

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. 30-045-38368
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)



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 30-045-38368	Pool Code 98080	Pool Name NAGEEZI UNIT; MANCOS (OIL)
Property Code 325268	Property Name NAGEEZI UNIT	Well Number 704H
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		1134' SOUTH	111' EAST	36.251880° N	107.785746° 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
O	10	29N	9W		354' SOUTH	1472' EAST	36.235004° N	107.772122° W	SAN JUAN

Dedicated Acres PENETRATED SPACING UNIT; SEC 9: NE/NE & SE/NE (80 AC.); SEC 10: NW/NW, SW/NW, SE/NW, NW/SW, NE/SW, SE/SW, NW/SE, SW/SE & SE/SE (360 AC.) = 440 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
			N	
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
A	9	23N	9W		352' NORTH	501' EAST	36.247790° N	107.787067° 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
A	9	23N	9W		352' NORTH	501' EAST	36.247790° N	107.787067° 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
O	10	29N	9W		354' SOUTH	1472' EAST	36.235004° N	107.772122° 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

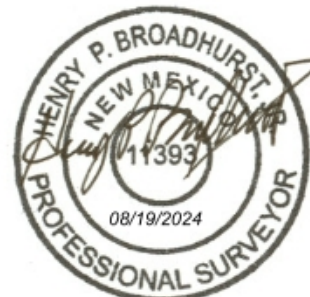
Printed Name

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

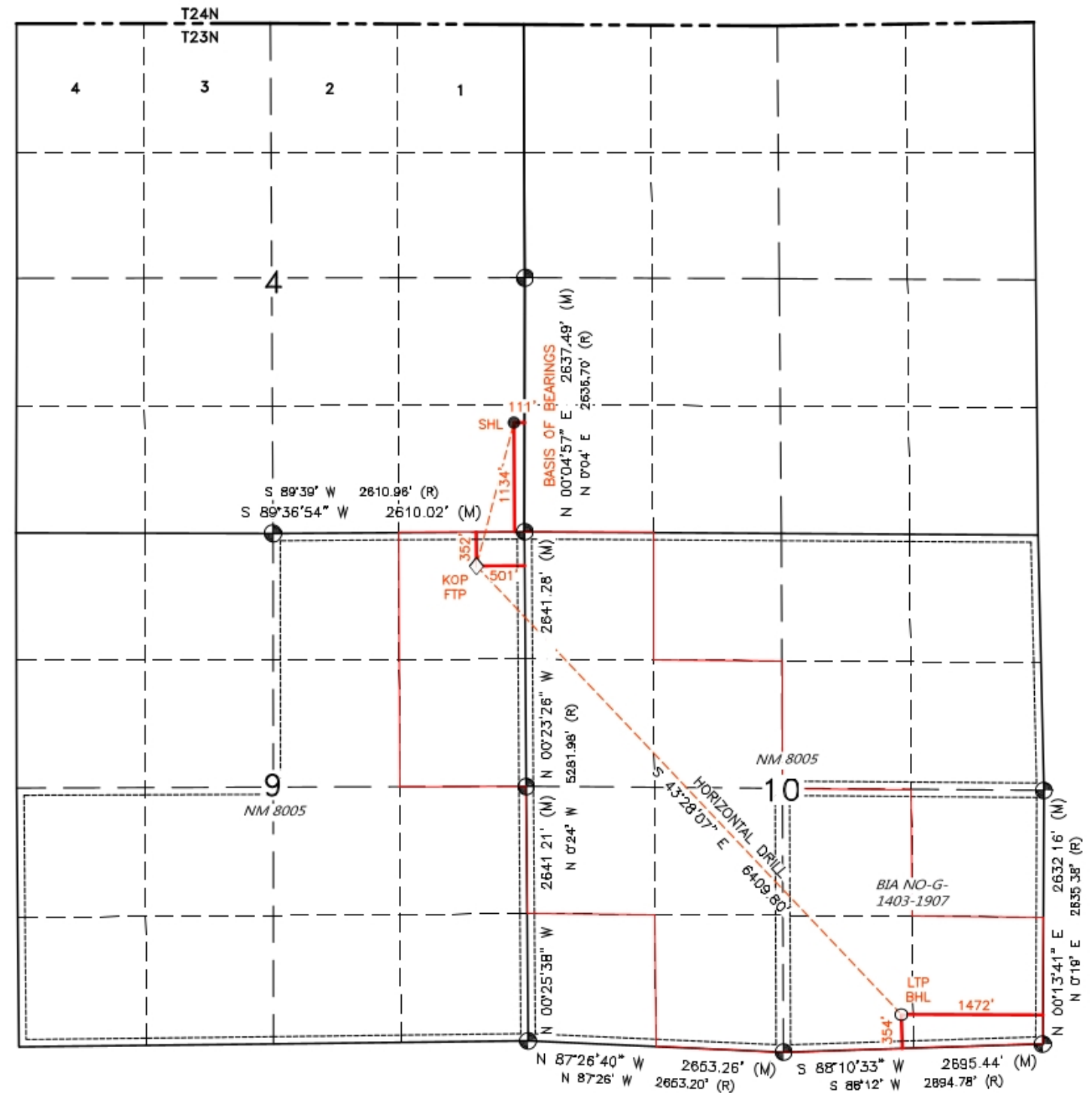
11393

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 218 BC
CLO 1947



SURFACE LOCATION (SHL)
1134' FSL 111' FEL
SEC. 4, T23N, R9W
LAT. 36.251880° N (NAD83)
LONG. 107.785746° W (NAD83)

FIRST TAKE POINT (FTP)
352' FNL 501' FEL
SEC. 9, T23N, R9W
LAT. 36.247790° N (NAD83)
LONG. 107.787067° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
354' FSL 1472' FEL
SEC. 10, T23N, R9W
LAT. 36.235004° N (NAD83)
LONG. 107.772122° W (NAD83)

KICK OFF POINT (KOP)
352' FNL 501' FEL
SEC. 9, T23N, R9W
LAT. 36.247790° N (NAD83)
LONG. 107.787067° W (NAD83)

LAST TAKE POINT (LTP)
354' FSL 1472' FEL
SEC. 10, T23N, R9W
LAT. 36.235004° N (NAD83)
LONG. 107.772122° 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 #704H

San Juan County, New Mexico

Surface Location

111-ft FEL & 1134-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 107.7857460° W

Kick Off Point for Horizontal Build Curve

4123-ft MD
 3915-ft TVD

Local Coordinates (from SHL)

967-ft South
 634-ft West

Heel Location (Pay zone entry)

501-ft FEL & 352-ft FNL
 Sec 9 T23N R9W

Heel Geographical Coordinates (NAD-83)

Latitude 36.24779036° N
 Longitude 107.78706722° W

Bottom Hole Location (TD)

1472-ft FEL & 354-ft FSL
 Sec 10 T23N R9W

BHL Geographical Coordinates (NAD-83)

Latitude 36.23500443° N
 Longitude 107.7721220° W

Well objectives

This well is planned as a 6410-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 129°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	420	420	Sd	W	8.3	8.4 – 8.8
Kirtland	552	552	Sh	-	8.3	8.4 – 8.8
Fruitland	863	862	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1134	1128	Sd	W	8.3	9.0 - 9.5
Lewis	1241	1231	Sh	-		9.0 - 9.5
Chacra	1867	1818	Sd	-	8.3	9.0 - 9.5
Menefee	2666	2561	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3715	3536	Sd	-	8.3	9.0 - 9.5
Mancos	3875	3685	Sh	-		9.0 - 9.5
Mancos Silt	4223	4007	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	4937	4381	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	4883	surf	4379	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4625	11347	4302	4339	4625

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	3875-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	428	106
Volume (bbls)	178	29
Volume (cu.ft.)	1002	161
Excess %	78	0



Rev 3

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4625-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	581
Volume (cu.ft)	157
Excess %	883
	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 – 4883	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	4883 – 11347	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

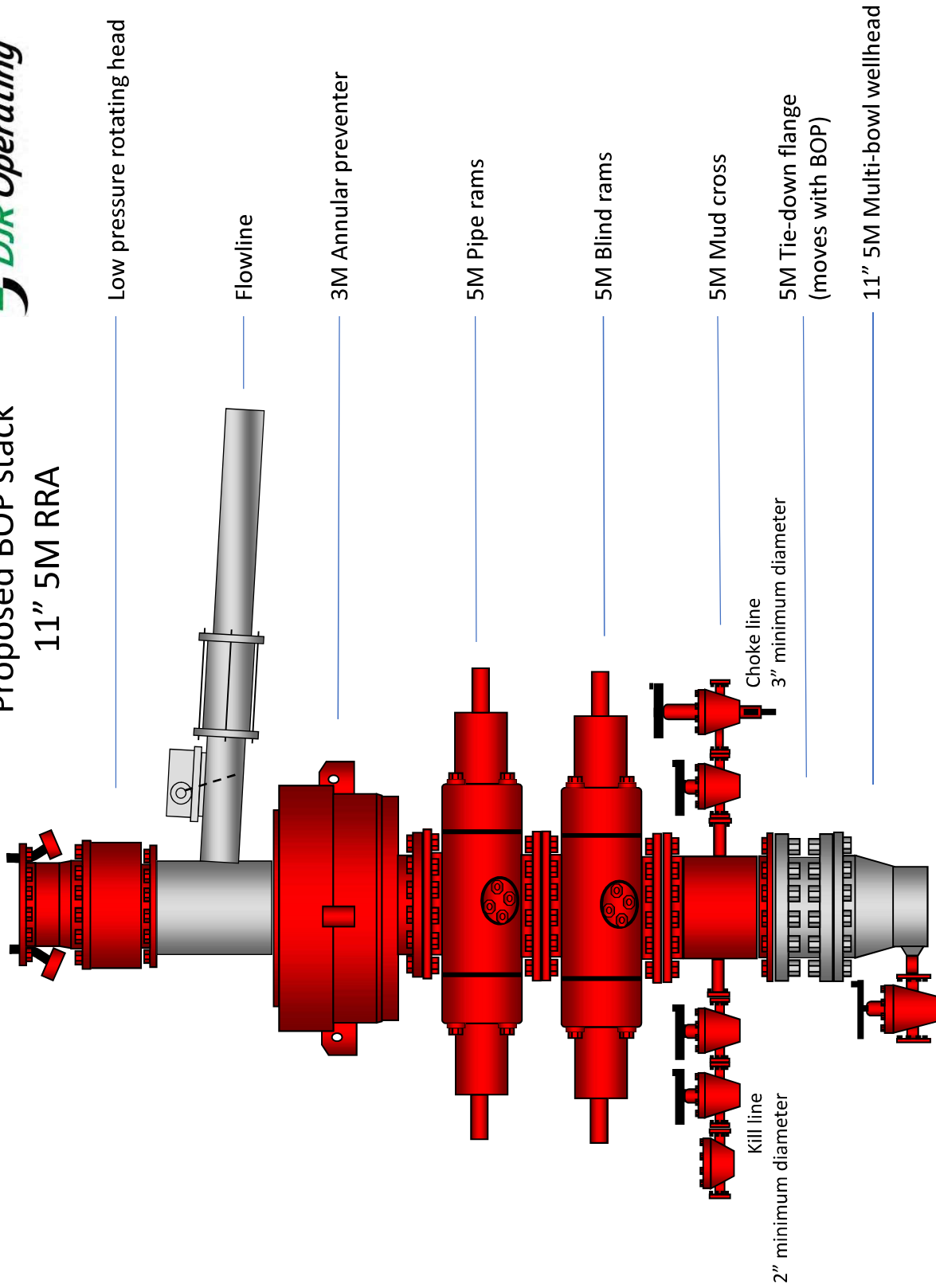
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



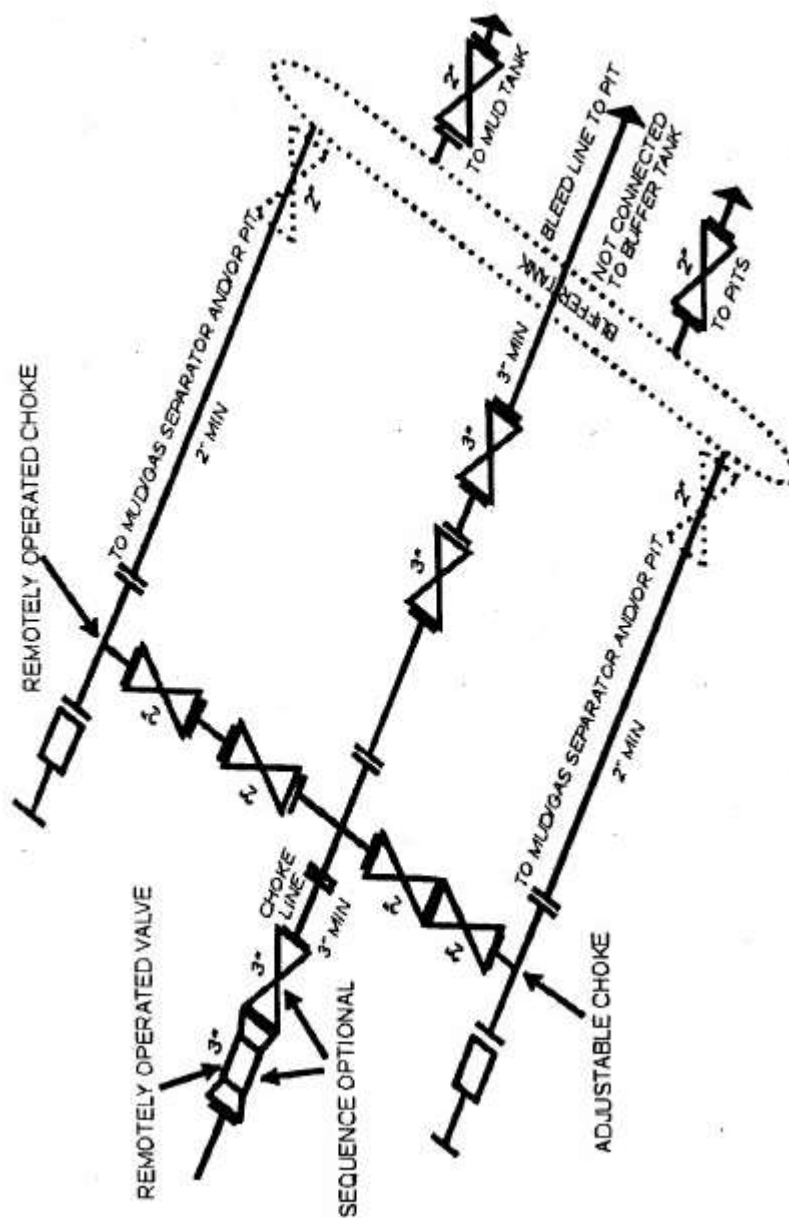
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Nageezi Unit
Site: P04 2309
Well: 704H
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: 704H

GL 6711' & RKB 14' @ 6725ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1910986.32	2737122.50	36.25188000	-107.78574600

Plan: APD (704H/Original Drilling)

Created By: Janie Collins Date: 12:10, April 20 2023

DESIGN TARGET DETAILS

	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Heel	4381	-1489	-390	1909497.41	2736733.66	36.24779036	-107.78706722
Toe	4339	-6143	4018	1904845.49	2741143.33	36.23500443	-107.77212201

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	0	0	0.00	0.00	0
1531	21.62	213.26	1506	-169	-111	2.00	213.26	81
4123	21.62	213.26	3915	-967	-634	0.00	0.00	462
4937	90.38	136.56	4381	-1489	-390	10.50	-77.47	1033
11347	90.38	136.56	4339	-6143	4018	0.00	0.00	7340



Azimuths to True North
Magnetic North: 81°

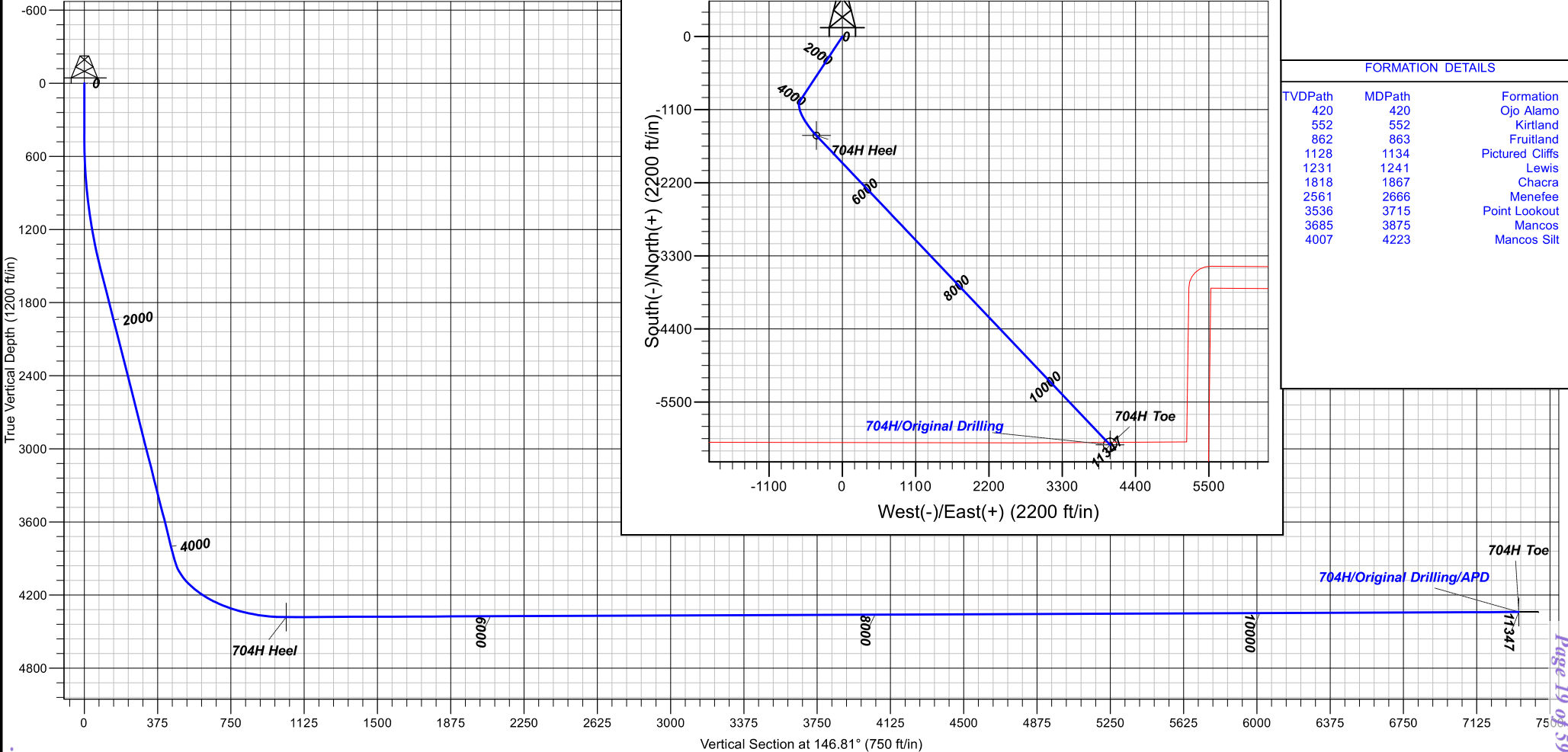
Magnetic Field
Strength: 49225 μT
Dip Angle: 62.8°
Date: 6/2/2022
Model: IGRF2015

CASING DETAILS

TVD	MD	Name
350	350	Surface
4379	4883	Intermediate

FORMATION DETAILS

TVDPATH	MDPATH	FORMATION
420	420	Ojo Alamo
552	552	Kirtland
862	863	Fruitland
1128	1134	Pictured Cliffs
1231	1241	Lewis
1818	1867	Chacra
2561	2666	Menefee
3536	3715	Point Lookout
3685	3875	Mancos
4007	4223	Mancos Silt





DJR Operating

Nageezi Unit

P04 2309

704H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

20 April, 2023





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	704H - Slot 2					
Well Position	+N/-S	0 ft	Northing:	1,910,986.32 usft	Latitude:	36.25188000
	+E/-W	0 ft	Easting:	2,737,122.50 usft	Longitude:	-107.78574600
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	49,225.36011381

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	146.81

Plan Survey Tool Program	Date	4/20/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	11,347 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	
1531	21.62	213.26	1506	-169	-111	2.00	2.00	0.00	213.26	
4123	21.62	213.26	3915	-967	-634	0.00	0.00	0.00	0.00	
4937	90.38	136.56	4381	-1489	-390	10.50	8.44	-9.42	-77.47	704H Heel
11,347	90.38	136.56	4339	-6143	4018	0.00	0.00	0.00	0.00	704H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	213.26	500	0	0	0	2.00	2.00	0.00
600	3.00	213.26	600	-3	-2	2	2.00	2.00	0.00
700	5.00	213.26	700	-9	-6	4	2.00	2.00	0.00
800	7.00	213.26	799	-18	-12	9	2.00	2.00	0.00
900	9.00	213.26	898	-29	-19	14	2.00	2.00	0.00
1000	11.00	213.26	997	-44	-29	21	2.00	2.00	0.00
1100	13.00	213.26	1094	-61	-40	29	2.00	2.00	0.00
1200	15.00	213.26	1191	-82	-54	39	2.00	2.00	0.00
1300	17.00	213.26	1288	-105	-69	50	2.00	2.00	0.00
1400	19.00	213.26	1383	-131	-86	62	2.00	2.00	0.00
1500	21.00	213.26	1477	-159	-104	76	2.00	2.00	0.00
1531	21.62	213.26	1506	-169	-111	81	2.00	2.00	0.00
1600	21.62	213.26	1570	-190	-124	91	0.00	0.00	0.00
1700	21.62	213.26	1663	-221	-145	105	0.00	0.00	0.00
1800	21.62	213.26	1756	-251	-165	120	0.00	0.00	0.00
1900	21.62	213.26	1849	-282	-185	135	0.00	0.00	0.00
2000	21.62	213.26	1942	-313	-205	150	0.00	0.00	0.00
2100	21.62	213.26	2034	-344	-226	164	0.00	0.00	0.00
2200	21.62	213.26	2127	-375	-246	179	0.00	0.00	0.00
2300	21.62	213.26	2220	-405	-266	194	0.00	0.00	0.00
2400	21.62	213.26	2313	-436	-286	208	0.00	0.00	0.00
2500	21.62	213.26	2406	-467	-306	223	0.00	0.00	0.00
2600	21.62	213.26	2499	-498	-327	238	0.00	0.00	0.00
2700	21.62	213.26	2592	-529	-347	253	0.00	0.00	0.00
2800	21.62	213.26	2685	-559	-367	267	0.00	0.00	0.00
2900	21.62	213.26	2778	-590	-387	282	0.00	0.00	0.00
3000	21.62	213.26	2871	-621	-407	297	0.00	0.00	0.00
3100	21.62	213.26	2964	-652	-428	312	0.00	0.00	0.00
3200	21.62	213.26	3057	-683	-448	326	0.00	0.00	0.00
3300	21.62	213.26	3150	-714	-468	341	0.00	0.00	0.00
3400	21.62	213.26	3243	-744	-488	356	0.00	0.00	0.00
3500	21.62	213.26	3336	-775	-508	370	0.00	0.00	0.00
3600	21.62	213.26	3429	-806	-529	385	0.00	0.00	0.00
3700	21.62	213.26	3522	-837	-549	400	0.00	0.00	0.00
3800	21.62	213.26	3615	-868	-569	415	0.00	0.00	0.00
3900	21.62	213.26	3708	-898	-589	429	0.00	0.00	0.00
4000	21.62	213.26	3801	-929	-610	444	0.00	0.00	0.00
4100	21.62	213.26	3894	-960	-630	459	0.00	0.00	0.00
4123	21.62	213.26	3915	-967	-634	462	0.00	0.00	0.00
4200	24.59	194.08	3986	-995	-646	479	10.50	3.88	-25.01
4300	31.14	176.35	4075	-1041	-649	515	10.50	6.55	-17.73
4400	39.30	164.80	4156	-1097	-640	568	10.50	8.16	-11.54
4500	48.25	156.83	4229	-1162	-616	635	10.50	8.95	-7.97
4600	57.61	150.86	4289	-1234	-581	714	10.50	9.36	-5.97
4700	67.20	146.03	4335	-1309	-535	803	10.50	9.59	-4.83
4800	76.92	141.84	4366	-1386	-479	898	10.50	9.72	-4.19
4900	86.70	137.98	4380	-1461	-415	996	10.50	9.78	-3.86
4937	90.38	136.56	4381	-1489	-390	1033	10.50	9.80	-3.78



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	90.38	136.56	4381	-1534	-347	1094	0.00	0.00	0.00
5100	90.38	136.56	4380	-1607	-278	1193	0.00	0.00	0.00
5200	90.38	136.56	4379	-1679	-209	1291	0.00	0.00	0.00
5300	90.38	136.56	4379	-1752	-140	1389	0.00	0.00	0.00
5400	90.38	136.56	4378	-1825	-72	1488	0.00	0.00	0.00
5500	90.38	136.56	4377	-1897	-3	1586	0.00	0.00	0.00
5600	90.38	136.56	4377	-1970	66	1685	0.00	0.00	0.00
5700	90.38	136.56	4376	-2042	135	1783	0.00	0.00	0.00
5800	90.38	136.56	4375	-2115	203	1881	0.00	0.00	0.00
5900	90.38	136.56	4375	-2188	272	1980	0.00	0.00	0.00
6000	90.38	136.56	4374	-2260	341	2078	0.00	0.00	0.00
6100	90.38	136.56	4373	-2333	410	2177	0.00	0.00	0.00
6200	90.38	136.56	4373	-2405	479	2275	0.00	0.00	0.00
6300	90.38	136.56	4372	-2478	547	2373	0.00	0.00	0.00
6400	90.38	136.56	4371	-2551	616	2472	0.00	0.00	0.00
6500	90.38	136.56	4371	-2623	685	2570	0.00	0.00	0.00
6600	90.38	136.56	4370	-2696	754	2669	0.00	0.00	0.00
6700	90.38	136.56	4369	-2768	822	2767	0.00	0.00	0.00
6800	90.38	136.56	4369	-2841	891	2865	0.00	0.00	0.00
6900	90.38	136.56	4368	-2914	960	2964	0.00	0.00	0.00
7000	90.38	136.56	4367	-2986	1029	3062	0.00	0.00	0.00
7100	90.38	136.56	4367	-3059	1097	3161	0.00	0.00	0.00
7200	90.38	136.56	4366	-3131	1166	3259	0.00	0.00	0.00
7300	90.38	136.56	4366	-3204	1235	3357	0.00	0.00	0.00
7400	90.38	136.56	4365	-3277	1304	3456	0.00	0.00	0.00
7500	90.38	136.56	4364	-3349	1372	3554	0.00	0.00	0.00
7600	90.38	136.56	4364	-3422	1441	3653	0.00	0.00	0.00
7700	90.38	136.56	4363	-3494	1510	3751	0.00	0.00	0.00
7800	90.38	136.56	4362	-3567	1579	3849	0.00	0.00	0.00
7900	90.38	136.56	4362	-3640	1647	3948	0.00	0.00	0.00
8000	90.38	136.56	4361	-3712	1716	4046	0.00	0.00	0.00
8100	90.38	136.56	4360	-3785	1785	4145	0.00	0.00	0.00
8200	90.38	136.56	4360	-3858	1854	4243	0.00	0.00	0.00
8300	90.38	136.56	4359	-3930	1922	4341	0.00	0.00	0.00
8400	90.38	136.56	4358	-4003	1991	4440	0.00	0.00	0.00
8500	90.38	136.56	4358	-4075	2060	4538	0.00	0.00	0.00
8600	90.38	136.56	4357	-4148	2129	4637	0.00	0.00	0.00
8700	90.38	136.56	4356	-4221	2197	4735	0.00	0.00	0.00
8800	90.38	136.56	4356	-4293	2266	4833	0.00	0.00	0.00
8900	90.38	136.56	4355	-4366	2335	4932	0.00	0.00	0.00
9000	90.38	136.56	4354	-4438	2404	5030	0.00	0.00	0.00
9100	90.38	136.56	4354	-4511	2473	5129	0.00	0.00	0.00
9200	90.38	136.56	4353	-4584	2541	5227	0.00	0.00	0.00
9300	90.38	136.56	4352	-4656	2610	5325	0.00	0.00	0.00
9400	90.38	136.56	4352	-4729	2679	5424	0.00	0.00	0.00
9500	90.38	136.56	4351	-4801	2748	5522	0.00	0.00	0.00
9600	90.38	136.56	4350	-4874	2816	5621	0.00	0.00	0.00
9700	90.38	136.56	4350	-4947	2885	5719	0.00	0.00	0.00
9800	90.38	136.56	4349	-5019	2954	5817	0.00	0.00	0.00
9900	90.38	136.56	4348	-5092	3023	5916	0.00	0.00	0.00
10,000	90.38	136.56	4348	-5164	3091	6014	0.00	0.00	0.00
10,100	90.38	136.56	4347	-5237	3160	6113	0.00	0.00	0.00
10,200	90.38	136.56	4347	-5310	3229	6211	0.00	0.00	0.00
10,300	90.38	136.56	4346	-5382	3298	6309	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	90.38	136.56	4345	-5455	3366	6408	0.00	0.00	0.00	
10,500	90.38	136.56	4345	-5527	3435	6506	0.00	0.00	0.00	
10,600	90.38	136.56	4344	-5600	3504	6605	0.00	0.00	0.00	
10,700	90.38	136.56	4343	-5673	3573	6703	0.00	0.00	0.00	
10,800	90.38	136.56	4343	-5745	3641	6801	0.00	0.00	0.00	
10,900	90.38	136.56	4342	-5818	3710	6900	0.00	0.00	0.00	
11,000	90.38	136.56	4341	-5891	3779	6998	0.00	0.00	0.00	
11,100	90.38	136.56	4341	-5963	3848	7097	0.00	0.00	0.00	
11,200	90.38	136.56	4340	-6036	3916	7195	0.00	0.00	0.00	
11,300	90.38	136.56	4339	-6108	3985	7293	0.00	0.00	0.00	
11,347	90.38	136.56	4339	-6143	4018	7340	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									
704H Toe	0.00	0.00	4339	-6143	4018	1,904,845.49	2,741,143.34	36.23500443	-107.77212201
- plan hits target center									
- Circle (radius 100)									
704H Heel	0.00	0.00	4381	-1489	-390	1,909,497.41	2,736,733.66	36.24779036	-107.78706722
- plan hits target center									
- Circle (radius 50)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.63	12.25	
4883	4379	Intermediate	7.00	8.75	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
420	420	Ojo Alamo		0.00	0.00
552	552	Kirtland		0.00	0.00
863	862	Fruitland		0.00	0.00
1134	1128	Pictured Cliffs		0.00	0.00
1241	1231	Lewis		0.00	0.00
1867	1818	Chacra		0.00	0.00
2666	2561	Menefee		0.00	0.00
3715	3536	Point Lookout		0.00	0.00
3875	3685	Mancos		0.00	0.00
4223	4007	Mancos Silt		0.00	0.00



DJR Operating

Nageezi Unit

P04 2309

704H

Original Drilling

APD

Anticollision Report

20 April, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	4/20/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	11,347	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	5425	4417	784	736	16.231	CC, ES, SF
508H - Original drilling - APD	5185	4373	701	655	15.391	CC
508H - Original drilling - APD	5200	4371	701	655	15.185	ES
508H - Original drilling - APD	5500	4350	768	709	13.138	SF
509H - Original drilling - APD	4631	4323	654	615	16.761	CC
509H - Original drilling - APD	4650	4335	655	615	16.584	ES
509H - Original drilling - APD	10,704	10,744	903	628	3.283	SF
510H (ECA) - Original drilling - Original drilling	3129	3142	168	136	5.233	CC, ES
510H (ECA) - Original drilling - Original drilling	11,347	11,768	937	627	3.019	SF
Federal D #5 - OH - OH	6923	4518	550	351	2.772	CC, ES
Federal D #5 - OH - OH	7000	4518	555	353	2.747	SF
P04 2309						
701H - Original Drilling - APD	450	450	20	17	6.747	CC
701H - Original Drilling - APD	700	699	21	16	4.504	ES
701H - Original Drilling - APD	2700	2694	87	57	2.868	SF
732H - Original Drilling - APD	450	450	40	37	12.734	CC, ES
732H - Original Drilling - APD	600	598	46	42	11.084	SF
733H - Original Drilling - APD	450	450	20	17	6.648	CC, ES
733H - Original Drilling - APD	11,347	10,954	1554	1207	4.469	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						Rule Assigned:		Offset Well Error:		0 ft		
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0	0	38	38	0	0	-171.91	-1396	-198	1410						
100	100	142	142	0	0	-171.90	-1395	-199	1409	1409	0.55	2,545.484			
200	200	246	246	1	0	-171.87	-1395	-199	1409	1408	1.09	1,291.198			
300	300	350	350	1	1	-171.84	-1394	-200	1408	1407	1.63	864.626			
400	400	447	447	1	1	-171.81	-1393	-201	1407	1405	2.30	610.652			
450	450	490	490	2	1	-171.80	-1393	-201	1407	1404	2.63	534.676			
500	500	544	544	2	1	-25.12	-1393	-200	1406	1403	2.99	470.586			
600	600	657	657	2	2	-25.44	-1392	-194	1402	1399	3.72	377.466			

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 704H - Slot 2
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:	704H	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
700	700	750	749	2	2	-25.95	-1392	-186	1395	1390	4.39	317.554	
800	799	849	848	3	2	-26.74	-1393	-174	1385	1380	5.11	270.739	
900	898	950	947	3	3	-27.76	-1394	-159	1371	1366	5.87	233.756	
1000	997	1047	1042	4	3	-29.02	-1395	-140	1355	1349	6.64	204.202	
1100	1094	1147	1140	4	4	-30.57	-1396	-119	1337	1329	7.46	179.144	
1200	1191	1240	1231	5	4	-32.19	-1396	-99	1315	1307	8.28	158.772	
1300	1288	1335	1324	5	4	-34.03	-1397	-78	1292	1283	9.15	141.180	
1400	1383	1413	1400	6	5	-35.75	-1397	-60	1267	1257	9.98	126.942	
1500	1477	1511	1495	6	5	-38.02	-1398	-38	1240	1230	10.94	113.342	
1531	1506	1537	1521	7	5	-38.67	-1398	-33	1232	1221	11.23	109.667	
1600	1570	1589	1572	7	6	-39.79	-1398	-21	1213	1201	11.86	102.328	
1700	1663	1672	1652	8	6	-41.65	-1399	-2	1188	1175	12.83	92.569	
1800	1756	1763	1740	9	6	-43.80	-1400	20	1164	1150	13.90	83.780	
1900	1849	1848	1823	9	7	-45.90	-1400	40	1142	1127	14.97	76.288	
2000	1942	1930	1902	10	7	-47.96	-1401	60	1122	1106	16.06	69.886	
2100	2034	2014	1984	11	8	-50.13	-1402	81	1105	1087	17.19	64.273	
2200	2127	2101	2069	12	8	-52.44	-1402	102	1089	1071	18.36	59.319	
2300	2220	2178	2143	12	9	-54.48	-1403	120	1076	1056	19.48	55.233	
2400	2313	2273	2235	13	9	-56.97	-1405	141	1065	1045	20.71	51.438	
2500	2406	2364	2325	14	9	-59.41	-1407	161	1056	1034	21.93	48.167	
2600	2499	2459	2418	15	10	-61.94	-1408	181	1049	1026	23.18	45.268	
2700	2592	2545	2501	15	10	-64.26	-1409	199	1044	1019	24.37	42.837	
2800	2685	2640	2594	16	11	-66.83	-1410	219	1041	1015	25.61	40.636	
2893	2772	2724	2677	17	11	-69.09	-1411	236	1039	1012	26.74	38.867	
2900	2778	2729	2682	17	11	-69.23	-1411	237	1039	1012	26.81	38.756	
3000	2871	2812	2763	18	12	-71.46	-1411	254	1040	1012	27.96	37.206	
3100	2964	2895	2845	19	12	-73.69	-1412	270	1044	1015	29.10	35.873	
3200	3057	2975	2922	19	12	-75.86	-1413	288	1050	1020	30.19	34.791	
3300	3150	3061	3006	20	13	-78.22	-1413	307	1060	1028	31.31	33.836	
3400	3243	3149	3092	21	13	-80.59	-1413	327	1071	1038	32.42	33.025	
3500	3336	3238	3179	22	14	-82.94	-1413	346	1084	1051	33.51	32.357	
3600	3429	3327	3266	23	14	-85.24	-1413	366	1100	1065	34.57	31.802	
3700	3522	3409	3346	23	14	-87.31	-1414	384	1117	1082	35.55	31.419	
3800	3615	3492	3427	24	15	-89.34	-1414	402	1137	1100	36.52	31.132	
3900	3708	3592	3524	25	15	-91.70	-1415	424	1158	1121	37.59	30.818	
4000	3801	3672	3602	26	16	-93.54	-1415	441	1181	1143	38.47	30.695	
4100	3894	5600	4855	27	24	-166.68	-554	-101	1140	1111	28.96	39.371	
4123	3915	5598	4855	27	24	-166.56	-555	-100	1127	1098	29.45	38.277	
4150	3940	5595	4855	27	24	-161.45	-558	-98	1113	1083	30.03	37.074	
4200	3986	5586	4855	27	24	-152.96	-565	-92	1088	1057	31.12	34.972	
4250	4031	5572	4855	28	24	-146.08	-575	-83	1065	1033	32.21	33.067	
4300	4075	5553	4854	28	24	-140.61	-590	-71	1044	1010	33.30	31.344	
4350	4116	5530	4854	29	24	-136.22	-608	-57	1024	990	34.37	29.810	
4400	4156	5502	4853	29	23	-132.59	-630	-39	1007	972	35.39	28.464	
4450	4194	5468	4853	29	23	-129.44	-656	-18	992	956	36.25	27.373	
4500	4229	5427	4852	30	22	-126.58	-688	7	979	942	36.84	26.569	
4550	4260	5348	4846	30	21	-122.62	-750	57	966	929	37.20	25.967	
4600	4289	5295	4839	31	20	-120.14	-790	90	954	916	37.69	25.314	
4650	4314	5251	4830	31	20	-118.31	-823	118	943	905	38.17	24.701	
4700	4335	5132	4793	31	18	-113.49	-908	193	931	892	39.02	23.864	
4750	4352	5088	4777	32	18	-112.22	-938	219	919	880	39.53	23.250	
4800	4366	5043	4758	32	18	-111.10	-970	246	908	868	40.16	22.606	

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 704H - Slot 2
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:	704H	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)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4850	4375	4972	4726	33	18	-109.23	-1017	288	897	856	41.00	21.884	
4900	4380	4861	4665	33	18	-106.02	-1088	348	885	843	42.38	20.887	
4937	4381	4813	4635	33	18	-105.16	-1117	371	874	831	43.06	20.305	
5000	4381	4767	4604	34	18	-103.10	-1143	393	857	813	43.84	19.551	
5100	4380	4639	4508	35	18	-96.62	-1209	447	832	786	45.74	18.189	
5200	4379	4543	4430	36	18	-91.09	-1254	479	809	762	47.08	17.178	
5300	4379	4480	4377	38	18	-87.21	-1282	496	792	744	47.87	16.551	
5385	4378	4434	4336	39	18	-84.24	-1300	507	785	737	48.14	16.315	
5400	4378	4428	4330	39	18	-83.81	-1303	509	785	737	48.31	16.246	
5425	4378	4417	4320	39	18	-83.10	-1307	511	784	736	48.33	16.231 CC, ES, SF	
5500	4377	4391	4297	41	18	-81.34	-1317	516	787	739	48.40	16.270	
5600	4377	4356	4265	42	18	-79.01	-1329	522	801	753	48.19	16.620	
5700	4376	4327	4238	44	18	-77.04	-1338	527	825	777	47.74	17.281	
5800	4375	4301	4213	46	18	-75.24	-1346	530	859	812	47.12	18.234	
5900	4375	4272	4185	48	18	-73.25	-1354	532	902	856	46.34	19.468	
6000	4374	4252	4166	50	18	-71.89	-1360	534	953	907	45.62	20.891	
6100	4373	4232	4147	52	18	-70.54	-1365	535	1011	966	44.90	22.508	
6200	4373	4218	4133	54	18	-69.55	-1369	536	1074	1030	44.30	24.252	
6300	4372	4194	4110	56	18	-67.91	-1375	536	1143	1099	43.62	26.198	
6400	4371	4179	4096	58	18	-66.95	-1379	536	1215	1172	43.13	28.177	
6500	4371	4169	4086	60	18	-66.22	-1382	536	1291	1249	42.72	30.227	
6600	4370	4157	4075	62	18	-65.43	-1385	535	1370	1328	42.33	32.372	
6700	4369	4157	4075	64	18	-65.43	-1385	535	1452	1410	42.16	34.434	
6800	4369	4146	4064	67	18	-64.66	-1387	534	1535	1494	41.86	36.678	
6900	4368	4140	4058	69	18	-64.28	-1389	534	1621	1579	41.68	38.889	
7000	4367	4135	4053	71	18	-63.95	-1390	534	1708	1666	41.53	41.122	
7100	4367	4125	4044	73	18	-63.27	-1392	533	1796	1755	41.34	43.450	
7200	4366	4125	4044	76	18	-63.27	-1392	533	1886	1844	41.29	45.663	
7300	4366	4125	4044	78	18	-63.27	-1392	533	1976	1935	41.26	47.892	
7400	4365	4125	4044	80	18	-63.27	-1392	533	2067	2026	41.23	50.135	
7500	4364	4125	4044	83	18	-63.27	-1392	533	2159	2118	41.22	52.390	
7600	4364	4125	4044	85	18	-63.27	-1392	533	2252	2211	41.21	54.655	
7700	4363	4125	4044	87	18	-63.27	-1392	533	2345	2304	41.20	56.927	
7800	4362	4112	4031	90	18	-62.38	-1395	531	2439	2398	41.07	59.396	
7900	4362	4110	4029	92	18	-62.25	-1396	531	2533	2492	41.06	61.707	
8000	4361	4108	4027	95	18	-62.14	-1396	531	2628	2587	41.05	64.022	
8100	4360	4107	4026	97	18	-62.03	-1396	531	2723	2682	41.05	66.338	
8200	4360	4094	4014	99	18	-61.19	-1399	529	2819	2778	40.95	68.829	
8300	4359	4094	4014	102	18	-61.19	-1399	529	2914	2874	40.98	71.125	
8400	4358	4094	4014	104	18	-61.19	-1399	529	3010	2969	41.00	73.423	
8500	4358	4094	4014	106	18	-61.19	-1399	529	3107	3066	41.03	75.721	
8600	4357	4094	4014	109	18	-61.19	-1399	529	3203	3162	41.06	78.019	
8700	4356	4094	4014	111	18	-61.19	-1399	529	3300	3259	41.09	80.316	
8800	4356	4094	4014	114	18	-61.19	-1399	529	3397	3356	41.12	82.612	
8900	4355	4094	4014	116	18	-61.19	-1399	529	3494	3453	41.15	84.907	
9000	4354	4094	4014	118	18	-61.19	-1399	529	3591	3550	41.18	87.201	
9100	4354	4094	4014	121	18	-61.19	-1399	529	3688	3647	41.21	89.492	
9200	4353	4094	4014	123	18	-61.19	-1399	529	3786	3745	41.25	91.780	
9300	4352	4094	4014	126	18	-61.19	-1399	529	3883	3842	41.28	94.066	
9400	4352	4094	4014	128	18	-61.19	-1399	529	3981	3940	41.32	96.349	
9500	4351	4094	4014	131	18	-61.19	-1399	529	4079	4038	41.36	98.629	
9600	4350	4094	4014	133	18	-61.19	-1399	529	4177	4136	41.40	100.905	

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 704H - Slot 2
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:	704H	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
9700	4350	4094	4014	135	18	-61.19	-1399	529	4275	4234	41.43	103.178
9800	4349	4094	4014	138	18	-61.19	-1399	529	4373	4332	41.47	105.446
9900	4348	4094	4014	140	18	-61.19	-1399	529	4471	4430	41.51	107.711
10,000	4348	4094	4014	143	18	-61.19	-1399	529	4570	4528	41.55	109.971
10,100	4347	4094	4014	145	18	-61.19	-1399	529	4668	4626	41.59	112.227
10,200	4347	4094	4014	148	18	-61.19	-1399	529	4766	4725	41.64	114.479
10,300	4346	4094	4014	150	18	-61.19	-1399	529	4865	4823	41.68	116.725
10,400	4345	4094	4014	152	18	-61.19	-1399	529	4964	4922	41.72	118.967
10,500	4345	4094	4014	155	18	-61.19	-1399	529	5062	5020	41.77	121.204
10,600	4344	4094	4014	157	18	-61.19	-1399	529	5161	5119	41.81	123.435
10,700	4343	4094	4014	160	18	-61.19	-1399	529	5260	5218	41.85	125.662
10,800	4343	4094	4014	162	18	-61.19	-1399	529	5358	5316	41.90	127.883
10,900	4342	4094	4014	165	18	-61.19	-1399	529	5457	5415	41.95	130.098
11,000	4341	4094	4014	167	18	-61.19	-1399	529	5556	5514	41.99	132.308
11,100	4341	4080	4000	170	18	-60.27	-1402	527	5655	5613	41.95	134.793
11,200	4340	4080	4000	172	18	-60.24	-1402	527	5754	5712	42.00	137.004
11,300	4339	4079	3999	174	18	-60.20	-1402	527	5853	5811	42.04	139.208
11,347	4339	4079	3999	176	18	-60.19	-1402	527	5900	5857	42.06	140.252



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	-170.73	-1396	-228	1415						
100	100	148	148	0	0	-170.73	-1396	-228	1415	1414	0.61	2,301.432			
200	200	248	248	1	1	-170.73	-1396	-228	1415	1414	1.33	1,062.439			
300	300	348	348	1	1	-170.73	-1396	-228	1415	1413	2.05	690.632			
310	310	358	358	1	1	-170.73	-1396	-228	1415	1413	2.12	667.280			
400	400	431	431	1	1	-170.73	-1397	-228	1415	1412	2.70	524.236			
450	450	463	463	2	1	-170.72	-1397	-228	1416	1413	2.99	473.750			
500	500	500	500	2	2	-23.95	-1398	-229	1417	1414	3.29	431.058			
600	600	558	558	2	2	-23.92	-1401	-231	1419	1415	3.82	371.783			
700	700	622	622	2	2	-23.90	-1405	-234	1420	1416	4.37	324.855			
800	799	700	699	3	2	-23.89	-1413	-239	1421	1416	4.99	284.807			
900	898	750	748	3	2	-23.89	-1419	-242	1421	1415	5.51	257.705			
994	991	800	798	4	3	-23.91	-1426	-247	1420	1414	6.02	235.770			
1000	997	800	798	4	3	-23.91	-1426	-247	1420	1414	6.04	234.989			
1100	1094	877	874	4	3	-23.94	-1438	-255	1419	1412	6.70	211.760			
1200	1191	941	936	5	3	-23.98	-1450	-262	1417	1410	7.32	193.687			
1300	1288	1032	1024	5	4	-24.07	-1468	-274	1414	1405	8.08	174.923			
1400	1383	1132	1121	6	4	-24.25	-1488	-287	1407	1398	8.90	158.141			
1500	1477	1231	1217	6	5	-24.52	-1508	-300	1398	1388	9.75	143.271			
1531	1506	1262	1247	7	5	-24.62	-1515	-304	1394	1384	10.03	139.043			
1600	1570	1330	1314	7	5	-24.78	-1528	-313	1386	1375	10.63	130.348			
1700	1663	1429	1410	8	6	-25.02	-1548	-326	1373	1362	11.52	119.239			
1800	1756	1528	1506	9	6	-25.27	-1568	-339	1361	1349	12.42	109.602			
1900	1849	1627	1602	9	7	-25.52	-1588	-352	1349	1336	13.34	101.181			
2000	1942	1726	1698	10	8	-25.77	-1608	-365	1337	1323	14.26	93.772			
2100	2034	1826	1795	11	8	-26.03	-1628	-378	1325	1310	15.20	87.211			
2200	2127	1925	1891	12	9	-26.29	-1649	-391	1313	1297	16.14	81.366			
2300	2220	2024	1987	12	9	-26.56	-1669	-404	1301	1284	17.09	76.131			
2400	2313	2123	2083	13	10	-26.83	-1689	-416	1289	1271	18.06	71.417			
2500	2406	2222	2179	14	10	-27.11	-1709	-429	1278	1259	19.02	67.153			
2600	2499	2321	2276	15	11	-27.40	-1729	-442	1266	1246	20.00	63.279			
2700	2592	2420	2372	15	12	-27.68	-1749	-455	1254	1233	20.99	59.745			
2800	2685	2519	2468	16	12	-27.98	-1769	-468	1242	1220	21.98	56.510			
2900	2778	2618	2564	17	13	-28.28	-1789	-481	1230	1207	22.98	53.538			
3000	2871	2717	2660	18	13	-28.58	-1809	-494	1219	1195	23.99	50.799			
3100	2964	2817	2757	19	14	-28.89	-1829	-507	1207	1182	25.00	48.267			
3200	3057	2916	2853	19	14	-29.21	-1849	-520	1195	1169	26.03	45.920			
3300	3150	3015	2949	20	15	-29.54	-1869	-533	1184	1157	27.06	43.739			
3400	3243	3114	3045	21	16	-29.87	-1889	-546	1172	1144	28.10	41.708			
3500	3336	3213	3141	22	16	-30.20	-1909	-559	1160	1131	29.15	39.811			
3600	3429	3312	3237	23	17	-30.55	-1929	-572	1149	1119	30.21	38.037			
3700	3522	3411	3334	23	17	-30.90	-1949	-584	1137	1106	31.27	36.374			
3800	3615	3510	3430	24	18	-31.25	-1969	-597	1126	1094	32.35	34.813			
3900	3708	3609	3526	25	19	-31.62	-1989	-610	1115	1081	33.43	33.344			
4000	3801	3708	3622	26	19	-31.99	-2009	-623	1103	1069	34.52	31.959			
4100	3894	3808	3718	27	20	-32.37	-2029	-636	1092	1056	35.63	30.653			
4123	3915	3831	3741	27	20	-32.46	-2034	-639	1089	1054	35.88	30.359			
4150	3940	3857	3766	27	20	-25.60	-2039	-643	1086	1050	36.17	30.024			
4200	3986	3906	3814	27	20	-13.94	-2049	-649	1077	1040	36.65	29.391			
4250	4031	3955	3861	28	21	-3.99	-2059	-655	1065	1028	37.04	28.757			
4300	4075	4002	3907	28	21	4.48	-2068	-661	1050	1013	37.33	28.126			
4350	4116	4048	3951	29	21	11.89	-2077	-667	1032	995	37.53	27.500			

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 704H - Slot 2
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:	704H	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		Semi Major Axis		Offset Wellbore Centre			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)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4400	4156	4091	3994	29	21	18.63	-2086	-673	1012	974	37.64	26.884		
4450	4194	4133	4034	29	22	25.02	-2095	-679	989	952	37.64	26.282		
4500	4229	4172	4072	30	22	31.27	-2102	-684	965	927	37.54	25.696		
4550	4260	4207	4106	30	22	37.49	-2110	-688	939	901	37.36	25.128		
4600	4289	4240	4138	31	22	43.69	-2116	-692	912	875	37.10	24.575		
4650	4314	4271	4168	31	22	49.96	-2123	-697	884	847	36.80	24.025		
4700	4335	4393	4287	31	23	62.97	-2138	-720	855	819	36.40	23.493		
4750	4352	4435	4327	32	23	70.78	-2139	-732	827	790	36.03	22.941		
4800	4366	4447	4338	32	23	75.58	-2139	-736	800	764	35.95	22.250		
4850	4375	4444	4336	33	23	78.52	-2139	-735	776	740	36.17	21.453		
4900	4380	4433	4325	33	23	80.18	-2139	-732	755	719	36.71	20.579		
4937	4381	4422	4315	33	23	80.75	-2139	-728	742	705	37.31	19.891		
5000	4381	4404	4298	34	23	79.34	-2139	-723	724	686	38.74	18.694		
5093	4380	4386	4280	35	23	77.86	-2138	-719	707	665	41.76	16.924		
5100	4380	4385	4279	35	23	77.76	-2138	-718	706	664	42.03	16.793		
5185	4379	4373	4268	36	23	76.81	-2137	-716	701	655	45.53	15.391	CC	
5200	4379	4371	4266	36	23	76.67	-2137	-715	701	655	46.16	15.185	ES	
5300	4379	4362	4256	38	23	75.88	-2136	-713	710	659	50.57	14.039		
5400	4378	4350	4245	39	23	74.93	-2135	-710	733	678	54.72	13.390		
5500	4377	4350	4245	41	23	74.93	-2135	-710	768	709	58.44	13.138	SF	
5600	4377	4350	4245	42	23	74.93	-2135	-710	814	752	61.46	13.239		
5700	4376	4350	4245	44	23	74.93	-2135	-710	869	805	63.79	13.617		
5800	4375	4337	4232	46	23	73.86	-2133	-708	931	866	65.36	14.245		
5900	4375	4334	4230	48	23	73.64	-2133	-707	1000	933	66.59	15.012		
6000	4374	4332	4227	50	23	73.45	-2133	-707	1073	1006	67.46	15.907		
6100	4373	4330	4225	52	23	73.28	-2132	-706	1151	1083	68.06	16.906		
6200	4373	4328	4224	54	23	73.14	-2132	-706	1231	1163	68.46	17.985		
6300	4372	4326	4222	56	23	73.01	-2132	-706	1315	1246	68.72	19.131		
6400	4371	4325	4221	58	23	72.89	-2132	-705	1400	1331	68.88	20.330		
6500	4371	4324	4220	60	23	72.79	-2131	-705	1488	1419	68.96	21.573		
6600	4370	4323	4218	62	23	72.70	-2131	-705	1576	1508	68.98	22.853		
6700	4369	4322	4217	64	23	72.62	-2131	-705	1667	1598	68.97	24.163		
6800	4369	4321	4217	67	23	72.54	-2131	-704	1758	1689	68.93	25.500		
6900	4368	4320	4216	69	23	72.47	-2131	-704	1850	1781	68.88	26.858		
7000	4367	4319	4215	71	23	72.41	-2131	-704	1943	1874	68.81	28.235		
7100	4367	4300	4196	73	23	70.87	-2128	-701	2037	1968	68.49	29.736		
7200	4366	4300	4196	76	23	70.87	-2128	-701	2131	2062	68.42	31.143		
7300	4366	4300	4196	78	23	70.87	-2128	-701	2225	2157	68.34	32.563		
7400	4365	4300	4196	80	23	70.87	-2128	-701	2320	2252	68.26	33.992		
7500	4364	4300	4196	83	23	70.87	-2128	-701	2416	2348	68.19	35.432		
7600	4364	4300	4196	85	23	70.87	-2128	-701	2512	2444	68.11	36.879		
7700	4363	4300	4196	87	23	70.87	-2128	-701	2608	2540	68.03	38.333		
7800	4362	4300	4196	90	23	70.87	-2128	-701	2704	2636	67.96	39.794		
7900	4362	4300	4196	92	23	70.87	-2128	-701	2801	2733	67.89	41.260		
8000	4361	4300	4196	95	23	70.87	-2128	-701	2898	2830	67.82	42.731		
8100	4360	4300	4196	97	23	70.87	-2128	-701	2995	2927	67.75	44.206		
8200	4360	4300	4196	99	23	70.87	-2128	-701	3092	3025	67.69	45.686		
8300	4359	4300	4196	102	23	70.87	-2128	-701	3190	3122	67.62	47.168		
8400	4358	4300	4196	104	23	70.87	-2128	-701	3287	3220	67.57	48.653		
8500	4358	4300	4196	106	23	70.87	-2128	-701	3385	3318	67.51	50.141		
8600	4357	4300	4196	109	23	70.87	-2128	-701	3483	3415	67.46	51.632		
8700	4356	4300	4196	111	23	70.87	-2128	-701	3581	3513	67.41	53.124		

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 704H - Slot 2
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:	704H	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
8800	4356	4300	4196	114	23	70.87	-2128	-701	3679	3612	67.36	54.618
8900	4355	4300	4196	116	23	70.87	-2128	-701	3777	3710	67.31	56.113
9000	4354	4300	4196	118	23	70.87	-2128	-701	3875	3808	67.27	57.609
9100	4354	4300	4196	121	23	70.87	-2128	-701	3974	3907	67.23	59.107
9200	4353	4300	4196	123	23	70.87	-2128	-701	4072	4005	67.19	60.605
9300	4352	4300	4196	126	23	70.87	-2128	-701	4171	4104	67.16	62.104
9400	4352	4300	4196	128	23	70.87	-2128	-701	4269	4202	67.13	63.603
9500	4351	4300	4196	131	23	70.87	-2128	-701	4368	4301	67.10	65.103
9600	4350	4300	4196	133	23	70.87	-2128	-701	4467	4400	67.07	66.603
9700	4350	4300	4196	135	23	70.87	-2128	-701	4566	4499	67.04	68.103
9800	4349	4300	4196	138	23	70.87	-2128	-701	4664	4597	67.01	69.603
9900	4348	4300	4196	140	23	70.87	-2128	-701	4763	4696	66.99	71.103
10,000	4348	4300	4196	143	23	70.87	-2128	-701	4862	4795	66.97	72.603
10,100	4347	4300	4196	145	23	70.87	-2128	-701	4961	4894	66.95	74.102
10,200	4347	4300	4196	148	23	70.87	-2128	-701	5060	4993	66.93	75.601
10,300	4346	4300	4196	150	23	70.87	-2128	-701	5159	5092	66.92	77.099
10,400	4345	4300	4196	152	23	70.87	-2128	-701	5258	5191	66.90	78.597
10,500	4345	4300	4196	155	23	70.87	-2128	-701	5357	5291	66.89	80.094
10,600	4344	4300	4196	157	23	70.87	-2128	-701	5457	5390	66.88	81.591
10,700	4343	4300	4196	160	23	70.87	-2128	-701	5556	5489	66.87	83.086
10,800	4343	4300	4196	162	23	70.87	-2128	-701	5655	5588	66.86	84.581
10,900	4342	4300	4196	165	23	70.87	-2128	-701	5754	5687	66.85	86.074
11,000	4341	4300	4196	167	23	70.87	-2128	-701	5853	5787	66.85	87.567
11,100	4341	4300	4196	170	23	70.87	-2128	-701	5953	5886	66.84	89.059
11,200	4340	4300	4196	172	23	70.87	-2128	-701	6052	5985	66.84	90.549
11,300	4339	4300	4196	174	23	70.87	-2128	-701	6151	6085	66.84	92.039
11,347	4339	4300	4196	176	23	70.87	-2128	-701	6199	6132	66.83	92.746



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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 - 509H - 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	37	37	0	0	-169.51	-1396	-259	1420					
100	100	113	113	0	0	-169.41	-1397	-261	1422	1421	0.50	2,842.734		
200	200	200	200	1	1	-169.17	-1399	-268	1425	1424	1.19	1,197.634		
300	300	264	263	1	1	-168.91	-1401	-275	1430	1428	1.82	787.582		
400	400	339	337	1	1	-168.52	-1404	-285	1437	1435	2.50	575.645		
450	450	376	374	2	1	-168.29	-1406	-291	1441	1438	2.84	507.178		
500	500	412	410	2	1	-21.28	-1408	-298	1445	1442	3.18	454.720		
600	600	504	499	2	2	-20.61	-1413	-316	1452	1448	3.95	367.697		
700	700	602	595	2	2	-19.97	-1419	-336	1456	1451	4.77	304.936		
800	799	701	692	3	3	-19.38	-1425	-356	1457	1451	5.61	259.548		
900	898	800	789	3	4	-18.87	-1430	-376	1454	1448	6.46	225.144		
1000	997	899	886	4	4	-18.41	-1436	-396	1449	1441	7.31	198.067		
1100	1094	998	982	4	5	-18.01	-1442	-416	1440	1432	8.18	176.110		
1200	1191	1097	1079	5	5	-17.67	-1448	-436	1428	1419	9.04	157.867		
1300	1288	1195	1175	5	6	-17.38	-1454	-456	1413	1403	9.92	142.401		
1400	1383	1293	1271	6	6	-17.14	-1459	-476	1394	1383	10.80	129.067		
1500	1477	1390	1366	6	7	-16.95	-1465	-496	1372	1361	11.69	117.407		
1531	1506	1420	1395	7	7	-16.90	-1467	-502	1365	1353	11.97	114.053		
1600	1570	1487	1460	7	7	-16.70	-1471	-515	1348	1336	12.58	107.164		
1700	1663	1584	1555	8	8	-16.40	-1476	-535	1324	1311	13.47	98.282		
1800	1756	1681	1650	9	8	-16.08	-1482	-554	1300	1285	14.36	90.489		
1900	1849	1778	1744	9	9	-15.75	-1488	-574	1276	1260	15.26	83.606		
2000	1942	1874	1839	10	9	-15.41	-1493	-593	1251	1235	16.15	77.489		
2100	2034	1971	1933	11	10	-15.06	-1499	-613	1227	1210	17.04	72.019		
2200	2127	2068	2028	12	10	-14.70	-1505	-633	1203	1185	17.93	67.104		
2300	2220	2165	2123	12	11	-14.31	-1510	-652	1179	1160	18.82	62.666		
2400	2313	2261	2217	13	11	-13.92	-1516	-672	1155	1136	19.70	58.639		
2500	2406	2358	2312	14	12	-13.50	-1521	-691	1131	1111	20.58	54.971		
2600	2499	2455	2406	15	13	-13.07	-1527	-711	1108	1086	21.46	51.617		
2700	2592	2552	2501	15	13	-12.62	-1533	-730	1084	1061	22.33	48.539		
2800	2685	2648	2596	16	14	-12.15	-1538	-750	1060	1037	23.19	45.705		
2900	2778	2745	2690	17	14	-11.66	-1544	-769	1036	1012	24.05	43.088		
3000	2871	2842	2785	18	15	-11.14	-1550	-789	1013	988	24.91	40.665		
3100	2964	2939	2879	19	15	-10.61	-1555	-809	989	964	25.76	38.415		
3200	3057	3036	2974	19	16	-10.04	-1561	-828	966	939	26.60	36.321		
3300	3150	3132	3069	20	16	-9.45	-1567	-848	943	915	27.43	34.367		
3400	3243	3229	3163	21	17	-8.83	-1572	-867	919	891	28.26	32.540		
3500	3336	3326	3258	22	17	-8.17	-1578	-887	896	867	29.08	30.829		
3600	3429	3423	3352	23	18	-7.49	-1584	-906	873	844	29.89	29.223		
3700	3522	3519	3447	23	18	-6.76	-1589	-926	851	820	30.69	27.712		
3800	3615	3616	3542	24	19	-6.00	-1595	-945	828	796	31.49	26.290		
3900	3708	3713	3636	25	19	-5.19	-1601	-965	805	773	32.28	24.948		
4000	3801	3810	3731	26	20	-4.34	-1606	-985	783	750	33.06	23.679		
4100	3894	3906	3825	27	20	-3.44	-1612	-1004	761	727	33.84	22.479		
4123	3915	3929	3848	27	21	-3.22	-1613	-1009	756	721	34.02	22.209		
4150	3940	3955	3873	27	21	4.38	-1615	-1014	749	715	34.22	21.902		
4200	3986	4002	3919	27	21	17.48	-1617	-1023	737	703	34.56	21.336		
4250	4031	4048	3964	28	21	28.85	-1620	-1033	724	690	34.86	20.783		
4300	4075	4092	4007	28	21	38.65	-1623	-1042	711	676	35.14	20.240		
4350	4116	4134	4048	29	22	47.14	-1625	-1050	698	663	35.43	19.705		
4400	4156	4173	4086	29	22	54.58	-1627	-1058	686	650	35.77	19.172		
4450	4194	4210	4122	29	22	61.11	-1630	-1065	675	638	36.20	18.637		

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 704H - Slot 2
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:	704H	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 - 509H - 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	
4500	4229	4242	4153	30	22	66.70	-1632	-1072	665	629	36.76	18.102	
4550	4260	4273	4184	30	22	71.48	-1634	-1077	659	621	37.48	17.577	
4596	4286	4301	4211	31	23	75.29	-1638	-1081	655	617	38.31	17.106	
4600	4289	4304	4214	31	23	75.62	-1638	-1081	655	617	38.39	17.064	
4631	4305	4323	4233	31	23	77.89	-1642	-1083	654	615	39.05	16.761 CC	
4650	4314	4335	4245	31	23	79.19	-1644	-1085	655	615	39.48	16.584 ES	
4700	4335	4367	4276	31	23	82.20	-1650	-1087	658	617	40.72	16.154	
4750	4352	4399	4307	32	23	84.71	-1658	-1088	665	623	42.08	15.795	
4800	4366	4432	4339	32	23	86.72	-1667	-1088	675	632	43.48	15.530	
4850	4375	4467	4372	33	23	88.27	-1677	-1087	690	645	44.86	15.370	
4900	4380	4502	4405	33	23	89.40	-1690	-1084	707	661	46.16	15.328	
4937	4381	4531	4431	33	23	90.00	-1700	-1081	723	676	47.03	15.378	
5000	4381	4590	4484	34	23	94.64	-1726	-1072	752	704	48.15	15.624	
5100	4380	4737	4603	35	24	104.21	-1801	-1033	800	751	48.58	16.463	
5200	4379	5194	4816	36	24	118.04	-2117	-799	831	790	41.73	19.922	
5204	4379	5183	4814	36	24	117.92	-2109	-806	832	789	42.16	19.726	
5300	4379	5374	4823	38	25	118.36	-2250	-678	833	790	43.22	19.284	
5304	4379	5379	4822	38	25	118.36	-2254	-675	833	790	43.36	19.220	
5400	4378	5474	4822	39	26	118.32	-2324	-610	835	788	46.34	18.011	
5404	4378	5479	4822	39	26	118.32	-2327	-607	835	788	46.47	17.962	
5500	4377	5574	4821	41	27	118.28	-2398	-543	836	786	49.49	16.891	
5504	4377	5579	4821	41	27	118.28	-2401	-540	836	786	49.64	16.839	
5600	4377	5674	4821	42	28	118.24	-2471	-475	837	784	53.07	15.773	
5604	4377	5679	4821	42	28	118.23	-2474	-472	837	784	53.24	15.726	
5700	4376	5774	4820	44	30	118.20	-2545	-407	838	782	56.72	14.780	
5704	4376	5779	4820	44	30	118.19	-2548	-404	838	782	56.89	14.738	
5800	4375	5874	4820	46	32	118.15	-2618	-339	840	779	60.48	13.883	
5804	4375	5879	4820	46	32	118.15	-2621	-336	840	779	60.65	13.846	
5900	4375	5974	4819	48	34	118.11	-2692	-272	841	777	64.33	13.072	
5904	4375	5979	4819	48	34	118.11	-2695	-269	841	776	64.50	13.038	
6000	4374	6074	4818	50	36	118.07	-2765	-204	842	774	68.25	12.339	
6004	4374	6079	4818	50	36	118.07	-2769	-201	842	774	68.43	12.308	
6100	4373	6174	4818	52	38	118.03	-2839	-136	843	771	72.25	11.674	
6104	4373	6179	4818	52	38	118.03	-2842	-133	843	771	72.43	11.646	
6200	4373	6274	4817	54	40	117.99	-2912	-69	845	768	76.30	11.071	
6204	4373	6279	4817	54	40	117.99	-2916	-66	845	768	76.48	11.046	
6300	4372	6374	4817	56	42	117.95	-2986	-1	846	766	80.39	10.523	
6304	4372	6378	4817	56	42	117.95	-2989	2	846	765	80.57	10.500	
6400	4371	6474	4816	58	44	117.91	-3059	67	847	763	84.53	10.023	
6404	4371	6478	4816	58	44	117.91	-3063	70	847	763	84.71	10.002	
6500	4371	6574	4815	60	46	117.87	-3133	135	848	760	88.70	9.566	
6504	4371	6578	4815	60	46	117.87	-3136	138	849	760	88.89	9.546	
6600	4370	6674	4815	62	49	117.83	-3207	202	850	757	92.90	9.147	
6604	4370	6678	4815	62	49	117.83	-3210	205	850	757	93.09	9.129	
6700	4369	6774	4814	64	51	117.79	-3280	270	851	754	97.13	8.762	
6704	4369	6778	4814	65	51	117.79	-3283	273	851	754	97.32	8.745	
6800	4369	6874	4814	67	53	117.75	-3354	338	852	751	101.38	8.407	
6804	4369	6878	4814	67	53	117.75	-3357	341	852	751	101.57	8.391	
6900	4368	6974	4813	69	55	117.71	-3427	406	854	748	105.66	8.078	
6904	4368	6978	4813	69	55	117.71	-3430	409	854	748	105.85	8.064	
7000	4367	7074	4813	71	58	117.67	-3501	473	855	745	109.95	7.775	
7004	4367	7078	4813	71	58	117.67	-3504	476	855	745	110.14	7.762	

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 704H - Slot 2
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:	704H	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 - 509H - 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
7100	4367	7174	4812	73	60	117.64	-3574	541	856	742	114.26	7.492
7104	4367	7178	4812	74	60	117.63	-3578	544	856	742	114.45	7.480
7200	4366	7274	4811	76	62	117.60	-3648	609	857	739	118.58	7.230
7204	4366	7278	4811	76	62	117.59	-3651	612	857	739	118.77	7.219
7300	4366	7374	4811	78	65	117.56	-3721	677	859	736	122.92	6.985
7304	4365	7378	4811	78	65	117.56	-3725	680	859	736	123.11	6.974
7400	4365	7474	4810	80	67	117.52	-3795	744	860	733	127.27	6.756
7404	4365	7478	4810	80	67	117.52	-3798	747	860	732	127.47	6.746
7500	4364	7574	4810	83	69	117.48	-3869	812	861	729	131.64	6.542
7504	4364	7578	4810	83	69	117.48	-3872	815	861	729	131.83	6.533
7600	4364	7674	4809	85	72	117.44	-3942	880	862	726	136.01	6.341
7604	4364	7678	4809	85	72	117.44	-3945	883	862	726	136.20	6.332
7700	4363	7774	4808	87	74	117.40	-4016	947	864	723	140.39	6.152
7704	4363	7778	4808	88	74	117.40	-4019	950	864	723	140.59	6.144
7800	4362	7874	4808	90	76	117.36	-4089	1015	865	720	144.79	5.974
7804	4362	7878	4808	90	76	117.36	-4092	1018	865	720	144.98	5.966
7900	4362	7974	4807	92	79	117.33	-4163	1083	866	717	149.19	5.806
7904	4362	7978	4807	92	79	117.32	-4166	1086	866	717	149.39	5.799
8000	4361	8074	4807	95	81	117.29	-4236	1151	867	714	153.60	5.648
8004	4361	8078	4807	95	81	117.29	-4240	1154	868	714	153.80	5.641
8100	4360	8174	4806	97	83	117.25	-4310	1218	869	711	158.02	5.498
8104	4360	8178	4806	97	84	117.25	-4313	1221	869	711	158.21	5.491
8200	4360	8274	4805	99	86	117.21	-4383	1286	870	708	162.44	5.356
8204	4360	8278	4805	99	86	117.21	-4387	1289	870	707	162.64	5.350
8300	4359	8374	4805	102	88	117.17	-4457	1354	871	704	166.87	5.221
8304	4359	8378	4805	102	88	117.17	-4460	1357	871	704	167.07	5.215
8400	4358	8474	4804	104	91	117.14	-4530	1422	873	701	171.31	5.093
8404	4358	8478	4804	104	91	117.13	-4534	1425	873	701	171.51	5.088
8500	4358	8574	4804	106	93	117.10	-4604	1489	874	698	175.76	4.972
8504	4358	8578	4804	107	93	117.10	-4607	1492	874	698	175.96	4.966
8600	4357	8674	4803	109	95	117.06	-4678	1557	875	695	180.21	4.856
8604	4357	8678	4803	109	95	117.06	-4681	1560	875	695	180.41	4.851
8700	4356	8774	4803	111	98	117.02	-4751	1625	876	692	184.66	4.746
8704	4356	8778	4803	111	98	117.02	-4754	1628	876	692	184.86	4.741
8800	4356	8874	4802	114	100	116.99	-4825	1693	878	689	189.13	4.640
8804	4356	8878	4802	114	100	116.98	-4828	1696	878	688	189.32	4.636
8900	4355	8974	4801	116	103	116.95	-4898	1760	879	685	193.59	4.540
8904	4355	8978	4801	116	103	116.95	-4902	1763	879	685	193.79	4.536
9000	4354	9074	4801	118	105	116.91	-4972	1828	880	682	198.06	4.444
9004	4354	9078	4801	119	105	116.91	-4975	1831	880	682	198.26	4.440
9100	4354	9174	4800	121	107	116.87	-5045	1896	881	679	202.54	4.352
9104	4354	9178	4800	121	108	116.87	-5049	1899	882	679	202.74	4.348
9200	4353	9274	4800	123	110	116.84	-5119	1963	883	676	207.02	4.264
9204	4353	9278	4800	123	110	116.84	-5122	1967	883	676	207.22	4.260
9300	4352	9374	4799	126	112	116.80	-5192	2031	884	672	211.51	4.180
9304	4352	9378	4799	126	112	116.80	-5196	2034	884	672	211.70	4.176
9400	4352	9474	4798	128	115	116.76	-5266	2099	885	669	215.99	4.099
9404	4352	9478	4798	128	115	116.76	-5269	2102	885	669	216.19	4.095
9500	4351	9574	4798	131	117	116.73	-5340	2167	887	666	220.49	4.021
9504	4351	9578	4798	131	117	116.73	-5343	2170	887	666	220.69	4.017
9600	4350	9674	4797	133	120	116.69	-5413	2234	888	663	224.99	3.946
9604	4350	9678	4797	133	120	116.69	-5416	2237	888	663	225.19	3.943

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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 - 509H - Original drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				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	
9700	4350	9774	4797	135	122	116.65	-5487	2302	889	660	229.49	3.874		
9704	4350	9778	4797	136	122	116.65	-5490	2305	889	659	229.69	3.871		
9800	4349	9874	4796	138	124	116.62	-5560	2370	890	656	233.99	3.805		
9804	4349	9878	4796	138	125	116.62	-5563	2373	890	656	234.19	3.802		
9900	4348	9974	4796	140	127	116.58	-5634	2438	892	653	238.50	3.739		
9904	4348	9978	4795	140	127	116.58	-5637	2441	892	653	238.70	3.736		
10,000	4348	10,074	4795	143	129	116.55	-5707	2505	893	650	243.01	3.674		
10,004	4348	10,078	4795	143	129	116.54	-5711	2508	893	650	243.21	3.672		
10,100	4347	10,174	4794	145	132	116.51	-5781	2573	894	647	247.53	3.612		
10,104	4347	10,178	4794	145	132	116.51	-5784	2576	894	647	247.73	3.610		
10,200	4347	10,274	4794	148	134	116.47	-5854	2641	895	643	252.05	3.553		
10,204	4346	10,278	4794	148	134	116.47	-5858	2644	896	643	252.25	3.550		
10,300	4346	10,374	4793	150	137	116.44	-5928	2709	897	640	256.57	3.495		
10,304	4346	10,378	4793	150	137	116.44	-5931	2712	897	640	256.77	3.493		
10,400	4345	10,474	4793	152	139	116.40	-6001	2776	898	637	261.10	3.439		
10,404	4345	10,478	4793	153	139	116.40	-6005	2779	898	637	261.30	3.437		
10,500	4345	10,574	4792	155	141	116.37	-6075	2844	899	634	265.62	3.386		
10,504	4345	10,578	4792	155	142	116.37	-6078	2847	899	634	265.83	3.383		
10,600	4344	10,674	4791	157	144	116.33	-6149	2912	901	630	270.16	3.334		
10,604	4344	10,678	4791	157	144	116.33	-6152	2915	901	630	270.36	3.331		
10,700	4343	10,744	4791	160	146	116.31	-6201	2960	902	628	274.74	3.284		
10,704	4343	10,744	4791	160	146	116.31	-6201	2960	903	628	274.93	3.283 SF		
10,800	4343	10,744	4791	162	146	116.31	-6201	2960	912	635	277.32	3.290		
10,804	4343	10,744	4791	162	146	116.31	-6201	2960	913	636	277.35	3.292		
10,900	4342	10,744	4791	165	146	116.31	-6201	2960	933	656	276.73	3.372		
10,904	4342	10,744	4791	165	146	116.31	-6201	2960	934	658	276.63	3.377		
11,000	4341	10,744	4791	167	146	116.31	-6201	2960	964	690	273.39	3.525		
11,004	4341	10,744	4791	167	146	116.31	-6201	2960	965	692	273.18	3.533		
11,100	4341	10,744	4791	170	146	116.31	-6201	2960	1003	736	267.89	3.746		
11,200	4340	10,744	4791	172	146	116.31	-6201	2960	1051	790	260.87	4.030		
11,300	4339	10,744	4791	174	146	116.31	-6201	2960	1106	853	252.91	4.373		
11,347	4339	10,744	4791	176	146	116.31	-6201	2960	1134	885	248.95	4.555		

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 704H - Slot 2
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:	704H	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	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
							+N/-S (ft)	+E/-W (ft)						
0	0	39	39	0	0	-168.32	-1396	-289	1426					
100	100	143	143	0	0	-168.30	-1396	-289	1426	1425	0.55	2,569.593		
200	200	247	247	1	0	-168.27	-1395	-290	1425	1424	1.09	1,303.742		
300	300	351	351	1	1	-168.22	-1394	-291	1424	1423	1.63	873.078		
400	400	509	509	1	1	-168.17	-1390	-291	1422	1419	2.53	562.517		
450	450	599	599	2	1	-168.13	-1384	-291	1419	1416	3.03	468.054		
500	500	674	673	2	2	-21.39	-1377	-291	1414	1410	3.47	407.042		
600	600	829	827	2	2	-21.49	-1360	-289	1399	1395	4.37	320.077		
700	700	986	982	2	3	-21.73	-1335	-286	1378	1372	5.29	260.446		
800	799	1108	1102	3	3	-21.99	-1313	-286	1350	1344	6.09	221.842		
900	898	1220	1212	3	4	-22.40	-1290	-284	1317	1310	6.85	192.164		
1000	997	1410	1396	4	5	-23.20	-1242	-278	1276	1268	7.88	161.975		
1100	1094	1500	1482	4	5	-23.75	-1216	-277	1230	1221	8.58	143.397		
1200	1191	1613	1589	5	6	-24.45	-1182	-278	1180	1170	9.35	126.200		
1300	1288	1709	1680	5	6	-25.31	-1151	-278	1125	1115	10.07	111.727		
1400	1383	1794	1761	6	7	-26.33	-1124	-279	1068	1057	10.77	99.123		
1500	1477	1868	1831	6	7	-27.49	-1100	-279	1008	997	11.46	87.950		
1531	1506	1889	1851	7	7	-27.87	-1093	-280	989	977	11.68	84.697		
1600	1570	1943	1902	7	8	-28.36	-1076	-280	947	935	12.16	77.870		
1700	1663	2030	1984	8	8	-29.28	-1048	-280	885	872	12.88	68.735		
1800	1756	2102	2052	9	8	-30.21	-1025	-280	824	810	13.61	60.554		
1900	1849	2173	2120	9	9	-31.21	-1003	-280	763	749	14.36	53.168		
2000	1942	2241	2185	10	9	-32.29	-982	-280	704	689	15.14	46.484		
2100	2034	2323	2263	11	10	-33.79	-958	-280	645	629	15.95	40.456		
2200	2127	2401	2338	12	10	-35.50	-934	-281	587	570	16.80	34.929		
2300	2220	2478	2412	12	10	-37.64	-912	-281	530	512	17.72	29.888		
2400	2313	2559	2489	13	11	-40.42	-888	-280	473	454	18.69	25.289		
2500	2406	2640	2566	14	11	-43.95	-864	-279	417	397	19.78	21.058		
2600	2499	2717	2640	15	12	-48.24	-842	-278	362	341	21.07	17.192		
2700	2592	2796	2715	15	12	-53.88	-819	-277	311	288	22.59	13.753		
2800	2685	2881	2797	16	13	-62.06	-794	-276	262	237	24.41	10.728		
2900	2778	2961	2873	17	13	-72.48	-769	-275	218	192	26.82	8.142		
3000	2871	3039	2947	18	13	-85.66	-744	-274	186	156	29.62	6.263		
3100	2964	3119	3023	19	14	-101.11	-721	-275	169	137	31.82	5.319		
3129	2991	3142	3045	19	14	-105.66	-714	-275	168	136	32.16	5.233 CC, ES		
3200	3057	3197	3098	19	14	-116.85	-698	-275	174	142	32.29	5.384		
3300	3150	3277	3174	20	15	-131.19	-675	-274	198	167	31.29	6.329		
3400	3243	3355	3249	21	15	-142.70	-652	-273	236	206	30.03	7.851		
3500	3336	3436	3326	22	16	-151.72	-628	-272	282	253	29.21	9.645		
3600	3429	3517	3404	23	16	-158.29	-606	-272	332	303	28.86	11.491		
3700	3522	3589	3473	23	16	-162.73	-585	-270	385	356	28.70	13.421		
3800	3615	3668	3549	24	17	-166.57	-562	-268	441	413	28.89	15.278		
3900	3708	3741	3619	25	17	-169.37	-540	-265	499	470	29.12	17.138		
4000	3801	3809	3683	26	18	-171.58	-519	-263	559	530	29.35	19.045		
4100	3894	3892	3761	27	18	-173.86	-492	-260	620	590	29.93	20.719		
4123	3915	3916	3783	27	18	-174.44	-485	-259	634	604	30.15	21.039		
4150	3940	3946	3812	27	18	-166.46	-475	-258	650	620	30.45	21.358		
4200	3986	4006	3870	27	19	-153.54	-458	-258	680	649	31.03	21.908		
4250	4031	4057	3919	28	19	-142.88	-445	-257	709	677	31.45	22.530		
4300	4075	4087	3948	28	19	-133.42	-439	-256	738	706	31.57	23.372		
4350	4116	4118	3978	29	19	-125.53	-432	-253	768	736	31.70	24.217		
4400	4156	4165	4024	29	19	-119.63	-424	-246	798	766	32.07	24.876		

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 704H - Slot 2
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:	704H	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 (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4450	4194	4213	4071	29	19	-114.80	-417	-238	828	795	32.45	25.505
4500	4229	4307	4163	30	20	-112.85	-412	-219	856	822	33.28	25.708
4550	4260	4499	4348	30	20	-115.01	-433	-170	879	844	34.50	25.467
4600	4289	4563	4407	31	20	-113.15	-448	-152	899	864	34.77	25.851
4650	4314	4647	4482	31	20	-112.39	-473	-125	918	883	35.08	26.164
4700	4335	4737	4558	31	20	-112.16	-507	-90	935	900	35.42	26.403
4750	4352	4815	4619	32	20	-111.86	-542	-56	952	916	35.77	26.603
4800	4366	4875	4663	32	20	-111.33	-571	-28	967	931	36.12	26.764
4850	4375	5092	4788	33	20	-114.54	-699	92	979	941	37.94	25.792
4852	4375	5121	4800	33	21	-114.90	-719	110	979	940	38.33	25.533
4900	4380	5206	4830	33	21	-115.33	-780	162	984	944	39.45	24.935
4902	4380	5208	4830	33	21	-115.34	-781	163	984	944	39.48	24.918
4937	4381	5247	4844	33	21	-115.64	-809	187	987	947	39.88	24.758
5000	4381	5473	4877	34	21	-117.89	-981	327	985	942	43.05	22.876
5025	4380	5497	4877	34	21	-117.97	-1000	342	983	940	43.57	22.570
5100	4380	5568	4879	35	22	-118.22	-1055	386	979	934	45.11	21.704
5124	4380	5593	4880	35	22	-118.32	-1075	402	978	932	45.74	21.379
5200	4379	5679	4880	36	23	-118.56	-1142	457	973	925	47.86	20.335
5300	4379	5786	4877	38	24	-118.65	-1224	524	966	915	50.86	18.995
5400	4378	5872	4874	39	26	-118.69	-1290	579	959	906	53.55	17.917
5424	4378	5893	4874	39	26	-118.70	-1306	593	958	904	54.21	17.673
5500	4377	5962	4873	41	27	-118.77	-1359	638	954	898	56.50	16.886
5524	4377	5983	4872	41	27	-118.80	-1375	651	953	896	57.20	16.661
5600	4377	6044	4873	42	28	-118.92	-1421	691	950	891	59.32	16.013
5622	4377	6060	4873	43	29	-118.95	-1433	702	949	889	59.90	15.849
5700	4376	6120	4874	44	30	-119.08	-1478	741	948	886	62.04	15.287
5720	4376	6135	4874	44	30	-119.10	-1489	752	948	886	62.60	15.148
5800	4375	6199	4875	46	31	-119.17	-1536	796	949	884	64.98	14.605
5804	4375	6208	4875	46	31	-119.18	-1542	802	949	884	65.28	14.538
5900	4375	6308	4876	48	33	-119.20	-1614	872	951	882	69.03	13.772
5904	4375	6314	4875	48	34	-119.20	-1618	876	951	881	69.25	13.728
6000	4374	6399	4876	50	35	-119.22	-1679	934	952	879	72.55	13.116
6004	4374	6400	4876	50	35	-119.22	-1680	935	952	879	72.62	13.105
6100	4373	6515	4875	52	38	-119.21	-1763	1015	953	875	77.06	12.361
6121	4373	6541	4875	52	38	-119.20	-1781	1033	953	874	78.04	12.206
6200	4373	6628	4874	54	40	-119.19	-1845	1092	952	870	81.47	11.681
6222	4373	6650	4874	54	41	-119.19	-1861	1107	951	869	82.36	11.553
6300	4372	6741	4872	56	43	-119.19	-1928	1168	950	864	85.92	11.057
6323	4372	6772	4871	56	43	-119.14	-1952	1190	949	862	87.16	10.893
6400	4371	6859	4865	58	45	-118.93	-2016	1249	946	855	90.77	10.422
6424	4371	6881	4864	58	46	-118.89	-2031	1263	945	853	91.70	10.305
6500	4371	6957	4860	60	48	-118.72	-2088	1314	942	847	94.94	9.919
6524	4371	6979	4858	61	48	-118.66	-2104	1329	941	845	95.92	9.808
6600	4370	7049	4854	62	50	-118.47	-2155	1376	938	839	99.00	9.474
6623	4370	7071	4852	63	50	-118.40	-2172	1392	937	837	100.01	9.370
6700	4369	7142	4848	64	52	-118.22	-2223	1440	935	832	103.16	9.061
6723	4369	7163	4847	65	52	-118.16	-2238	1454	934	830	104.09	8.974
6800	4369	7242	4843	67	54	-117.98	-2296	1508	932	825	107.56	8.666
6823	4369	7268	4841	67	55	-117.91	-2315	1526	932	823	108.72	8.568
6900	4368	7352	4836	69	57	-117.65	-2376	1583	929	816	112.43	8.260
6923	4368	7371	4834	69	57	-117.60	-2390	1596	928	815	113.33	8.188
7000	4367	7439	4831	71	59	-117.43	-2440	1642	926	809	116.47	7.949

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 704H - Slot 2
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:	704H	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	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)	Separation (ft)	
7023	4367	7462	4830	72	60	-117.38	-2456	1658	925	808	117.48	7.876
7100	4367	7525	4827	73	61	-117.27	-2502	1701	924	804	120.40	7.674
7169	4366	7586	4825	75	63	-117.19	-2546	1743	924	801	123.18	7.499
7200	4366	7614	4825	76	63	-117.16	-2566	1763	924	799	124.45	7.422
7204	4366	7618	4825	76	63	-117.15	-2569	1766	924	799	124.64	7.411
7300	4366	7711	4823	78	66	-117.04	-2635	1830	924	796	128.80	7.176
7304	4365	7715	4823	78	66	-117.03	-2639	1833	924	795	129.00	7.165
7400	4365	7803	4822	80	68	-116.97	-2701	1895	925	792	132.94	6.961
7404	4365	7807	4822	80	68	-116.96	-2704	1898	925	792	133.13	6.951
7500	4364	7894	4821	83	70	-116.88	-2766	1959	927	790	137.09	6.764
7504	4364	7898	4820	83	70	-116.88	-2769	1962	927	790	137.27	6.756
7600	4364	8029	4819	85	73	-116.76	-2862	2054	929	786	142.98	6.499
7622	4363	8057	4818	86	74	-116.75	-2883	2073	929	785	144.17	6.443
7700	4363	8135	4818	87	76	-116.81	-2941	2125	927	780	147.53	6.284
7722	4363	8155	4818	88	77	-116.82	-2955	2138	927	778	148.40	6.244
7800	4362	8227	4817	90	78	-116.85	-3009	2187	925	774	151.59	6.105
7835	4362	8252	4817	91	79	-116.86	-3027	2204	925	773	152.76	6.057
7900	4362	8304	4817	92	80	-116.89	-3065	2240	926	771	155.11	5.969
7904	4362	8308	4817	92	80	-116.89	-3068	2243	926	771	155.28	5.962
8000	4361	8411	4818	95	83	-116.93	-3141	2314	927	767	159.74	5.803
8004	4361	8415	4818	95	83	-116.93	-3144	2317	927	767	159.92	5.797
8100	4360	8500	4818	97	85	-116.94	-3206	2376	928	764	163.75	5.669
8104	4360	8504	4818	97	85	-116.94	-3208	2379	928	764	163.93	5.663
8200	4360	8609	4817	99	88	-116.90	-3283	2452	930	762	168.63	5.517
8221	4359	8648	4817	100	89	-116.90	-3311	2479	930	760	170.22	5.465
8300	4359	8731	4816	102	91	-116.91	-3373	2536	929	755	173.87	5.344
8322	4359	8753	4816	102	91	-116.92	-3389	2551	929	754	174.83	5.313
8400	4358	8833	4816	104	93	-117.00	-3448	2604	928	749	178.23	5.204
8470	4358	8888	4817	106	95	-117.08	-3489	2641	927	746	180.70	5.130
8500	4358	8915	4817	106	95	-117.11	-3508	2659	927	745	181.85	5.098
8504	4358	8919	4817	107	95	-117.12	-3511	2662	927	745	182.02	5.093
8600	4357	9022	4818	109	98	-117.19	-3587	2733	927	741	186.48	4.972
8622	4357	9051	4817	109	99	-117.19	-3608	2753	927	739	187.69	4.939
8700	4356	9125	4817	111	101	-117.19	-3662	2803	926	735	191.02	4.848
8727	4356	9145	4816	112	101	-117.19	-3676	2816	926	734	191.95	4.824
8800	4356	9204	4816	114	103	-117.17	-3719	2858	927	732	194.70	4.759
8804	4356	9208	4816	114	103	-117.17	-3722	2861	927	732	194.89	4.755
8900	4355	9305	4815	116	105	-117.09	-3791	2929	928	729	199.36	4.656
8904	4355	9306	4815	116	105	-117.09	-3792	2929	928	729	199.40	4.655
9000	4354	9400	4814	118	108	-117.05	-3859	2995	930	726	203.70	4.566
9004	4354	9406	4814	119	108	-117.05	-3862	2999	930	726	203.94	4.561
9100	4354	9507	4814	121	110	-117.06	-3936	3070	931	723	208.46	4.467
9104	4354	9511	4814	121	110	-117.06	-3939	3073	931	723	208.64	4.464
9200	4353	9616	4813	123	113	-116.98	-4014	3146	932	719	213.44	4.368
9204	4353	9618	4813	123	113	-116.98	-4015	3147	932	719	213.53	4.366
9300	4352	9714	4811	126	116	-116.84	-4083	3215	933	715	218.09	4.280
9322	4352	9745	4810	126	116	-116.81	-4105	3236	933	714	219.44	4.253
9400	4352	9824	4809	128	118	-116.78	-4163	3290	933	709	223.03	4.181
9431	4352	9849	4808	129	119	-116.77	-4181	3307	932	708	224.22	4.158
9500	4351	9900	4808	131	120	-116.74	-4218	3342	933	706	226.67	4.116
9504	4351	9903	4808	131	120	-116.74	-4220	3345	933	706	226.82	4.114
9600	4350	10,000	4807	133	123	-116.65	-4289	3413	935	704	231.35	4.042

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 704H - Slot 2
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:	704H	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			Offset Wellbore Centre		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		
9604	4350	10,004	4807	133	123	-116.64	-4292	3416	935	704	231.55	4.039		
9700	4350	10,093	4806	135	125	-116.57	-4355	3479	937	702	235.73	3.976		
9704	4350	10,099	4806	136	125	-116.57	-4359	3483	937	701	235.99	3.972		
9800	4349	10,179	4806	138	127	-116.52	-4415	3540	941	701	239.67	3.925		
9804	4349	10,183	4806	138	127	-116.52	-4418	3543	941	701	239.88	3.922		
9900	4348	10,349	4806	140	132	-116.53	-4537	3657	942	695	246.87	3.815		
9961	4348	10,379	4806	142	132	-116.55	-4560	3678	941	692	248.57	3.786		
10,000	4348	10,404	4806	143	133	-116.57	-4578	3695	941	692	249.74	3.769		
10,004	4348	10,404	4806	143	133	-116.57	-4578	3695	941	692	249.75	3.769		
10,100	4347	10,511	4806	145	136	-116.57	-4654	3770	943	689	254.54	3.705		
10,121	4347	10,542	4805	146	137	-116.53	-4676	3791	943	687	255.95	3.685		
10,200	4347	10,652	4803	148	139	-116.47	-4757	3866	941	681	260.60	3.612		
10,223	4346	10,672	4802	148	140	-116.48	-4772	3879	941	679	261.55	3.596		
10,300	4346	10,741	4801	150	142	-116.49	-4824	3925	938	674	264.76	3.544		
10,323	4346	10,761	4801	151	142	-116.49	-4839	3939	938	672	265.68	3.530		
10,400	4345	10,829	4800	152	144	-116.50	-4889	3985	936	668	268.82	3.484		
10,446	4345	10,864	4800	154	145	-116.51	-4914	4008	936	666	270.50	3.461		
10,500	4345	10,909	4800	155	146	-116.51	-4947	4040	937	664	272.61	3.435		
10,504	4345	10,913	4800	155	146	-116.51	-4950	4043	937	664	272.80	3.433		
10,600	4344	11,008	4800	157	148	-116.52	-5018	4108	938	661	277.07	3.384		
10,670	4343	11,090	4799	159	150	-116.49	-5078	4165	938	657	280.76	3.339		
10,700	4343	11,112	4798	160	151	-116.49	-5094	4180	938	656	281.83	3.327		
10,704	4343	11,116	4798	160	151	-116.49	-5096	4183	938	656	281.99	3.325		
10,800	4343	11,210	4799	162	153	-116.54	-5165	4248	939	652	286.17	3.280		
10,821	4342	11,235	4799	163	154	-116.56	-5183	4265	939	652	287.22	3.268		
10,900	4342	11,327	4800	165	156	-116.65	-5250	4327	938	647	291.04	3.224		
10,922	4342	11,347	4800	165	157	-116.68	-5265	4341	938	646	291.92	3.214		
11,000	4341	11,425	4801	167	159	-116.77	-5322	4394	938	642	295.22	3.176		
11,052	4341	11,470	4800	168	160	-116.78	-5355	4424	937	640	297.30	3.153		
11,100	4341	11,511	4800	170	161	-116.77	-5384	4453	938	638	299.20	3.134		
11,104	4341	11,515	4800	170	161	-116.77	-5388	4456	938	638	299.41	3.132		
11,200	4340	11,618	4800	172	164	-116.80	-5462	4526	938	634	303.94	3.086		
11,221	4340	11,641	4800	173	164	-116.82	-5479	4542	938	633	304.93	3.076		
11,300	4339	11,725	4800	174	166	-116.87	-5540	4599	938	629	308.53	3.039		
11,310	4339	11,735	4800	175	167	-116.87	-5548	4606	937	628	308.98	3.034		
11,347	4339	11,768	4800	176	168	-116.89	-5572	4629	937	627	310.47	3.019 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 704H - Slot 2
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:	704H	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 - Federal D #5 - OH - OH												Offset Site Error:	0 ft
Survey Program: 373-INCLINOMETER												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	153	153	0	2	170.11	-3309	577	3359				
100	100	253	253	0	4	170.11	-3309	577	3359	3355	4.15	809.305	
200	200	353	353	1	5	170.11	-3309	577	3359	3353	6.03	557.282	
300	300	453	453	1	8	170.11	-3309	577	3359	3350	9.12	368.333	
400	400	553	553	1	11	170.11	-3309	577	3359	3346	12.51	268.398	
450	450	603	603	2	13	170.11	-3309	577	3359	3345	14.21	236.337	
500	500	653	653	2	14	-43.16	-3309	577	3358	3342	15.89	211.375	
600	600	751	751	2	17	-43.23	-3309	577	3356	3337	19.21	174.653	
700	700	849	849	2	20	-43.38	-3309	577	3351	3328	22.55	148.616	
800	799	952	952	3	23	-43.61	-3309	577	3343	3317	26.02	128.463	
900	898	1051	1051	3	26	-43.92	-3309	577	3333	3304	29.40	113.356	
1000	997	1147	1147	4	29	-44.30	-3308	577	3320	3287	32.71	101.499	
1100	1094	1237	1237	4	32	-44.74	-3308	577	3305	3269	35.85	92.181	
1200	1191	1327	1327	5	35	-45.25	-3309	577	3288	3249	39.00	84.298	
1300	1288	1441	1441	5	38	-45.93	-3309	577	3269	3226	42.93	76.137	
1400	1383	1536	1536	6	41	-46.64	-3309	577	3247	3200	46.31	70.099	
1500	1477	1628	1628	6	44	-47.43	-3308	577	3222	3172	49.66	64.876	
1531	1506	1654	1654	7	45	-47.67	-3308	577	3214	3163	50.62	63.482	
1600	1570	1712	1712	7	46	-47.97	-3308	577	3196	3143	52.77	60.563	
1700	1663	1796	1796	8	49	-48.39	-3308	577	3171	3115	55.91	56.716	
1800	1756	1909	1909	9	52	-48.97	-3309	577	3146	3086	59.93	52.497	
1900	1849	2002	2002	9	55	-49.46	-3309	577	3121	3058	63.37	49.251	
2000	1942	2095	2095	10	58	-49.96	-3309	577	3096	3029	66.82	46.334	
2100	2034	2184	2184	11	61	-50.45	-3308	577	3071	3001	70.18	43.762	
2200	2127	2272	2272	12	63	-50.93	-3309	577	3047	2974	73.52	41.444	
2300	2220	2373	2373	12	66	-51.50	-3309	577	3023	2946	77.26	39.132	
2400	2313	2466	2466	13	69	-52.02	-3309	577	2999	2919	80.76	37.142	
2500	2406	2550	2549	14	72	-52.50	-3309	577	2976	2892	83.97	35.438	
2600	2499	2652	2652	15	75	-53.10	-3309	577	2953	2865	87.78	33.635	
2700	2592	2744	2744	15	78	-53.65	-3308	577	2929	2838	91.27	32.094	
2800	2685	2825	2825	16	80	-54.13	-3309	577	2907	2812	94.46	30.772	
2900	2778	2931	2931	17	83	-54.78	-3309	577	2884	2786	98.39	29.316	
3000	2871	3024	3024	18	86	-55.35	-3309	577	2862	2760	101.94	28.078	
3100	2964	3117	3117	19	89	-55.93	-3309	577	2840	2735	105.50	26.923	
3200	3057	3210	3210	19	92	-56.52	-3309	577	2819	2710	109.07	25.845	
3300	3150	3303	3303	20	95	-57.12	-3309	577	2798	2685	112.65	24.836	
3400	3243	3393	3393	21	97	-57.72	-3308	577	2776	2660	116.15	23.900	
3500	3336	3479	3479	22	100	-58.28	-3308	577	2756	2636	119.51	23.057	
3600	3429	3564	3564	23	103	-58.85	-3309	577	2736	2613	122.89	22.262	
3700	3522	3675	3675	23	106	-59.60	-3309	577	2716	2589	127.03	21.382	
3800	3615	3768	3768	24	109	-60.24	-3309	577	2697	2566	130.65	20.641	
3900	3708	3859	3859	25	112	-60.88	-3308	577	2677	2543	134.22	19.943	
4000	3801	3945	3944	26	114	-61.48	-3308	577	2658	2521	137.62	19.316	
4100	3894	4030	4030	27	117	-62.09	-3309	577	2640	2499	141.03	18.722	
4123	3915	4050	4050	27	117	-62.23	-3309	577	2636	2494	141.83	18.588	
4150	3940	4093	4093	27	119	-55.71	-3309	577	2631	2488	143.35	18.352	
4200	3986	4139	4139	27	120	-44.65	-3309	577	2617	2472	145.13	18.035	
4250	4031	4184	4184	28	121	-35.59	-3309	577	2600	2453	146.85	17.705	
4300	4075	4228	4228	28	123	-28.30	-3309	577	2578	2430	148.50	17.363	
4350	4116	4270	4269	29	124	-22.36	-3309	577	2553	2403	150.06	17.013	
4400	4156	4309	4309	29	125	-17.37	-3309	577	2524	2373	151.53	16.657	
4450	4194	4345	4345	29	126	-12.96	-3308	577	2491	2338	152.82	16.298	

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 704H - Slot 2
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:	704H	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 - Federal D #5 - OH - OH											Offset Site Error:	0 ft
Survey Program: 373-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:				
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
4500	4229	4377	4377	30	127	-8.81	-3308	577	2455	2301	153.99	15.943
4550	4260	4407	4407	30	128	-4.62	-3308	577	2417	2262	155.03	15.589
4600	4289	4433	4433	31	129	-0.04	-3308	577	2376	2220	155.93	15.235
4650	4314	4457	4457	31	130	5.39	-3308	577	2333	2176	156.70	14.885
4700	4335	4477	4477	31	130	12.35	-3308	577	2288	2130	157.32	14.541
4750	4352	4493	4493	32	131	21.91	-3308	577	2241	2083	157.77	14.204
4800	4366	4506	4506	32	131	35.50	-3308	577	2193	2035	158.07	13.876
4850	4375	4515	4515	33	131	54.06	-3309	577	2145	1987	158.20	13.560
4900	4380	4520	4520	33	132	75.39	-3309	577	2097	1939	158.16	13.257
4937	4381	4521	4521	33	132	89.99	-3309	577	2060	1902	158.02	13.039
5000	4381	4521	4521	34	132	89.98	-3309	577	2000	1843	157.70	12.684
5100	4380	4521	4521	35	132	89.97	-3309	577	1904	1747	157.18	12.116
5200	4379	4521	4521	36	132	89.96	-3309	577	1809	1652	156.63	11.549
5300	4379	4521	4520	38	132	89.94	-3309	577	1714	1558	156.06	10.982
5400	4378	4520	4520	39	132	89.93	-3309	577	1619	1464	155.49	10.415
5500	4377	4520	4520	41	132	89.92	-3309	577	1526	1371	154.92	9.848
5600	4377	4520	4520	42	132	89.90	-3309	577	1433	1279	154.40	9.281
5700	4376	4520	4520	44	132	89.89	-3309	577	1341	1187	153.96	8.711
5800	4375	4520	4520	46	132	89.88	-3309	577	1251	1097	153.67	8.138
5900	4375	4520	4520	48	132	89.86	-3309	577	1162	1008	153.64	7.560
6000	4374	4520	4520	50	132	89.85	-3309	577	1075	921	154.02	6.977
6100	4373	4520	4519	52	132	89.84	-3309	577	990	835	154.98	6.387
6200	4373	4519	4519	54	132	89.82	-3309	577	908	752	156.76	5.796
6300	4372	4519	4519	56	132	89.81	-3309	577	831	672	159.55	5.209
6400	4371	4519	4519	58	132	89.80	-3309	577	759	595	163.55	4.641
6500	4371	4519	4519	60	132	89.78	-3309	577	694	525	168.83	4.110
6600	4370	4519	4519	62	132	89.77	-3309	577	638	462	175.32	3.638
6700	4369	4519	4519	64	132	89.75	-3309	577	593	411	182.69	3.248
6800	4369	4519	4519	67	132	89.74	-3309	577	563	373	190.23	2.962
6900	4368	4519	4518	69	132	89.73	-3309	577	550	353	196.99	2.793
6923	4368	4518	4518	69	132	89.72	-3309	577	550	351	198.34	2.772 CC, ES
7000	4367	4518	4518	71	132	89.71	-3309	577	555	353	202.05	2.747 SF
7100	4367	4518	4518	73	132	89.70	-3309	577	578	373	204.97	2.818
7200	4366	4518	4518	76	132	89.68	-3309	577	616	410	205.91	2.989
7300	4366	4518	4518	78	132	89.67	-3309	577	666	461	205.42	3.245
7400	4365	4518	4518	80	132	89.65	-3309	577	728	524	204.05	3.566
7500	4364	4518	4518	83	132	89.64	-3309	577	797	595	202.27	3.939
7600	4364	4518	4517	85	132	89.62	-3309	577	872	672	200.34	4.352
7700	4363	4517	4517	87	132	89.61	-3309	577	952	753	198.44	4.796
7800	4362	4517	4517	90	132	89.59	-3309	577	1035	838	196.65	5.263
7900	4362	4517	4517	92	132	89.58	-3309	577	1121	926	194.99	5.748
8000	4361	4517	4517	95	132	89.56	-3309	577	1209	1016	193.48	6.249
8100	4360	4517	4517	97	132	89.55	-3309	577	1299	1107	192.11	6.761
8200	4360	4517	4517	99	132	89.53	-3309	577	1390	1199	190.87	7.283
8300	4359	4517	4516	102	131	89.52	-3309	577	1482	1293	189.75	7.813
8400	4358	4516	4516	104	131	89.50	-3309	577	1576	1387	188.74	8.349
8500	4358	4516	4516	106	131	89.49	-3309	577	1670	1482	187.82	8.891
8600	4357	4516	4516	109	131	89.47	-3309	577	1765	1578	186.99	9.437
8700	4356	4516	4516	111	131	89.46	-3309	577	1860	1674	186.24	9.987
8800	4356	4516	4516	114	131	89.44	-3309	577	1956	1770	185.55	10.540
8900	4355	4516	4515	116	131	89.43	-3309	577	2052	1867	184.92	11.096
9000	4354	4515	4515	118	131	89.41	-3309	577	2148	1964	184.34	11.654

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 704H - Slot 2
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:	704H	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 - Federal D #5 - OH - OH													Offset Site Error: 0 ft	
Survey Program: 373-INCLINOMETER				Offset					Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	4354	4515	4515	121	131	89.39	-3309	577	2245	2061	183.81	12.214		
9200	4353	4515	4515	123	131	89.38	-3309	577	2342	2159	183.32	12.777		
9300	4352	4515	4515	126	131	89.36	-3309	577	2440	2257	182.87	13.340		
9400	4352	4515	4515	128	131	89.35	-3309	577	2537	2355	182.45	13.905		
9500	4351	4515	4515	131	131	89.33	-3309	577	2635	2453	182.06	14.472		
9600	4350	4515	4514	133	131	89.31	-3309	577	2733	2551	181.70	15.039		
9700	4350	4514	4514	135	131	89.30	-3309	577	2831	2649	181.37	15.607		
9800	4349	4514	4514	138	131	89.28	-3309	577	2929	2748	181.05	16.176		
9900	4348	4514	4514	140	131	89.26	-3309	577	3027	2846	180.76	16.746		
10,000	4348	4514	4514	143	131	89.25	-3309	577	3125	2945	180.49	17.317		
10,100	4347	4514	4514	145	131	89.23	-3309	577	3224	3044	180.24	17.888		
10,200	4347	4514	4513	148	131	89.21	-3309	577	3323	3143	180.00	18.459		
10,300	4346	4513	4513	150	131	89.20	-3308	577	3421	3241	179.77	19.031		
10,400	4345	4513	4513	152	131	89.18	-3308	577	3520	3340	179.56	19.603		
10,500	4345	4513	4513	155	131	89.16	-3308	577	3619	3439	179.36	20.176		
10,600	4344	4513	4513	157	131	89.14	-3308	577	3718	3538	179.18	20.749		
10,700	4343	4513	4513	160	131	89.13	-3308	577	3817	3638	179.00	21.322		
10,800	4343	4513	4512	162	131	89.11	-3308	577	3916	3737	178.83	21.895		
10,900	4342	4512	4512	165	131	89.09	-3308	577	4015	3836	178.68	22.468		
11,000	4341	4512	4512	167	131	89.07	-3308	577	4114	3935	178.53	23.042		
11,100	4341	4512	4512	170	131	89.06	-3308	577	4213	4034	178.39	23.616		
11,200	4340	4512	4512	172	131	89.04	-3308	577	4312	4134	178.26	24.190		
11,300	4339	4512	4512	174	131	89.02	-3308	577	4411	4233	178.13	24.763		
11,347	4339	4512	4512	176	131	89.01	-3308	577	4458	4280	178.07	25.036		

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 704H - Slot 2
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:	704H	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 - 701H - 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	20	0.46	43.357		
200	200	200	200	1	1	-90.00	0	-20	20	19	1.18	17.000		
300	300	300	300	1	1	-90.00	0	-20	20	18	1.90	10.573		
400	400	400	400	1	1	-90.00	0	-20	20	17	2.61	7.672		
450	450	450	450	2	1	-90.00	0	-20	20	17	2.97	6.747 CC		
500	500	500	500	2	2	56.82	0	-20	20	17	3.31	6.063		
600	600	599	599	2	2	57.51	-3	-23	20	16	3.98	5.126		
700	700	699	699	2	2	58.81	-8	-27	21	16	4.67	4.504 ES		
800	799	798	798	3	3	60.62	-16	-34	22	17	5.38	4.081		
900	898	898	896	3	3	62.79	-27	-42	23	17	6.14	3.789		
1000	997	998	994	4	3	65.18	-40	-53	25	18	6.96	3.584		
1100	1094	1097	1092	4	4	67.64	-56	-67	27	19	7.85	3.439		
1200	1191	1197	1188	5	4	70.06	-74	-82	29	21	8.83	3.334		
1300	1288	1296	1284	5	5	72.37	-95	-99	32	22	9.90	3.257		
1400	1383	1396	1378	6	6	74.51	-119	-119	35	24	11.09	3.198		
1500	1477	1495	1472	6	6	76.54	-145	-140	39	27	12.40	3.152		
1531	1506	1526	1501	7	6	77.61	-153	-147	40	27	12.84	3.128		
1600	1570	1595	1566	7	7	80.33	-172	-163	43	29	13.84	3.074		
1700	1663	1695	1659	8	8	83.77	-199	-185	46	31	15.32	3.014		
1800	1756	1795	1753	9	8	86.69	-226	-208	50	33	16.81	2.970		
1900	1849	1895	1846	9	9	89.20	-253	-230	54	35	18.31	2.938		
2000	1942	1995	1940	10	10	91.37	-280	-252	58	38	19.81	2.915		
2100	2034	2094	2033	11	11	93.26	-307	-275	62	40	21.32	2.898		
2200	2127	2194	2127	12	11	94.91	-333	-297	66	43	22.82	2.887		
2300	2220	2294	2221	12	12	96.38	-360	-320	70	46	24.32	2.879		
2400	2313	2394	2314	13	13	97.67	-387	-342	74	48	25.82	2.873		
2500	2406	2494	2408	14	14	98.83	-414	-364	78	51	27.31	2.870		
2600	2499	2594	2501	15	14	99.87	-441	-387	83	54	28.81	2.869		
2700	2592	2694	2595	15	15	100.81	-468	-409	87	57	30.30	2.868 SF		
2800	2685	2794	2688	16	16	101.66	-495	-431	91	59	31.79	2.869		
2900	2778	2894	2782	17	17	102.44	-522	-454	95	62	33.27	2.870		
3000	2871	2994	2876	18	17	103.14	-549	-476	100	65	34.76	2.872		
3100	2964	3093	2969	19	18	103.79	-576	-499	104	68	36.24	2.874		
3200	3057	3193	3063	19	19	104.39	-603	-521	108	71	37.72	2.876		
3300	3150	3293	3156	20	20	104.94	-630	-543	113	74	39.21	2.878		
3400	3243	3393	3250	21	20	105.45	-657	-566	117	77	40.69	2.881		
3500	3336	3493	3343	22	21	105.92	-684	-588	122	79	42.16	2.884		
3600	3429	3593	3437	23	22	106.36	-710	-610	126	82	43.64	2.886		
3700	3522	3693	3530	23	23	106.77	-737	-633	130	85	45.12	2.889		
3800	3615	3793	3624	24	23	107.16	-764	-655	135	88	46.60	2.892		
3900	3708	3893	3718	25	24	107.52	-791	-678	139	91	48.07	2.895		
4000	3801	3993	3811	26	25	107.85	-818	-700	144	94	49.55	2.898		
4100	3894	4081	3894	27	26	108.09	-841	-721	150	99	50.74	2.958		
4123	3915	4100	3912	27	26	108.10	-845	-726	153	102	50.93	3.010		
4150	3940	4119	3930	27	26	114.80	-848	-732	159	108	50.98	3.110		
4200	3986	4150	3958	27	26	125.82	-852	-743	174	124	50.56	3.449		
4250	4031	4189	3994	28	26	134.57	-855	-758	197	146	50.85	3.876		
4300	4075	4218	4021	28	27	141.47	-857	-770	226	176	50.58	4.474		
4350	4116	4250	4049	29	27	146.78	-856	-784	261	210	50.80	5.139		
4400	4156	4264	4061	29	27	151.31	-856	-790	300	250	49.88	6.014		
4450	4194	4280	4076	29	27	155.08	-855	-798	343	293	49.55	6.916		

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 704H - Slot 2
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:	704H	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 - 701H - 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
4500	4229	4300	4093	30	27	158.31	-853	-808	388	338	49.80	7.795
4550	4260	4300	4093	30	27	162.58	-853	-808	436	387	48.97	8.894
4600	4289	4300	4093	31	27	169.47	-853	-808	484	436	48.47	9.994
4650	4314	4300	4093	31	27	-166.50	-853	-808	534	486	48.27	11.067
4700	4335	4300	4093	31	27	-57.27	-853	-808	584	536	48.29	12.097
4750	4352	4300	4093	32	27	-34.82	-853	-808	634	585	48.48	13.075
4800	4366	4300	4093	32	27	-29.08	-853	-808	683	634	48.80	13.997
4850	4375	4300	4093	33	27	-26.46	-853	-808	732	682	49.22	14.862
4900	4380	4300	4093	33	27	-25.02	-853	-808	779	729	49.71	15.671
4937	4381	4300	4093	33	27	-24.37	-853	-808	814	764	50.10	16.243
5000	4381	4278	4073	34	27	-24.09	-855	-797	871	821	49.89	17.455
5100	4380	4250	4049	35	27	-23.79	-856	-784	964	914	49.83	19.336
5200	4379	4250	4049	36	27	-23.79	-856	-784	1057	1006	50.59	20.887
5300	4379	4250	4049	38	27	-23.79	-856	-784	1151	1100	51.18	22.488
5400	4378	4230	4031	39	27	-23.60	-857	-775	1246	1194	51.12	24.365
5500	4377	4221	4023	41	27	-23.52	-857	-771	1341	1290	51.32	26.129
5600	4377	4200	4004	42	26	-23.35	-856	-762	1437	1386	51.19	28.070
5700	4376	4200	4004	44	26	-23.35	-856	-762	1533	1481	51.51	29.756
5800	4375	4200	4004	46	26	-23.35	-856	-762	1629	1578	51.79	31.462
5900	4375	4200	4004	48	26	-23.35	-856	-762	1726	1674	52.02	33.183
6000	4374	4200	4004	50	26	-23.35	-856	-762	1823	1771	52.22	34.916
6100	4373	4200	4004	52	26	-23.35	-856	-762	1921	1869	52.40	36.660
6200	4373	4177	3983	54	26	-23.17	-855	-753	2018	1966	52.13	38.710
6300	4372	4172	3979	56	26	-23.14	-854	-751	2116	2064	52.21	40.529
6400	4371	4150	3958	58	26	-23.00	-852	-743	2214	2162	51.95	42.617
6500	4371	4150	3958	60	26	-23.00	-852	-743	2312	2260	52.09	44.387
6600	4370	4150	3958	62	26	-23.00	-852	-743	2410	2358	52.21	46.163
6700	4369	4150	3958	64	26	-23.00	-852	-743	2508	2456	52.31	47.944
6800	4369	4150	3958	67	26	-23.00	-852	-743	2607	2554	52.42	49.728
6900	4368	4150	3958	69	26	-23.00	-852	-743	2705	2652	52.51	51.515
7000	4367	4150	3958	71	26	-23.00	-852	-743	2804	2751	52.59	53.305
7100	4367	4150	3958	73	26	-23.00	-852	-743	2902	2850	52.68	55.096
7200	4366	4150	3958	76	26	-23.00	-852	-743	3001	2948	52.75	56.890
7300	4366	4150	3958	78	26	-23.00	-852	-743	3100	3047	52.82	58.684
7400	4365	4150	3958	80	26	-23.00	-852	-743	3199	3146	52.89	60.479
7500	4364	4150	3958	83	26	-23.00	-852	-743	3298	3245	52.95	62.275
7600	4364	4150	3958	85	26	-23.00	-852	-743	3397	3344	53.02	64.071
7700	4363	4150	3958	87	26	-23.00	-852	-743	3496	3443	53.07	65.866
7800	4362	4150	3958	90	26	-23.00	-852	-743	3595	3542	53.13	67.662
7900	4362	4150	3958	92	26	-23.00	-852	-743	3694	3641	53.19	69.457
8000	4361	4128	3938	95	26	-22.87	-849	-735	3793	3740	52.93	71.653
8100	4360	4126	3936	97	26	-22.86	-849	-735	3892	3839	52.97	73.482
8200	4360	4125	3935	99	26	-22.85	-849	-734	3991	3938	53.00	75.309
8300	4359	4123	3934	102	26	-22.84	-848	-734	4091	4037	53.03	77.134
8400	4358	4100	3912	104	26	-22.72	-845	-726	4190	4138	52.77	79.404
8500	4358	4100	3912	106	26	-22.72	-845	-726	4290	4237	52.82	81.205
8600	4357	4100	3912	109	26	-22.72	-845	-726	4389	4336	52.88	83.005
8700	4356	4100	3912	111	26	-22.72	-845	-726	4488	4435	52.93	84.803
8800	4356	4100	3912	114	26	-22.72	-845	-726	4588	4535	52.97	86.599
8900	4355	4100	3912	116	26	-22.72	-845	-726	4687	4634	53.02	88.393
9000	4354	4100	3912	118	26	-22.72	-845	-726	4786	4733	53.07	90.186
9100	4354	4100	3912	121	26	-22.72	-845	-726	4886	4833	53.12	91.977

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 704H - Slot 2
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:	704H	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 - 701H - 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	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9200	4353	4100	3912	123	26	-22.72	-845	-726	4985	4932	53.17	93.765	
9300	4352	4100	3912	126	26	-22.72	-845	-726	5085	5032	53.21	95.551	
9400	4352	4100	3912	128	26	-22.72	-845	-726	5184	5131	53.26	97.335	
9500	4351	4100	3912	131	26	-22.72	-845	-726	5284	5230	53.31	99.116	
9600	4350	4100	3912	133	26	-22.72	-845	-726	5383	5330	53.36	100.895	
9700	4350	4100	3912	135	26	-22.72	-845	-726	5483	5429	53.40	102.672	
9800	4349	4100	3912	138	26	-22.72	-845	-726	5582	5529	53.45	104.445	
9900	4348	4100	3912	140	26	-22.72	-845	-726	5682	5628	53.49	106.216	
10,000	4348	4100	3912	143	26	-22.72	-845	-726	5782	5728	53.54	107.984	
10,100	4347	4100	3912	145	26	-22.72	-845	-726	5881	5828	53.59	109.749	
10,200	4347	4100	3912	148	26	-22.72	-845	-726	5981	5927	53.63	111.512	
10,300	4346	4100	3912	150	26	-22.72	-845	-726	6080	6027	53.68	113.271	
10,400	4345	4100	3912	152	26	-22.72	-845	-726	6180	6126	53.73	115.027	
10,500	4345	4100	3912	155	26	-22.72	-845	-726	6280	6226	53.77	116.780	
10,600	4344	4100	3912	157	26	-22.72	-845	-726	6379	6326	53.82	118.529	
10,700	4343	4100	3912	160	26	-22.72	-845	-726	6479	6425	53.87	120.276	
10,800	4343	4100	3912	162	26	-22.72	-845	-726	6579	6525	53.92	122.019	
10,900	4342	4100	3912	165	26	-22.72	-845	-726	6679	6625	53.96	123.758	
11,000	4341	4100	3912	167	26	-22.72	-845	-726	6778	6724	54.01	125.495	
11,100	4341	4100	3912	170	26	-22.72	-845	-726	6878	6824	54.06	127.227	
11,200	4340	4100	3912	172	26	-22.72	-845	-726	6978	6924	54.11	128.956	
11,300	4339	4100	3912	174	26	-22.72	-845	-726	7077	7023	54.16	130.682	
11,347	4339	4100	3912	176	26	-22.73	-845	-726	7125	7071	54.18	131.500	

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 704H - Slot 2
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:	704H	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	40	40						
100	100	100	100	0	0	90.00	0	40	40	39	0.62	64.557			
200	200	200	200	1	1	90.00	0	40	40	38	1.33	29.849			
300	300	300	300	1	1	90.00	0	40	40	38	2.05	19.412			
400	400	400	400	1	1	90.00	0	40	40	37	2.77	14.383			
450	450	450	450	2	2	90.00	0	40	40	37	3.13	12.734 CC, ES			
500	500	499	499	2	2	-123.77	0	40	40	37	3.47	11.665			
600	600	598	598	2	2	-127.30	0	44	46	42	4.14	11.084 SF			
700	700	695	695	2	2	-132.26	0	50	57	52	4.83	11.844			
800	799	794	793	3	3	-137.20	0	59	73	67	5.54	13.160			
900	898	892	891	3	3	-141.68	1	67	92	85	6.25	14.643			
1000	997	989	988	4	4	-145.57	1	75	113	106	6.98	16.261			
1100	1094	1086	1084	4	4	-148.86	1	83	139	131	7.71	17.989			
1200	1191	1181	1179	5	4	-151.64	1	91	167	159	8.44	19.799			
1300	1288	1276	1273	5	5	-153.97	1	99	199	190	9.18	21.674			
1400	1383	1369	1366	6	5	-155.94	1	107	234	224	9.92	23.599			
1500	1477	1461	1458	6	5	-157.60	2	115	272	262	10.65	25.563			
1531	1506	1489	1486	7	5	-158.06	2	117	285	274	10.89	26.170			
1600	1570	1552	1548	7	6	-159.19	2	122	313	302	11.39	27.499			
1700	1663	1643	1639	8	6	-160.50	2	130	354	342	12.12	29.238			
1800	1756	1734	1730	9	6	-161.53	2	138	396	383	12.85	30.781			
1900	1849	1824	1820	9	7	-162.38	2	145	437	423	13.59	32.157			
2000	1942	1915	1911	10	7	-163.07	2	153	478	464	14.33	33.388			
2100	2034	2006	2001	11	7	-163.66	2	161	520	505	15.07	34.497			
2200	2127	2097	2092	12	8	-164.16	3	168	561	545	15.81	35.499			
2300	2220	2188	2182	12	8	-164.59	3	176	603	586	16.56	36.408			
2400	2313	2279	2273	13	9	-164.97	3	184	644	627	17.30	37.237			
2500	2406	2370	2363	14	9	-165.30	3	191	686	668	18.05	37.995			
2600	2499	2461	2454	15	9	-165.59	3	199	728	709	18.80	38.690			
2700	2592	2552	2545	15	10	-165.85	3	207	769	750	19.56	39.331			
2800	2685	2642	2635	16	10	-166.09	4	214	811	790	20.31	39.923			
2900	2778	2733	2726	17	10	-166.30	4	222	852	831	21.06	40.470			
3000	2871	2824	2816	18	11	-166.49	4	230	894	872	21.82	40.979			
3100	2964	2915	2907	19	11	-166.66	4	237	936	913	22.57	41.453			
3200	3057	3006	2997	19	11	-166.82	4	245	977	954	23.33	41.894			
3300	3150	3097	3088	20	12	-166.97	4	253	1019	995	24.09	42.307			
3400	3243	3188	3178	21	12	-167.11	4	260	1061	1036	24.84	42.694			
3500	3336	3279	3269	22	12	-167.23	5	268	1102	1077	25.60	43.058			
3600	3429	3369	3360	23	13	-167.35	5	276	1144	1118	26.36	43.399			
3700	3522	3460	3450	23	13	-167.45	5	283	1186	1159	27.12	43.721			
3800	3615	3551	3541	24	13	-167.56	5	291	1227	1199	27.88	44.024			
3900	3708	3642	3631	25	14	-167.65	5	298	1269	1240	28.64	44.311			
4000	3801	3733	3722	26	14	-167.74	5	306	1311	1281	29.40	44.583			
4100	3894	3824	3812	27	15	-167.82	6	314	1352	1322	30.16	44.840			
4123	3915	3845	3834	27	15	-167.84	6	316	1362	1332	30.34	44.898			
4150	3940	3868	3856	27	15	-159.93	6	317	1373	1343	30.53	44.980			
4200	3986	3907	3896	27	15	-146.82	7	319	1394	1363	30.85	45.190			
4250	4031	3944	3933	28	15	-136.12	11	319	1415	1384	31.14	45.452			
4300	4075	3978	3965	28	15	-127.51	15	318	1436	1405	31.37	45.776			
4350	4116	4007	3994	29	15	-120.52	20	316	1457	1426	31.58	46.150			
4400	4156	4031	4017	29	15	-114.67	26	313	1479	1447	31.74	46.588			
4450	4194	4050	4036	29	15	-109.62	30	310	1500	1469	31.87	47.083			

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 704H - Slot 2
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:	704H	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	
4500	4229	4066	4051	30	15	-105.17	34	307	1522	1490	31.97	47.613	
4550	4260	4077	4061	30	15	-101.10	38	305	1544	1512	32.05	48.179	
4600	4289	4085	4069	31	15	-97.32	40	304	1566	1534	32.12	48.765	
4650	4314	4100	4083	31	15	-94.22	45	301	1589	1556	32.25	49.252	
4700	4335	4100	4083	31	15	-90.85	45	301	1610	1578	32.31	49.838	
4750	4352	4100	4083	32	15	-87.78	45	301	1632	1600	32.40	50.371	
4800	4366	4100	4083	32	15	-85.03	45	301	1653	1621	32.52	50.833	
4850	4375	4084	4068	33	15	-81.98	40	304	1674	1641	32.57	51.385	
4900	4380	4078	4062	33	15	-79.65	38	305	1693	1661	32.73	51.737	
4937	4381	4073	4057	33	15	-78.09	36	306	1707	1674	32.87	51.948	
5000	4381	4050	4036	34	15	-77.32	30	310	1731	1698	33.03	52.413	
5100	4380	4050	4036	35	15	-77.32	30	310	1773	1739	33.63	52.724	
5200	4379	4050	4036	36	15	-77.32	30	310	1819	1785	34.27	53.093	
5300	4379	4031	4017	38	15	-76.65	26	313	1870	1835	34.78	53.757	
5400	4378	4022	4009	39	15	-76.36	24	314	1924	1888	35.38	54.377	
5500	4377	4000	3987	41	15	-75.61	19	316	1981	1946	35.86	55.250	
5600	4377	4000	3987	42	15	-75.61	19	316	2042	2006	36.50	55.945	
5700	4376	4000	3987	44	15	-75.61	19	316	2106	2069	37.11	56.737	
5800	4375	4000	3987	46	15	-75.61	19	316	2172	2134	37.69	57.623	
5900	4375	4000	3987	48	15	-75.61	19	316	2241	2203	38.24	58.597	
6000	4374	4000	3987	50	15	-75.61	19	316	2312	2273	38.76	59.653	
6100	4373	4000	3987	52	15	-75.61	19	316	2385	2346	39.24	60.785	
6200	4373	3978	3966	54	15	-74.85	15	318	2460	2420	39.54	62.212	
6300	4372	3974	3962	56	15	-74.72	15	318	2537	2497	39.94	63.507	
6400	4371	3971	3959	58	15	-74.61	14	318	2615	2575	40.32	64.857	
6500	4371	3950	3938	60	15	-73.88	11	319	2695	2654	40.54	66.467	
6600	4370	3950	3938	62	15	-73.88	11	319	2776	2735	40.89	67.877	
6700	4369	3950	3938	64	15	-73.88	11	319	2858	2816	41.22	69.331	
6800	4369	3950	3938	67	15	-73.88	11	319	2941	2899	41.52	70.826	
6900	4368	3950	3938	69	15	-73.88	11	319	3025	2983	41.81	72.358	
7000	4367	3950	3938	71	15	-73.88	11	319	3110	3068	42.07	73.924	
7100	4367	3950	3938	73	15	-73.88	11	319	3196	3154	42.32	75.520	
7200	4366	3950	3938	76	15	-73.88	11	319	3283	3240	42.56	77.143	
7300	4366	3950	3938	78	15	-73.88	11	319	3370	3328	42.78	78.792	
7400	4365	3950	3938	80	15	-73.88	11	319	3459	3416	42.98	80.464	
7500	4364	3950	3938	83	15	-73.88	11	319	3547	3504	43.18	82.157	
7600	4364	3950	3938	85	15	-73.88	11	319	3637	3594	43.36	83.869	
7700	4363	3950	3938	87	15	-73.88	11	319	3727	3683	43.54	85.598	
7800	4362	3950	3938	90	15	-73.88	11	319	3817	3774	43.70	87.343	
7900	4362	3950	3938	92	15	-73.88	11	319	3908	3864	43.86	89.103	
8000	4361	3950	3938	95	15	-73.88	11	319	3999	3955	44.01	90.876	
8100	4360	3950	3938	97	15	-73.88	11	319	4091	4047	44.15	92.661	
8200	4360	3950	3938	99	15	-73.88	11	319	4183	4139	44.29	94.457	
8300	4359	3950	3938	102	15	-73.88	11	319	4276	4231	44.42	96.263	
8400	4358	3950	3938	104	15	-73.88	11	319	4369	4324	44.54	98.078	
8500	4358	3950	3938	106	15	-73.88	11	319	4462	4417	44.66	99.901	
8600	4357	3950	3938	109	15	-73.88	11	319	4555	4510	44.78	101.732	
8700	4356	3950	3938	111	15	-73.88	11	319	4649	4604	44.89	103.570	
8800	4356	3950	3938	114	15	-73.88	11	319	4743	4698	44.99	105.413	
8900	4355	3950	3938	116	15	-73.88	11	319	4837	4792	45.09	107.262	
9000	4354	3950	3938	118	15	-73.88	11	319	4931	4886	45.19	109.116	
9100	4354	3950	3938	121	15	-73.88	11	319	5026	4981	45.29	110.975	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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			Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
9200	4353	3927	3916	123	15	-73.10	9	320	5120	5075	45.26	113.132			
9300	4352	3927	3915	126	15	-73.07	9	320	5215	5170	45.35	115.010			
9400	4352	3926	3914	128	15	-73.05	9	320	5311	5265	45.43	116.891			
9500	4351	3925	3913	131	15	-73.02	9	320	5406	5360	45.51	118.774			
9600	4350	3924	3913	133	15	-73.00	9	320	5501	5456	45.59	120.660			
9700	4350	3924	3912	135	15	-72.98	9	320	5597	5551	45.67	122.547			
9800	4349	3923	3911	138	15	-72.96	8	320	5693	5647	45.75	124.436			
9900	4348	3900	3888	140	15	-72.16	7	319	5789	5744	45.70	126.674			
10,000	4348	3900	3888	143	15	-72.16	7	319	5885	5840	45.78	128.558			
10,100	4347	3900	3888	145	15	-72.16	7	319	5982	5936	45.86	130.443			
10,200	4347	3900	3888	148	15	-72.16	7	319	6078	6032	45.93	132.328			
10,300	4346	3900	3888	150	15	-72.16	7	319	6174	6128	46.00	134.214			
10,400	4345	3900	3888	152	15	-72.16	7	319	6271	6225	46.08	136.099			
10,500	4345	3900	3888	155	15	-72.16	7	319	6368	6321	46.15	137.985			
10,600	4344	3900	3888	157	15	-72.16	7	319	6464	6418	46.22	139.870			
10,700	4343	3900	3888	160	15	-72.16	7	319	6561	6515	46.29	141.754			
10,800	4343	3900	3888	162	15	-72.16	7	319	6658	6612	46.35	143.637			
10,900	4342	3900	3888	165	15	-72.16	7	319	6755	6709	46.42	145.520			
11,000	4341	3900	3888	167	15	-72.16	7	319	6852	6806	46.49	147.401			
11,100	4341	3900	3888	170	15	-72.16	7	319	6949	6903	46.55	149.280			
11,200	4340	3900	3888	172	15	-72.16	7	319	7047	7000	46.62	151.158			
11,300	4339	3900	3888	174	15	-72.16	7	319	7144	7097	46.68	153.035			
11,347	4339	3900	3888	176	15	-72.16	7	319	7190	7144	46.71	153.924			

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	20	20	19	0.46	42.719		
100	100	100	100	0	0	90.00	0	20	20	19	1.18	16.750		
200	200	200	200	1	1	90.00	0	20	20	18	1.90	10.417		
300	300	300	300	1	1	90.00	0	20	20	17	2.61	7.559		
400	400	400	400	1	1	90.00	0	20	20	17	2.97	6.648 CC, ES		
450	450	450	450	2	1	90.00	0	20	20	17	3.32	6.156		
500	500	500	500	2	2	-123.93	0	20	20	22	3.99	6.451		
600	600	599	599	2	2	-128.02	-1	23	26	32	4.68	7.818		
700	700	697	697	2	2	-132.54	-3	30	37	48	5.38	9.849		
800	799	794	794	3	3	-135.76	-6	40	53	69	6.09	12.288		
900	898	890	888	3	3	-137.77	-9	52	75	95	6.83	14.882		
1000	997	985	982	4	3	-139.17	-14	67	102	124	7.59	17.289		
1100	1094	1081	1077	4	4	-140.76	-18	82	131	155	8.37	19.551		
1200	1191	1175	1170	5	4	-142.38	-23	98	164	190	9.16	21.688		
1300	1288	1269	1262	5	5	-143.93	-27	113	199	227	9.97	23.745		
1400	1383	1361	1353	6	5	-145.37	-31	127	237	267	10.78	25.738		
1500	1477	1452	1443	6	6	-146.69	-36	142	278	280	11.04	26.338		
1531	1506	1480	1470	7	6	-147.07	-37	146	291	309	11.60	27.635		
1600	1570	1542	1531	7	6	-148.16	-40	156	321	351	12.42	29.309		
1700	1663	1632	1620	8	6	-149.41	-44	171	364	394	13.24	30.774		
1800	1756	1722	1708	9	7	-150.40	-48	185	407	437	14.06	32.062		
1900	1849	1812	1797	9	7	-151.21	-52	199	451	480	14.89	33.202		
2000	1942	1901	1886	10	8	-151.87	-57	214	494	522	15.73	34.217		
2100	2034	1991	1974	11	8	-152.42	-61	228	538	565	16.56	35.126		
2200	2127	2081	2063	12	8	-152.89	-65	243	582	608	17.40	35.943		
2300	2220	2171	2151	12	9	-153.29	-69	257	625	651	18.24	36.682		
2400	2313	2261	2240	13	9	-153.65	-73	271	669	694	19.09	37.353		
2500	2406	2351	2329	14	10	-153.95	-78	286	713	737	19.93	37.965		
2600	2499	2441	2417	15	10	-154.23	-82	300	757	780	20.78	38.524		
2700	2592	2531	2506	15	11	-154.47	-86	314	800	823	21.63	39.038		
2800	2685	2620	2595	16	11	-154.69	-90	329	844	866	22.47	39.511		
2900	2778	2710	2683	17	11	-154.89	-94	343	888	908	23.32	39.948		
3000	2871	2800	2772	18	12	-155.06	-99	358	932	951	24.18	40.353		
3100	2964	2890	2860	19	12	-155.23	-103	372	976	994	25.03	40.729		
3200	3057	2980	2949	19	13	-155.38	-107	386	1019	1037	25.88	41.079		
3300	3150	3070	3038	20	13	-155.51	-111	401	1063	1080	26.74	41.406		
3400	3243	3160	3126	21	14	-155.64	-115	415	1107	1123	27.59	41.711		
3500	3336	3249	3215	22	14	-155.75	-120	430	1151	1166	28.44	41.998		
3600	3429	3339	3303	23	14	-155.86	-124	444	1195	1209	29.30	42.266		
3700	3522	3429	3392	23	15	-155.96	-128	458	1238	1252	30.16	42.519		
3800	3615	3519	3481	24	15	-156.05	-132	473	1282	1295	31.01	42.757		
3900	3708	3609	3569	25	16	-156.14	-136	487	1326	1338	31.87	42.982		
4000	3801	3699	3658	26	16	-156.22	-141	502	1370	1381	32.73	43.195		
4100	3894	3789	3746	27	17	-156.30	-145	516	1414	1391	32.93	43.243		
4123	3915	3810	3767	27	17	-156.31	-146	519	1424	1402	33.16	43.290		
4150	3940	3834	3791	27	17	-148.37	-147	523	1436	1423	33.61	43.342		
4200	3986	3879	3835	27	17	-135.24	-149	530	1457	1442	34.06	43.349		
4250	4031	3923	3879	28	17	-124.60	-151	537	1477	1461	34.52	43.318		
4300	4075	3968	3923	28	17	-116.21	-153	545	1495	1513	34.96	43.287		
4350	4116	4007	3962	29	18	-109.60	-155	551	1513	1495	35.38	43.252		
4400	4156	4042	3995	29	18	-104.27	-158	558	1530	1510	35.84	43.127		
4450	4194	4077	4029	29	18	-100.01	-163	566	1546					

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 704H - Slot 2
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:	704H	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	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
4500	4229	4113	4063	30	18	-96.60	-169	576	1561	1524	36.37	42.910	
4550	4260	4150	4097	30	19	-93.89	-178	588	1574	1537	36.96	42.590	
4600	4289	4189	4132	31	19	-91.78	-188	602	1586	1549	37.64	42.149	
4650	4314	4229	4166	31	19	-90.17	-201	618	1597	1559	38.41	41.590	
4700	4335	4271	4201	31	20	-89.03	-217	637	1607	1568	39.28	40.905	
4750	4352	4315	4234	32	20	-88.30	-236	658	1615	1575	40.28	40.091	
4800	4366	4362	4268	32	21	-87.97	-258	682	1621	1580	41.42	39.146	
4850	4375	4411	4300	33	21	-88.00	-283	710	1626	1584	42.72	38.075	
4900	4380	4464	4330	33	22	-88.40	-313	741	1630	1586	44.18	36.887	
4937	4381	4506	4351	33	22	-88.94	-339	767	1631	1586	45.40	35.931	
5000	4381	4582	4382	34	24	-90.05	-388	816	1633	1585	47.72	34.212	
5100	4380	4722	4413	35	26	-91.15	-486	910	1634	1582	52.14	31.330	
5200	4379	4840	4415	36	28	-91.24	-572	990	1633	1576	56.28	29.007	
5300	4379	4940	4414	38	30	-91.24	-646	1058	1631	1571	60.14	27.127	
5400	4378	5040	4413	39	32	-91.23	-719	1126	1630	1566	64.14	25.414	
5500	4377	5140	4412	41	34	-91.22	-793	1194	1629	1561	68.27	23.858	
5600	4377	5240	4411	42	36	-91.21	-866	1262	1627	1555	72.50	22.449	
5700	4376	5340	4410	44	38	-91.20	-940	1330	1626	1549	76.81	21.171	
5800	4375	5440	4409	46	41	-91.20	-1013	1397	1625	1544	81.20	20.011	
5900	4375	5540	4408	48	43	-91.19	-1087	1465	1624	1538	85.65	18.957	
6000	4374	5640	4407	50	45	-91.18	-1160	1533	1622	1532	90.15	17.996	
6100	4373	5740	4406	52	47	-91.17	-1234	1601	1621	1526	94.70	17.119	
6200	4373	5840	4406	54	49	-91.16	-1307	1669	1620	1521	99.28	16.316	
6300	4372	5940	4405	56	52	-91.16	-1381	1737	1619	1515	103.90	15.578	
6400	4371	6040	4404	58	54	-91.15	-1454	1804	1617	1509	108.54	14.900	
6500	4371	6140	4403	60	56	-91.14	-1528	1872	1616	1503	113.21	14.274	
6600	4370	6240	4402	62	59	-91.13	-1601	1940	1615	1497	117.91	13.695	
6700	4369	6340	4401	64	61	-91.12	-1674	2008	1613	1491	122.62	13.158	
6800	4369	6440	4400	67	63	-91.12	-1748	2076	1612	1485	127.35	12.659	
6900	4368	6540	4399	69	66	-91.11	-1821	2143	1611	1479	132.10	12.194	
7000	4367	6640	4398	71	68	-91.10	-1895	2211	1610	1473	136.86	11.761	
7100	4367	6740	4397	73	71	-91.09	-1968	2279	1608	1467	141.64	11.355	
7200	4366	6840	4396	76	73	-91.08	-2042	2347	1607	1461	146.42	10.975	
7300	4366	6940	4396	78	75	-91.08	-2115	2415	1606	1455	151.22	10.619	
7400	4365	7040	4395	80	78	-91.07	-2189	2483	1604	1448	156.02	10.284	
7500	4364	7140	4394	83	80	-91.06	-2262	2550	1603	1442	160.84	9.968	
7600	4364	7240	4393	85	83	-91.05	-2336	2618	1602	1436	165.66	9.670	
7700	4363	7340	4392	87	85	-91.04	-2409	2686	1601	1430	170.49	9.389	
7800	4362	7440	4391	90	87	-91.03	-2483	2754	1599	1424	175.33	9.122	
7900	4362	7540	4390	92	90	-91.03	-2556	2822	1598	1418	180.17	8.870	
8000	4361	7640	4389	95	92	-91.02	-2630	2889	1597	1412	185.02	8.631	
8100	4360	7740	4388	97	95	-91.01	-2703	2957	1596	1406	189.87	8.403	
8200	4360	7840	4387	99	97	-91.00	-2776	3025	1594	1400	194.73	8.187	
8300	4359	7940	4386	102	100	-90.99	-2850	3093	1593	1393	199.59	7.981	
8400	4358	8040	4386	104	102	-90.98	-2923	3161	1592	1387	204.45	7.785	
8500	4358	8140	4385	106	104	-90.98	-2997	3229	1590	1381	209.32	7.598	
8600	4357	8240	4384	109	107	-90.97	-3070	3296	1589	1375	214.20	7.419	
8700	4356	8340	4383	111	109	-90.96	-3144	3364	1588	1369	219.07	7.248	
8800	4356	8440	4382	114	112	-90.95	-3217	3432	1587	1363	223.95	7.085	
8900	4355	8540	4381	116	114	-90.94	-3291	3500	1585	1356	228.84	6.928	
9000	4354	8640	4380	118	117	-90.93	-3364	3568	1584	1350	233.72	6.778	
9100	4354	8740	4379	121	119	-90.92	-3438	3636	1583	1344	238.61	6.633	

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



Lonestar Consulting, LLC

Anticollision Report



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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						Rule Assigned:						Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
9200	4353	8840	4378	123	121	-90.92	-3511	3703	1582	1338	243.50	6.495			
9300	4352	8940	4377	126	124	-90.91	-3585	3771	1580	1332	248.39	6.362			
9400	4352	9040	4376	128	126	-90.90	-3658	3839	1579	1326	253.29	6.234			
9500	4351	9140	4375	131	129	-90.89	-3732	3907	1578	1319	258.18	6.111			
9600	4350	9240	4375	133	131	-90.88	-3805	3975	1576	1313	263.08	5.992			
9700	4350	9340	4374	135	134	-90.87	-3879	4042	1575	1307	267.98	5.878			
9800	4349	9440	4373	138	136	-90.87	-3952	4110	1574	1301	272.89	5.767			
9900	4348	9540	4372	140	139	-90.86	-4025	4178	1573	1295	277.79	5.661			
10,000	4348	9640	4371	143	141	-90.85	-4099	4246	1571	1289	282.69	5.558			
10,100	4347	9740	4370	145	143	-90.84	-4172	4314	1570	1282	287.60	5.459			
10,200	4347	9840	4369	148	146	-90.83	-4246	4382	1569	1276	292.51	5.363			
10,300	4346	9940	4368	150	148	-90.82	-4319	4449	1567	1270	297.42	5.270			
10,400	4345	10,040	4367	152	151	-90.81	-4393	4517	1566	1264	302.33	5.180			
10,500	4345	10,139	4366	155	153	-90.80	-4466	4585	1565	1258	307.24	5.093			
10,600	4344	10,239	4365	157	156	-90.80	-4540	4653	1564	1251	312.16	5.009			
10,700	4343	10,339	4365	160	158	-90.79	-4613	4721	1562	1245	317.07	4.927			
10,800	4343	10,439	4364	162	161	-90.78	-4687	4788	1561	1239	321.98	4.848			
10,900	4342	10,539	4363	165	163	-90.77	-4760	4856	1560	1233	326.90	4.771			
11,000	4341	10,639	4362	167	165	-90.76	-4834	4924	1559	1227	331.82	4.697			
11,100	4341	10,739	4361	170	168	-90.75	-4907	4992	1557	1221	336.74	4.625			
11,200	4340	10,839	4360	172	170	-90.74	-4981	5060	1556	1214	341.66	4.554			
11,300	4339	10,940	4359	174	173	-90.74	-5055	5128	1555	1208	346.60	4.485			
11,335	4339	10,954	4359	175	173	-90.73	-5065	5138	1554	1207	347.64	4.471			
11,347	4339	10,954	4359	176	173	-90.73	-5065	5138	1554	1207	347.82	4.469 SF			

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Lonestar Consulting, LLC

Anticollision Report

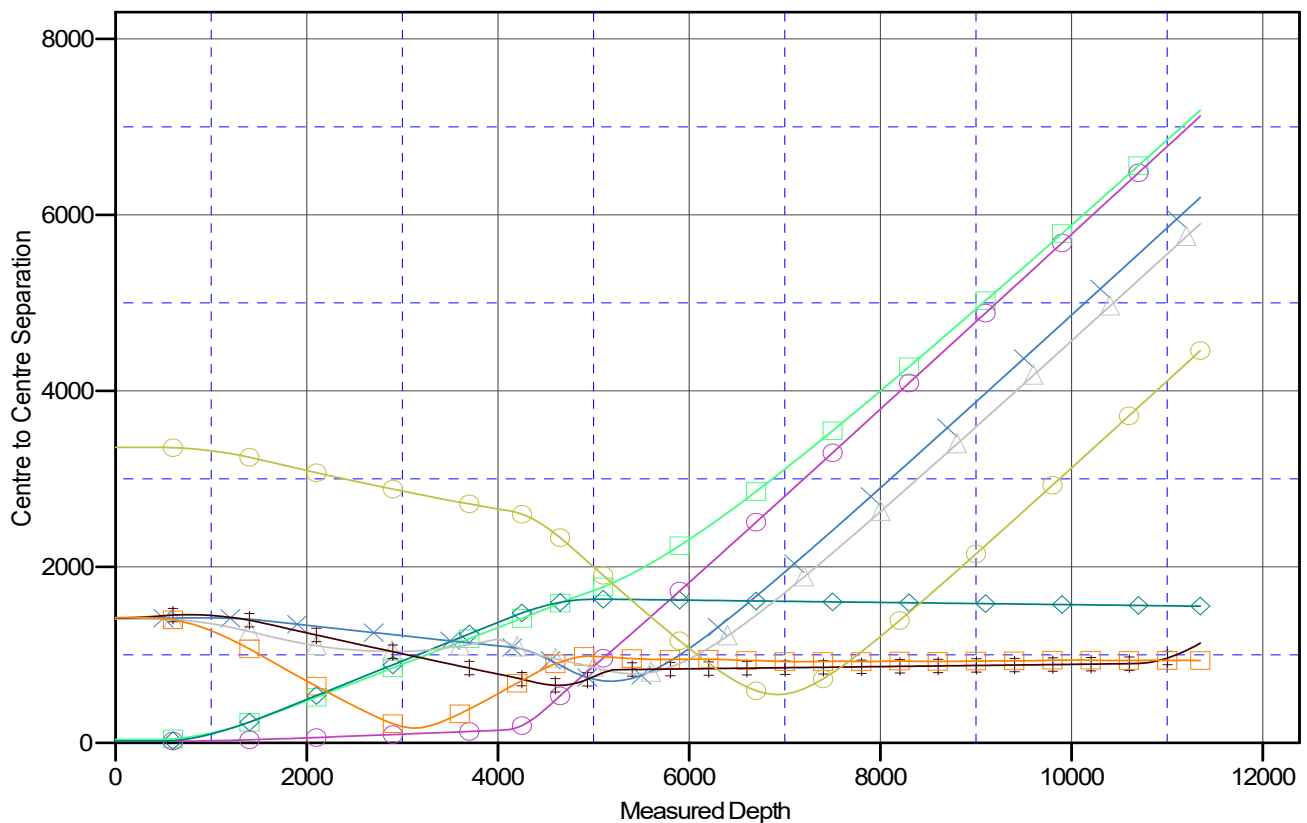


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Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

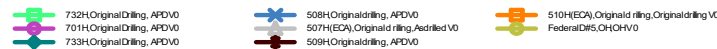
Reference Depths are relative to GL 6711' & RKB 14' @ 6725ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: 704H - Slot 2
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.03°

Ladder Plot



LEGEND



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Lonestar Consulting, LLC

Anticollision Report



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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

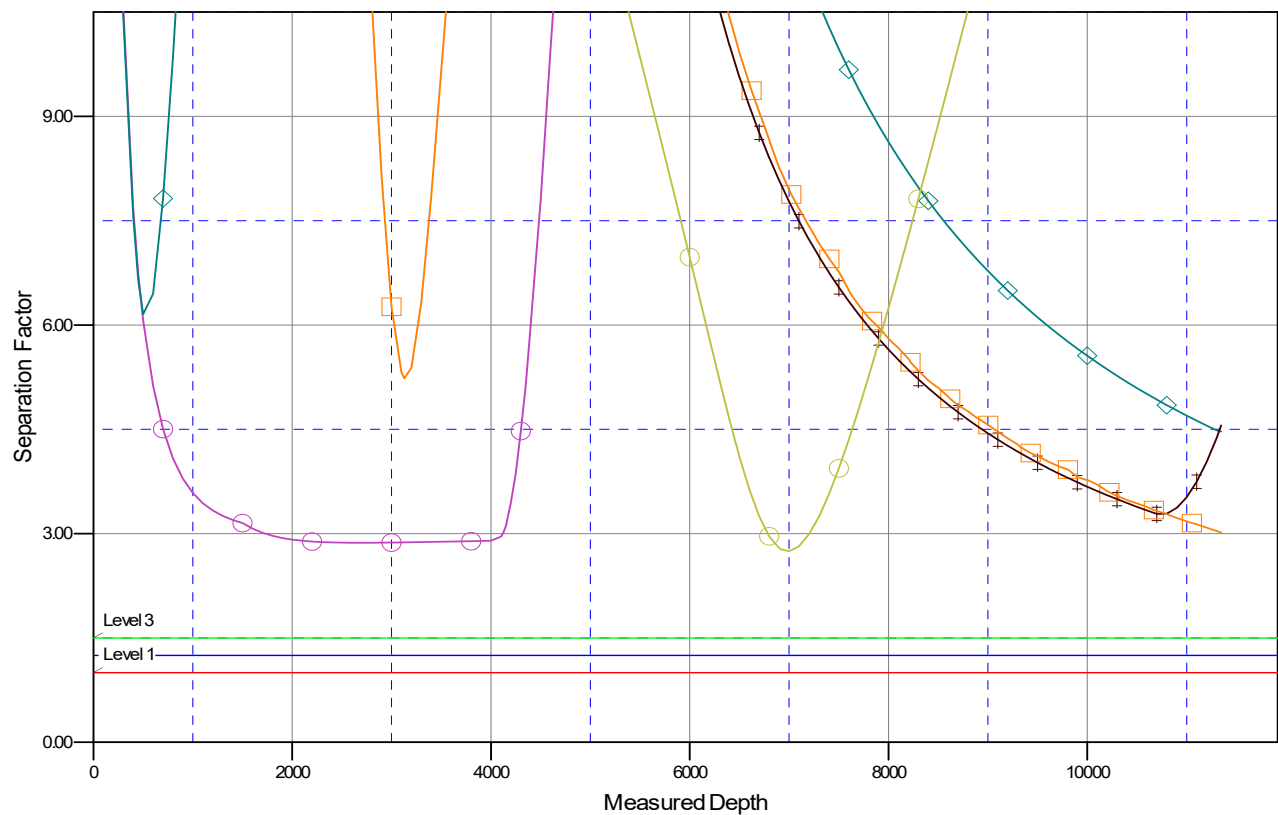
Central Meridian is -107.83333333

Coordinates are relative to: 704H - Slot 2

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)	508H(Original drilling, APDVO)	510H(ECA, Original riling, Original drilling V0)
701H(Original Drilling, APDVO)	507H(ECA, Original riling, As drilled V0)	Federal DWS, CH, OH V0
733H(Original Drilling, APDVO)	509H(Original drilling, APDVO)	

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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

#704H NAGEEZI UNIT

Lease: NMNM8005 Agreement: NMNM132981A

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

San Juan County, New Mexico

BH: SWSE Section 10, 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 378730

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	378730
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