.935		
9600	4423	4220	4078	128	20	67.21	-416	-217	5309	5268	41.09	129.217		
9700	4424	4220	4078	131	20	67.21	-416	-217	5408	5367	41.13	131.495		
9800	4424	4220	4078	133	20	67.21	-416	-217	5506	5465	41.16	133.768		
9900	4425	4220	4078	136	20	67.21	-416	-217	5605	5564	41.20	136.036		
10,000	4426	4220	4078	138	20	67.21	-416	-217	5704	5663	41.24	138.299		
10,100	4426	4220	4078	140	20	67.21	-416	-217	5803	5761	41.28	140.557		
10,200	4427	4220	4078	143	20	67.21	-416	-217	5901	5860	41.32	142.809		
10,300	4428	4220	4078	145	20	67.21	-416	-217	6000	5959	41.37	145.056		
10,400	4428	4220	4078	148	20	67.21	-416	-217	6099	6058	41.41	147.297		
10,500	4429	4220	4078	150	20	67.21	-416	-217	6198	6157	41.45	149.532		
10,600	4430	4220	4078	153	20	67.21	-416	-217	6297	6256	41.49	151.761		
10,700	4430	4220	4078	155	20	67.21	-416	-217	6396	6355	41.54	153.984		
10,782	4431	4220	4078	157	20	67.21	-416	-217	6477	6436	41.57	155.805		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 704H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	90.00	0	20	20					
100	100	100	100	0	0	90.00	0	20	20	19	0.62	32.518		
200	200	200	200	1	1	90.00	0	20	20	19	1.33	15.035		
300	300	300	300	1	1	90.00	0	20	20	18	2.05	9.778		
400	400	400	400	1	1	90.00	0	20	20	17	2.77	7.245		
450	450	450	450	2	2	90.00	0	20	20	17	3.13	6.414 CC		
500	500	500	500	2	2	-129.64	0	20	20	17	3.47	5.791		
600	600	601	601	2	2	-128.94	-3	18	20	16	4.14	4.931		
700	700	701	701	2	2	-127.62	-9	14	21	16	4.83	4.356 ES		
800	799	801	800	3	3	-125.77	-18	8	22	16	5.55	3.964		
900	898	902	900	3	3	-123.55	-30	1	23	17	6.31	3.694		
1000	997	1002	999	4	4	-121.11	-44	-9	25	18	7.13	3.505		
1100	1094	1102	1097	4	4	-118.59	-62	-21	27	19	8.02	3.372		
1200	1191	1203	1194	5	5	-116.11	-82	-34	30	21	9.00	3.277		
1300	1288	1303	1290	5	5	-113.73	-105	-49	32	22	10.09	3.208		
1400	1383	1403	1386	6	6	-111.52	-131	-66	36	24	11.28	3.157		
1476	1454	1479	1457	6	6	-109.97	-153	-80	38	26	12.27	3.126		
1500	1477	1504	1480	6	6	-109.38	-160	-85	39	27	12.59	3.115		
1600	1570	1604	1573	7	7	-105.54	-191	-105	43	29	14.03	3.044		
1700	1664	1703	1666	8	8	-102.13	-222	-125	46	31	15.50	2.989		
1800	1758	1803	1759	8	9	-99.23	-252	-146	50	33	16.99	2.949		
1900	1851	1903	1852	9	9	-96.73	-283	-166	54	35	18.48	2.920		
2000	1945	2003	1944	10	10	-94.58	-314	-186	58	38	19.98	2.899		
2100	2039	2103	2037	11	11	-92.70	-345	-206	62	40	21.48	2.885		
2200	2132	2203	2130	11	12	-91.05	-376	-226	66	43	22.97	2.875		
2300	2226	2303	2223	12	12	-89.60	-406	-246	70	46	24.47	2.868		
2400	2320	2403	2316	13	13	-88.31	-437	-267	74	48	25.97	2.864		
2500	2413	2503	2409	14	14	-87.15	-468	-287	79	51	27.46	2.862		
2600	2507	2602	2502	14	15	-86.12	-499	-307	83	54	28.95	2.861 SF		
2700	2601	2702	2595	15	15	-85.18	-529	-327	87	57	30.44	2.861		
2800	2694	2802	2687	16	16	-84.34	-560	-347	91	59	31.92	2.862		
2900	2788	2902	2780	17	17	-83.56	-591	-368	96	62	33.41	2.864		
3000	2882	3002	2873	17	18	-82.86	-622	-388	100	65	34.89	2.866		
3100	2975	3102	2966	18	19	-82.21	-653	-408	104	68	36.38	2.868		
3200	3069	3202	3059	19	19	-81.62	-683	-428	109	71	37.86	2.871		
3300	3162	3302	3152	20	20	-81.07	-714	-448	113	74	39.34	2.873		
3400	3256	3402	3245	20	21	-80.56	-745	-469	117	77	40.82	2.876		
3500	3350	3502	3337	21	22	-80.09	-776	-489	122	79	42.29	2.879		
3600	3443	3601	3430	22	23	-79.65	-806	-509	126	82	43.77	2.882		
3700	3537	3701	3523	23	23	-79.24	-837	-529	131	85	45.25	2.885		
3800	3631	3801	3616	24	24	-78.86	-868	-549	135	88	46.72	2.888		
3900	3724	3901	3709	24	25	-78.50	-899	-569	139	91	48.20	2.891		
4000	3818	4001	3802	25	26	-78.16	-930	-590	144	94	49.67	2.894		
4038	3854	4039	3837	25	26	-78.04	-941	-597	145	95	50.23	2.895		
4050	3865	4051	3848	25	26	-81.28	-945	-600	146	96	50.41	2.898		
4100	3912	4101	3894	26	27	-95.26	-960	-610	152	100	51.16	2.964		
4150	3958	4144	3934	26	27	-108.21	-974	-618	162	110	51.79	3.132		
4200	4004	4179	3967	27	27	-119.08	-986	-624	180	128	52.13	3.452		
4250	4049	4211	3996	27	27	-127.68	-999	-627	205	152	52.28	3.915		
4300	4093	4239	4022	27	28	-134.28	-1011	-629	235	183	52.28	4.504		
4350	4134	4263	4043	28	28	-139.28	-1022	-630	271	219	52.18	5.202		
4400	4174	4283	4060	28	28	-142.99	-1032	-630	312	260	52.03	5.989		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 704H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4450	4211	4300	4075	28	28	-145.69	-1041	-629	355	303	52.01	6.829	
4500	4245	4300	4075	28	28	-146.92	-1041	-629	401	350	51.20	7.839	
4550	4277	4317	4089	29	28	-147.64	-1050	-629	449	397	51.64	8.697	
4600	4305	4322	4093	29	28	-145.31	-1052	-628	498	447	51.59	9.658	
4650	4329	4324	4095	29	28	-126.24	-1053	-628	548	496	51.58	10.625	
4700	4350	4324	4095	29	28	0.55	-1053	-628	598	546	51.61	11.587	
4750	4366	4322	4093	30	28	13.47	-1052	-628	648	596	51.69	12.532	
4800	4379	4318	4090	30	28	16.21	-1050	-629	697	645	51.79	13.455	
4850	4387	4300	4075	30	28	17.47	-1041	-629	745	694	51.47	14.480	
4900	4392	4300	4075	30	28	17.98	-1041	-629	792	740	51.91	15.260	
4920	4392	4300	4075	31	28	18.15	-1041	-629	810	758	52.09	15.555	
5000	4393	4300	4075	31	28	18.15	-1041	-629	884	832	52.74	16.768	
5100	4393	4276	4054	32	28	18.30	-1028	-630	977	924	52.68	18.547	
5200	4394	4250	4031	33	28	18.45	-1016	-629	1071	1018	52.52	20.390	
5300	4395	4250	4031	34	28	18.45	-1016	-629	1165	1112	52.97	21.995	
5400	4395	4250	4031	35	28	18.45	-1016	-629	1260	1207	53.32	23.635	
5500	4396	4250	4031	37	28	18.45	-1016	-629	1356	1302	53.59	25.302	
5600	4397	4227	4010	38	28	18.57	-1006	-628	1452	1398	53.36	27.206	
5700	4397	4220	4004	40	27	18.61	-1003	-628	1548	1495	53.43	28.974	
5800	4398	4200	3986	42	27	18.70	-995	-626	1645	1592	53.25	30.893	
5900	4399	4200	3986	44	27	18.70	-995	-626	1742	1688	53.41	32.613	
6000	4399	4200	3986	46	27	18.70	-995	-626	1839	1785	53.54	34.346	
6100	4400	4200	3986	48	27	18.70	-995	-626	1936	1883	53.66	36.088	
6200	4401	4200	3986	50	27	18.70	-995	-626	2034	1980	53.76	37.838	
6300	4401	4200	3986	52	27	18.70	-995	-626	2132	2078	53.84	39.596	
6400	4402	4200	3986	54	27	18.70	-995	-626	2230	2176	53.92	41.359	
6500	4403	4200	3986	56	27	18.70	-995	-626	2328	2274	53.99	43.126	
6600	4403	4176	3965	58	27	18.81	-985	-623	2426	2372	53.71	45.173	
6700	4404	4173	3962	60	27	18.82	-984	-623	2524	2471	53.72	46.992	
6800	4405	4150	3940	63	27	18.92	-976	-619	2623	2570	53.45	49.081	
6900	4405	4150	3940	65	27	18.92	-976	-619	2722	2668	53.51	50.867	
7000	4406	4150	3940	67	27	18.92	-976	-619	2820	2767	53.56	52.657	
7100	4406	4150	3940	69	27	18.92	-976	-619	2919	2865	53.61	54.448	
7200	4407	4150	3940	72	27	18.92	-976	-619	3018	2964	53.65	56.241	
7300	4408	4150	3940	74	27	18.92	-976	-619	3116	3063	53.70	58.035	
7400	4408	4150	3940	76	27	18.92	-976	-619	3215	3162	53.74	59.830	
7500	4409	4150	3940	79	27	18.92	-976	-619	3314	3260	53.78	61.626	
7600	4410	4150	3940	81	27	18.92	-976	-619	3413	3359	53.82	63.422	
7700	4410	4150	3940	83	27	18.92	-976	-619	3512	3458	53.86	65.218	
7800	4411	4150	3940	86	27	18.92	-976	-619	3611	3558	53.89	67.014	
7900	4412	4150	3940	88	27	18.92	-976	-619	3711	3657	53.93	68.809	
8000	4412	4150	3940	90	27	18.92	-976	-619	3810	3756	53.96	70.604	
8100	4413	4150	3940	93	27	18.92	-976	-619	3909	3855	53.99	72.398	
8200	4414	4150	3940	95	27	18.92	-976	-619	4008	3954	54.03	74.190	
8300	4414	4150	3940	97	27	18.92	-976	-619	4108	4054	54.06	75.982	
8400	4415	4150	3940	100	27	18.92	-976	-619	4207	4153	54.09	77.773	
8500	4416	4137	3928	102	27	18.98	-972	-617	4306	4252	53.96	79.798	
8600	4416	4136	3927	104	27	18.98	-971	-617	4406	4352	53.98	81.612	
8700	4417	4123	3915	107	27	19.03	-967	-614	4505	4451	53.86	83.643	
8800	4418	4123	3915	109	27	19.03	-967	-614	4605	4551	53.89	85.435	
8900	4418	4123	3915	112	27	19.03	-967	-614	4704	4650	53.93	87.225	
9000	4419	4123	3915	114	27	19.03	-967	-614	4803	4749	53.96	89.014	

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



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 704H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9100	4420	4123	3915	116	27	19.03	-967	-614	4903	4849	54.00	90.800	
9200	4420	4123	3915	119	27	19.03	-967	-614	5002	4948	54.03	92.584	
9300	4421	4123	3915	121	27	19.03	-967	-614	5102	5048	54.06	94.366	
9400	4422	4123	3915	124	27	19.03	-967	-614	5201	5147	54.10	96.145	
9500	4422	4123	3915	126	27	19.03	-967	-614	5301	5247	54.13	97.923	
9600	4423	4123	3915	128	27	19.03	-967	-614	5400	5346	54.17	99.697	
9700	4424	4123	3915	131	27	19.03	-967	-614	5500	5446	54.20	101.470	
9800	4424	4123	3915	133	27	19.03	-967	-614	5600	5545	54.24	103.239	
9900	4425	4122	3915	136	27	19.03	-967	-614	5699	5645	54.26	105.027	
10,000	4426	4114	3906	138	27	19.07	-964	-612	5799	5745	54.20	106.998	
10,100	4426	4105	3898	140	27	19.10	-961	-611	5899	5844	54.13	108.971	
10,200	4427	4096	3890	143	26	19.13	-959	-609	5998	5944	54.06	110.948	
10,300	4428	4087	3882	145	26	19.16	-956	-607	6098	6044	54.00	112.927	
10,400	4428	4079	3874	148	26	19.19	-953	-605	6197	6143	53.93	114.909	
10,500	4429	4070	3866	150	26	19.22	-951	-604	6297	6243	53.87	116.894	
10,600	4430	4061	3858	153	26	19.24	-948	-602	6397	6343	53.81	118.881	
10,700	4430	4052	3849	155	26	19.27	-945	-600	6496	6442	53.74	120.871	
10,782	4431	4045	3843	157	26	19.29	-943	-599	6578	6524	53.69	122.507	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 732H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	90.00	0	60	60					
100	100	100	100	0	0	90.00	0	60	60	59	0.62	97.075		
200	200	200	200	1	1	90.00	0	60	60	59	1.33	44.884		
300	300	300	300	1	1	90.00	0	60	60	58	2.05	29.190		
400	400	400	400	1	1	90.00	0	60	60	57	2.77	21.628		
450	450	450	450	2	2	90.00	0	60	60	57	3.13	19.148 CC, ES		
500	500	499	499	2	2	-130.03	0	60	61	57	3.47	17.457		
600	600	597	597	2	2	-132.25	0	64	66	62	4.14	15.996		
700	700	693	693	2	2	-135.68	0	70	78	73	4.83	16.136		
800	799	792	791	3	3	-139.47	0	78	94	88	5.53	16.987		
900	898	890	889	3	3	-143.15	1	87	113	107	6.25	18.108		
1000	997	987	986	4	4	-146.51	1	95	135	128	6.97	19.438		
1100	1094	1083	1082	4	4	-149.48	1	103	161	153	7.69	20.932		
1200	1191	1179	1177	5	4	-152.06	1	111	190	182	8.43	22.550		
1300	1288	1273	1271	5	5	-154.27	1	119	222	213	9.16	24.267		
1400	1383	1366	1363	6	5	-156.17	1	127	258	248	9.89	26.062		
1476	1454	1436	1433	6	5	-157.42	1	133	287	276	10.45	27.461		
1500	1477	1458	1455	6	5	-157.86	2	135	297	286	10.63	27.901		
1600	1570	1549	1546	7	6	-159.43	2	142	336	325	11.35	29.631		
1700	1664	1641	1637	8	6	-160.66	2	150	376	364	12.08	31.157		
1800	1758	1732	1728	8	6	-161.66	2	158	416	404	12.81	32.512		
1900	1851	1823	1819	9	7	-162.48	2	165	457	443	13.54	33.720		
2000	1945	1915	1910	10	7	-163.17	2	173	497	483	14.27	34.803		
2100	2039	2006	2001	11	7	-163.76	2	181	537	522	15.01	35.778		
2200	2132	2098	2092	11	8	-164.26	3	188	577	562	15.75	36.660		
2300	2226	2189	2183	12	8	-164.70	3	196	618	601	16.49	37.461		
2400	2320	2280	2274	13	9	-165.09	3	204	658	641	17.23	38.191		
2500	2413	2372	2365	14	9	-165.43	3	212	699	681	17.98	38.860		
2600	2507	2463	2457	14	9	-165.73	3	219	739	720	18.72	39.474		
2700	2601	2554	2548	15	10	-166.01	3	227	780	760	19.47	40.039		
2800	2694	2646	2639	16	10	-166.25	4	235	820	800	20.22	40.562		
2900	2788	2737	2730	17	10	-166.47	4	242	860	840	20.96	41.046		
3000	2882	2829	2821	17	11	-166.68	4	250	901	879	21.71	41.496		
3100	2975	2920	2912	18	11	-166.86	4	258	941	919	22.46	41.914		
3200	3069	3011	3003	19	11	-167.03	4	265	982	959	23.21	42.305		
3300	3162	3103	3094	20	12	-167.19	4	273	1023	999	23.96	42.671		
3400	3256	3194	3185	20	12	-167.33	4	281	1063	1038	24.71	43.014		
3500	3350	3286	3276	21	12	-167.46	5	289	1104	1078	25.47	43.335		
3600	3443	3377	3367	22	13	-167.59	5	296	1144	1118	26.22	43.638		
3700	3537	3468	3458	23	13	-167.70	5	304	1185	1158	26.97	43.923		
3800	3631	3560	3549	24	14	-167.81	5	312	1225	1197	27.72	44.192		
3900	3724	3651	3640	24	14	-167.91	5	319	1266	1237	28.48	44.447		
4000	3818	3743	3731	25	14	-168.01	5	327	1306	1277	29.23	44.687		
4038	3854	3778	3766	25	14	-168.04	5	330	1322	1292	29.52	44.776		
4050	3865	3788	3777	25	14	-171.88	5	331	1327	1297	29.61	44.803		
4100	3912	3834	3822	26	15	171.81	6	335	1347	1317	29.98	44.933		
4150	3958	3883	3871	26	15	156.80	6	338	1367	1337	30.36	45.045		
4200	4004	3938	3926	27	15	144.05	10	340	1388	1357	30.73	45.152		
4250	4049	3994	3982	27	15	133.67	18	337	1407	1376	31.07	45.301		
4300	4093	4052	4038	27	15	125.33	31	330	1426	1395	31.36	45.481		
4350	4134	4112	4093	28	15	118.60	48	318	1445	1413	31.64	45.667		
4400	4174	4173	4148	28	16	113.12	71	302	1462	1430	31.90	45.830		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 732H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4450	4211	4235	4200	28	16	108.60	98	281	1478	1446	32.18	45.928	
4500	4245	4300	4250	28	16	104.85	130	256	1493	1460	32.51	45.914	
4550	4277	4365	4295	29	16	101.70	167	225	1506	1473	32.95	45.694	
4600	4305	4432	4334	29	16	99.06	208	191	1517	1484	33.48	45.313	
4650	4329	4500	4367	29	16	96.85	253	152	1527	1493	34.22	44.617	
4700	4350	4567	4393	29	17	95.02	300	111	1535	1500	35.16	43.656	
4750	4366	4635	4411	30	18	93.52	348	67	1541	1505	36.29	42.461	
4800	4379	4702	4420	30	18	92.33	397	23	1545	1507	37.60	41.092	
4850	4387	4761	4422	30	19	91.49	441	-18	1547	1508	38.95	39.722	
4900	4392	4811	4422	30	20	91.14	477	-52	1548	1507	40.24	38.456	
4920	4392	4831	4423	31	20	91.13	492	-65	1547	1507	40.79	37.938	
5000	4393	4911	4423	31	22	91.13	551	-119	1546	1503	43.14	35.840	
5100	4393	5011	4424	32	23	91.13	624	-187	1545	1498	46.39	33.302	
5200	4394	5111	4424	33	25	91.13	697	-255	1543	1493	49.91	30.923	
5300	4395	5211	4425	34	27	91.13	771	-323	1542	1488	53.65	28.738	
5400	4395	5311	4426	35	29	91.13	844	-391	1540	1483	57.57	26.754	
5500	4396	5411	4426	37	31	91.13	917	-459	1539	1477	61.63	24.965	
5600	4397	5511	4427	38	33	91.13	990	-527	1537	1471	65.82	23.355	
5700	4397	5611	4428	40	35	91.14	1064	-595	1536	1466	70.10	21.907	
5800	4398	5711	4428	42	38	91.14	1137	-663	1534	1460	74.46	20.604	
5900	4399	5811	4429	44	40	91.14	1210	-731	1533	1454	78.89	19.428	
6000	4399	5911	4430	46	42	91.14	1284	-799	1531	1448	83.37	18.365	
6100	4400	6011	4430	48	44	91.14	1357	-867	1530	1442	87.90	17.401	
6200	4401	6111	4431	50	47	91.14	1430	-935	1528	1436	92.48	16.524	
6300	4401	6211	4432	52	49	91.14	1504	-1003	1527	1429	97.08	15.724	
6400	4402	6311	4432	54	51	91.14	1577	-1071	1525	1423	101.72	14.993	
6500	4403	6411	4433	56	54	91.14	1650	-1139	1524	1417	106.39	14.321	
6600	4403	6511	4434	58	56	91.15	1724	-1207	1522	1411	111.07	13.703	
6700	4404	6611	4434	60	58	91.15	1797	-1275	1521	1405	115.78	13.133	
6800	4405	6711	4435	63	61	91.15	1870	-1343	1519	1399	120.51	12.605	
6900	4405	6811	4436	65	63	91.15	1944	-1411	1518	1392	125.25	12.116	
7000	4406	6911	4436	67	66	91.15	2017	-1479	1516	1386	130.00	11.661	
7100	4406	7011	4437	69	68	91.15	2090	-1547	1514	1380	134.77	11.238	
7200	4407	7111	4438	72	70	91.15	2164	-1615	1513	1373	139.55	10.842	
7300	4408	7211	4438	74	73	91.15	2237	-1683	1511	1367	144.34	10.472	
7400	4408	7311	4439	76	75	91.16	2310	-1751	1510	1361	149.13	10.125	
7500	4409	7411	4440	79	78	91.16	2383	-1819	1508	1354	153.94	9.799	
7600	4410	7511	4440	81	80	91.16	2457	-1887	1507	1348	158.75	9.492	
7700	4410	7611	4441	83	82	91.16	2530	-1955	1505	1342	163.57	9.203	
7800	4411	7711	4442	86	85	91.16	2603	-2023	1504	1335	168.40	8.930	
7900	4412	7811	4442	88	87	91.16	2677	-2091	1502	1329	173.23	8.673	
8000	4412	7911	4443	90	90	91.16	2750	-2159	1501	1323	178.07	8.428	
8100	4413	8011	4444	93	92	91.16	2823	-2227	1499	1316	182.92	8.197	
8200	4414	8111	4444	95	95	91.16	2897	-2295	1498	1310	187.76	7.977	
8300	4414	8211	4445	97	97	91.17	2970	-2363	1496	1304	192.61	7.769	
8400	4415	8311	4446	100	99	91.17	3043	-2431	1495	1297	197.47	7.570	
8500	4416	8411	4446	102	102	91.17	3117	-2499	1493	1291	202.33	7.381	
8600	4416	8511	4447	104	104	91.17	3190	-2567	1492	1285	207.19	7.200	
8700	4417	8611	4448	107	107	91.17	3263	-2635	1490	1278	212.06	7.028	
8800	4418	8711	4448	109	109	91.17	3337	-2703	1489	1272	216.93	6.863	
8900	4418	8811	4449	112	112	91.17	3410	-2771	1487	1265	221.80	6.706	
9000	4419	8911	4450	114	114	91.17	3483	-2839	1486	1259	226.67	6.555	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 732H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9100	4420	9011	4450	116	117	91.18	3556	-2907	1484	1253	231.55	6.410	
9200	4420	9111	4451	119	119	91.18	3630	-2975	1483	1246	236.42	6.271	
9300	4421	9211	4452	121	121	91.18	3703	-3043	1481	1240	241.30	6.138	
9400	4422	9311	4452	124	124	91.18	3776	-3111	1480	1234	246.19	6.010	
9500	4422	9411	4453	126	126	91.18	3850	-3179	1478	1227	251.07	5.888	
9600	4423	9511	4454	128	129	91.18	3923	-3247	1477	1221	255.96	5.769	
9700	4424	9611	4454	131	131	91.18	3996	-3315	1475	1214	260.84	5.655	
9800	4424	9711	4455	133	134	91.18	4070	-3383	1474	1208	265.73	5.546	
9900	4425	9811	4456	136	136	91.19	4143	-3451	1472	1202	270.62	5.440	
10,000	4426	9911	4456	138	139	91.19	4216	-3519	1471	1195	275.52	5.338	
10,100	4426	10,011	4457	140	141	91.19	4290	-3587	1469	1189	280.41	5.239	
10,200	4427	10,111	4458	143	144	91.19	4363	-3655	1468	1182	285.30	5.144	
10,300	4428	10,211	4458	145	146	91.19	4436	-3723	1466	1176	290.20	5.052	
10,400	4428	10,311	4459	148	148	91.19	4510	-3791	1465	1169	295.09	4.963	
10,500	4429	10,411	4460	150	151	91.19	4583	-3859	1463	1163	299.99	4.877	
10,600	4430	10,511	4460	153	153	91.19	4656	-3927	1462	1157	304.89	4.794	
10,700	4430	10,611	4461	155	156	91.20	4730	-3995	1460	1150	309.79	4.713	
10,782	4431	10,693	4462	157	158	91.20	4790	-4051	1459	1145	313.82	4.649 SF	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 733H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	90.00	0	40	40					
100	100	100	100	0	0	90.00	0	40	40	39	0.46	86.076		
200	200	200	200	1	1	90.00	0	40	40	39	1.18	33.750		
300	300	300	300	1	1	90.00	0	40	40	38	1.90	20.990		
400	400	400	400	1	1	90.00	0	40	40	37	2.61	15.232		
450	450	450	450	2	1	90.00	0	40	40	37	2.97	13.394 CC, ES		
500	500	499	499	2	2	-130.02	0	40	40	37	3.31	12.216		
600	600	598	598	2	2	-132.01	-1	43	46	42	3.99	11.551 SF		
700	700	695	695	2	2	-134.80	-3	50	57	53	4.68	12.254		
800	799	792	791	3	3	-137.34	-6	59	74	69	5.37	13.816		
900	898	887	885	3	3	-139.28	-9	72	97	91	6.08	15.928		
1000	997	981	978	4	3	-140.77	-14	87	124	118	6.80	18.300		
1100	1094	1076	1072	4	4	-142.33	-18	102	155	148	7.55	20.539		
1200	1191	1170	1165	5	4	-143.88	-22	117	189	180	8.32	22.679		
1300	1288	1263	1257	5	5	-145.36	-27	132	225	216	9.10	24.722		
1400	1383	1355	1347	6	5	-146.72	-31	146	264	254	9.89	26.710		
1476	1454	1424	1415	6	5	-147.67	-34	157	296	285	10.49	28.184		
1500	1477	1446	1436	6	5	-148.07	-35	161	306	295	10.69	28.639		
1600	1570	1536	1525	7	6	-149.47	-40	175	349	338	11.48	30.402		
1700	1664	1626	1614	8	6	-150.57	-44	190	392	380	12.28	31.932		
1800	1758	1716	1702	8	7	-151.45	-48	204	435	422	13.08	33.269		
1900	1851	1806	1791	9	7	-152.17	-52	218	479	465	13.89	34.446		
2000	1945	1896	1880	10	8	-152.78	-56	233	522	507	14.70	35.488		
2100	2039	1986	1969	11	8	-153.29	-61	247	565	550	15.52	36.416		
2200	2132	2076	2057	11	8	-153.73	-65	262	609	592	16.34	37.247		
2300	2226	2166	2146	12	9	-154.11	-69	276	652	635	17.16	37.995		
2400	2320	2256	2235	13	9	-154.44	-73	291	695	677	17.98	38.672		
2500	2413	2346	2324	14	10	-154.73	-77	305	739	720	18.80	39.286		
2600	2507	2436	2412	14	10	-155.00	-82	319	782	763	19.63	39.846		
2700	2601	2526	2501	15	11	-155.23	-86	334	826	805	20.46	40.359		
2800	2694	2616	2590	16	11	-155.44	-90	348	869	848	21.29	40.830		
2900	2788	2706	2679	17	11	-155.63	-94	363	913	890	22.12	41.264		
3000	2882	2796	2767	17	12	-155.80	-98	377	956	933	22.95	41.665		
3100	2975	2886	2856	18	12	-155.96	-103	391	1000	976	23.78	42.037		
3200	3069	2976	2945	19	13	-156.11	-107	406	1043	1018	24.61	42.382		
3300	3162	3066	3034	20	13	-156.24	-111	420	1086	1061	25.44	42.704		
3400	3256	3156	3122	20	14	-156.36	-115	435	1130	1104	26.28	43.004		
3500	3350	3246	3211	21	14	-156.48	-119	449	1173	1146	27.11	43.284		
3600	3443	3336	3300	22	14	-156.58	-124	463	1217	1189	27.95	43.548		
3700	3537	3426	3389	23	15	-156.68	-128	478	1261	1232	28.78	43.795		
3800	3631	3516	3478	24	15	-156.77	-132	492	1304	1274	29.62	44.027		
3900	3724	3606	3566	24	16	-156.86	-136	507	1348	1317	30.46	44.246		
4000	3818	3696	3655	25	16	-156.94	-140	521	1391	1360	31.29	44.453		
4038	3854	3730	3689	25	16	-156.97	-142	527	1408	1376	31.61	44.529		
4050	3865	3741	3699	25	16	-160.83	-143	528	1413	1381	31.71	44.553		
4100	3912	3786	3743	26	17	-177.38	-145	535	1435	1403	32.11	44.696		
4150	3958	3829	3786	26	17	167.23	-147	542	1459	1426	32.49	44.901		
4200	4004	3872	3828	27	17	154.03	-149	549	1483	1450	32.83	45.169		
4250	4049	3912	3868	27	17	143.17	-151	556	1507	1474	33.13	45.500		
4300	4093	3951	3907	27	17	134.30	-152	562	1533	1499	33.40	45.890		
4350	4134	3988	3943	28	18	126.96	-154	568	1558	1525	33.63	46.340		
4400	4174	4000	3955	28	18	120.15	-155	570	1585	1551	33.63	47.119		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 733H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4450	4211	4025	3979	28	18	114.52	-156	574	1611	1578	33.75	47.751
4500	4245	4050	4004	28	18	109.61	-159	580	1639	1605	33.86	48.396
4550	4277	4050	4004	29	18	104.31	-159	580	1666	1633	33.73	49.400
4600	4305	4050	4004	29	18	99.39	-159	580	1694	1661	33.61	50.415
4650	4329	4050	4004	29	18	94.82	-159	580	1722	1689	33.49	51.421
4700	4350	4050	4004	29	18	90.62	-159	580	1750	1717	33.40	52.400
4750	4366	4065	4018	30	18	87.36	-161	583	1777	1744	33.49	53.065
4800	4379	4050	4004	30	18	83.29	-159	580	1804	1771	33.28	54.205
4850	4387	4050	4004	30	18	80.18	-159	580	1830	1797	33.27	55.005
4900	4392	4050	4004	30	18	77.45	-159	580	1855	1822	33.29	55.725
4920	4392	4050	4004	31	18	76.48	-159	580	1865	1831	33.30	55.988
5000	4393	4050	4004	31	18	76.48	-159	580	1904	1871	33.41	57.002
5100	4393	4050	4004	32	18	76.48	-159	580	1958	1924	33.60	58.253
5200	4394	4050	4004	33	18	76.48	-159	580	2014	1980	33.85	59.506
5300	4395	4030	3984	34	18	75.80	-157	575	2074	2040	33.96	61.065
5400	4395	4024	3979	35	18	75.62	-156	574	2136	2102	34.23	62.419
5500	4396	4019	3974	37	18	75.45	-156	573	2202	2167	34.52	63.787
5600	4397	4000	3955	38	18	74.79	-155	570	2270	2235	34.71	65.398
5700	4397	4000	3955	40	18	74.79	-155	570	2340	2305	35.06	66.748
5800	4398	4000	3955	42	18	74.79	-155	570	2412	2377	35.40	68.137
5900	4399	4000	3955	44	18	74.79	-155	570	2486	2451	35.74	69.564
6000	4399	4000	3955	46	18	74.79	-155	570	2562	2526	36.07	71.029
6100	4400	3997	3952	48	18	74.69	-155	569	2640	2603	36.37	72.570
6200	4401	3994	3949	50	18	74.57	-154	569	2719	2682	36.66	74.151
6300	4401	3980	3935	52	18	74.12	-154	567	2799	2762	36.88	75.894
6400	4402	3967	3922	54	17	73.66	-153	564	2880	2843	37.08	77.665
6500	4403	3953	3909	56	17	73.20	-153	562	2963	2925	37.28	79.463
6600	4403	3940	3895	58	17	72.75	-152	560	3046	3009	37.47	81.288
6700	4404	3926	3882	60	17	72.30	-151	558	3131	3093	37.65	83.137
6800	4405	3913	3868	63	17	71.85	-151	556	3216	3178	37.83	85.009
6900	4405	3899	3855	65	17	71.40	-150	554	3302	3264	37.99	86.904
7000	4406	3885	3842	67	17	70.95	-149	551	3388	3350	38.15	88.819
7100	4406	3872	3828	69	17	70.50	-149	549	3476	3437	38.30	90.755
7200	4407	3858	3815	72	17	70.06	-148	547	3564	3525	38.44	92.709
7300	4408	3845	3802	74	17	69.62	-147	545	3652	3614	38.58	94.680
7400	4408	3831	3788	76	17	69.18	-147	543	3741	3703	38.70	96.668
7500	4409	3818	3775	79	17	68.74	-146	541	3831	3792	38.83	98.671
7600	4410	3804	3762	81	17	68.30	-146	538	3921	3882	38.94	100.689
7700	4410	3791	3748	83	17	67.87	-145	536	4011	3972	39.05	102.720
7800	4411	3777	3735	86	17	67.43	-144	534	4102	4063	39.16	104.764
7900	4412	3764	3722	88	16	67.00	-144	532	4194	4154	39.26	106.820
8000	4412	3750	3708	90	16	66.57	-143	530	4285	4246	39.35	108.887
8100	4413	3737	3695	93	16	66.15	-142	528	4377	4338	39.44	110.965
8200	4414	3723	3682	95	16	65.72	-142	525	4469	4430	39.53	113.053
8300	4414	3710	3668	97	16	65.30	-141	523	4562	4522	39.62	115.150
8400	4415	3696	3655	100	16	64.88	-141	521	4654	4615	39.70	117.255
8500	4416	3683	3642	102	16	64.46	-140	519	4748	4708	39.77	119.368
8600	4416	3669	3628	104	16	64.05	-139	517	4841	4801	39.85	121.489
8700	4417	3656	3615	107	16	63.64	-139	515	4934	4894	39.92	123.617
8800	4418	3642	3602	109	16	63.23	-138	512	5028	4988	39.98	125.751
8900	4418	3628	3588	112	16	62.82	-137	510	5122	5082	40.05	127.891
9000	4419	3615	3575	114	16	62.41	-137	508	5216	5176	40.11	130.036

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
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Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: P04 2309 - 733H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9100	4420	3601	3562	116	16	62.01	-136	506	5310	5270	40.17	132.187	
9200	4420	3588	3548	119	16	61.61	-135	504	5405	5364	40.23	134.342	
9300	4421	3574	3535	121	16	61.21	-135	502	5499	5459	40.29	136.502	
9400	4422	3561	3522	124	16	60.81	-134	499	5594	5554	40.34	138.666	
9500	4422	3547	3508	126	15	60.42	-134	497	5689	5649	40.40	140.833	
9600	4423	3534	3495	128	15	60.03	-133	495	5784	5744	40.45	143.003	
9700	4424	3520	3482	131	15	59.64	-132	493	5879	5839	40.50	145.177	
9800	4424	3507	3468	133	15	59.25	-132	491	5975	5934	40.55	147.352	
9900	4425	3493	3455	136	15	58.87	-131	489	6070	6029	40.59	149.531	
10,000	4426	3480	3442	138	15	58.48	-130	486	6166	6125	40.64	151.711	
10,100	4426	3466	3428	140	15	58.10	-130	484	6261	6221	40.69	153.892	
10,200	4427	3453	3415	143	15	57.73	-129	482	6357	6316	40.73	156.075	
10,300	4428	3439	3402	145	15	57.35	-128	480	6453	6412	40.77	158.260	
10,400	4428	3426	3388	148	15	56.98	-128	478	6549	6508	40.82	160.445	
10,500	4429	3412	3375	150	15	56.61	-127	476	6645	6604	40.86	162.631	
10,600	4430	3399	3362	153	15	56.25	-127	474	6741	6700	40.90	164.817	
10,700	4430	3385	3348	155	15	55.88	-126	471	6837	6796	40.94	167.003	
10,782	4431	3374	3337	157	15	55.59	-125	470	6916	6875	40.97	168.799	

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Lonestar Consulting, LLC

Anticollision Report

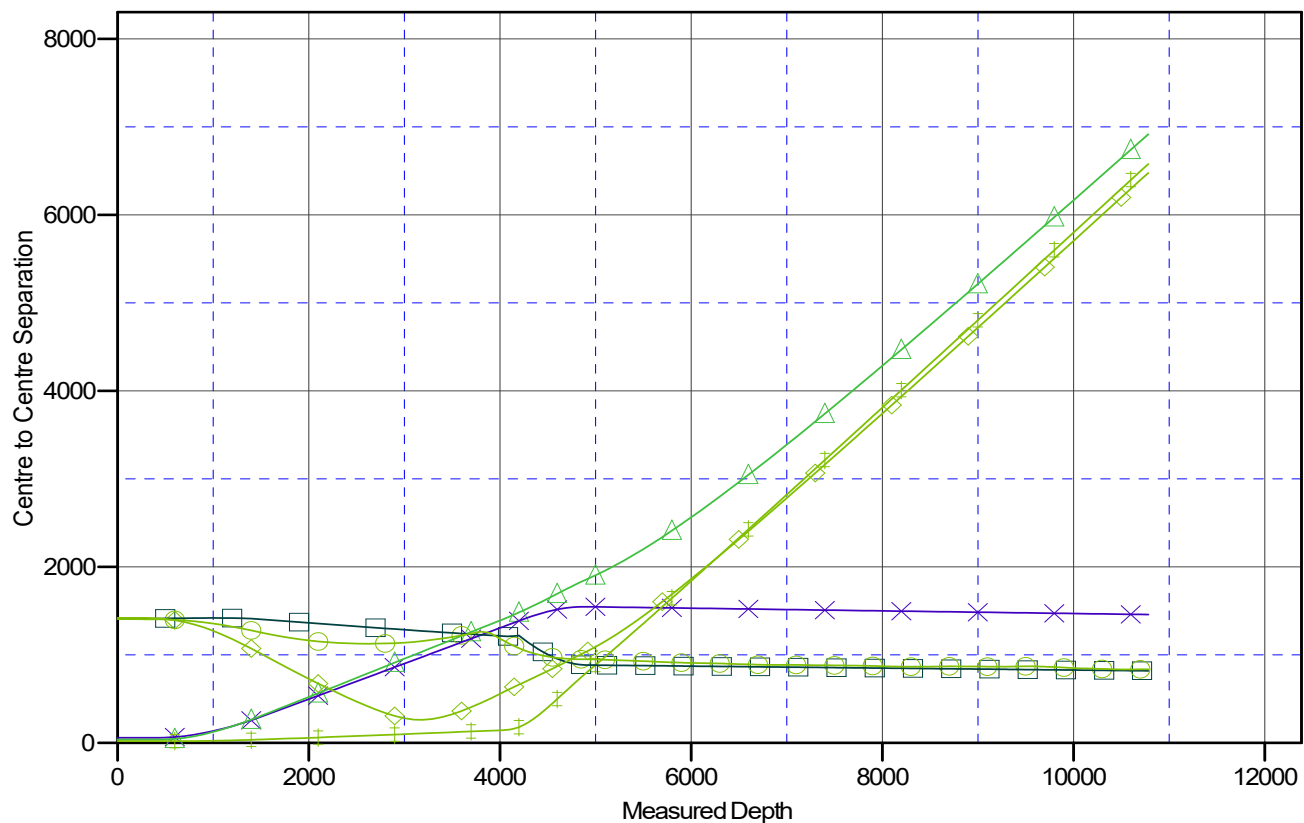


Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6711' & RKB 14' @ 6725ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: 701H - Slot 1
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.03°

Ladder Plot



LEGEND

732H Original Drilling, APDVO 704H Original Drilling, APDVO 507H (EOA) Original rilling, Ac drilled VO
 733H Original Drilling, APDVO 508H Original drilling, APDVO 510H (EOA) Original rilling, Original drilling VO

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 701H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6711' & RKB 14' @ 6725ft
Reference Site:	P04 2309	MD Reference:	GL 6711' & RKB 14' @ 6725ft
Site Error:	0 ft	North Reference:	True
Reference Well:	701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6711' & RKB 14' @ 6725ft

Offset Depths are relative to Offset Datum

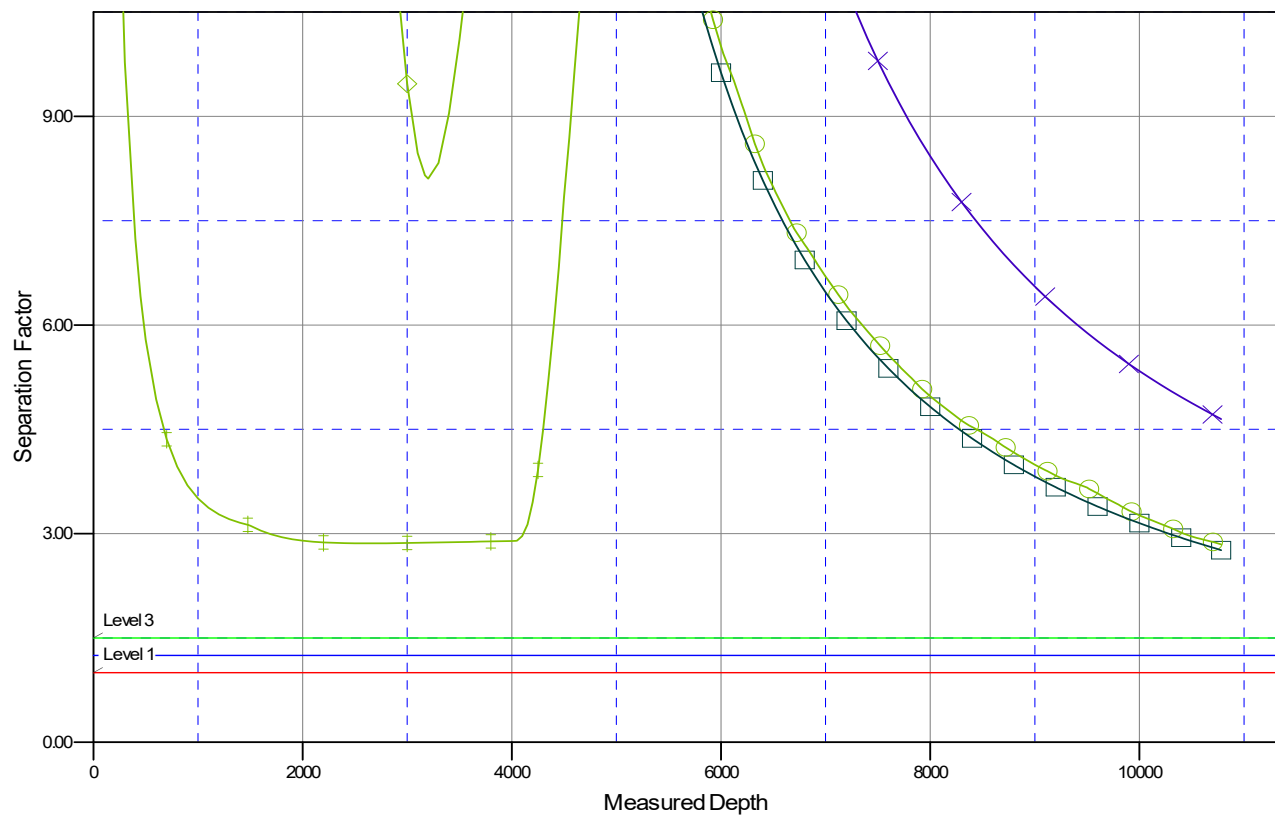
Central Meridian is -107.8333333

Coordinates are relative to: 701H - Slot 1

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

Grid Convergence at Surface is: 0.03°

Separation Factor Plot



LEGEND

- 732H(Original Drilling, APDVO)
- 733H(Original Drilling, APDVO)
- 704H(Original Drilling, APDVO)
- 508H(Original Drilling, APDVO)
- 507H(ECA) Original drilling, As drilled VO
- 510H(ECA) Original drilling, Original drilling VO

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Blvd, Suite A
Farmington, New Mexico 87402



In Reply Refer To:
3162.3-1(NMF0110)

* ENDURING RESOURCES LLC

#701H NAGEEZI UNIT

Lease: NO-G-1402-1839

Agreement: NMNM132981A

SH: SESE Section 4, T. 23 N., R. 9 W.

San Juan County, New Mexico

BH: NWNW Section 4, T. 23 N., R. 9 W.

San Juan County, New Mexico

***Above Data Required on Well Sign**

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☐ Test the surface casing to a minimum of _____ psi for 30 minutes.
- D. ☐ Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.
- E. ☐ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.
- F. ☐ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws and regulations with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to at Virgil Lucero at 505-793-1836.**
- G. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all time, unless the well is secured with blowout preventers or cement plugs.
- J. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed.
1. Original and three copies on Federal and an Original and five copies on Indian leases of Sundry Notice (Form 3150-5), giving complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of any and all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include; size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the manner in which the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 2. Well Completion Report (Form 3160-4) will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 3. Submit a cement evaluation log, if cement is not circulated to surface.

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of *** Days** or 50 MMCF following its (completion)(recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

***30 days**, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the first gas to surface.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any changes of plans required in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.F.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.F. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

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

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

CONDITIONS

Action 378725

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	378725
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/12/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/12/2024
ward.rikala	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 fresh water zone or zones and shall immediately set in cement the water protection string	9/12/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/12/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/12/2024
ward.rikala	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	9/12/2024
ward.rikala	This well can not be produced until the operator is in compliance with Rule 5.9.	9/12/2024