

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 9. API Well No. 30-045-38297		
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State		
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 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) <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 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). </td> <td style="width: 50%; vertical-align: top;"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM. </td> </tr> </table>			1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 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).	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
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25. Signature Title		Name (Printed/Typed) Date		
Approved by (Signature) Title		Name (Printed/Typed) Office Date		

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)

- | | |
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5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature Title	Name (Printed/Typed) Office	Date Date
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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)



DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38297	² Pool Code 98080	³ Pool Name NAGEEZI UNIT MANCOS OIL POOL
⁴ Property Code 325268	⁵ Property Name NAGEEZI UNIT	⁶ Well Number 217H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6826'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	26	24N	9W		1724'	SOUTH	762'	WEST	SAN JUAN

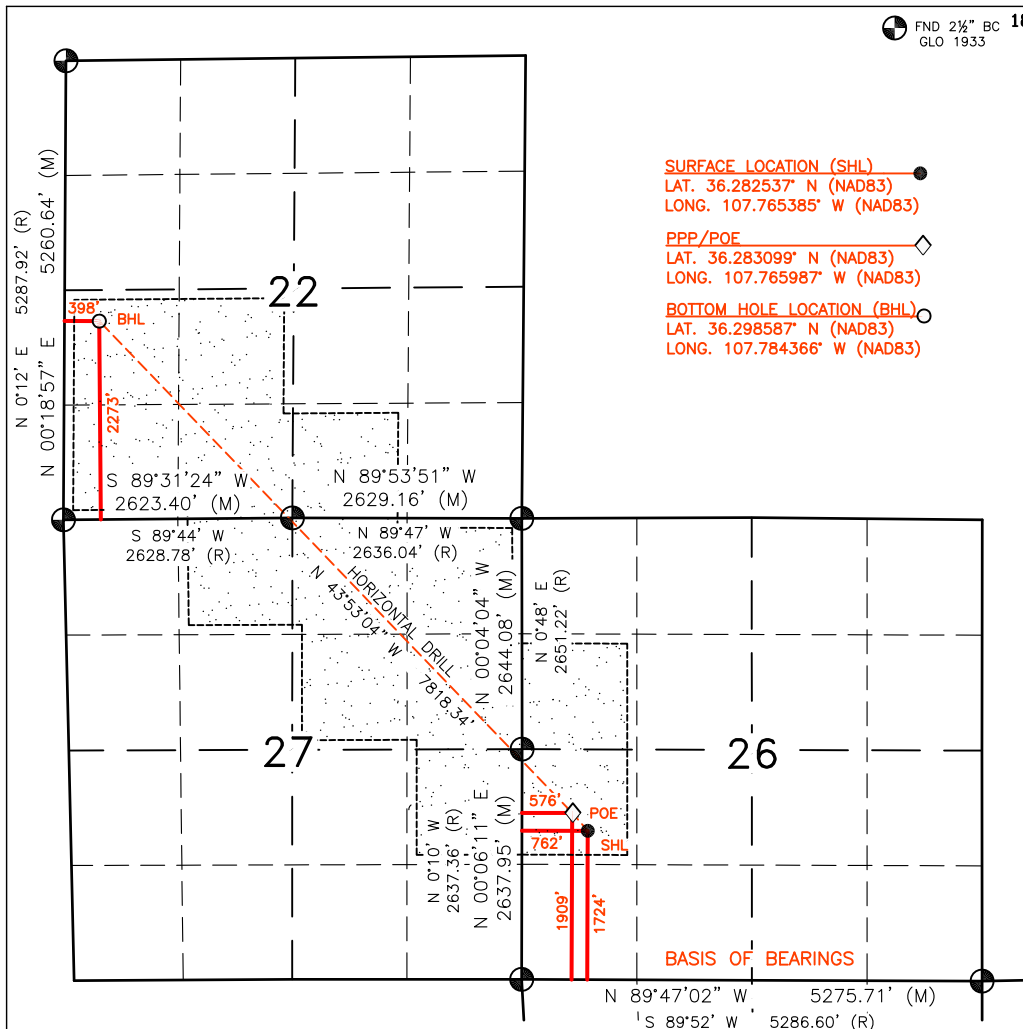
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	24N	9W		2273'	SOUTH	398'	WEST	SAN JUAN

¹² Dedicated Acres PENETRATED SPACING UNIT; SEC 26: NW/SW & SW/NW (80 AC.); SEC 27: NE/SE, NE/4 & NE/NW (240 AC.); SEC 22: SW/SE & SW/4 (200 AC.) = 520 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13856 R-13856A
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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

16



FND 2 1/2" BC
GLO 1933

¹⁷ OPERATOR CERTIFICATION

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

Shaw-Marie Ford 07/19/21
Signature Date

Shaw-Marie Ford
Printed Name

sford@djrlc.com
E-mail Address

SURVEYOR CERTIFICATION

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

NOVEMBER 9, 2020

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number 11393

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State of New Mexico
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

DJR OPERATING, LLC
NAGEEZI UNIT #217H

SE CORNER SEC 26
LAT. 36.277796° N (NAD83)
LONG. 107.750059° W (NAD83)

SW CORNER SEC 26
LAT. 36.277862° N (NAD83)
LONG. 107.767958° W (NAD83)

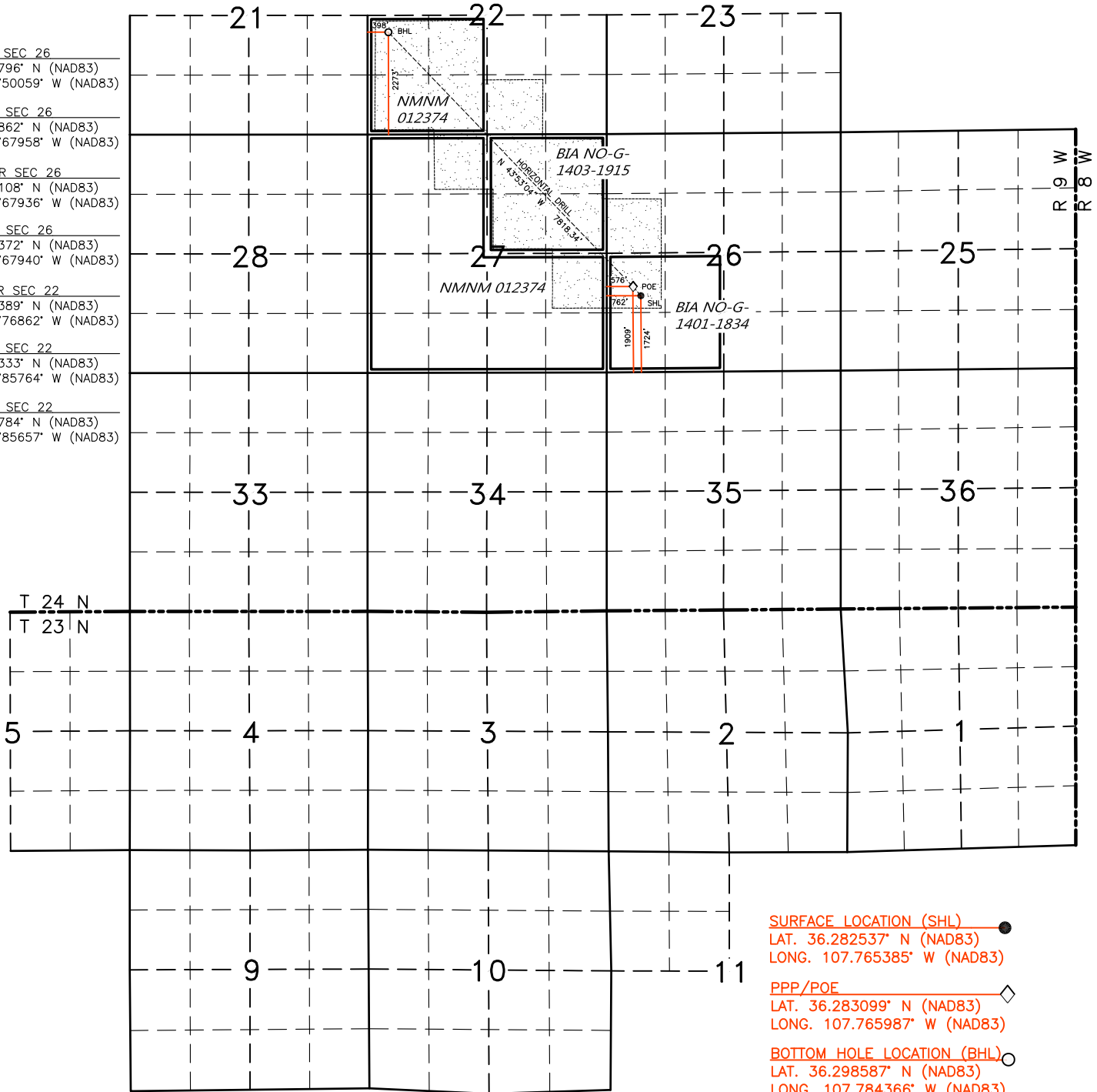
W/4 CORNER SEC 26
LAT. 36.285108° N (NAD83)
LONG. 107.767936° W (NAD83)

NW CORNER SEC 26
LAT. 36.292372° N (NAD83)
LONG. 107.767940° W (NAD83)

S/4 CORNER SEC 22
LAT. 36.292389° N (NAD83)
LONG. 107.776862° W (NAD83)

SW CORNER SEC 22
LAT. 36.292333° N (NAD83)
LONG. 107.785764° W (NAD83)

NW CORNER SEC 22
LAT. 36.306784° N (NAD83)
LONG. 107.785657° W (NAD83)



SURFACE LOCATION (SHL) ●
LAT. 36.282537° N (NAD83)
LONG. 107.765385° W (NAD83)

PPP/POE ◇
LAT. 36.283099° N (NAD83)
LONG. 107.765987° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
LAT. 36.298587° N (NAD83)
LONG. 107.784366° W (NAD83)

PENETRATED SPACING UNIT;
SEC 26: NW/SW & SW/NW (80 AC.); SEC 27: NE/SE, NE/4 &
NE/NW (240 AC.); SEC 22: SW/SE & SW/4 (200 AC.)
= 520 ACRES

TOTAL 10,415.12 ACRES: T24N R9W, SEC. 21-23 (S/2), 25-28,
33-36, 1-4, 9-10 (ALL); T23N R9W, SEC. 5 (W/2), 11 (NW/4) -
UNDIVIDED UNIT

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

Submit Electronically
Via E-permitting

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:** 02 / 08 / 2023

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 213H	TBD	L-26-24N-09W	1798 FSL x 792 FWL	292	436	104
Nageezi Unit 214H	TBD	L-26-24N-09W	1779 FSL x 784 FWL	287	429	103
Nageezi Unit 215H	TBD	L-26-24N-09W	1761 FSL x 777 FWL	399	596	142
Nageezi Unit 216H	TBD	L-26-24N-09W	1742 FSL x 769 FWL	263	392	94
Nageezi Unit 217H	TBD	L-26-24N-09W	1724 FSL x 762 FWL	381	570	136
Nageezi Unit 218H	TBD	L-26-24N-09W	1705 FSL x 754 FWL	236	353	84

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 213H	TBD	08/01/2023	08/11/2023	12/15/2023	12/25/2023	12/27/2023
Nageezi Unit 214H	TBD	08/02/2023	08/12/2023	12/15/2023	12/27/2023	12/29/2023
Nageezi Unit 215H	TBD	08/03/2023	08/13/2023	12/15/2023	12/28/2023	12/30/2023
Nageezi Unit 216H	TBD	08/04/2023	08/14/2023	12/15/2023	12/29/2023	12/31/2023
Nageezi Unit 217H	TBD	08/05/2023	08/15/2023	12/15/2023	12/30/2023	01/01/2024
Nageezi Unit 218H	TBD	08/06/2023	08/16/2023	12/15/2023	12/31/2023	01/02/2024

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: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrlc.com
Date: 02/08/2023
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 213H, 214H, 215H, 216H, 217H and 218H
NWSW L-26-24N-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 213H, 214H, 215H, 216H, 217H and 218H
NWSW L-26-24N-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:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 213H, 214H, 215H, 216H, 217H and 218H
NWSW L-26-24N-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 is designed with an auto ignition system.
3. Flare stacks will 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.



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OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Nageezi Unit 213H, 214H, 215H, 216H, 217H and 218H
NWSW L-26-24N-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 0



DRILLING PLAN

Nageezi Unit # 217H

Sam Juan County, New Mexico

Surface Location

762-ft FWL & 1724-ft FSL
 Sec 26 T24N R09W
 Graded Elevation 6826' MSL
 RKB Elevation 6840' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2825370° N
 Longitude 107.7653850° W

Kick Off Point for Horizontal Build Curve

4410-ft MD
 4394-ft TVD

Local Coordinates (from SHL)

250-ft South
 256-ft East

Heel Location (Pay zone entry)

576-ft FWL & 1909-ft FSL
 Sec 26 T24N R09W

Heel Geographical Coordinates (NAD-83)

Latitude 36.2830987° N
 Longitude 107.76598710° W

Bottom Hole Location (TD)

398-ft FWL & 2273-ft FSL
 Sec 22 T24N R09W

BHL Geographical Coordinates (NAD-83)

Latitude 36.29858729° N
 Longitude 107.7843664° W

Well objectives

This well is planned as a 7820-ft lateral in the Gallup B sand.

Bottom Hole temperature and pressure

The temperature in the Gallup B horizontal objective is 140°F. Bottom hole pressure in the Gallup B 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	816	815	Sd	W	8.3	8.4 – 8.8
Kirtland	924	923	Sh	-	8.3	8.4 – 8.8
Fruitland	1226	1223	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1564	1560	Sd	W	8.3	9.0 - 9.5
Lewis	1666	1661	Sh	-		9.0 - 9.5
Chacra	2380	2372	Sd	-	8.3	9.0 - 9.5
Menefee	3105	3094	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4041	4026	Sd	-	8.3	9.0 - 9.5
Mancos	4214	4198	Sh	-		9.0 - 9.5
Mancos Silt	4549	4532	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5179	5024	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5290	5064	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5463	5089	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	5413	surf	5087	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5136	13282	5004	5156	5136

Note: all casing will be new

Rev 0



Casing Design Load Cases

		Casing String		
Description		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

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

Cement Design

9-5/8" Surface Casing

	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
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	3910-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	379	240
Volume (bbls)	158	64
Volume (cu.ft.)	888	359
Excess %	55	55



Rev 0

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5136-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	685
Volume (bbls)	191
Volume (cu.ft)	1070
Excess %	40

Wellhead & Pressure Control

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

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

Mud Program

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

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 5413	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5413 – 13282	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

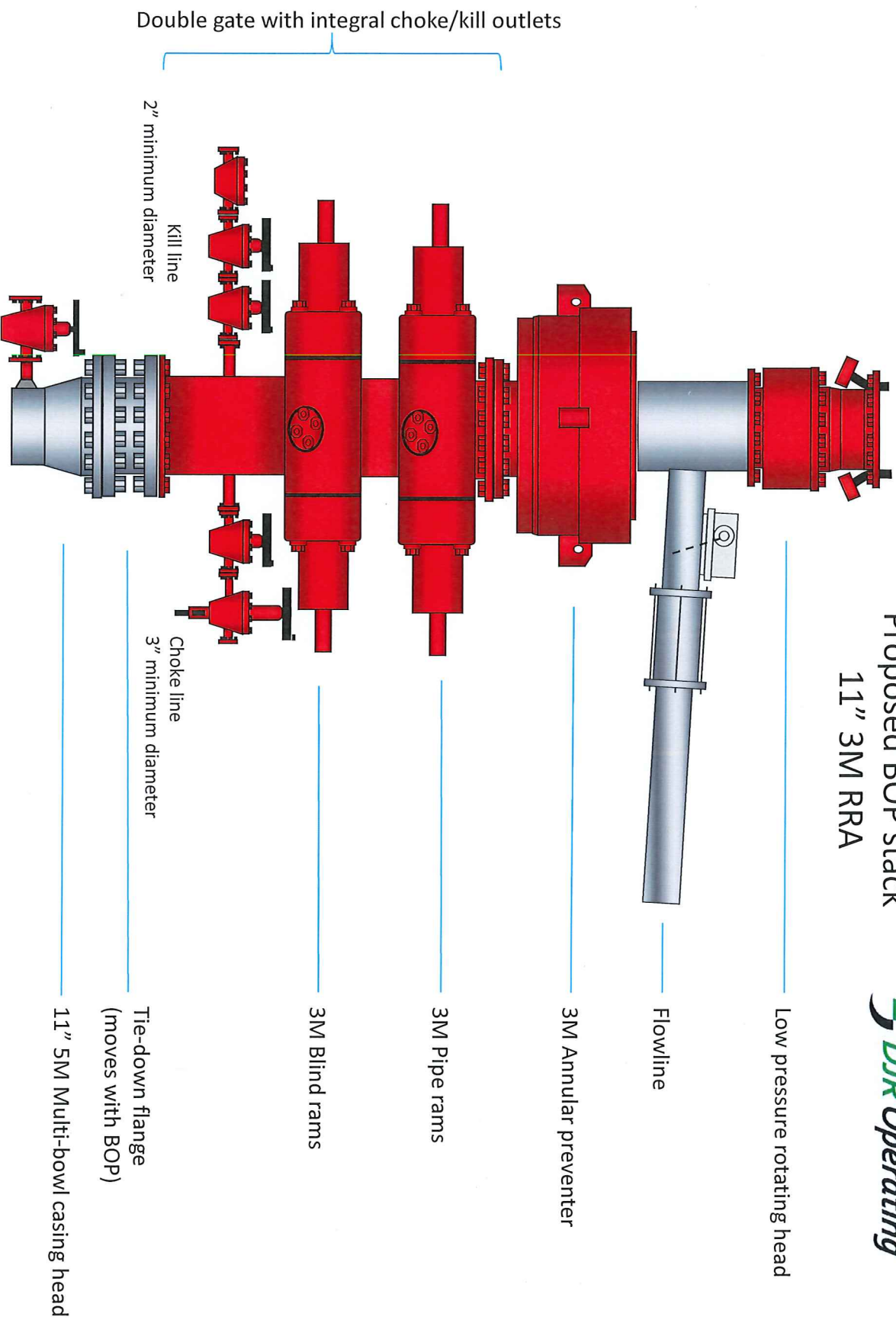
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



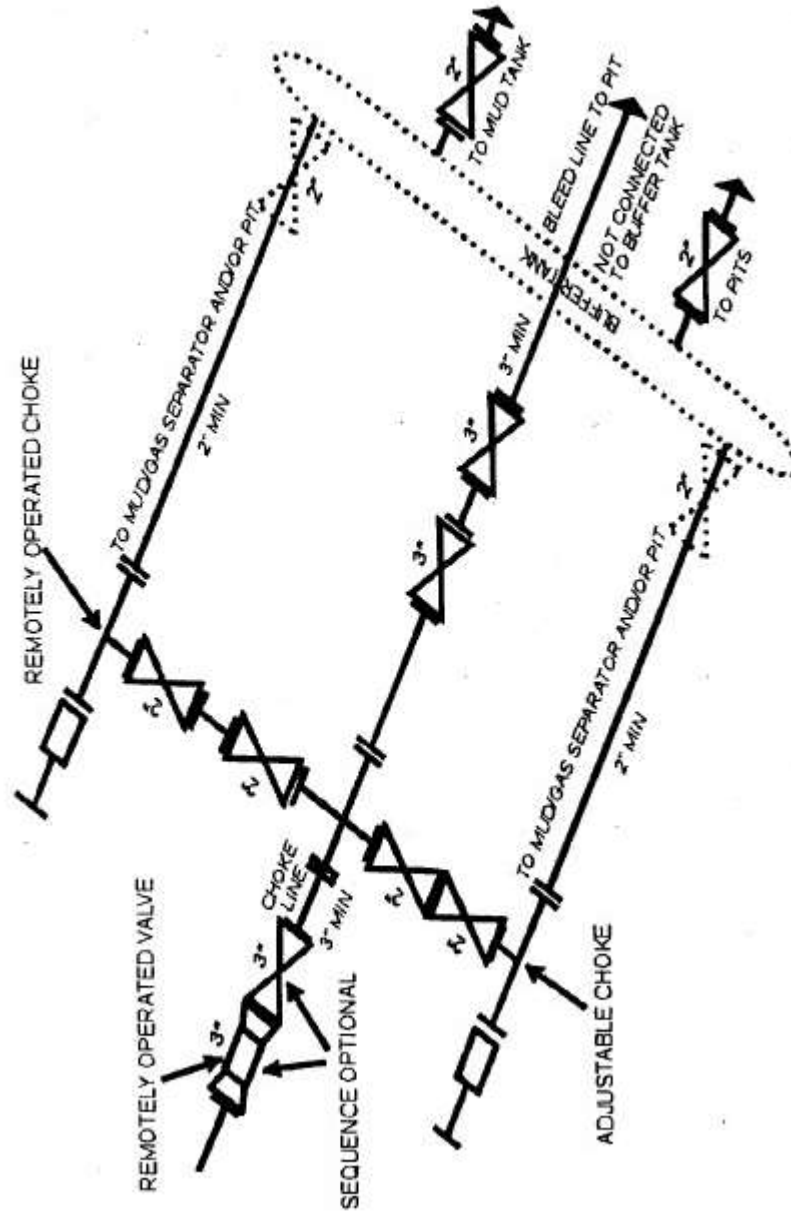
Proposed BOP stack 11" 3M RRA



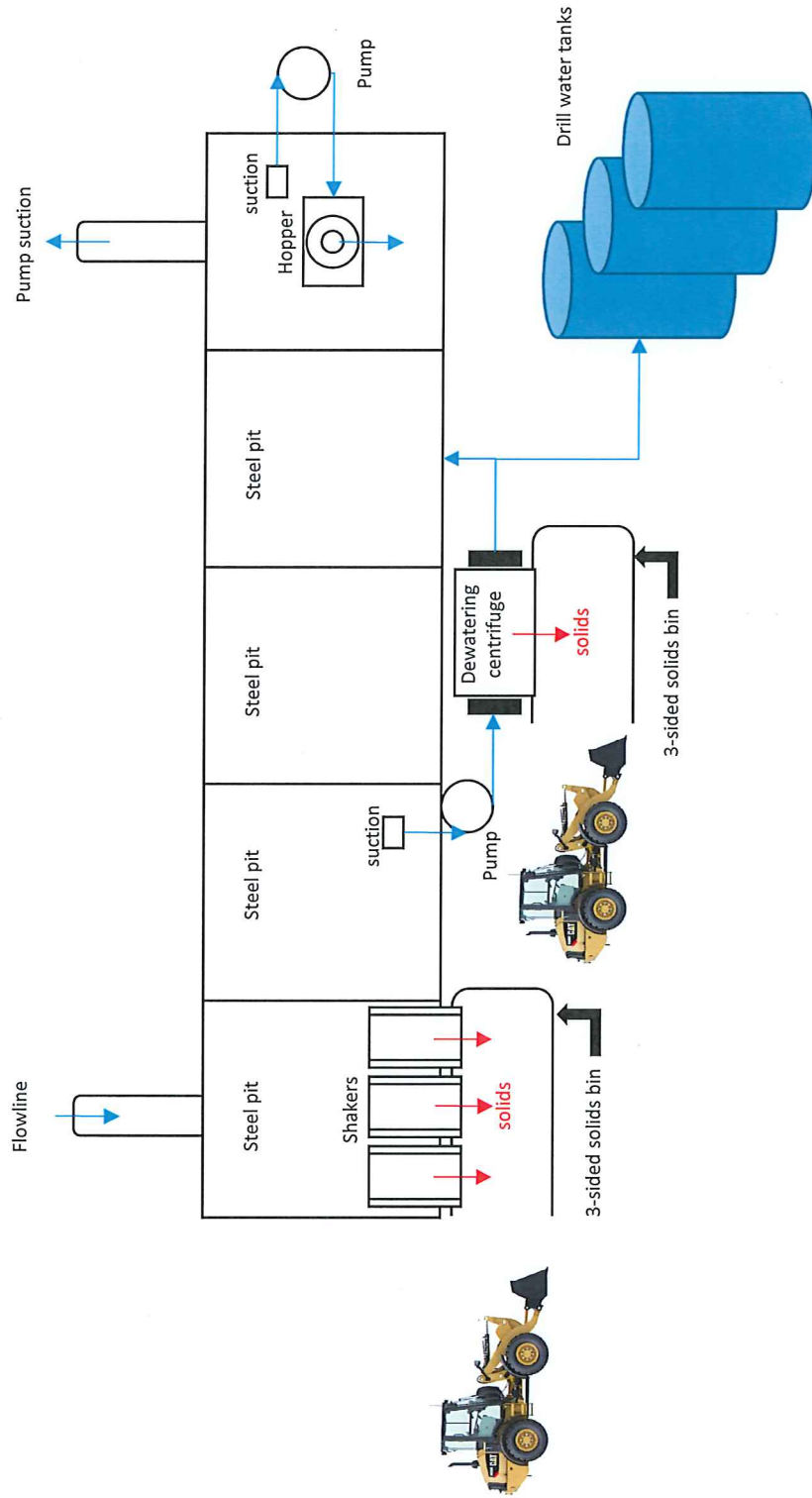


Choke Manifold

Actual system to conform with Onshore Order 2



Closed Loop Mud System





Company: DJR Operating
Project: Nageezi Unit
Site: L26 2409
Well: # 217H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: # 217H

GL 6826' & RKB 14' @ 6840.00usft		Latitude	Longitude
+N/-S	+E/-W	Northing	Easting
0.00	0.00	1922149.78	2743117.99

DESIGN TARGET DETAILS

True Vertical Depth (1500 usft/in)	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
217H Heel	5089.00	204.47	-177.45	1922354.13	2742940.39	36.2830987	-107.7659871
217H Toe	5156.00	5843.26	-5593.22	1927989.12	2737520.67	36.2985873	-107.7643664

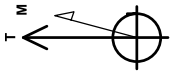
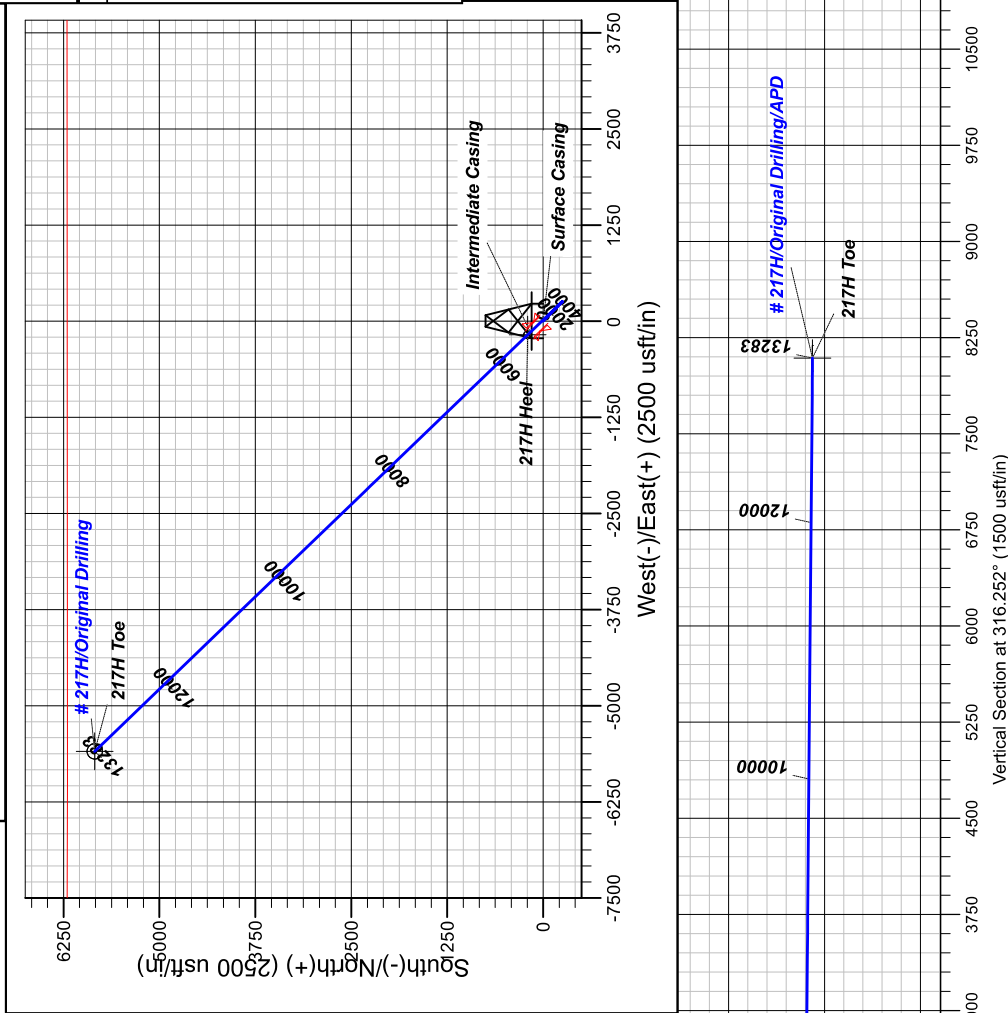
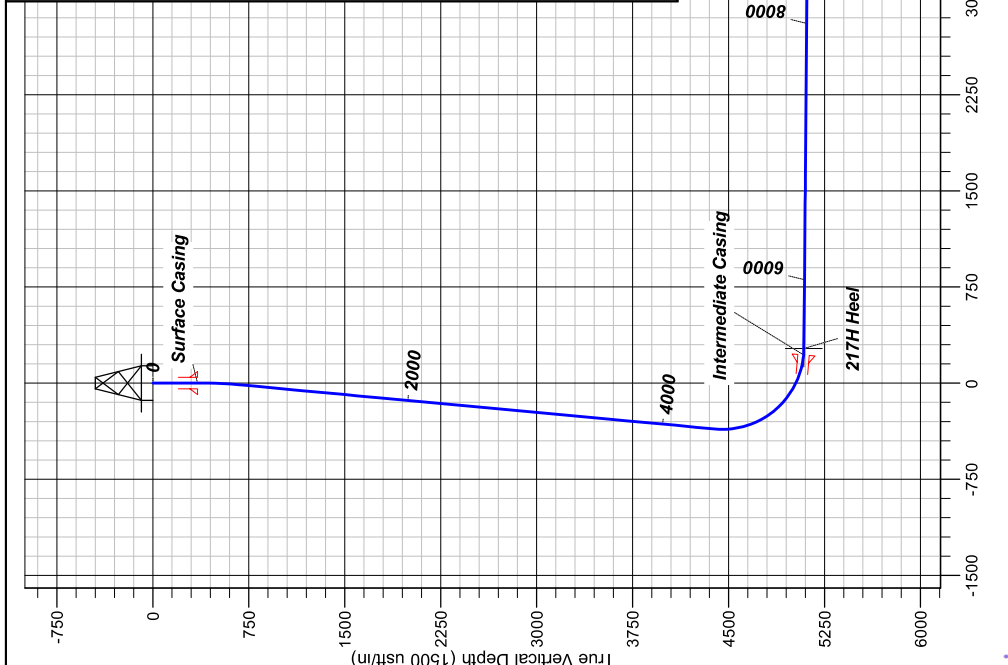
PROJECT DETAILS: Nageezi Unit

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

Plan: APD (# 217H/Original Drilling)
Created By: Janie Collins Date: 15:43, February 05 2021

SECTION DETAILS

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
	400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	
	665.04	5.30	134.304	664.67	8.56	-6.77	2.00	134.30	-12.24	
	4410.02	5.30	316.157	4389.62	-250.22	-175.35	0.00	-178.00	-35.43	217H Heel
	5465.02	89.51	316.157	5383.60	-204.22	-175.35	0.00	-178.00	-21.42	217H Toe
	13282.06	89.51	316.157	5156.00	5843.26	-5593.22	0.00	0.00	8088.75	



Azimuths to True North
Magnetic North: 8.83°
Magnetic Field
Strength: 49422.21 nT
Dip Angle: 62.15°
Date: 9/28/2020
Model: IGRF2015

CASING DETAILS

TVD	MD	Nearest
350.00	350.00	Surface Casing
5086.60	5413.33	Intermediate Casing

FORMATION DETAILS

MDPath	Formation
815.00	Ojo Alamo
923.00	Kirtland
1223.00	Fruitland
1560.00	Pictured Cliffs
1661.00	Lewis
2372.00	Chacra
3094.00	Menefee
4026.00	Point Lookout
4198.00	Mancos
4532.00	Mancos Silt
5024.00	Gallup A
5064.00	Gallup B



DJR Operating

Nageezi Unit

L26 2409

217H - Slot 1

Original Drilling

Plan: APD

Standard Planning Report

05 February, 2021





Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 217H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Project:	Nageezi Unit	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site:	L26 2409	North Reference:	True
Well:	# 217H	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	L26 2409				
Site Position:		Northing:	1,922,149.79 usft	Latitude:	36.2825370
From:	Lat/Long	Easting:	2,743,117.99 usft	Longitude:	-107.7653850
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.04 °

Well	# 217H - Slot 1					
Well Position	+N/-S	0.00 usft	Northing:	1,922,149.79 usft	Latitude:	36.2825370
	+E/-W	0.00 usft	Easting:	2,743,117.99 usft	Longitude:	-107.7653850
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,826.00 usft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/28/2020	8.88	62.91	49,422.51958047

Design	APD			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	316.252

Plan Survey Tool Program	Date	2/5/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	13,282.06	APD (Original Drilling)	MWD+HDGM	
			OWSG MWD + HDGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
665.04	5.30	134.304	664.67	-8.56	8.77	2.00	2.00	0.00	134.30	
4,410.02	5.30	134.304	4,393.62	-250.22	256.37	0.00	0.00	0.00	0.00	
5,463.43	89.51	316.157	5,089.00	204.47	-177.45	9.00	7.99	-16.91	-178.14	217H Heel
13,282.06	89.51	316.157	5,156.00	5,843.26	-5,593.22	0.00	0.00	0.00	0.00	217H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 217H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Project:	Nageezi Unit	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site:	L26 2409	North Reference:	True
Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	2.00	134.304	499.98	-1.22	1.25	-1.74	2.00	2.00	0.00
600.00	4.00	134.304	599.84	-4.87	4.99	-6.97	2.00	2.00	0.00
665.04	5.30	134.304	664.67	-8.56	8.77	-12.24	2.00	2.00	0.00
700.00	5.30	134.304	699.47	-10.81	11.08	-15.47	0.00	0.00	0.00
800.00	5.30	134.304	799.04	-17.27	17.69	-24.71	0.00	0.00	0.00
900.00	5.30	134.304	898.62	-23.72	24.30	-33.94	0.00	0.00	0.00
1,000.00	5.30	134.304	998.19	-30.17	30.91	-43.17	0.00	0.00	0.00
1,100.00	5.30	134.304	1,097.76	-36.62	37.53	-52.41	0.00	0.00	0.00
1,200.00	5.30	134.304	1,197.33	-43.08	44.14	-61.64	0.00	0.00	0.00
1,300.00	5.30	134.304	1,296.91	-49.53	50.75	-70.87	0.00	0.00	0.00
1,400.00	5.30	134.304	1,396.48	-55.98	57.36	-80.11	0.00	0.00	0.00
1,500.00	5.30	134.304	1,496.05	-62.44	63.97	-89.34	0.00	0.00	0.00
1,600.00	5.30	134.304	1,595.62	-68.89	70.58	-98.57	0.00	0.00	0.00
1,700.00	5.30	134.304	1,695.20	-75.34	77.19	-107.81	0.00	0.00	0.00
1,800.00	5.30	134.304	1,794.77	-81.79	83.81	-117.04	0.00	0.00	0.00
1,900.00	5.30	134.304	1,894.34	-88.25	90.42	-126.27	0.00	0.00	0.00
2,000.00	5.30	134.304	1,993.91	-94.70	97.03	-135.51	0.00	0.00	0.00
2,100.00	5.30	134.304	2,093.49	-101.15	103.64	-144.74	0.00	0.00	0.00
2,200.00	5.30	134.304	2,193.06	-107.61	110.25	-153.97	0.00	0.00	0.00
2,300.00	5.30	134.304	2,292.63	-114.06	116.86	-163.20	0.00	0.00	0.00
2,400.00	5.30	134.304	2,392.20	-120.51	123.48	-172.44	0.00	0.00	0.00
2,500.00	5.30	134.304	2,491.77	-126.96	130.09	-181.67	0.00	0.00	0.00
2,600.00	5.30	134.304	2,591.35	-133.42	136.70	-190.90	0.00	0.00	0.00
2,700.00	5.30	134.304	2,690.92	-139.87	143.31	-200.14	0.00	0.00	0.00
2,800.00	5.30	134.304	2,790.49	-146.32	149.92	-209.37	0.00	0.00	0.00
2,900.00	5.30	134.304	2,890.06	-152.78	156.53	-218.60	0.00	0.00	0.00
3,000.00	5.30	134.304	2,989.64	-159.23	163.14	-227.84	0.00	0.00	0.00
3,100.00	5.30	134.304	3,089.21	-165.68	169.76	-237.07	0.00	0.00	0.00
3,200.00	5.30	134.304	3,188.78	-172.14	176.37	-246.30	0.00	0.00	0.00
3,300.00	5.30	134.304	3,288.35	-178.59	182.98	-255.54	0.00	0.00	0.00
3,400.00	5.30	134.304	3,387.93	-185.04	189.59	-264.77	0.00	0.00	0.00
3,500.00	5.30	134.304	3,487.50	-191.49	196.20	-274.00	0.00	0.00	0.00
3,600.00	5.30	134.304	3,587.07	-197.95	202.81	-283.24	0.00	0.00	0.00
3,700.00	5.30	134.304	3,686.64	-204.40	209.43	-292.47	0.00	0.00	0.00
3,800.00	5.30	134.304	3,786.21	-210.85	216.04	-301.70	0.00	0.00	0.00
3,900.00	5.30	134.304	3,885.79	-217.31	222.65	-310.94	0.00	0.00	0.00
4,000.00	5.30	134.304	3,985.36	-223.76	229.26	-320.17	0.00	0.00	0.00
4,100.00	5.30	134.304	4,084.93	-230.21	235.87	-329.40	0.00	0.00	0.00
4,200.00	5.30	134.304	4,184.50	-236.66	242.48	-338.64	0.00	0.00	0.00
4,300.00	5.30	134.304	4,284.08	-243.12	249.09	-347.87	0.00	0.00	0.00
4,400.00	5.30	134.304	4,383.65	-249.57	255.71	-357.10	0.00	0.00	0.00
4,410.02	5.30	134.304	4,393.62	-250.22	256.37	-358.03	0.00	0.00	0.00
4,500.00	2.81	319.662	4,483.51	-251.44	257.92	-359.99	9.00	-2.77	-194.09
4,600.00	11.80	316.977	4,582.60	-242.08	249.34	-347.29	9.00	9.00	-2.68
4,700.00	20.80	316.607	4,678.48	-221.66	230.13	-319.25	9.00	9.00	-0.37
4,800.00	29.80	316.455	4,768.79	-190.68	200.75	-276.56	9.00	9.00	-0.15
4,900.00	38.80	316.369	4,851.32	-149.91	161.93	-220.27	9.00	9.00	-0.09
5,000.00	47.80	316.311	4,924.02	-100.35	114.63	-151.75	9.00	9.00	-0.06
5,100.00	56.80	316.268	4,985.11	-43.21	60.01	-72.71	9.00	9.00	-0.04



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 217H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Project:	Nageezi Unit	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site:	L26 2409	North Reference:	True
Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	65.80	316.232	5,033.08	20.08	-0.59	14.91	9.00	9.00	-0.04
5,300.00	74.80	316.202	5,066.75	87.98	-65.66	108.96	9.00	9.00	-0.03
5,400.00	83.80	316.174	5,085.30	158.82	-133.62	207.12	9.00	9.00	-0.03
5,463.43	89.51	316.157	5,089.00	204.47	-177.45	270.42	9.00	9.00	-0.03
5,500.00	89.51	316.157	5,089.31	230.85	-202.79	306.99	0.00	0.00	0.00
5,600.00	89.51	316.157	5,090.17	302.97	-272.05	406.98	0.00	0.00	0.00
5,700.00	89.51	316.157	5,091.03	375.09	-341.32	506.98	0.00	0.00	0.00
5,800.00	89.51	316.157	5,091.88	447.21	-410.59	606.98	0.00	0.00	0.00
5,900.00	89.51	316.157	5,092.74	519.33	-479.85	706.97	0.00	0.00	0.00
6,000.00	89.51	316.157	5,093.60	591.45	-549.12	806.97	0.00	0.00	0.00
6,100.00	89.51	316.157	5,094.46	663.58	-618.38	906.96	0.00	0.00	0.00
6,200.00	89.51	316.157	5,095.31	735.70	-687.65	1,006.96	0.00	0.00	0.00
6,300.00	89.51	316.157	5,096.17	807.82	-756.92	1,106.96	0.00	0.00	0.00
6,400.00	89.51	316.157	5,097.03	879.94	-826.18	1,206.95	0.00	0.00	0.00
6,500.00	89.51	316.157	5,097.88	952.06	-895.45	1,306.95	0.00	0.00	0.00
6,600.00	89.51	316.157	5,098.74	1,024.18	-964.72	1,406.95	0.00	0.00	0.00
6,700.00	89.51	316.157	5,099.60	1,096.30	-1,033.98	1,506.94	0.00	0.00	0.00
6,800.00	89.51	316.157	5,100.45	1,168.42	-1,103.25	1,606.94	0.00	0.00	0.00
6,900.00	89.51	316.157	5,101.31	1,240.54	-1,172.51	1,706.93	0.00	0.00	0.00
7,000.00	89.51	316.157	5,102.17	1,312.67	-1,241.78	1,806.93	0.00	0.00	0.00
7,100.00	89.51	316.157	5,103.02	1,384.79	-1,311.05	1,906.93	0.00	0.00	0.00
7,200.00	89.51	316.157	5,103.88	1,456.91	-1,380.31	2,006.92	0.00	0.00	0.00
7,300.00	89.51	316.157	5,104.74	1,529.03	-1,449.58	2,106.92	0.00	0.00	0.00
7,400.00	89.51	316.157	5,105.60	1,601.15	-1,518.84	2,206.91	0.00	0.00	0.00
7,500.00	89.51	316.157	5,106.45	1,673.27	-1,588.11	2,306.91	0.00	0.00	0.00
7,600.00	89.51	316.157	5,107.31	1,745.39	-1,657.38	2,406.91	0.00	0.00	0.00
7,700.00	89.51	316.157	5,108.17	1,817.51	-1,726.64	2,506.90	0.00	0.00	0.00
7,800.00	89.51	316.157	5,109.02	1,889.63	-1,795.91	2,606.90	0.00	0.00	0.00
7,900.00	89.51	316.157	5,109.88	1,961.76	-1,865.18	2,706.90	0.00	0.00	0.00
8,000.00	89.51	316.157	5,110.74	2,033.88	-1,934.44	2,806.89	0.00	0.00	0.00
8,100.00	89.51	316.157	5,111.59	2,106.00	-2,003.71	2,906.89	0.00	0.00	0.00
8,200.00	89.51	316.157	5,112.45	2,178.12	-2,072.97	3,006.88	0.00	0.00	0.00
8,300.00	89.51	316.157	5,113.31	2,250.24	-2,142.24	3,106.88	0.00	0.00	0.00
8,400.00	89.51	316.157	5,114.16	2,322.36	-2,211.51	3,206.88	0.00	0.00	0.00
8,500.00	89.51	316.157	5,115.02	2,394.48	-2,280.77	3,306.87	0.00	0.00	0.00
8,600.00	89.51	316.157	5,115.88	2,466.60	-2,350.04	3,406.87	0.00	0.00	0.00
8,700.00	89.51	316.157	5,116.74	2,538.72	-2,419.31	3,506.87	0.00	0.00	0.00
8,800.00	89.51	316.157	5,117.59	2,610.85	-2,488.57	3,606.86	0.00	0.00	0.00
8,900.00	89.51	316.157	5,118.45	2,682.97	-2,557.84	3,706.86	0.00	0.00	0.00
9,000.00	89.51	316.157	5,119.31	2,755.09	-2,627.10	3,806.85	0.00	0.00	0.00
9,100.00	89.51	316.157	5,120.16	2,827.21	-2,696.37	3,906.85	0.00	0.00	0.00
9,200.00	89.51	316.157	5,121.02	2,899.33	-2,765.64	4,006.85	0.00	0.00	0.00
9,300.00	89.51	316.157	5,121.88	2,971.45	-2,834.90	4,106.84	0.00	0.00	0.00
9,400.00	89.51	316.157	5,122.73	3,043.57	-2,904.17	4,206.84	0.00	0.00	0.00
9,500.00	89.51	316.157	5,123.59	3,115.69	-2,973.44	4,306.83	0.00	0.00	0.00
9,600.00	89.51	316.157	5,124.45	3,187.81	-3,042.70	4,406.83	0.00	0.00	0.00
9,700.00	89.51	316.157	5,125.30	3,259.94	-3,111.97	4,506.83	0.00	0.00	0.00
9,800.00	89.51	316.157	5,126.16	3,332.06	-3,181.23	4,606.82	0.00	0.00	0.00
9,900.00	89.51	316.157	5,127.02	3,404.18	-3,250.50	4,706.82	0.00	0.00	0.00
10,000.00	89.51	316.157	5,127.88	3,476.30	-3,319.77	4,806.82	0.00	0.00	0.00
10,100.00	89.51	316.157	5,128.73	3,548.42	-3,389.03	4,906.81	0.00	0.00	0.00
10,200.00	89.51	316.157	5,129.59	3,620.54	-3,458.30	5,006.81	0.00	0.00	0.00
10,300.00	89.51	316.157	5,130.45	3,692.66	-3,527.57	5,106.80	0.00	0.00	0.00
10,400.00	89.51	316.157	5,131.30	3,764.78	-3,596.83	5,206.80	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 217H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Project:	Nageezi Unit	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site:	L26 2409	North Reference:	True
Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,500.00	89.51	316.157	5,132.16	3,836.91	-3,666.10	5,306.80	0.00	0.00	0.00	
10,600.00	89.51	316.157	5,133.02	3,909.03	-3,735.36	5,406.79	0.00	0.00	0.00	
10,700.00	89.51	316.157	5,133.87	3,981.15	-3,804.63	5,506.79	0.00	0.00	0.00	
10,800.00	89.51	316.157	5,134.73	4,053.27	-3,873.90	5,606.79	0.00	0.00	0.00	
10,900.00	89.51	316.157	5,135.59	4,125.39	-3,943.16	5,706.78	0.00	0.00	0.00	
11,000.00	89.51	316.157	5,136.44	4,197.51	-4,012.43	5,806.78	0.00	0.00	0.00	
11,100.00	89.51	316.157	5,137.30	4,269.63	-4,081.70	5,906.77	0.00	0.00	0.00	
11,200.00	89.51	316.157	5,138.16	4,341.75	-4,150.96	6,006.77	0.00	0.00	0.00	
11,300.00	89.51	316.157	5,139.02	4,413.87	-4,220.23	6,106.77	0.00	0.00	0.00	
11,400.00	89.51	316.157	5,139.87	4,486.00	-4,289.49	6,206.76	0.00	0.00	0.00	
11,500.00	89.51	316.157	5,140.73	4,558.12	-4,358.76	6,306.76	0.00	0.00	0.00	
11,600.00	89.51	316.157	5,141.59	4,630.24	-4,428.03	6,406.75	0.00	0.00	0.00	
11,700.00	89.51	316.157	5,142.44	4,702.36	-4,497.29	6,506.75	0.00	0.00	0.00	
11,800.00	89.51	316.157	5,143.30	4,774.48	-4,566.56	6,606.75	0.00	0.00	0.00	
11,900.00	89.51	316.157	5,144.16	4,846.60	-4,635.83	6,706.74	0.00	0.00	0.00	
12,000.00	89.51	316.157	5,145.01	4,918.72	-4,705.09	6,806.74	0.00	0.00	0.00	
12,100.00	89.51	316.157	5,145.87	4,990.84	-4,774.36	6,906.74	0.00	0.00	0.00	
12,200.00	89.51	316.157	5,146.73	5,062.96	-4,843.62	7,006.73	0.00	0.00	0.00	
12,300.00	89.51	316.157	5,147.58	5,135.09	-4,912.89	7,106.73	0.00	0.00	0.00	
12,400.00	89.51	316.157	5,148.44	5,207.21	-4,982.16	7,206.72	0.00	0.00	0.00	
12,500.00	89.51	316.157	5,149.30	5,279.33	-5,051.42	7,306.72	0.00	0.00	0.00	
12,600.00	89.51	316.157	5,150.16	5,351.45	-5,120.69	7,406.72	0.00	0.00	0.00	
12,700.00	89.51	316.157	5,151.01	5,423.57	-5,189.95	7,506.71	0.00	0.00	0.00	
12,800.00	89.51	316.157	5,151.87	5,495.69	-5,259.22	7,606.71	0.00	0.00	0.00	
12,900.00	89.51	316.157	5,152.73	5,567.81	-5,328.49	7,706.71	0.00	0.00	0.00	
13,000.00	89.51	316.157	5,153.58	5,639.93	-5,397.75	7,806.70	0.00	0.00	0.00	
13,100.00	89.51	316.157	5,154.44	5,712.05	-5,467.02	7,906.70	0.00	0.00	0.00	
13,200.00	89.51	316.157	5,155.30	5,784.18	-5,536.29	8,006.69	0.00	0.00	0.00	
13,282.06	89.51	316.157	5,156.00	5,843.26	-5,593.22	8,088.75	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
217H Heel - hit/miss target - Shape	0.00	0.000	5,089.00	204.47	-177.45	1,922,354.14	2,742,940.40	36.2830987	-107.7659871
217H Toe - plan hits target center - Circle (radius 50.00)									
217H Toe - plan hits target center - Circle (radius 100.00)	0.00	0.000	5,156.00	5,843.26	-5,593.22	1,927,989.12	2,737,520.67	36.2985873	-107.7843664

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350.00	350.00	Surface Casing	9.62	12.25	
5,413.33	5,086.60	Intermediate Casing	7.00	8.75	



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 217H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Project:	Nageezi Unit	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site:	L26 2409	North Reference:	True
Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
816.02	815.00	Ojo Alamo		0.00	0.000	
924.49	923.00	Kirtland		0.00	0.000	
1,225.78	1,223.00	Fruitland		0.00	0.000	
1,564.22	1,560.00	Pictured Cliffs		0.00	0.000	
1,665.66	1,661.00	Lewis		0.00	0.000	
2,379.71	2,372.00	Chacra		0.00	0.000	
3,104.81	3,094.00	Menefee		0.00	0.000	
4,040.82	4,026.00	Point Lookout		0.00	0.000	
4,213.55	4,198.00	Mancos		0.00	0.000	
4,548.69	4,532.00	Mancos Silt		0.00	0.000	
5,178.64	5,024.00	Gallup A		0.00	0.000	
5,289.80	5,064.00	Gallup B		0.00	0.000	



DJR Operating

Nageezi Unit

L26 2409

217H

Original Drilling

APD

Anticollision Report

05 February, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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 10,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	2/5/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,282.06	APD (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
L26 2409						
# 213H - Original Drilling - APD	400.00	400.00	59.80	57.35	24.320	CC, ES
# 213H - Original Drilling - APD	12,100.00	11,726.06	1,256.54	901.14	3.536	SF
# 214H - Original Drilling - APD	400.00	400.00	99.86	97.40	40.609	CC, ES
# 214H - Original Drilling - APD	800.00	783.43	134.57	129.34	25.742	SF
# 215H - Original Drilling - APD	400.00	400.00	39.72	37.26	16.152	CC, ES
# 215H - Original Drilling - APD	12,706.02	12,518.94	650.28	279.78	1.755	SF
# 216H - Original Drilling - APD	400.00	400.00	79.89	77.43	32.487	CC, ES
# 216H - Original Drilling - APD	5,500.00	4,976.84	757.52	716.96	18.675	SF
# 218H - Original Drilling - APD	400.00	400.00	19.75	17.29	8.031	CC, ES
# 218H - Original Drilling - APD	4,954.87	4,936.32	175.76	140.23	4.947	SF
Dome Federal 35-24-9 #1 - OH - OH	4,467.93	4,521.45	4,511.85	4,315.01	22.922	CC
Dome Federal 35-24-9 #1 - OH - OH	4,500.00	4,553.51	4,512.57	4,314.35	22.765	ES
Dome Federal 35-24-9 #1 - OH - OH	5,000.00	4,994.02	4,700.08	4,483.04	21.655	SF
Federal #27-43 - OH - OH	5,470.48	4,756.83	1,633.09	1,495.86	11.901	CC
Federal #27-43 - OH - OH	5,500.00	4,756.94	1,633.35	1,495.70	11.865	ES
Federal #27-43 - OH - OH	5,800.00	4,758.06	1,666.00	1,523.45	11.687	SF
Navajo 23-11 - OH - OH	8,387.33	4,976.06	4,676.66	4,388.05	16.204	CC
Navajo 23-11 - OH - OH	8,500.00	4,977.02	4,678.02	4,386.55	16.050	ES
Navajo 23-11 - OH - OH	9,700.00	4,987.30	4,857.38	4,539.52	15.282	SF

Offset Design: L26 2409 - # 213H - Original Drilling - APD													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft		
Reference									Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	22.30	55.33	22.69	59.80					
100.00	100.00	100.00	100.00	0.15	0.15	22.30	55.33	22.69	59.80	59.50	0.31	193.992		
200.00	200.00	200.00	200.00	0.51	0.51	22.30	55.33	22.69	59.80	58.78	1.03	58.333		
300.00	300.00	300.00	300.00	0.87	0.87	22.30	55.33	22.69	59.80	58.06	1.74	34.328		
400.00	400.00	400.00	400.00	1.23	1.23	22.30	55.33	22.69	59.80	57.35	2.46	24.320	CC, ES	
500.00	499.98	498.49	498.48	1.57	1.58	-113.21	56.07	23.28	61.40	58.24	3.16	19.448		
600.00	599.84	596.15	596.05	1.92	1.93	-116.04	59.34	25.87	67.62	63.78	3.85	17.568		
665.04	664.67	659.33	659.07	2.15	2.16	-118.29	62.83	28.65	74.32	70.01	4.31	17.261		
700.00	699.47	693.15	692.75	2.27	2.28	-119.47	65.15	30.49	78.70	74.14	4.55	17.293		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 213H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
800.00	799.04	789.40	788.41	2.63	2.64	-121.61	73.46	37.08	93.38	88.13	5.25	17.791	
900.00	898.62	884.77	882.80	3.00	2.99	-122.39	84.17	45.58	111.10	105.15	5.95	18.686	
1,000.00	998.19	979.06	975.61	3.37	3.36	-122.31	97.17	55.90	131.72	125.08	6.64	19.842	
1,100.00	1,097.76	1,072.09	1,066.61	3.74	3.75	-121.73	112.33	67.93	155.19	147.86	7.33	21.183	
1,200.00	1,197.33	1,163.70	1,155.54	4.11	4.14	-120.88	129.52	81.57	181.49	173.48	8.00	22.675	
1,300.00	1,296.91	1,253.73	1,242.22	4.49	4.55	-119.90	148.57	96.69	210.58	201.91	8.68	24.274	
1,400.00	1,396.48	1,348.53	1,333.04	4.87	5.01	-118.95	169.87	113.59	241.24	231.84	9.40	25.652	
1,500.00	1,496.05	1,443.65	1,424.15	5.25	5.47	-118.21	191.24	130.56	271.95	261.80	10.14	26.812	
1,600.00	1,595.62	1,538.76	1,515.27	5.63	5.94	-117.62	212.62	147.52	302.69	291.80	10.89	27.806	
1,700.00	1,695.20	1,633.88	1,606.39	6.01	6.42	-117.14	233.99	164.48	333.45	321.82	11.63	28.667	
1,800.00	1,794.77	1,728.99	1,697.51	6.39	6.91	-116.74	255.36	181.44	364.23	351.85	12.38	29.418	
1,900.00	1,894.34	1,824.11	1,788.63	6.77	7.40	-116.40	276.73	198.40	395.03	381.89	13.13	30.080	
2,000.00	1,993.91	1,919.23	1,879.75	7.15	7.89	-116.11	298.11	215.36	425.83	411.95	13.89	30.666	
2,100.00	2,093.49	2,014.34	1,970.87	7.53	8.38	-115.86	319.48	232.33	456.65	442.01	14.64	31.189	
2,200.00	2,193.06	2,109.46	2,061.99	7.91	8.88	-115.65	340.85	249.29	487.47	472.07	15.40	31.657	
2,300.00	2,292.63	2,204.58	2,153.11	8.29	9.38	-115.45	362.22	266.25	518.29	502.14	16.16	32.080	
2,400.00	2,392.20	2,299.69	2,244.22	8.67	9.88	-115.28	383.60	283.21	549.13	532.21	16.92	32.464	
2,500.00	2,491.77	2,394.81	2,335.34	9.05	10.38	-115.13	404.97	300.17	579.96	562.29	17.68	32.812	
2,600.00	2,591.35	2,489.93	2,426.46	9.43	10.89	-114.99	426.34	317.14	610.80	592.36	18.44	33.131	
2,700.00	2,690.92	2,585.04	2,517.58	9.82	11.39	-114.87	447.71	334.10	641.64	622.44	19.20	33.423	
2,800.00	2,790.49	2,680.16	2,608.70	10.20	11.90	-114.76	469.09	351.06	672.48	652.52	19.96	33.692	
2,900.00	2,890.06	2,775.28	2,699.82	10.58	12.40	-114.65	490.46	368.02	703.33	682.61	20.72	33.941	
3,000.00	2,989.64	2,870.39	2,790.94	10.96	12.91	-114.56	511.83	384.98	734.18	712.69	21.49	34.171	
3,100.00	3,089.21	2,965.51	2,882.06	11.35	13.42	-114.47	533.21	401.94	765.03	742.78	22.25	34.384	
3,200.00	3,188.78	3,060.63	2,973.18	11.73	13.93	-114.39	554.58	418.91	795.88	772.87	23.01	34.583	
3,300.00	3,288.35	3,155.74	3,064.29	12.11	14.43	-114.32	575.95	435.87	826.73	802.95	23.78	34.768	
3,400.00	3,387.93	3,250.86	3,155.41	12.49	14.94	-114.25	597.32	452.83	857.58	833.04	24.54	34.942	
3,500.00	3,487.50	3,345.98	3,246.53	12.88	15.45	-114.19	618.70	469.79	888.44	863.13	25.31	35.104	
3,600.00	3,587.07	3,441.09	3,337.65	13.26	15.96	-114.13	640.07	486.75	919.29	893.22	26.07	35.257	
3,700.00	3,686.64	3,536.21	3,428.77	13.64	16.47	-114.07	661.44	503.71	950.15	923.31	26.84	35.400	
3,800.00	3,786.21	3,631.32	3,519.89	14.02	16.98	-114.02	682.81	520.68	981.01	953.40	27.61	35.535	
3,900.00	3,885.79	3,726.44	3,611.01	14.41	17.49	-113.97	704.19	537.64	1,011.86	983.49	28.37	35.663	
4,000.00	3,985.36	3,821.56	3,702.13	14.79	18.00	-113.93	725.56	554.60	1,042.72	1,013.58	29.14	35.783	
4,100.00	4,084.93	3,916.67	3,793.25	15.17	18.52	-113.88	746.93	571.56	1,073.58	1,043.68	29.91	35.897	
4,200.00	4,184.50	4,011.79	3,884.36	15.55	19.03	-113.84	768.31	588.52	1,104.44	1,073.77	30.67	36.006	
4,300.00	4,284.08	4,106.91	3,975.48	15.94	19.54	-113.80	789.68	605.49	1,135.30	1,103.86	31.44	36.108	
4,400.00	4,383.65	4,202.02	4,066.60	16.32	20.05	-113.77	811.05	622.45	1,166.16	1,133.95	32.21	36.206	
4,410.02	4,393.62	4,211.55	4,075.73	16.36	20.10	-113.76	813.19	624.15	1,169.25	1,136.97	32.29	36.215	
4,450.00	4,433.52	4,249.72	4,112.29	16.51	20.31	-110.78	821.77	630.95	1,181.07	1,148.48	32.59	36.244	
4,500.00	4,483.51	4,297.66	4,158.22	16.67	20.56	59.08	832.54	639.50	1,194.34	1,161.40	32.94	36.261	
4,550.00	4,533.30	4,345.57	4,204.12	16.81	20.82	60.70	843.31	648.05	1,205.89	1,172.63	33.27	36.250	
4,600.00	4,582.60	4,393.16	4,249.70	16.94	21.08	60.96	854.00	656.53	1,215.74	1,182.16	33.58	36.206	
4,650.00	4,631.09	4,440.12	4,294.69	17.07	21.33	61.21	864.55	664.91	1,223.91	1,190.03	33.88	36.128	
4,700.00	4,678.48	4,486.17	4,338.81	17.19	21.58	61.61	874.90	673.12	1,230.47	1,196.31	34.16	36.021	
4,750.00	4,724.47	4,531.03	4,381.78	17.31	21.82	62.19	884.98	681.12	1,235.54	1,201.11	34.43	35.885	
4,800.00	4,768.79	4,574.41	4,423.34	17.43	22.05	62.95	894.73	688.85	1,239.23	1,204.54	34.69	35.722	
4,850.00	4,811.16	4,616.06	4,463.23	17.56	22.28	63.85	904.08	696.28	1,241.72	1,206.77	34.95	35.530	
4,900.00	4,851.32	4,655.71	4,501.22	17.70	22.49	64.87	912.99	703.35	1,243.17	1,207.96	35.21	35.310	
4,950.00	4,889.01	4,687.76	4,531.92	17.86	22.67	65.82	920.25	709.01	1,243.82	1,208.39	35.43	35.104	
5,000.00	4,924.02	4,711.47	4,554.59	18.05	22.79	66.57	926.14	712.67	1,244.11	1,208.48	35.63	34.921	
5,050.00	4,956.12	4,735.17	4,577.18	18.28	22.92	67.36	932.64	715.69	1,244.19	1,208.32	35.87	34.684	
5,100.00	4,985.11	4,758.87	4,599.66	18.55	23.04	68.18	939.75	718.08	1,244.13	1,207.94	36.18	34.384	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 213H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,150.00	5,010.81	4,782.57	4,622.00	18.88	23.17	69.04	947.45	719.83	1,244.00	1,207.43	36.57	34.016	
5,200.00	5,033.08	4,806.26	4,644.18	19.27	23.29	69.92	955.73	720.94	1,243.90	1,206.86	37.05	33.578	
5,226.29	5,043.36	4,818.72	4,655.76	19.50	23.36	70.39	960.32	721.27	1,243.88	1,206.55	37.34	33.315	
5,250.00	5,051.76	4,829.96	4,666.15	19.72	23.41	70.81	964.58	721.41	1,243.90	1,206.29	37.61	33.073	
5,300.00	5,066.75	4,853.64	4,687.89	20.24	23.53	71.71	973.99	721.24	1,244.09	1,205.82	38.27	32.508	
5,350.00	5,077.96	4,877.32	4,709.35	20.81	23.65	72.60	983.94	720.42	1,244.56	1,205.54	39.02	31.895	
5,400.00	5,085.30	4,900.97	4,730.51	21.45	23.76	73.48	994.40	718.97	1,245.39	1,205.53	39.85	31.251	
5,450.00	5,088.74	4,924.57	4,751.31	22.13	23.88	74.34	1,005.36	716.88	1,246.67	1,205.92	40.75	30.591	
5,463.43	5,089.00	4,930.91	4,756.83	22.32	23.91	74.56	1,008.39	716.21	1,247.10	1,206.10	41.01	30.413	
5,500.00	5,089.31	4,949.18	4,772.62	22.86	23.99	75.31	1,017.32	714.04	1,248.75	1,207.04	41.72	29.934	
5,600.00	5,090.17	5,012.19	4,825.28	24.45	24.28	77.82	1,050.28	703.65	1,257.23	1,213.37	43.86	28.667	
5,700.00	5,091.03	5,103.03	4,895.48	26.20	24.67	81.12	1,103.18	681.02	1,270.25	1,223.99	46.25	27.462	
5,800.00	5,091.88	5,237.76	4,984.44	28.07	25.20	85.22	1,191.20	631.79	1,285.15	1,236.21	48.95	26.257	
5,900.00	5,092.74	5,433.42	5,074.35	30.05	25.98	89.23	1,331.93	531.32	1,297.35	1,245.14	52.21	24.848	
6,000.00	5,093.60	5,661.58	5,111.10	32.11	27.35	90.77	1,499.36	382.58	1,301.02	1,244.49	56.54	23.012	
6,100.00	5,094.46	5,761.58	5,111.96	34.24	28.31	90.77	1,570.97	312.78	1,300.29	1,240.26	60.03	21.661	
6,200.00	5,095.31	5,861.58	5,112.81	36.43	29.54	90.77	1,642.58	242.99	1,299.55	1,235.55	64.00	20.306	
6,300.00	5,096.17	5,961.58	5,113.67	38.67	31.02	90.77	1,714.18	173.20	1,298.81	1,230.76	68.06	19.084	
6,400.00	5,097.03	6,061.57	5,114.53	40.94	32.69	90.77	1,785.79	103.40	1,298.08	1,225.82	72.25	17.966	
6,500.00	5,097.88	6,161.57	5,115.38	43.25	34.52	90.77	1,857.40	33.61	1,297.34	1,220.77	76.56	16.944	
6,600.00	5,098.74	6,261.57	5,116.24	45.59	36.46	90.77	1,929.00	-36.19	1,296.60	1,215.62	80.98	16.011	
6,700.00	5,099.60	6,361.56	5,117.09	47.95	38.49	90.77	2,000.61	-105.98	1,295.86	1,210.38	85.48	15.159	
6,800.00	5,100.45	6,461.56	5,117.95	50.33	40.59	90.77	2,072.22	-175.78	1,295.13	1,205.07	90.06	14.381	
6,900.00	5,101.31	6,561.56	5,118.80	52.73	42.76	90.77	2,143.82	-245.57	1,294.39	1,199.69	94.70	13.669	
7,000.00	5,102.17	6,661.56	5,119.66	55.15	44.97	90.77	2,215.43	-315.36	1,293.65	1,194.26	99.39	13.016	
7,100.00	5,103.02	6,761.55	5,120.52	57.58	47.23	90.77	2,287.03	-385.16	1,292.91	1,188.79	104.12	12.417	
7,200.00	5,103.88	6,861.55	5,121.37	60.02	49.52	90.77	2,358.64	-454.95	1,292.18	1,183.28	108.90	11.866	
7,300.00	5,104.74	6,961.55	5,122.23	62.47	51.84	90.77	2,430.25	-524.75	1,291.44	1,177.73	113.71	11.358	
7,400.00	5,105.60	7,061.55	5,123.08	64.93	54.19	90.77	2,501.85	-594.54	1,290.70	1,172.15	118.55	10.888	
7,500.00	5,106.45	7,161.54	5,123.94	67.40	56.55	90.77	2,573.46	-664.34	1,289.96	1,166.55	123.41	10.452	
7,600.00	5,107.31	7,261.54	5,124.79	69.88	58.94	90.77	2,645.07	-734.13	1,289.23	1,160.92	128.30	10.048	
7,700.00	5,108.17	7,361.54	5,125.65	72.36	61.34	90.77	2,716.67	-803.92	1,288.49	1,155.28	133.21	9.672	
7,800.00	5,109.02	7,461.53	5,126.51	74.85	63.76	90.77	2,788.28	-873.72	1,287.75	1,149.61	138.14	9.322	
7,900.00	5,109.88	7,561.53	5,127.36	77.35	66.19	90.77	2,859.89	-943.51	1,287.01	1,143.93	143.09	8.995	
8,000.00	5,110.74	7,661.53	5,128.22	79.85	68.63	90.78	2,931.49	-1,013.31	1,286.28	1,138.23	148.05	8.688	
8,100.00	5,111.59	7,761.53	5,129.07	82.35	71.08	90.78	3,003.10	-1,083.10	1,285.54	1,132.52	153.02	8.401	
8,200.00	5,112.45	7,861.52	5,129.93	84.86	73.54	90.78	3,074.71	-1,152.90	1,284.80	1,126.80	158.00	8.132	
8,300.00	5,113.31	7,961.52	5,130.78	87.37	76.01	90.78	3,146.31	-1,222.69	1,284.07	1,121.07	163.00	7.878	
8,400.00	5,114.16	8,061.52	5,131.64	89.89	78.49	90.78	3,217.92	-1,292.48	1,283.33	1,115.32	168.00	7.639	
8,500.00	5,115.02	8,161.52	5,132.50	92.41	80.98	90.78	3,289.52	-1,362.28	1,282.59	1,109.57	173.02	7.413	
8,600.00	5,115.88	8,261.51	5,133.35	94.93	83.47	90.78	3,361.13	-1,432.07	1,281.85	1,103.81	178.04	7.200	
8,700.00	5,116.74	8,361.51	5,134.21	97.45	85.96	90.78	3,432.74	-1,501.87	1,281.12	1,098.05	183.07	6.998	
8,800.00	5,117.59	8,461.51	5,135.06	99.98	88.46	90.78	3,504.34	-1,571.66	1,280.38	1,092.27	188.11	6.807	
8,900.00	5,118.45	8,561.51	5,135.92	102.51	90.97	90.78	3,575.95	-1,641.46	1,279.64	1,086.49	193.15	6.625	
9,000.00	5,119.31	8,661.50	5,136.77	105.04	93.48	90.78	3,647.56	-1,711.25	1,278.90	1,080.71	198.20	6.453	
9,100.00	5,120.16	8,761.50	5,137.63	107.58	95.99	90.78	3,719.16	-1,781.04	1,278.17	1,074.91	203.25	6.289	
9,200.00	5,121.02	8,861.50	5,138.49	110.11	98.51	90.78	3,790.77	-1,850.84	1,277.43	1,069.12	208.31	6.132	
9,300.00	5,121.88	8,961.49	5,139.34	112.65	101.03	90.78	3,862.38	-1,920.63	1,276.69	1,063.32	213.37	5.983	
9,400.00	5,122.73	9,061.49	5,140.20	115.19	103.55	90.78	3,933.98	-1,990.43	1,275.95	1,057.51	218.44	5.841	
9,500.00	5,123.59	9,161.49	5,141.05	117.73	106.08	90.78	4,005.59	-2,060.22	1,275.22	1,051.70	223.51	5.705	
9,600.00	5,124.45	9,261.49	5,141.91	120.27	108.61	90.78	4,077.20	-2,130.02	1,274.48	1,045.89	228.59	5.575	
9,700.00	5,125.30	9,361.48	5,142.77	122.81	111.14	90.78	4,148.80	-2,199.81	1,273.74	1,040.07	233.67	5.451	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 213H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.00	5,126.16	9,461.48	5,143.62	125.35	113.67	90.78	4,220.41	-2,269.60	1,273.00	1,034.25	238.75	5.332	
9,900.00	5,127.02	9,561.48	5,144.48	127.90	116.21	90.78	4,292.01	-2,339.40	1,272.27	1,028.43	243.84	5.218	
10,000.00	5,127.88	9,661.48	5,145.33	130.45	118.75	90.78	4,363.62	-2,409.19	1,271.53	1,022.60	248.93	5.108	
10,100.00	5,128.73	9,761.47	5,146.19	132.99	121.29	90.78	4,435.23	-2,478.99	1,270.79	1,016.77	254.02	5.003	
10,200.00	5,129.59	9,861.47	5,147.04	135.54	123.83	90.78	4,506.83	-2,548.78	1,270.06	1,010.94	259.11	4.902	
10,300.00	5,130.45	9,961.47	5,147.90	138.09	126.37	90.78	4,578.44	-2,618.58	1,269.32	1,005.11	264.21	4.804	
10,400.00	5,131.30	10,061.46	5,148.76	140.64	128.92	90.78	4,650.05	-2,688.37	1,268.58	999.27	269.31	4.711	
10,500.00	5,132.16	10,161.46	5,149.61	143.19	131.47	90.79	4,721.65	-2,758.16	1,267.84	993.44	274.41	4.620	
10,600.00	5,133.02	10,261.46	5,150.47	145.74	134.01	90.79	4,793.26	-2,827.96	1,267.11	987.60	279.51	4.533	
10,700.00	5,133.87	10,361.46	5,151.32	148.29	136.56	90.79	4,864.87	-2,897.75	1,266.37	981.75	284.61	4.449	
10,800.00	5,134.73	10,461.45	5,152.18	150.85	139.11	90.79	4,936.47	-2,967.55	1,265.63	975.91	289.72	4.368	
10,900.00	5,135.59	10,561.45	5,153.03	153.40	141.66	90.79	5,008.08	-3,037.34	1,264.89	970.07	294.83	4.290	
11,000.00	5,136.44	10,661.45	5,153.89	155.96	144.22	90.79	5,079.68	-3,107.14	1,264.16	964.22	299.94	4.215	
11,100.00	5,137.30	10,761.45	5,154.75	158.51	146.77	90.79	5,151.29	-3,176.93	1,263.42	958.37	305.05	4.142	
11,200.00	5,138.16	10,861.44	5,155.60	161.07	149.33	90.79	5,222.90	-3,246.73	1,262.68	952.52	310.16	4.071	
11,300.00	5,139.02	10,961.44	5,156.46	163.62	151.88	90.79	5,294.50	-3,316.52	1,261.94	946.67	315.27	4.003	
11,400.00	5,139.87	11,061.44	5,157.31	166.18	154.44	90.79	5,366.11	-3,386.31	1,261.21	940.82	320.39	3.936	
11,500.00	5,140.73	11,161.43	5,158.17	168.73	157.00	90.79	5,437.72	-3,456.11	1,260.47	934.96	325.51	3.872	
11,600.00	5,141.59	11,261.43	5,159.02	171.29	159.55	90.79	5,509.32	-3,525.90	1,259.73	929.11	330.62	3.810	
11,700.00	5,142.44	11,361.43	5,159.88	173.85	162.11	90.79	5,580.93	-3,595.70	1,258.99	923.25	335.74	3.750	
11,800.00	5,143.30	11,461.43	5,160.74	176.41	164.67	90.79	5,652.54	-3,665.49	1,258.26	917.39	340.86	3.691	
11,900.00	5,144.16	11,561.42	5,161.59	178.97	167.23	90.79	5,724.14	-3,735.29	1,257.52	911.54	345.98	3.635	
12,000.00	5,145.01	11,661.42	5,162.45	181.53	169.79	90.79	5,795.75	-3,805.08	1,256.78	905.68	351.11	3.580	
12,073.91	5,145.65	11,726.06	5,163.00	183.42	171.45	90.79	5,842.04	-3,850.20	1,256.27	901.57	354.70	3.542	
12,100.00	5,145.87	11,726.06	5,163.00	184.09	171.45	90.79	5,842.04	-3,850.20	1,256.54	901.14	355.41	3.536 SF	
12,200.00	5,146.73	11,726.06	5,163.00	186.65	171.45	90.79	5,842.04	-3,850.20	1,262.58	905.88	356.71	3.540	
12,300.00	5,147.58	11,726.06	5,163.00	189.21	171.45	90.79	5,842.04	-3,850.20	1,276.45	920.62	355.84	3.587	
12,400.00	5,148.44	11,726.06	5,163.00	191.77	171.45	90.79	5,842.04	-3,850.20	1,297.90	944.95	352.95	3.677	
12,500.00	5,149.30	11,726.06	5,163.00	194.33	171.45	90.79	5,842.04	-3,850.20	1,326.56	978.27	348.29	3.809	
12,600.00	5,150.16	11,726.06	5,163.00	196.89	171.45	90.79	5,842.04	-3,850.20	1,361.98	1,019.82	342.16	3.981	
12,700.00	5,151.01	11,726.06	5,163.00	199.45	171.45	90.79	5,842.04	-3,850.20	1,403.64	1,068.77	334.87	4.192	
12,800.00	5,151.87	11,726.06	5,163.00	202.01	171.45	90.79	5,842.04	-3,850.20	1,451.01	1,124.26	326.75	4.441	
12,900.00	5,152.73	11,726.06	5,163.00	204.57	171.45	90.79	5,842.04	-3,850.20	1,503.54	1,185.48	318.07	4.727	
13,000.00	5,153.58	11,726.06	5,163.00	207.14	171.45	90.79	5,842.04	-3,850.20	1,560.73	1,251.64	309.08	5.050	
13,100.00	5,154.44	11,726.06	5,163.00	209.70	171.45	90.79	5,842.04	-3,850.20	1,622.06	1,322.07	299.99	5.407	
13,200.00	5,155.30	11,726.06	5,163.00	212.26	171.45	90.79	5,842.04	-3,850.20	1,687.10	1,396.15	290.95	5.799	
13,282.06	5,156.00	11,726.06	5,163.00	214.37	171.45	90.79	5,842.04	-3,850.20	1,743.04	1,459.38	283.66	6.145	
13,282.88	5,156.01	11,726.06	5,163.00	214.38	171.45	90.79	5,842.04	-3,850.20	1,743.61	1,459.75	283.85	6.143	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 214H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	22.20	92.46	37.73	99.86				
100.00	100.00	100.00	100.00	0.15	0.15	22.20	92.46	37.73	99.86	99.55	0.31	323.928	
200.00	200.00	200.00	200.00	0.51	0.51	22.20	92.46	37.73	99.86	98.84	1.03	97.405	
300.00	300.00	300.00	300.00	0.87	0.87	22.20	92.46	37.73	99.86	98.12	1.74	57.321	
400.00	400.00	400.00	400.00	1.23	1.23	22.20	92.46	37.73	99.86	97.40	2.46	40.609 CC, ES	
500.00	499.98	497.42	497.41	1.57	1.58	-112.96	93.31	38.07	101.48	98.33	3.15	32.173	
600.00	599.84	593.60	593.51	1.92	1.93	-115.29	97.06	39.59	107.83	103.99	3.84	28.062	
665.04	664.67	655.73	655.48	2.15	2.15	-117.34	101.07	41.22	114.70	110.40	4.30	26.702	
700.00	699.47	688.95	688.58	2.27	2.27	-118.53	103.72	42.29	119.21	114.67	4.54	26.268	
800.00	799.04	783.43	782.49	2.63	2.62	-121.33	113.21	46.14	134.57	129.34	5.23	25.742 SF	
900.00	898.62	876.90	875.03	3.00	2.96	-123.32	125.42	51.09	153.35	147.44	5.91	25.941	
1,000.00	998.19	969.20	965.94	3.37	3.32	-124.64	140.22	57.09	175.38	168.79	6.59	26.622	
1,100.00	1,097.76	1,060.16	1,054.97	3.74	3.69	-125.45	157.45	64.08	200.50	193.24	7.26	27.630	
1,200.00	1,197.33	1,149.63	1,141.93	4.11	4.07	-125.90	176.94	71.99	228.59	220.67	7.91	28.886	
1,300.00	1,296.91	1,237.47	1,226.63	4.49	4.47	-126.09	198.51	80.74	259.55	250.99	8.56	30.319	
1,400.00	1,396.48	1,323.58	1,308.91	4.87	4.87	-126.10	221.99	90.26	293.29	284.09	9.20	31.887	
1,500.00	1,496.05	1,408.04	1,388.86	5.25	5.29	-125.98	247.23	100.50	329.72	319.90	9.82	33.563	
1,600.00	1,595.62	1,500.66	1,476.10	5.63	5.77	-125.83	276.05	112.18	367.42	356.88	10.54	34.849	
1,700.00	1,695.20	1,593.28	1,563.35	6.01	6.26	-125.70	304.87	123.87	405.12	393.85	11.27	35.953	
1,800.00	1,794.77	1,685.90	1,650.59	6.39	6.76	-125.60	333.69	135.56	442.82	430.83	12.00	36.910	
1,900.00	1,894.34	1,778.51	1,737.83	6.77	7.26	-125.51	362.51	147.25	480.53	467.80	12.73	37.747	
2,000.00	1,993.91	1,871.13	1,825.07	7.15	7.77	-125.44	391.33	158.94	518.23	504.76	13.47	38.484	
2,100.00	2,093.49	1,963.75	1,912.31	7.53	8.28	-125.37	420.14	170.63	555.93	541.73	14.20	39.138	
2,200.00	2,193.06	2,056.37	1,999.55	7.91	8.80	-125.32	448.96	182.31	593.64	578.69	14.95	39.721	
2,300.00	2,292.63	2,148.99	2,086.79	8.29	9.31	-125.27	477.78	194.00	631.34	615.66	15.69	40.244	
2,400.00	2,392.20	2,241.60	2,174.03	8.67	9.83	-125.22	506.60	205.69	669.05	652.62	16.43	40.716	
2,500.00	2,491.77	2,334.22	2,261.27	9.05	10.36	-125.18	535.42	217.38	706.76	689.58	17.18	41.144	
2,600.00	2,591.35	2,426.84	2,348.51	9.43	10.88	-125.15	564.24	229.07	744.46	726.54	17.92	41.533	
2,700.00	2,690.92	2,519.46	2,435.75	9.82	11.41	-125.12	593.06	240.75	782.17	763.49	18.67	41.888	
2,800.00	2,790.49	2,612.08	2,522.99	10.20	11.94	-125.09	621.87	252.44	819.87	800.45	19.42	42.214	
2,900.00	2,890.06	2,704.69	2,610.24	10.58	12.47	-125.06	650.69	264.13	857.58	837.41	20.17	42.514	
3,000.00	2,989.64	2,797.31	2,697.48	10.96	13.00	-125.04	679.51	275.82	895.29	874.36	20.92	42.791	
3,100.00	3,089.21	2,889.93	2,784.72	11.35	13.53	-125.01	708.33	287.51	932.99	911.32	21.67	43.047	
3,200.00	3,188.78	2,982.55	2,871.96	11.73	14.06	-124.99	737.15	299.20	970.70	948.27	22.43	43.285	
3,300.00	3,288.35	3,075.17	2,959.20	12.11	14.59	-124.97	765.97	310.88	1,008.41	985.23	23.18	43.506	
3,400.00	3,387.93	3,167.78	3,046.44	12.49	15.12	-124.96	794.79	322.57	1,046.11	1,022.18	23.93	43.712	
3,500.00	3,487.50	3,260.40	3,133.68	12.88	15.66	-124.94	823.60	334.26	1,083.82	1,059.14	24.69	43.905	
3,600.00	3,587.07	3,353.02	3,220.92	13.26	16.19	-124.93	852.42	345.95	1,121.53	1,096.09	25.44	44.085	
3,700.00	3,686.64	3,445.64	3,308.16	13.64	16.73	-124.91	881.24	357.64	1,159.24	1,133.04	26.19	44.254	
3,800.00	3,786.21	3,538.26	3,395.40	14.02	17.26	-124.90	910.06	369.32	1,196.94	1,169.99	26.95	44.413	
3,900.00	3,885.79	3,630.87	3,482.64	14.41	17.80	-124.89	938.88	381.01	1,234.65	1,206.95	27.71	44.563	
4,000.00	3,985.36	3,723.49	3,569.88	14.79	18.33	-124.87	967.70	392.70	1,272.36	1,243.90	28.46	44.704	
4,100.00	4,084.93	3,816.11	3,657.13	15.17	18.87	-124.86	996.52	404.39	1,310.07	1,280.85	29.22	44.837	
4,200.00	4,184.50	3,908.73	3,744.37	15.55	19.40	-124.85	1,025.33	416.08	1,347.77	1,317.80	29.97	44.964	
4,300.00	4,284.08	4,001.35	3,831.61	15.94	19.94	-124.84	1,054.15	427.77	1,385.48	1,354.75	30.73	45.083	
4,400.00	4,383.65	4,093.96	3,918.85	16.32	20.48	-124.83	1,082.97	439.45	1,423.19	1,391.70	31.49	45.196	
4,410.02	4,393.62	4,103.24	3,927.59	16.36	20.53	-124.83	1,085.86	440.62	1,426.97	1,395.40	31.57	45.207	
4,450.00	4,433.52	4,140.53	3,962.71	16.51	20.75	-121.98	1,097.46	445.33	1,441.34	1,409.48	31.86	45.236	
4,500.00	4,483.51	4,187.72	4,007.16	16.67	21.02	47.73	1,112.15	451.29	1,457.28	1,425.06	32.22	45.233	
4,550.00	4,533.30	4,235.27	4,051.95	16.81	21.30	49.19	1,126.94	457.29	1,470.90	1,438.34	32.56	45.181	
4,600.00	4,582.60	4,282.89	4,096.80	16.94	21.57	49.30	1,141.76	463.30	1,482.15	1,449.27	32.88	45.071	
4,650.00	4,631.09	4,330.27	4,141.44	17.07	21.85	49.40	1,156.50	469.27	1,491.04	1,457.84	33.20	44.906	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 214H - Original Drilling - APD												Offset Site Error:	0.00 usft
Survey Program:		0-MWD+HDGM				Rule Assigned:		Offset Well Error:		0.00 usft			
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,700.00	4,678.48	4,377.13	4,185.58	17.19	22.12	49.66	1,171.08	475.19	1,497.58	1,464.07	33.51	44.688	
4,750.00	4,724.47	4,423.18	4,228.95	17.31	22.39	50.12	1,185.41	481.00	1,501.82	1,468.01	33.81	44.418	
4,800.00	4,768.79	5,884.72	5,101.85	17.43	28.91	95.44	835.39	1,235.63	1,494.91	1,453.31	41.60	35.936	
4,850.00	4,811.16	5,857.91	5,102.03	17.56	28.58	95.46	854.40	1,216.73	1,485.50	1,443.64	41.86	35.491	
4,900.00	4,851.32	5,827.88	5,102.23	17.70	28.22	95.28	875.69	1,195.55	1,477.56	1,435.68	41.88	35.279	
4,950.00	4,889.01	5,794.81	5,102.45	17.86	27.90	94.93	899.14	1,172.23	1,470.99	1,429.35	41.63	35.334	
5,000.00	4,924.02	5,758.89	5,102.69	18.05	27.56	94.46	924.60	1,146.91	1,465.62	1,424.01	41.61	35.223	
5,050.00	4,956.12	5,720.37	5,102.95	18.28	27.27	93.91	951.92	1,119.74	1,461.32	1,419.81	41.51	35.202	
5,100.00	4,985.11	5,432.77	5,047.17	18.55	26.16	86.27	1,136.41	909.57	1,455.03	1,415.52	39.51	36.829	
5,150.00	5,010.81	5,283.09	4,972.93	18.88	25.92	81.86	1,209.22	802.39	1,445.48	1,406.29	39.19	36.881	
5,200.00	5,033.08	5,200.35	4,920.35	19.27	25.77	79.67	1,240.49	746.76	1,435.49	1,396.18	39.31	36.517	
5,250.00	5,051.76	5,142.78	4,879.51	19.72	25.65	78.37	1,258.09	710.23	1,425.64	1,386.07	39.57	36.025	
5,300.00	5,066.75	5,097.14	4,844.90	20.24	25.55	77.47	1,269.51	682.77	1,416.11	1,376.19	39.92	35.471	
5,350.00	5,077.96	5,058.04	4,813.83	20.81	25.44	76.78	1,277.45	660.42	1,406.94	1,366.59	40.35	34.869	
5,400.00	5,085.30	5,022.93	4,784.91	21.45	25.34	76.21	1,283.11	641.34	1,398.16	1,357.31	40.84	34.234	
5,450.00	5,088.74	4,990.43	4,757.36	22.13	25.24	75.71	1,287.10	624.57	1,389.74	1,348.35	41.39	33.574	
5,463.43	5,089.00	4,982.03	4,750.12	22.32	25.21	75.58	1,287.93	620.39	1,387.54	1,345.99	41.55	33.393	
5,500.00	5,089.31	4,961.02	4,731.85	22.86	25.14	74.78	1,289.66	610.18	1,381.95	1,339.94	42.01	32.897	
5,600.00	5,090.17	4,917.12	4,692.85	24.45	24.98	73.05	1,291.62	590.13	1,370.64	1,327.17	43.47	31.533	
5,700.00	5,091.03	4,886.31	4,664.92	26.20	24.86	71.81	1,291.65	577.14	1,365.73	1,320.57	45.16	30.243	
5,722.68	5,091.22	4,880.57	4,659.67	26.62	24.84	71.58	1,291.54	574.82	1,365.55	1,319.98	45.57	29.964	
5,800.00	5,091.88	4,863.60	4,644.07	28.07	24.77	70.89	1,290.97	568.15	1,367.62	1,320.62	47.00	29.101	
5,900.00	5,092.74	4,850.00	4,631.50	30.05	24.71	70.33	1,290.28	563.01	1,376.47	1,327.52	48.94	28.125	
6,000.00	5,093.60	4,832.46	4,615.20	32.11	24.64	69.61	1,289.06	556.66	1,392.22	1,341.42	50.79	27.410	
6,100.00	5,094.46	4,821.36	4,604.83	34.24	24.59	69.15	1,288.11	552.80	1,414.73	1,362.10	52.62	26.884	
6,200.00	5,095.31	4,812.19	4,596.25	36.43	24.54	68.77	1,287.22	549.71	1,443.71	1,389.36	54.35	26.565	
6,300.00	5,096.17	4,800.00	4,584.80	38.67	24.49	68.26	1,285.88	545.74	1,478.83	1,422.96	55.88	26.466	
6,400.00	5,097.03	4,800.00	4,584.80	40.94	24.49	68.26	1,285.88	545.74	1,519.65	1,462.25	57.40	26.477	
6,500.00	5,097.88	4,800.00	4,584.80	43.25	24.49	68.26	1,285.88	545.74	1,565.79	1,507.05	58.75	26.654	
6,600.00	5,098.74	4,800.00	4,584.80	45.59	24.49	68.26	1,285.88	545.74	1,616.81	1,556.88	59.93	26.978	
6,700.00	5,099.60	4,783.15	4,568.93	47.95	24.41	67.57	1,283.75	540.50	1,672.05	1,611.32	60.73	27.533	
6,800.00	5,100.45	4,779.35	4,565.34	50.33	24.39	67.41	1,283.22	539.36	1,731.38	1,669.82	61.56	28.124	
6,900.00	5,101.31	4,775.97	4,562.15	52.73	24.37	67.27	1,282.74	538.36	1,794.32	1,732.05	62.27	28.815	
7,000.00	5,102.17	4,772.94	4,559.28	55.15	24.36	67.14	1,282.30	537.47	1,860.48	1,797.61	62.87	29.592	
7,100.00	5,103.02	4,770.20	4,556.69	57.58	24.34	67.03	1,281.89	536.68	1,929.55	1,866.18	63.37	30.447	
7,200.00	5,103.88	4,767.72	4,554.35	60.02	24.33	66.92	1,281.51	535.97	2,001.22	1,937.43	63.79	31.370	
7,300.00	5,104.74	4,750.00	4,537.56	62.47	24.24	66.19	1,278.61	531.08	2,075.43	2,011.51	63.92	32.469	
7,400.00	5,105.60	4,750.00	4,537.56	64.93	24.24	66.19	1,278.61	531.08	2,151.49	2,087.25	64.24	33.493	
7,500.00	5,106.45	4,750.00	4,537.56	67.40	24.24	66.19	1,278.61	531.08	2,229.43	2,164.94	64.50	34.566	
7,600.00	5,107.31	4,750.00	4,537.56	69.88	24.24	66.19	1,278.61	531.08	2,309.08	2,244.37	64.71	35.682	
7,700.00	5,108.17	4,750.00	4,537.56	72.36	24.24	66.19	1,278.61	531.08	2,390.26	2,325.37	64.89	36.837	
7,800.00	5,109.02	4,750.00	4,537.56	74.85	24.24	66.19	1,278.61	531.08	2,472.82	2,407.79	65.03	38.027	
7,900.00	5,109.88	4,750.00	4,537.56	77.35	24.24	66.19	1,278.61	531.08	2,556.62	2,491.48	65.14	39.248	
8,000.00	5,110.74	4,750.00	4,537.56	79.85	24.24	66.19	1,278.61	531.08	2,641.55	2,576.32	65.23	40.497	
8,100.00	5,111.59	4,750.00	4,537.56	82.35	24.24	66.19	1,278.61	531.08	2,727.50	2,662.20	65.30	41.771	
8,200.00	5,112.45	4,750.00	4,537.56	84.86	24.24	66.19	1,278.61	531.08	2,814.38	2,749.03	65.35	43.068	
8,300.00	5,113.31	4,750.00	4,537.56	87.37	24.24	66.19	1,278.61	531.08	2,902.10	2,836.72	65.38	44.385	
8,400.00	5,114.16	4,750.00	4,537.56	89.89	24.24	66.19	1,278.61	531.08	2,990.60	2,925.19	65.41	45.721	
8,500.00	5,115.02	4,750.00	4,537.56	92.41	24.24	66.19	1,278.61	531.08	3,079.80	3,014.38	65.42	47.074	
8,600.00	5,115.88	4,750.00	4,537.56	94.93	24.24	66.19	1,278.61	531.08	3,169.64	3,104.21	65.43	48.442	
8,700.00	5,116.74	4,750.00	4,537.56	97.45	24.24	66.19	1,278.61	531.08	3,260.08	3,194.65	65.43	49.825	
8,800.00	5,117.59	4,750.00	4,537.56	99.98	24.24	66.19	1,278.61	531.08	3,351.06	3,285.63	65.43	51.219	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 214H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	5,118.45	4,750.00	4,537.56	102.51	24.24	66.19	1,278.61	531.08	3,442.54	3,377.12	65.42	52.626	
9,000.00	5,119.31	4,750.00	4,537.56	105.04	24.24	66.19	1,278.61	531.08	3,534.48	3,469.08	65.40	54.042	
9,100.00	5,120.16	4,750.00	4,537.56	107.58	24.24	66.19	1,278.61	531.08	3,626.85	3,561.47	65.39	55.469	
9,200.00	5,121.02	4,750.00	4,537.56	110.11	24.24	66.19	1,278.61	531.08	3,719.61	3,654.25	65.37	56.904	
9,300.00	5,121.88	4,750.00	4,537.56	112.65	24.24	66.19	1,278.61	531.08	3,812.74	3,747.40	65.35	58.347	
9,400.00	5,122.73	4,750.00	4,537.56	115.19	24.24	66.19	1,278.61	531.08	3,906.21	3,840.89	65.32	59.798	
9,500.00	5,123.59	4,750.00	4,537.56	117.73	24.24	66.19	1,278.61	531.08	4,000.00	3,934.69	65.30	61.255	
9,600.00	5,124.45	4,750.00	4,537.56	120.27	24.24	66.19	1,278.61	531.08	4,094.07	4,028.80	65.28	62.718	
9,700.00	5,125.30	4,750.00	4,537.56	122.81	24.24	66.19	1,278.61	531.08	4,188.43	4,123.17	65.25	64.187	
9,800.00	5,126.16	4,750.00	4,537.56	125.35	24.24	66.19	1,278.61	531.08	4,283.04	4,217.81	65.23	65.661	
9,900.00	5,127.02	4,750.00	4,537.56	127.90	24.24	66.19	1,278.61	531.08	4,377.89	4,312.68	65.21	67.140	
10,000.00	5,127.88	4,750.00	4,537.56	130.45	24.24	66.19	1,278.61	531.08	4,472.96	4,407.78	65.18	68.622	
10,100.00	5,128.73	4,750.00	4,537.56	132.99	24.24	66.19	1,278.61	531.08	4,568.24	4,503.08	65.16	70.109	
10,200.00	5,129.59	4,750.00	4,537.56	135.54	24.24	66.19	1,278.61	531.08	4,663.72	4,598.59	65.14	71.598	
10,300.00	5,130.45	4,750.00	4,537.56	138.09	24.24	66.19	1,278.61	531.08	4,759.39	4,694.27	65.12	73.091	
10,400.00	5,131.30	4,750.00	4,537.56	140.64	24.24	66.19	1,278.61	531.08	4,855.23	4,790.14	65.09	74.587	
10,500.00	5,132.16	4,750.00	4,537.56	143.19	24.24	66.19	1,278.61	531.08	4,951.24	4,886.16	65.07	76.085	
10,600.00	5,133.02	4,750.00	4,537.56	145.74	24.24	66.19	1,278.61	531.08	5,047.40	4,982.34	65.06	77.586	
10,700.00	5,133.87	4,750.00	4,537.56	148.29	24.24	66.19	1,278.61	531.08	5,143.71	5,078.67	65.04	79.088	
10,800.00	5,134.73	4,750.00	4,537.56	150.85	24.24	66.19	1,278.61	531.08	5,240.15	5,175.13	65.02	80.592	
10,900.00	5,135.59	4,750.00	4,537.56	153.40	24.24	66.19	1,278.61	531.08	5,336.73	5,271.72	65.00	82.097	
11,000.00	5,136.44	4,750.00	4,537.56	155.96	24.24	66.19	1,278.61	531.08	5,433.43	5,368.44	64.99	83.604	
11,100.00	5,137.30	4,750.00	4,537.56	158.51	24.24	66.19	1,278.61	531.08	5,530.25	5,465.27	64.98	85.112	
11,200.00	5,138.16	4,750.00	4,537.56	161.07	24.24	66.19	1,278.61	531.08	5,627.18	5,562.21	64.96	86.620	
11,300.00	5,139.02	4,750.00	4,537.56	163.62	24.24	66.19	1,278.61	531.08	5,724.21	5,659.26	64.95	88.130	
11,400.00	5,139.87	4,750.00	4,537.56	166.18	24.24	66.19	1,278.61	531.08	5,821.35	5,756.40	64.94	89.640	
11,500.00	5,140.73	4,750.00	4,537.56	168.73	24.24	66.19	1,278.61	531.08	5,918.58	5,853.64	64.93	91.150	
11,600.00	5,141.59	4,750.00	4,537.56	171.29	24.24	66.19	1,278.61	531.08	6,015.90	5,950.97	64.92	92.660	
11,700.00	5,142.44	4,750.00	4,537.56	173.85	24.24	66.19	1,278.61	531.08	6,113.31	6,048.39	64.92	94.171	
11,800.00	5,143.30	4,750.00	4,537.56	176.41	24.24	66.19	1,278.61	531.08	6,210.80	6,145.88	64.91	95.681	
11,900.00	5,144.16	4,750.00	4,537.56	178.97	24.24	66.19	1,278.61	531.08	6,308.36	6,243.46	64.91	97.192	
12,000.00	5,145.01	4,750.00	4,537.56	181.53	24.24	66.19	1,278.61	531.08	6,406.01	6,341.11	64.90	98.702	
12,100.00	5,145.87	4,750.00	4,537.56	184.09	24.24	66.19	1,278.61	531.08	6,503.72	6,438.82	64.90	100.211	
12,200.00	5,146.73	4,750.00	4,537.56	186.65	24.24	66.19	1,278.61	531.08	6,601.51	6,536.61	64.90	101.720	
12,300.00	5,147.58	4,750.00	4,537.56	189.21	24.24	66.19	1,278.61	531.08	6,699.36	6,634.46	64.90	103.228	
12,400.00	5,148.44	4,750.00	4,537.56	191.77	24.24	66.19	1,278.61	531.08	6,797.27	6,732.37	64.90	104.736	
12,500.00	5,149.30	4,750.00	4,537.56	194.33	24.24	66.19	1,278.61	531.08	6,895.24	6,830.34	64.90	106.242	
12,600.00	5,150.16	4,750.00	4,537.56	196.89	24.24	66.19	1,278.61	531.08	6,993.27	6,928.37	64.90	107.748	
12,700.00	5,151.01	4,750.00	4,537.56	199.45	24.24	66.19	1,278.61	531.08	7,091.35	7,026.45	64.91	109.253	
12,800.00	5,151.87	4,750.00	4,537.56	202.01	24.24	66.19	1,278.61	531.08	7,189.49	7,124.58	64.91	110.756	
12,900.00	5,152.73	4,750.00	4,537.56	204.57	24.24	66.19	1,278.61	531.08	7,287.68	7,222.76	64.92	112.258	
13,000.00	5,153.58	4,750.00	4,537.56	207.14	24.24	66.19	1,278.61	531.08	7,385.91	7,320.99	64.93	113.759	
13,100.00	5,154.44	4,750.00	4,537.56	209.70	24.24	66.19	1,278.61	531.08	7,484.20	7,419.26	64.93	115.259	
13,200.00	5,155.30	4,750.00	4,537.56	212.26	24.24	66.19	1,278.61	531.08	7,582.53	7,517.58	64.94	116.757	
13,282.06	5,156.00	4,750.00	4,537.56	214.37	24.24	66.19	1,278.61	531.08	7,663.26	7,598.31	64.95	117.980	
13,282.88	5,156.01	4,750.00	4,537.56	214.38	24.24	66.19	1,278.61	531.08	7,664.08	7,597.29	66.79	114.757	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 215H - Original Drilling - APD												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	22.24	36.77	15.03	39.72				
100.00	100.00	100.00	100.00	0.15	0.15	22.24	36.77	15.03	39.72	39.41	0.31	128.843	
200.00	200.00	200.00	200.00	0.51	0.51	22.24	36.77	15.03	39.72	38.70	1.03	38.743	
300.00	300.00	300.00	300.00	0.87	0.87	22.24	36.77	15.03	39.72	37.98	1.74	22.799	
400.00	400.00	400.00	400.00	1.23	1.23	22.24	36.77	15.03	39.72	37.26	2.46	16.152 CC, ES	
500.00	499.98	498.64	498.62	1.57	1.58	-113.45	38.04	16.15	42.02	38.86	3.16	13.306	
600.00	599.84	596.92	596.76	1.92	1.94	-116.78	41.85	19.50	49.02	45.17	3.85	12.724	
665.04	664.67	660.47	660.11	2.15	2.17	-119.27	45.66	22.84	56.20	51.88	4.31	13.036	
700.00	699.47	694.47	693.96	2.27	2.29	-120.48	48.13	25.01	60.81	56.26	4.56	13.346	
800.00	799.04	791.26	790.04	2.63	2.65	-122.25	56.81	32.64	76.10	70.84	5.26	14.473	
900.00	898.62	889.43	887.23	3.00	3.02	-122.77	67.19	41.76	93.27	87.30	5.97	15.615	
1,000.00	998.19	987.93	984.76	3.37	3.40	-123.12	77.64	50.94	110.47	103.78	6.70	16.496	
1,100.00	1,097.76	1,086.44	1,082.28	3.74	3.78	-123.38	88.09	60.12	127.68	120.26	7.42	17.197	
1,200.00	1,197.33	1,184.95	1,179.80	4.11	4.17	-123.58	98.53	69.30	144.89	136.74	8.16	17.762	
1,300.00	1,296.91	1,283.46	1,277.32	4.49	4.56	-123.73	108.98	78.48	162.11	153.21	8.89	18.230	
1,400.00	1,396.48	1,381.96	1,374.84	4.87	4.95	-123.86	119.43	87.66	179.32	169.69	9.63	18.622	
1,500.00	1,496.05	1,480.47	1,472.36	5.25	5.34	-123.96	129.87	96.83	196.53	186.16	10.37	18.955	
1,600.00	1,595.62	1,578.98	1,569.88	5.63	5.73	-124.04	140.32	106.01	213.75	202.64	11.11	19.242	
1,700.00	1,695.20	1,677.48	1,667.40	6.01	6.13	-124.12	150.77	115.19	230.96	219.11	11.85	19.491	
1,800.00	1,794.77	1,775.99	1,764.92	6.39	6.52	-124.18	161.22	124.37	248.17	235.58	12.59	19.710	
1,900.00	1,894.34	1,874.50	1,862.44	6.77	6.92	-124.24	171.66	133.55	265.39	252.06	13.33	19.903	
2,000.00	1,993.91	1,973.00	1,959.96	7.15	7.31	-124.28	182.11	142.73	282.61	268.53	14.08	20.075	
2,100.00	2,093.49	2,071.51	2,057.48	7.53	7.71	-124.33	192.56	151.91	299.82	285.00	14.82	20.229	
2,200.00	2,193.06	2,170.02	2,155.00	7.91	8.11	-124.37	203.00	161.09	317.04	301.47	15.57	20.368	
2,300.00	2,292.63	2,268.52	2,252.52	8.29	8.50	-124.40	213.45	170.26	334.25	317.94	16.31	20.493	
2,400.00	2,392.20	2,367.03	2,350.04	8.67	8.90	-124.43	223.90	179.44	351.47	334.41	17.06	20.607	
2,500.00	2,491.77	2,465.54	2,447.56	9.05	9.30	-124.46	234.35	188.62	368.68	350.88	17.80	20.711	
2,600.00	2,591.35	2,564.04	2,545.08	9.43	9.70	-124.48	244.79	197.80	385.90	367.35	18.55	20.807	
2,700.00	2,690.92	2,662.55	2,642.60	9.82	10.09	-124.51	255.24	206.98	403.11	383.82	19.29	20.895	
2,800.00	2,790.49	2,761.06	2,740.12	10.20	10.49	-124.53	265.69	216.16	420.33	400.29	20.04	20.976	
2,900.00	2,890.06	2,859.56	2,837.64	10.58	10.89	-124.55	276.13	225.34	437.55	416.76	20.78	21.051	
3,000.00	2,989.64	2,958.07	2,935.16	10.96	11.29	-124.57	286.58	234.52	454.76	433.23	21.53	21.121	
3,100.00	3,089.21	3,056.58	3,032.68	11.35	11.69	-124.58	297.03	243.69	471.98	449.70	22.28	21.186	
3,200.00	3,188.78	3,155.08	3,130.20	11.73	12.09	-124.60	307.48	252.87	489.20	466.17	23.03	21.246	
3,300.00	3,288.35	3,253.59	3,227.72	12.11	12.48	-124.61	317.92	262.05	506.41	482.64	23.77	21.303	
3,400.00	3,387.93	3,352.10	3,325.24	12.49	12.88	-124.63	328.37	271.23	523.63	499.11	24.52	21.356	
3,500.00	3,487.50	3,450.60	3,422.76	12.88	13.28	-124.64	338.82	280.41	540.84	515.58	25.27	21.406	
3,600.00	3,587.07	3,549.11	3,520.28	13.26	13.68	-124.65	349.27	289.59	558.06	532.05	26.01	21.453	
3,700.00	3,686.64	3,647.62	3,617.80	13.64	14.08	-124.66	359.71	298.77	575.28	548.52	26.76	21.497	
3,800.00	3,786.21	3,746.12	3,715.32	14.02	14.48	-124.67	370.16	307.95	592.49	564.98	27.51	21.538	
3,900.00	3,885.79	3,844.63	3,812.84	14.41	14.88	-124.68	380.61	317.12	609.71	581.45	28.26	21.578	
4,000.00	3,985.36	3,943.14	3,910.36	14.79	15.28	-124.69	391.05	326.30	626.93	597.92	29.00	21.615	
4,100.00	4,084.93	4,041.65	4,007.88	15.17	15.68	-124.70	401.50	335.48	644.14	614.39	29.75	21.651	
4,200.00	4,184.50	4,140.15	4,105.40	15.55	16.07	-124.71	411.95	344.66	661.36	630.86	30.50	21.684	
4,300.00	4,284.08	4,238.66	4,202.92	15.94	16.47	-124.72	422.40	353.84	678.58	647.33	31.25	21.716	
4,400.00	4,383.65	4,337.17	4,300.44	16.32	16.87	-124.73	432.84	363.02	695.79	663.80	32.00	21.746	
4,410.02	4,393.62	4,347.03	4,310.21	16.36	16.91	-124.73	433.89	363.94	697.52	665.45	32.07	21.749	
4,450.00	4,433.52	4,386.52	4,349.31	16.51	17.07	-121.19	438.08	367.62	703.66	671.29	32.36	21.742	
4,500.00	4,483.51	4,436.03	4,398.32	16.67	17.27	49.46	443.33	372.23	709.25	676.53	32.71	21.681	
4,550.00	4,533.30	4,485.40	4,447.19	16.81	17.47	51.95	448.56	376.83	712.53	679.48	33.04	21.563	
4,600.00	4,582.60	4,534.32	4,495.62	16.94	17.67	53.19	453.75	381.39	713.57	680.21	33.36	21.389	
4,650.00	4,631.09	4,582.49	4,543.31	17.07	17.87	54.53	458.86	385.88	712.51	678.84	33.67	21.164	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 215H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,700.00	4,678.48	4,629.62	4,589.97	17.19	18.06	56.13	463.86	390.27	709.52	675.56	33.96	20.894	
4,750.00	4,724.47	4,675.41	4,635.30	17.31	18.24	58.03	468.72	394.54	704.83	670.59	34.24	20.586	
4,800.00	4,768.79	4,716.81	4,676.28	17.43	18.41	60.10	473.11	398.39	698.74	664.25	34.49	20.260	
4,850.00	4,811.16	4,750.00	4,709.12	17.56	18.55	62.05	477.24	400.88	692.05	657.37	34.68	19.955	
4,900.00	4,851.32	4,775.82	4,734.59	17.70	18.65	63.78	481.30	401.97	685.33	650.51	34.82	19.682	
4,950.00	4,889.01	4,800.00	4,758.35	17.86	18.75	65.47	485.77	402.31	678.76	643.80	34.96	19.414	
5,000.00	4,924.02	4,834.00	4,791.54	18.05	18.88	67.70	493.13	401.70	672.44	637.20	35.24	19.083	
5,050.00	4,956.12	4,863.57	4,820.12	18.28	19.00	69.77	500.53	400.13	666.60	631.07	35.53	18.762	
5,100.00	4,985.11	4,893.53	4,848.74	18.55	19.11	71.87	508.97	397.55	661.39	625.49	35.90	18.425	
5,150.00	5,010.81	4,923.93	4,877.39	18.88	19.23	74.01	518.48	393.92	656.99	620.64	36.35	18.073	
5,200.00	5,033.08	4,954.86	4,906.04	19.27	19.34	76.17	529.10	389.19	653.58	616.68	36.90	17.710	
5,250.00	5,051.76	4,986.41	4,934.70	19.72	19.46	78.32	540.91	383.31	651.34	613.79	37.55	17.344	
5,300.00	5,066.75	5,018.70	4,963.35	20.24	19.57	80.46	553.98	376.18	650.44	612.15	38.29	16.986	
5,306.03	5,068.31	5,022.65	4,966.81	20.31	19.59	80.72	555.64	375.24	650.43	612.04	38.39	16.943	
5,350.00	5,077.96	5,051.88	4,992.01	20.81	19.69	82.58	568.40	367.73	651.03	611.93	39.10	16.651	
5,400.00	5,085.30	5,086.13	5,020.67	21.45	19.81	84.66	584.31	357.82	653.25	613.29	39.96	16.349	
5,450.00	5,088.74	5,121.72	5,049.37	22.13	19.93	86.71	601.89	346.27	657.20	616.38	40.83	16.098	
5,463.43	5,089.00	5,131.54	5,057.09	22.32	19.97	87.26	606.92	342.87	658.57	617.51	41.06	16.040	
5,500.00	5,089.31	5,159.95	5,078.89	22.86	20.07	89.16	621.90	332.50	662.99	621.31	41.69	15.904	
5,600.00	5,090.17	5,255.37	5,145.89	24.45	20.40	94.87	676.48	292.25	679.00	635.60	43.40	15.644	
5,700.00	5,091.03	5,382.99	5,218.59	26.20	20.98	100.79	758.00	226.66	696.77	651.53	45.24	15.401	
5,800.00	5,091.88	5,546.03	5,279.18	28.07	22.26	105.40	871.50	127.25	710.19	662.53	47.66	14.901	
5,900.00	5,092.74	5,719.26	5,300.14	30.05	24.43	106.89	995.88	9.26	713.68	662.46	51.22	13.933	
6,000.00	5,093.60	5,819.26	5,301.05	32.11	25.96	106.92	1,067.31	-60.72	712.74	658.03	54.71	13.027	
6,100.00	5,094.46	5,919.25	5,301.96	34.24	27.66	106.95	1,138.73	-130.70	711.81	653.38	58.42	12.184	
6,200.00	5,095.31	6,019.25	5,302.87	36.43	29.49	106.97	1,210.16	-200.67	710.87	648.56	62.31	11.409	
6,300.00	5,096.17	6,119.24	5,303.77	38.67	31.43	107.00	1,281.58	-270.65	709.93	643.60	66.34	10.702	
6,400.00	5,097.03	6,219.24	5,304.68	40.94	33.45	107.03	1,353.00	-340.63	709.00	638.51	70.49	10.059	
6,500.00	5,097.88	6,319.23	5,305.59	43.25	35.55	107.06	1,424.43	-410.60	708.06	633.33	74.74	9.474	
6,600.00	5,098.74	6,419.23	5,306.50	45.59	37.71	107.08	1,495.85	-480.58	707.13	628.06	79.07	8.943	
6,700.00	5,099.60	6,519.22	5,307.41	47.95	39.93	107.11	1,567.28	-550.56	706.19	622.72	83.47	8.461	
6,800.00	5,100.45	6,619.22	5,308.32	50.33	42.18	107.14	1,638.70	-620.53	705.26	617.33	87.92	8.021	
6,900.00	5,101.31	6,719.21	5,309.23	52.73	44.47	107.17	1,710.13	-690.51	704.32	611.89	92.43	7.620	
7,000.00	5,102.17	6,819.21	5,310.14	55.15	46.80	107.19	1,781.55	-760.48	703.39	606.41	96.98	7.253	
7,100.00	5,103.02	6,919.20	5,311.05	57.58	49.15	107.22	1,852.98	-830.46	702.45	600.89	101.56	6.916	
7,200.00	5,103.88	7,019.20	5,311.96	60.02	51.52	107.25	1,924.40	-900.44	701.52	595.34	106.18	6.607	
7,300.00	5,104.74	7,119.19	5,312.87	62.47	53.91	107.28	1,995.83	-970.41	700.58	589.77	110.82	6.322	
7,400.00	5,105.60	7,219.19	5,313.78	64.93	56.32	107.31	2,067.25	-1,040.39	699.65	584.17	115.48	6.058	
7,500.00	5,106.45	7,319.18	5,314.69	67.40	58.74	107.34	2,138.68	-1,110.37	698.72	578.55	120.17	5.815	
7,600.00	5,107.31	7,419.18	5,315.60	69.88	61.18	107.36	2,210.10	-1,180.34	697.78	572.91	124.87	5.588	
7,700.00	5,108.17	7,519.17	5,316.51	72.36	63.63	107.39	2,281.53	-1,250.32	696.85	567.26	129.59	5.377	
7,800.00	5,109.02	7,619.17	5,317.42	74.85	66.08	107.42	2,352.95	-1,320.30	695.92	561.60	134.32	5.181	
7,900.00	5,109.88	7,719.16	5,318.33	77.35	68.55	107.45	2,424.37	-1,390.27	694.98	555.92	139.06	4.998	
8,000.00	5,110.74	7,819.16	5,319.24	79.85	71.03	107.48	2,495.80	-1,460.25	694.05	550.23	143.82	4.826	
8,100.00	5,111.59	7,919.15	5,320.15	82.35	73.51	107.51	2,567.22	-1,530.23	693.12	544.54	148.58	4.665	
8,200.00	5,112.45	8,019.15	5,321.06	84.86	76.01	107.54	2,638.65	-1,600.20	692.18	538.83	153.35	4.514	
8,300.00	5,113.31	8,119.14	5,321.97	87.37	78.50	107.57	2,710.07	-1,670.18	691.25	533.12	158.13	4.371	
8,400.00	5,114.16	8,219.14	5,322.88	89.89	81.01	107.60	2,781.50	-1,740.15	690.32	527.40	162.92	4.237	
8,500.00	5,115.02	8,319.13	5,323.79	92.41	83.51	107.62	2,852.92	-1,810.13	689.39	521.68	167.71	4.111	
8,600.00	5,115.88	8,419.13	5,324.70	94.93	86.03	107.65	2,924.35	-1,880.11	688.46	515.95	172.51	3.991	
8,700.00	5,116.74	8,519.12	5,325.61	97.45	88.54	107.68	2,995.77	-1,950.08	687.52	510.21	177.31	3.878	
8,800.00	5,117.59	8,619.12	5,326.52	99.98	91.06	107.71	3,067.20	-2,020.06	686.59	504.48	182.12	3.770	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 215H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	5,118.45	8,719.12	5,327.43	102.51	93.59	107.74	3,138.62	-2,090.04	685.66	498.73	186.93	3.668	
9,000.00	5,119.31	8,819.11	5,328.34	105.04	96.11	107.77	3,210.05	-2,160.01	684.73	492.99	191.74	3.571	
9,100.00	5,120.16	8,919.11	5,329.25	107.58	98.65	107.80	3,281.47	-2,229.99	683.80	487.24	196.56	3.479	
9,200.00	5,121.02	9,019.10	5,330.16	110.11	101.18	107.83	3,352.90	-2,299.97	682.87	481.49	201.38	3.391	
9,300.00	5,121.88	9,119.10	5,331.07	112.65	103.71	107.86	3,424.32	-2,369.94	681.94	475.74	206.20	3.307	
9,400.00	5,122.73	9,219.09	5,331.98	115.19	106.25	107.89	3,495.74	-2,439.92	681.01	469.98	211.02	3.227	
9,500.00	5,123.59	9,319.09	5,332.89	117.73	108.79	107.92	3,567.17	-2,509.90	680.08	464.23	215.85	3.151	
9,600.00	5,124.45	9,419.08	5,333.80	120.27	111.34	107.95	3,638.59	-2,579.87	679.15	458.47	220.67	3.078	
9,700.00	5,125.30	9,519.08	5,334.71	122.81	113.88	107.98	3,710.02	-2,649.85	678.22	452.71	225.50	3.008	
9,800.00	5,126.16	9,619.07	5,335.62	125.35	116.43	108.01	3,781.44	-2,719.82	677.29	446.96	230.33	2.940	
9,900.00	5,127.02	9,719.07	5,336.53	127.90	118.97	108.04	3,852.87	-2,789.80	676.36	441.20	235.16	2.876	
10,000.00	5,127.88	9,819.06	5,337.44	130.45	121.52	108.07	3,924.29	-2,859.78	675.43	435.43	239.99	2.814	
10,100.00	5,128.73	9,919.06	5,338.35	132.99	124.07	108.10	3,995.72	-2,929.75	674.50	429.67	244.83	2.755	
10,200.00	5,129.59	10,019.05	5,339.26	135.54	126.63	108.13	4,067.14	-2,999.73	673.57	423.91	249.66	2.698	
10,300.00	5,130.45	10,119.05	5,340.17	138.09	129.18	108.16	4,138.57	-3,069.71	672.64	418.15	254.49	2.643	
10,400.00	5,131.30	10,219.04	5,341.08	140.64	131.74	108.19	4,209.99	-3,139.68	671.71	412.39	259.32	2.590	
10,500.00	5,132.16	10,319.04	5,341.99	143.19	134.29	108.23	4,281.42	-3,209.66	670.79	406.63	264.16	2.539	
10,600.00	5,133.02	10,419.03	5,342.89	145.74	136.85	108.26	4,352.84	-3,279.64	669.86	400.87	268.99	2.490	
10,700.00	5,133.87	10,519.03	5,343.80	148.29	139.41	108.29	4,424.27	-3,349.61	668.93	395.11	273.82	2.443	
10,800.00	5,134.73	10,619.02	5,344.71	150.85	141.97	108.32	4,495.69	-3,419.59	668.00	389.35	278.65	2.397	
10,900.00	5,135.59	10,719.02	5,345.62	153.40	144.53	108.35	4,567.11	-3,489.57	667.07	383.59	283.48	2.353	
11,000.00	5,136.44	10,819.01	5,346.53	155.96	147.09	108.38	4,638.54	-3,559.54	666.15	377.83	288.32	2.310	
11,100.00	5,137.30	10,919.01	5,347.44	158.51	149.65	108.41	4,709.96	-3,629.52	665.22	372.07	293.15	2.269	
11,200.00	5,138.16	11,019.00	5,348.35	161.07	152.21	108.44	4,781.39	-3,699.49	664.29	366.32	297.98	2.229	
11,300.00	5,139.02	11,119.00	5,349.26	163.62	154.78	108.47	4,852.81	-3,769.47	663.37	360.56	302.81	2.191	
11,400.00	5,139.87	11,218.99	5,350.17	166.18	157.34	108.51	4,924.24	-3,839.45	662.44	354.80	307.64	2.153	
11,500.00	5,140.73	11,318.99	5,351.08	168.73	159.91	108.54	4,995.66	-3,909.42	661.51	349.05	312.46	2.117	
11,600.00	5,141.59	11,418.98	5,351.99	171.29	162.47	108.57	5,067.09	-3,979.40	660.59	343.29	317.29	2.082	
11,700.00	5,142.44	11,518.98	5,352.90	173.85	165.04	108.60	5,138.51	-4,049.38	659.66	337.54	322.12	2.048	
11,800.00	5,143.30	11,618.97	5,353.81	176.41	167.61	108.63	5,209.94	-4,119.35	658.73	331.79	326.94	2.015	
11,900.00	5,144.16	11,718.97	5,354.72	178.97	170.17	108.67	5,281.36	-4,189.33	657.81	326.04	331.77	1.983	
12,000.00	5,145.01	11,818.96	5,355.63	181.53	172.74	108.70	5,352.79	-4,259.31	656.88	320.29	336.59	1.952	
12,100.00	5,145.87	11,918.96	5,356.54	184.09	175.31	108.73	5,424.21	-4,329.28	655.96	314.55	341.41	1.921	
12,200.00	5,146.73	12,018.95	5,357.45	186.65	177.88	108.76	5,495.64	-4,399.26	655.03	308.80	346.23	1.892	
12,300.00	5,147.58	12,118.95	5,358.36	189.21	180.45	108.79	5,567.06	-4,469.23	654.11	303.05	351.05	1.863	
12,400.00	5,148.44	12,218.94	5,359.27	191.77	183.02	108.83	5,638.48	-4,539.21	653.18	297.31	355.87	1.835	
12,500.00	5,149.30	12,318.94	5,360.18	194.33	185.59	108.86	5,709.91	-4,609.19	652.26	291.57	360.69	1.808	
12,600.00	5,150.16	12,418.93	5,361.09	196.89	188.16	108.89	5,781.33	-4,679.16	651.34	285.83	365.51	1.782	
12,700.00	5,151.01	12,518.94	5,362.00	199.45	190.73	108.93	5,852.69	-4,749.23	650.31	279.99	370.31	1.756	
12,706.02	5,151.06	12,518.94	5,362.00	199.60	190.73	108.93	5,852.69	-4,749.23	650.28	279.78	370.50	1.755 SF	
12,800.00	5,151.87	12,518.94	5,362.00	202.01	190.73	108.93	5,852.69	-4,749.23	657.03	287.68	369.35	1.779	
12,900.00	5,152.73	12,518.94	5,362.00	204.57	190.73	108.93	5,852.69	-4,749.23	678.59	318.12	360.47	1.883	
13,000.00	5,153.58	12,518.94	5,362.00	207.14	190.73	108.93	5,852.69	-4,749.23	713.64	368.06	345.59	2.065	
13,100.00	5,154.44	12,518.94	5,362.00	209.70	190.73	108.93	5,852.69	-4,749.23	760.32	433.20	327.12	2.324	
13,200.00	5,155.30	12,518.94	5,362.00	212.26	190.73	108.93	5,852.69	-4,749.23	816.63	509.41	307.21	2.658	
13,282.06	5,156.00	12,518.94	5,362.00	214.37	190.73	108.92	5,852.69	-4,749.23	868.82	577.89	290.92	2.986	
13,282.88	5,156.01	12,518.94	5,362.00	214.38	190.73	108.92	5,852.69	-4,749.23	869.37	578.27	291.09	2.987	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 216H - Original Drilling - APD												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	22.33	73.90	30.36	79.89				
100.00	100.00	100.00	100.00	0.15	0.15	22.33	73.90	30.36	79.89	79.58	0.31	259.141	
200.00	200.00	200.00	200.00	0.51	0.51	22.33	73.90	30.36	79.89	78.86	1.03	77.924	
300.00	300.00	300.00	300.00	0.87	0.87	22.33	73.90	30.36	79.89	78.15	1.74	45.856	
400.00	400.00	400.00	400.00	1.23	1.23	22.33	73.90	30.36	79.89	77.43	2.46	32.487 CC, ES	
500.00	499.98	497.23	497.21	1.57	1.58	-112.90	75.35	31.15	82.24	79.09	3.15	26.077	
600.00	599.84	594.03	593.88	1.92	1.93	-115.37	79.66	33.50	89.41	85.57	3.84	23.259	
665.04	664.67	656.55	656.21	2.15	2.16	-117.48	83.98	35.85	96.79	92.49	4.30	22.516	
700.00	699.47	689.99	689.49	2.27	2.28	-118.66	86.77	37.38	101.56	97.02	4.54	22.359	
800.00	799.04	785.07	783.91	2.63	2.62	-121.20	96.58	42.73	117.55	112.32	5.23	22.458	
900.00	898.62	879.89	877.66	3.00	2.98	-122.74	109.06	49.53	136.77	130.84	5.93	23.080	
1,000.00	998.19	977.76	974.26	3.37	3.36	-123.81	122.88	57.06	157.10	150.46	6.64	23.650	
1,100.00	1,097.76	1,075.64	1,070.86	3.74	3.75	-124.64	136.69	64.60	177.47	170.11	7.36	24.103	
1,200.00	1,197.33	1,173.51	1,167.46	4.11	4.14	-125.30	150.51	72.13	197.87	189.78	8.09	24.465	
1,300.00	1,296.91	1,271.39	1,264.06	4.49	4.54	-125.83	164.33	79.67	218.29	209.48	8.82	24.759	
1,400.00	1,396.48	1,369.26	1,360.66	4.87	4.94	-126.27	178.15	87.20	238.73	229.18	9.55	25.005	
1,500.00	1,496.05	1,467.14	1,457.26	5.25	5.33	-126.65	191.97	94.73	259.18	248.90	10.28	25.213	
1,600.00	1,595.62	1,565.01	1,553.86	5.63	5.74	-126.97	205.78	102.27	279.63	268.62	11.01	25.390	
1,700.00	1,695.20	1,662.89	1,650.46	6.01	6.14	-127.24	219.60	109.80	300.09	288.35	11.75	25.543	
1,800.00	1,794.77	1,760.76	1,747.06	6.39	6.54	-127.48	233.42	117.34	320.56	308.08	12.48	25.676	
1,900.00	1,894.34	1,858.63	1,843.66	6.77	6.94	-127.69	247.24	124.87	341.04	327.82	13.22	25.793	
2,000.00	1,993.91	1,956.51	1,940.27	7.15	7.35	-127.88	261.06	132.41	361.51	347.56	13.96	25.897	
2,100.00	2,093.49	2,054.38	2,036.87	7.53	7.75	-128.04	274.87	139.94	382.00	367.30	14.70	25.990	
2,200.00	2,193.06	2,152.26	2,133.47	7.91	8.16	-128.19	288.69	147.47	402.48	387.04	15.44	26.072	
2,300.00	2,292.63	2,250.13	2,230.07	8.29	8.56	-128.33	302.51	155.01	422.97	406.79	16.18	26.147	
2,400.00	2,392.20	2,348.01	2,326.67	8.67	8.97	-128.45	316.33	162.54	443.45	426.54	16.92	26.215	
2,500.00	2,491.77	2,445.88	2,423.27	9.05	9.38	-128.57	330.15	170.08	463.94	446.29	17.66	26.276	
2,600.00	2,591.35	2,543.76	2,519.87	9.43	9.78	-128.67	343.96	177.61	484.43	466.04	18.40	26.332	
2,700.00	2,690.92	2,641.63	2,616.47	9.82	10.19	-128.76	357.78	185.15	504.93	485.79	19.14	26.384	
2,800.00	2,790.49	2,739.50	2,713.07	10.20	10.60	-128.85	371.60	192.68	525.42	505.54	19.88	26.431	
2,900.00	2,890.06	2,837.38	2,809.67	10.58	11.00	-128.93	385.42	200.21	545.92	525.30	20.62	26.475	
3,000.00	2,989.64	2,935.25	2,906.27	10.96	11.41	-129.00	399.24	207.75	566.41	545.05	21.36	26.515	
3,100.00	3,089.21	3,033.13	3,002.87	11.35	11.82	-129.07	413.05	215.28	586.91	564.81	22.10	26.553	
3,200.00	3,188.78	3,131.00	3,099.47	11.73	12.22	-129.14	426.87	222.82	607.41	584.56	22.85	26.588	
3,300.00	3,288.35	3,228.88	3,196.08	12.11	12.63	-129.20	440.69	230.35	627.91	604.32	23.59	26.621	
3,400.00	3,387.93	3,326.75	3,292.68	12.49	13.04	-129.26	454.51	237.89	648.40	624.08	24.33	26.651	
3,500.00	3,487.50	3,424.63	3,389.28	12.88	13.45	-129.31	468.33	245.42	668.90	643.83	25.07	26.680	
3,600.00	3,587.07	3,522.50	3,485.88	13.26	13.86	-129.36	482.14	252.95	689.40	663.59	25.81	26.706	
3,700.00	3,686.64	3,620.37	3,582.48	13.64	14.26	-129.41	495.96	260.49	709.90	683.35	26.56	26.731	
3,800.00	3,786.21	3,718.25	3,679.08	14.02	14.67	-129.45	509.78	268.02	730.41	703.11	27.30	26.755	
3,900.00	3,885.79	3,816.12	3,775.68	14.41	15.08	-129.49	523.60	275.56	750.91	722.86	28.04	26.777	
4,000.00	3,985.36	3,914.00	3,872.28	14.79	15.49	-129.53	537.42	283.09	771.41	742.62	28.79	26.799	
4,100.00	4,084.93	4,011.87	3,968.88	15.17	15.90	-129.57	551.23	290.62	791.91	762.38	29.53	26.818	
4,200.00	4,184.50	4,109.75	4,065.48	15.55	16.31	-129.61	565.05	298.16	812.41	782.14	30.27	26.837	
4,300.00	4,284.08	4,207.62	4,162.08	15.94	16.71	-129.64	578.87	305.69	832.92	801.90	31.01	26.855	
4,400.00	4,383.65	4,305.50	4,258.68	16.32	17.12	-129.67	592.69	313.23	853.42	821.66	31.76	26.872	
4,410.02	4,393.62	4,315.30	4,268.36	16.36	17.16	-129.68	594.07	313.98	855.47	823.64	31.83	26.874	
4,450.00	4,433.52	4,354.58	4,307.13	16.51	17.33	-126.22	599.62	317.01	862.85	830.73	32.13	26.859	
4,500.00	4,483.51	4,403.96	4,355.87	16.67	17.53	44.27	606.59	320.81	869.75	837.28	32.47	26.783	
4,550.00	4,533.30	4,453.34	4,404.61	16.81	17.74	46.57	613.56	324.61	874.06	841.26	32.81	26.643	
4,600.00	4,582.60	4,502.42	4,453.05	16.94	17.94	47.56	620.49	328.39	875.82	842.69	33.13	26.437	
4,650.00	4,631.09	4,550.89	4,500.89	17.07	18.15	48.61	627.33	332.12	875.11	841.67	33.44	26.170	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 216H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,700.00	4,678.48	4,598.46	4,547.83	17.19	18.35	49.89	634.05	335.78	872.05	838.31	33.74	25.847	
4,750.00	4,724.47	4,644.83	4,593.60	17.31	18.54	51.45	640.60	339.35	866.81	832.78	34.03	25.474	
4,800.00	4,768.79	4,689.71	4,637.90	17.43	18.73	53.29	646.93	342.80	859.60	825.29	34.31	25.057	
4,850.00	4,811.16	4,847.69	4,793.11	17.56	19.34	60.50	655.42	368.61	847.77	812.61	35.16	24.112	
4,900.00	4,851.32	4,946.47	4,886.83	17.70	19.67	67.40	646.52	398.21	831.50	795.99	35.51	23.416	
4,950.00	4,889.01	5,004.52	4,939.58	17.86	19.85	72.82	636.27	420.11	814.08	778.29	35.78	22.750	
5,000.00	4,924.02	5,037.45	4,968.52	18.05	19.94	76.74	628.84	433.93	797.27	761.19	36.09	22.093	
5,050.00	4,956.12	5,054.63	4,983.31	18.28	19.99	79.45	624.50	441.53	782.07	745.64	36.43	21.469	
5,100.00	4,985.11	5,061.56	4,989.21	18.55	20.01	81.19	622.66	444.67	769.01	732.22	36.80	20.900	
5,150.00	5,010.81	5,061.54	4,989.19	18.88	20.01	82.16	622.67	444.66	758.43	721.25	37.19	20.395	
5,200.00	5,033.08	5,056.62	4,985.01	19.27	20.00	82.51	623.98	442.43	750.51	712.91	37.60	19.960	
5,250.00	5,051.76	5,048.14	4,977.75	19.72	19.98	82.34	626.17	438.63	745.31	707.27	38.04	19.593	
5,300.00	5,066.75	5,037.01	4,968.14	20.24	19.94	81.72	628.94	433.74	742.81	704.31	38.51	19.291	
5,322.59	5,072.29	5,031.28	4,963.16	20.50	19.93	81.32	630.32	431.27	742.55	703.82	38.73	19.173	
5,350.00	5,077.96	5,023.85	4,956.66	20.81	19.90	80.73	632.05	428.10	742.93	703.93	38.99	19.052	
5,400.00	5,085.30	5,009.10	4,943.65	21.45	19.86	79.43	635.31	421.97	745.51	706.01	39.50	18.872	
5,450.00	5,088.74	4,993.09	4,929.36	22.13	19.82	77.85	638.58	415.55	750.37	710.34	40.03	18.746	
5,463.43	5,089.00	4,988.61	4,925.33	22.32	19.80	77.39	639.45	413.79	752.04	711.87	40.17	18.721	
5,500.00	5,089.31	4,976.84	4,914.68	22.86	19.77	76.56	641.62	409.27	757.52	716.96	40.56	18.675 SF	
5,600.00	5,090.17	4,950.00	4,890.09	24.45	19.68	74.65	646.01	399.45	780.14	738.49	41.65	18.729	
5,700.00	5,091.03	4,926.97	4,868.67	26.20	19.61	73.00	649.14	391.58	813.44	770.78	42.66	19.068	
5,800.00	5,091.88	4,900.00	4,843.26	28.07	19.52	71.06	652.07	383.05	856.52	813.08	43.45	19.715	
5,900.00	5,092.74	4,900.00	4,843.26	30.05	19.52	71.06	652.07	383.05	907.99	863.63	44.36	20.469	
6,000.00	5,093.60	4,880.28	4,824.48	32.11	19.45	69.64	653.69	377.27	966.69	921.83	44.86	21.549	
6,100.00	5,094.46	4,869.12	4,813.78	34.24	19.42	68.83	654.42	374.18	1,031.53	986.22	45.31	22.768	
6,200.00	5,095.31	4,850.00	4,795.35	36.43	19.35	67.46	655.34	369.19	1,101.52	1,055.98	45.54	24.190	
6,300.00	5,096.17	4,850.00	4,795.35	38.67	19.35	67.46	655.34	369.19	1,175.52	1,129.65	45.87	25.626	
6,400.00	5,097.03	4,850.00	4,795.35	40.94	19.35	67.46	655.34	369.19	1,253.14	1,207.03	46.12	27.172	
6,500.00	5,097.88	4,850.00	4,795.35	43.25	19.35	67.46	655.34	369.19	1,333.75	1,287.45	46.30	28.809	
6,600.00	5,098.74	4,831.01	4,776.93	45.59	19.28	66.11	655.85	364.61	1,416.45	1,370.20	46.25	30.624	
6,700.00	5,099.60	4,825.69	4,771.75	47.95	19.26	65.73	655.92	363.40	1,501.36	1,455.06	46.30	32.424	
6,800.00	5,100.45	4,820.88	4,767.06	50.33	19.24	65.39	655.95	362.33	1,587.98	1,541.65	46.33	34.274	
6,900.00	5,101.31	4,800.00	4,746.64	52.73	19.17	63.93	655.81	357.96	1,676.32	1,630.12	46.20	36.283	
7,000.00	5,102.17	4,800.00	4,746.64	55.15	19.17	63.93	655.81	357.96	1,765.51	1,719.27	46.24	38.181	
7,100.00	5,103.02	4,800.00	4,746.64	57.58	19.17	63.93	655.81	357.96	1,855.80	1,809.54	46.27	40.112	
7,200.00	5,103.88	4,800.00	4,746.64	60.02	19.17	63.93	655.81	357.96	1,947.04	1,900.76	46.28	42.070	
7,300.00	5,104.74	4,800.00	4,746.64	62.47	19.17	63.93	655.81	357.96	2,039.11	1,992.82	46.29	44.052	
7,400.00	5,105.60	4,800.00	4,746.64	64.93	19.17	63.93	655.81	357.96	2,131.88	2,085.59	46.29	46.054	
7,500.00	5,106.45	4,800.00	4,746.64	67.40	19.17	63.93	655.81	357.96	2,225.29	2,179.00	46.29	48.073	
7,600.00	5,107.31	4,800.00	4,746.64	69.88	19.17	63.93	655.81	357.96	2,319.24	2,272.95	46.29	50.107	
7,700.00	5,108.17	4,800.00	4,746.64	72.36	19.17	63.93	655.81	357.96	2,413.68	2,367.40	46.28	52.154	
7,800.00	5,109.02	4,800.00	4,746.64	74.85	19.17	63.93	655.81	357.96	2,508.55	2,462.27	46.27	54.211	
7,900.00	5,109.88	4,800.00	4,746.64	77.35	19.17	63.93	655.81	357.96	2,603.80	2,557.53	46.27	56.278	
8,000.00	5,110.74	4,800.00	4,746.64	79.85	19.17	63.93	655.81	357.96	2,699.40	2,653.14	46.26	58.353	
8,100.00	5,111.59	4,800.00	4,746.64	82.35	19.17	63.93	655.81	357.96	2,795.30	2,749.05	46.25	60.434	
8,200.00	5,112.45	4,800.00	4,746.64	84.86	19.17	63.93	655.81	357.96	2,891.49	2,845.24	46.25	62.522	
8,300.00	5,113.31	4,800.00	4,746.64	87.37	19.17	63.93	655.81	357.96	2,987.92	2,941.68	46.24	64.613	
8,400.00	5,114.16	4,800.00	4,746.64	89.89	19.17	63.93	655.81	357.96	3,084.58	3,038.34	46.24	66.709	
8,500.00	5,115.02	4,778.17	4,725.20	92.41	19.08	62.41	655.13	353.90	3,181.01	3,134.92	46.09	69.013	
8,600.00	5,115.88	4,776.82	4,723.88	94.93	19.08	62.32	655.07	353.67	3,278.01	3,231.93	46.08	71.132	
8,700.00	5,116.74	4,775.55	4,722.63	97.45	19.07	62.23	655.01	353.45	3,375.18	3,329.11	46.08	73.252	
8,800.00	5,117.59	4,774.34	4,721.43	99.98	19.07	62.14	654.96	353.24	3,472.51	3,426.44	46.07	75.374	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 216H - Original Drilling - APD												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	5,118.45	4,773.19	4,720.30	102.51	19.06	62.07	654.90	353.05	3,569.99	3,523.92	46.07	77.496	
9,000.00	5,119.31	4,772.09	4,719.22	105.04	19.06	61.99	654.85	352.86	3,667.60	3,621.54	46.06	79.619	
9,100.00	5,120.16	4,750.00	4,697.44	107.58	18.97	60.49	653.47	349.43	3,765.73	3,719.81	45.93	81.991	
9,200.00	5,121.02	4,750.00	4,697.44	110.11	18.97	60.49	653.47	349.43	3,863.54	3,817.61	45.94	84.106	
9,300.00	5,121.88	4,750.00	4,697.44	112.65	18.97	60.49	653.47	349.43	3,961.46	3,915.51	45.95	86.220	
9,400.00	5,122.73	4,750.00	4,697.44	115.19	18.97	60.49	653.47	349.43	4,059.48	4,013.52	45.96	88.332	
9,500.00	5,123.59	4,750.00	4,697.44	117.73	18.97	60.49	653.47	349.43	4,157.60	4,111.63	45.97	90.444	
9,600.00	5,124.45	4,750.00	4,697.44	120.27	18.97	60.49	653.47	349.43	4,255.80	4,209.82	45.98	92.554	
9,700.00	5,125.30	4,750.00	4,697.44	122.81	18.97	60.49	653.47	349.43	4,354.08	4,308.09	46.00	94.663	
9,800.00	5,126.16	4,750.00	4,697.44	125.35	18.97	60.49	653.47	349.43	4,452.44	4,406.43	46.01	96.769	
9,900.00	5,127.02	4,750.00	4,697.44	127.90	18.97	60.49	653.47	349.43	4,550.87	4,504.85	46.03	98.873	
10,000.00	5,127.88	4,750.00	4,697.44	130.45	18.97	60.49	653.47	349.43	4,649.37	4,603.33	46.04	100.975	
10,100.00	5,128.73	4,750.00	4,697.44	132.99	18.97	60.49	653.47	349.43	4,747.93	4,701.87	46.06	103.073	
10,200.00	5,129.59	4,750.00	4,697.44	135.54	18.97	60.49	653.47	349.43	4,846.55	4,800.47	46.08	105.169	
10,300.00	5,130.45	4,750.00	4,697.44	138.09	18.97	60.49	653.47	349.43	4,945.23	4,899.13	46.10	107.262	
10,400.00	5,131.30	4,750.00	4,697.44	140.64	18.97	60.49	653.47	349.43	5,043.96	4,997.83	46.13	109.351	
10,500.00	5,132.16	4,750.00	4,697.44	143.19	18.97	60.49	653.47	349.43	5,142.73	5,096.59	46.15	111.437	
10,600.00	5,133.02	4,750.00	4,697.44	145.74	18.97	60.49	653.47	349.43	5,241.56	5,195.38	46.17	113.519	
10,700.00	5,133.87	4,750.00	4,697.44	148.29	18.97	60.49	653.47	349.43	5,340.43	5,294.23	46.20	115.597	
10,800.00	5,134.73	4,750.00	4,697.44	150.85	18.97	60.49	653.47	349.43	5,439.33	5,393.11	46.22	117.672	
10,900.00	5,135.59	4,750.00	4,697.44	153.40	18.97	60.49	653.47	349.43	5,538.28	5,492.03	46.25	119.742	
11,000.00	5,136.44	4,750.00	4,697.44	155.96	18.97	60.49	653.47	349.43	5,637.27	5,590.99	46.28	121.808	
11,100.00	5,137.30	4,750.00	4,697.44	158.51	18.97	60.49	653.47	349.43	5,736.29	5,689.98	46.31	123.869	
11,200.00	5,138.16	4,750.00	4,697.44	161.07	18.97	60.49	653.47	349.43	5,835.34	5,789.00	46.34	125.926	
11,300.00	5,139.02	4,750.00	4,697.44	163.62	18.97	60.49	653.47	349.43	5,934.43	5,888.06	46.37	127.979	
11,400.00	5,139.87	4,750.00	4,697.44	166.18	18.97	60.49	653.47	349.43	6,033.54	5,987.14	46.40	130.026	
11,500.00	5,140.73	4,750.00	4,697.44	168.73	18.97	60.49	653.47	349.43	6,132.69	6,086.25	46.44	132.069	
11,600.00	5,141.59	4,750.00	4,697.44	171.29	18.97	60.49	653.47	349.43	6,231.86	6,185.39	46.47	134.107	
11,700.00	5,142.44	4,750.00	4,697.44	173.85	18.97	60.49	653.47	349.43	6,331.06	6,284.55	46.50	136.140	
11,800.00	5,143.30	4,750.00	4,697.44	176.41	18.97	60.49	653.47	349.43	6,430.28	6,383.74	46.54	138.167	
11,900.00	5,144.16	4,750.00	4,697.44	178.97	18.97	60.49	653.47	349.43	6,529.52	6,482.95	46.58	140.190	
12,000.00	5,145.01	4,750.00	4,697.44	181.53	18.97	60.49	653.47	349.43	6,628.79	6,582.18	46.61	142.207	
12,100.00	5,145.87	4,750.00	4,697.44	184.09	18.97	60.49	653.47	349.43	6,728.08	6,681.43	46.65	144.218	
12,200.00	5,146.73	4,750.00	4,697.44	186.65	18.97	60.49	653.47	349.43	6,827.40	6,780.70	46.69	146.225	
12,300.00	5,147.58	4,750.00	4,697.44	189.21	18.97	60.49	653.47	349.43	6,926.73	6,880.00	46.73	148.225	
12,400.00	5,148.44	4,750.00	4,697.44	191.77	18.97	60.49	653.47	349.43	7,026.08	6,979.30	46.77	150.220	
12,500.00	5,149.30	4,750.00	4,697.44	194.33	18.97	60.49	653.47	349.43	7,125.44	7,078.63	46.81	152.209	
12,600.00	5,150.16	4,750.00	4,697.44	196.89	18.97	60.49	653.47	349.43	7,224.83	7,177.97	46.86	154.192	
12,700.00	5,151.01	4,750.00	4,697.44	199.45	18.97	60.49	653.47	349.43	7,324.23	7,277.33	46.90	156.169	
12,800.00	5,151.87	4,750.00	4,697.44	202.01	18.97	60.49	653.47	349.43	7,423.65	7,376.71	46.94	158.140	
12,900.00	5,152.73	4,750.00	4,697.44	204.57	18.97	60.49	653.47	349.43	7,523.09	7,476.10	46.99	160.106	
13,000.00	5,153.58	4,750.00	4,697.44	207.14	18.97	60.49	653.47	349.43	7,622.53	7,575.50	47.03	162.065	
13,100.00	5,154.44	4,750.00	4,697.44	209.70	18.97	60.49	653.47	349.43	7,722.00	7,674.92	47.08	164.018	
13,200.00	5,155.30	4,750.00	4,697.44	212.26	18.97	60.49	653.47	349.43	7,821.47	7,774.35	47.13	165.965	
13,282.06	5,156.00	4,750.00	4,697.44	214.37	18.97	60.49	653.47	349.43	7,903.12	7,855.95	47.17	167.549	
13,282.88	5,156.01	4,750.00	4,697.44	214.38	18.97	60.49	653.47	349.43	7,903.94	7,854.05	49.89	158.422	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 218H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	22.83	18.20	7.66	19.75				
100.00	100.00	100.00	100.00	0.15	0.15	22.83	18.20	7.66	19.75	19.44	0.31	64.059	
200.00	200.00	200.00	200.00	0.51	0.51	22.83	18.20	7.66	19.75	18.72	1.03	19.263	
300.00	300.00	300.00	300.00	0.87	0.87	22.83	18.20	7.66	19.75	18.01	1.74	11.336	
400.00	400.00	400.00	400.00	1.23	1.23	22.83	18.20	7.66	19.75	17.29	2.46	8.031	CC, ES
500.00	499.98	499.51	499.50	1.57	1.58	-114.59	18.82	8.41	21.29	18.13	3.16	6.737	
600.00	599.84	599.10	599.03	1.92	1.94	-120.80	21.11	11.16	26.72	22.86	3.86	6.929	
665.04	664.67	663.90	663.78	2.15	2.17	-126.27	22.68	13.05	31.55	27.23	4.32	7.309	
700.00	699.47	698.70	698.55	2.27	2.29	-129.11	23.53	14.06	34.48	29.92	4.56	7.555	
800.00	799.04	798.23	798.02	2.63	2.65	-135.05	25.95	16.97	43.23	37.96	5.27	8.197	
900.00	898.62	897.77	897.48	3.00	3.01	-138.97	28.37	19.87	52.29	46.30	5.99	8.734	
1,000.00	998.19	997.31	996.94	3.37	3.36	-141.72	30.79	22.78	61.51	54.81	6.70	9.178	
1,100.00	1,097.76	1,096.84	1,096.41	3.74	3.72	-143.75	33.20	25.68	70.84	63.42	7.42	9.549	
1,200.00	1,197.33	1,196.38	1,195.87	4.11	4.08	-145.31	35.62	28.59	80.24	72.10	8.14	9.861	
1,300.00	1,296.91	1,295.92	1,295.34	4.49	4.44	-146.54	38.04	31.49	89.68	80.82	8.86	10.126	
1,400.00	1,396.48	1,395.45	1,394.80	4.87	4.80	-147.54	40.46	34.40	99.15	89.58	9.58	10.355	
1,500.00	1,496.05	1,494.99	1,494.27	5.25	5.16	-148.36	42.88	37.30	108.65	98.36	10.30	10.553	
1,600.00	1,595.62	1,594.53	1,593.73	5.63	5.52	-149.05	45.30	40.21	118.17	107.16	11.02	10.726	
1,700.00	1,695.20	1,694.06	1,693.20	6.01	5.87	-149.64	47.72	43.11	127.71	115.97	11.74	10.879	
1,800.00	1,794.77	1,793.60	1,792.66	6.39	6.23	-150.14	50.14	46.02	137.25	124.79	12.46	11.015	
1,900.00	1,894.34	1,893.14	1,892.13	6.77	6.59	-150.58	52.55	48.92	146.80	133.62	13.18	11.136	
2,000.00	1,993.91	1,992.67	1,991.59	7.15	6.95	-150.97	54.97	51.83	156.37	142.46	13.91	11.245	
2,100.00	2,093.49	2,092.21	2,091.06	7.53	7.31	-151.31	57.39	54.73	165.93	151.31	14.63	11.344	
2,200.00	2,193.06	2,191.75	2,190.52	7.91	7.67	-151.61	59.81	57.64	175.51	160.16	15.35	11.433	
2,300.00	2,292.63	2,291.28	2,289.99	8.29	8.03	-151.88	62.23	60.54	185.08	169.01	16.07	11.515	
2,400.00	2,392.20	2,390.82	2,389.45	8.67	8.39	-152.13	64.65	63.45	194.66	177.87	16.80	11.589	
2,500.00	2,491.77	2,490.36	2,488.92	9.05	8.75	-152.35	67.07	66.36	204.25	186.73	17.52	11.658	
2,600.00	2,591.35	2,589.89	2,588.38	9.43	9.11	-152.56	69.48	69.26	213.84	195.59	18.24	11.721	
2,700.00	2,690.92	2,689.43	2,687.85	9.82	9.47	-152.74	71.90	72.17	223.43	204.46	18.97	11.780	
2,800.00	2,790.49	2,788.97	2,787.31	10.20	9.83	-152.91	74.32	75.07	233.02	213.33	19.69	11.834	
2,900.00	2,890.06	2,888.50	2,886.78	10.58	10.19	-153.07	76.74	77.98	242.61	222.20	20.41	11.885	
3,000.00	2,989.64	2,988.04	2,986.24	10.96	10.55	-153.21	79.16	80.88	252.21	231.07	21.14	11.932	
3,100.00	3,089.21	3,087.58	3,085.71	11.35	10.91	-153.35	81.58	83.79	261.80	239.94	21.86	11.975	
3,200.00	3,188.78	3,187.11	3,185.17	11.73	11.27	-153.47	84.00	86.69	271.40	248.81	22.59	12.017	
3,300.00	3,288.35	3,286.65	3,284.64	12.11	11.63	-153.59	86.41	89.60	281.00	257.69	23.31	12.055	
3,400.00	3,387.93	3,386.19	3,384.10	12.49	11.99	-153.70	88.83	92.50	290.60	266.57	24.03	12.092	
3,500.00	3,487.50	3,485.72	3,483.57	12.88	12.35	-153.80	91.25	95.41	300.20	275.44	24.76	12.126	
3,600.00	3,587.07	3,585.26	3,583.03	13.26	12.70	-153.89	93.67	98.31	309.80	284.32	25.48	12.158	
3,700.00	3,686.64	3,684.80	3,682.50	13.64	13.06	-153.98	96.09	101.22	319.41	293.20	26.21	12.188	
3,800.00	3,786.21	3,784.33	3,781.96	14.02	13.42	-154.07	98.51	104.12	329.01	302.08	26.93	12.217	
3,900.00	3,885.79	3,883.87	3,881.43	14.41	13.78	-154.15	100.93	107.03	338.61	310.96	27.65	12.245	
4,000.00	3,985.36	3,983.41	3,980.89	14.79	14.14	-154.22	103.35	109.93	348.22	319.84	28.38	12.271	
4,100.00	4,084.93	4,082.94	4,080.36	15.17	14.50	-154.29	105.76	112.84	357.82	328.72	29.10	12.295	
4,200.00	4,184.50	4,182.48	4,179.82	15.55	14.86	-154.36	108.18	115.74	367.43	337.60	29.83	12.319	
4,300.00	4,284.08	4,282.02	4,279.29	15.94	15.22	-154.42	110.60	118.65	377.04	346.48	30.55	12.341	
4,400.00	4,383.65	4,381.55	4,378.75	16.32	15.58	-154.48	113.02	121.55	386.64	355.37	31.28	12.363	
4,410.02	4,393.62	4,391.52	4,388.71	16.36	15.62	-154.49	113.26	121.84	387.61	356.26	31.35	12.365	
4,450.00	4,433.52	4,431.41	4,428.57	16.51	15.76	-150.63	114.23	123.01	390.30	358.66	31.64	12.337	
4,500.00	4,483.51	4,517.25	4,514.22	16.67	16.07	20.85	113.99	127.83	389.11	357.00	32.11	12.118	
4,550.00	4,533.30	4,622.52	4,617.45	16.81	16.44	25.94	102.86	144.47	377.51	345.34	32.17	11.736	
4,600.00	4,582.60	4,712.25	4,701.89	16.94	16.76	31.75	83.91	167.92	356.55	324.72	31.83	11.202	
4,650.00	4,631.09	4,783.38	4,765.31	17.07	17.03	39.73	62.95	192.26	328.81	297.35	31.46	10.452	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 218H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
4,700.00	4,678.48	4,836.95	4,810.50	17.19	17.24	49.82	43.86	213.74	296.99	265.67	31.32	9.482	
4,750.00	4,724.47	4,875.73	4,841.63	17.31	17.41	60.97	28.36	230.89	263.70	232.11	31.59	8.347	
4,800.00	4,768.79	4,902.70	4,862.43	17.43	17.54	71.46	16.78	243.57	231.61	199.27	32.34	7.162	
4,850.00	4,811.16	4,920.47	4,875.72	17.56	17.63	79.72	8.81	252.25	203.80	170.28	33.52	6.080	
4,900.00	4,851.32	4,931.07	4,883.50	17.70	17.68	85.05	3.92	257.55	183.96	149.16	34.80	5.287	
4,950.00	4,889.01	4,936.08	4,887.13	17.86	17.71	87.44	1.58	260.08	175.82	140.31	35.51	4.951	
4,954.87	4,892.54	4,936.32	4,887.30	17.88	17.71	87.53	1.47	260.20	175.76	140.23	35.53	4.947 SF	
5,000.00	4,924.02	4,936.69	4,887.57	18.05	17.71	87.15	1.29	260.39	181.40	146.23	35.17	5.158	
5,050.00	4,956.12	4,933.79	4,885.47	18.28	17.70	84.46	2.65	258.92	199.55	165.48	34.07	5.858	
5,100.00	4,985.11	4,928.07	4,881.31	18.55	17.67	79.70	5.31	256.04	227.06	194.21	32.85	6.913	
5,150.00	5,010.81	4,920.07	4,875.43	18.88	17.63	73.28	8.99	252.05	260.62	228.74	31.88	8.174	
5,200.00	5,033.08	4,910.18	4,868.06	19.27	17.58	65.82	13.46	247.19	297.77	266.52	31.25	9.528	
5,250.00	5,051.76	4,900.00	4,860.38	19.72	17.53	58.30	17.97	242.27	336.87	305.91	30.96	10.882	
5,300.00	5,066.75	4,885.97	4,849.62	20.24	17.46	50.50	24.04	235.63	376.85	346.09	30.76	12.250	
5,350.00	5,077.96	4,872.12	4,838.79	20.81	17.40	43.75	29.86	229.24	417.00	386.23	30.77	13.551	
5,400.00	5,085.30	4,850.00	4,821.14	21.45	17.30	37.10	38.80	219.36	456.93	426.29	30.64	14.915	
5,450.00	5,088.74	4,850.00	4,821.14	22.13	17.30	33.79	38.80	219.36	496.10	464.77	31.33	15.835	
5,463.43	5,089.00	4,837.43	4,810.90	22.32	17.25	31.88	43.68	213.94	506.35	475.21	31.13	16.264	
5,500.00	5,089.31	4,825.95	4,801.42	22.86	17.20	30.94	48.01	209.11	534.77	503.46	31.31	17.081	
5,600.00	5,090.17	4,800.00	4,779.59	24.45	17.09	28.94	57.32	198.64	615.10	583.28	31.83	19.327	
5,700.00	5,091.03	4,772.75	4,756.07	26.20	16.99	27.01	66.40	188.31	698.56	666.38	32.18	21.706	
5,800.00	5,091.88	4,750.00	4,736.00	28.07	16.90	25.53	73.42	180.23	784.50	751.97	32.52	24.122	
5,900.00	5,092.74	4,732.06	4,719.91	30.05	16.84	24.44	78.58	174.21	872.38	839.54	32.85	26.558	
6,000.00	5,093.60	4,715.20	4,704.59	32.11	16.78	23.47	83.14	168.83	961.86	928.74	33.11	29.048	
6,100.00	5,094.46	4,700.00	4,690.62	34.24	16.72	22.65	87.00	164.24	1,052.62	1,019.29	33.34	31.574	
6,200.00	5,095.31	4,700.00	4,690.62	36.43	16.72	22.65	87.00	164.24	1,144.68	1,111.02	33.66	34.003	
6,300.00	5,096.17	4,674.64	4,667.01	38.67	16.63	21.36	92.89	157.08	1,237.21	1,203.51	33.70	36.708	
6,400.00	5,097.03	4,650.00	4,643.75	40.94	16.54	20.21	97.97	150.77	1,330.93	1,297.19	33.74	39.445	
6,500.00	5,097.88	4,650.00	4,643.75	43.25	16.54	20.21	97.97	150.77	1,424.88	1,390.93	33.95	41.964	
6,600.00	5,098.74	4,650.00	4,643.75	45.59	16.54	20.21	97.97	150.77	1,519.60	1,485.47	34.13	44.521	
6,700.00	5,099.60	4,650.00	4,643.75	47.95	16.54	20.21	97.97	150.77	1,614.96	1,580.68	34.28	47.108	
6,800.00	5,100.45	4,628.86	4,623.55	50.33	16.47	19.30	101.80	145.86	1,710.37	1,676.08	34.29	49.875	
6,900.00	5,101.31	4,621.87	4,616.83	52.73	16.44	19.01	102.97	144.33	1,806.35	1,771.97	34.38	52.544	
7,000.00	5,102.17	4,600.00	4,595.67	55.15	16.36	18.15	106.26	139.91	1,902.90	1,868.52	34.38	55.348	
7,100.00	5,103.02	4,600.00	4,595.67	57.58	16.36	18.15	106.26	139.91	1,999.33	1,964.84	34.48	57.978	
7,200.00	5,103.88	4,600.00	4,595.67	60.02	16.36	18.15	106.26	139.91	2,096.09	2,061.51	34.58	60.620	
7,300.00	5,104.74	4,600.00	4,595.67	62.47	16.36	18.15	106.26	139.91	2,193.15	2,158.49	34.66	63.272	
7,400.00	5,105.60	4,600.00	4,595.67	64.93	16.36	18.15	106.26	139.91	2,290.46	2,255.72	34.74	65.933	
7,500.00	5,106.45	4,600.00	4,595.67	67.40	16.36	18.15	106.26	139.91	2,387.99	2,353.18	34.81	68.600	
7,600.00	5,107.31	4,600.00	4,595.67	69.88	16.36	18.15	106.26	139.91	2,485.71	2,450.84	34.88	71.271	
7,700.00	5,108.17	4,600.00	4,595.67	72.36	16.36	18.15	106.26	139.91	2,583.61	2,548.67	34.94	73.945	
7,800.00	5,109.02	4,577.38	4,573.59	74.85	16.28	17.32	109.12	135.87	2,681.17	2,646.25	34.93	76.764	
7,900.00	5,109.88	4,573.85	4,570.14	77.35	16.27	17.19	109.52	135.29	2,779.20	2,744.23	34.98	79.459	
8,000.00	5,110.74	4,570.52	4,566.87	79.85	16.26	17.08	109.88	134.76	2,877.35	2,842.33	35.02	82.153	
8,100.00	5,111.59	4,550.00	4,546.67	82.35	16.19	16.39	111.83	131.72	2,975.89	2,940.86	35.02	84.972	
8,200.00	5,112.45	4,550.00	4,546.67	84.86	16.19	16.39	111.83	131.72	3,074.14	3,039.06	35.08	87.637	
8,300.00	5,113.31	4,550.00	4,546.67	87.37	16.19	16.39	111.83	131.72	3,172.50	3,137.37	35.13	90.301	
8,400.00	5,114.16	4,550.00	4,546.67	89.89	16.19	16.39	111.83	131.72	3,270.97	3,235.78	35.19	92.963	
8,500.00	5,115.02	4,550.00	4,546.67	92.41	16.19	16.39	111.83	131.72	3,369.52	3,334.28	35.24	95.623	
8,600.00	5,115.88	4,550.00	4,546.67	94.93	16.19	16.39	111.83	131.72	3,468.15	3,432.86	35.29	98.279	
8,700.00	5,116.74	4,550.00	4,546.67	97.45	16.19	16.39	111.83	131.72	3,566.87	3,531.53	35.34	100.931	
8,800.00	5,117.59	4,550.00	4,546.67	99.98	16.19	16.39	111.83	131.72	3,665.65	3,630.26	35.39	103.579	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - # 218H - Original Drilling - APD													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	5,118.45	4,550.00	4,546.67	102.51	16.19	16.39	111.83	131.72	3,764.49	3,729.05	35.44	106.222	
9,000.00	5,119.31	4,550.00	4,546.67	105.04	16.19	16.39	111.83	131.72	3,863.40	3,827.91	35.49	108.860	
9,100.00	5,120.16	4,550.00	4,546.67	107.58	16.19	16.39	111.83	131.72	3,962.36	3,926.82	35.54	111.493	
9,200.00	5,121.02	4,550.00	4,546.67	110.11	16.19	16.39	111.83	131.72	4,061.37	4,025.78	35.59	114.119	
9,300.00	5,121.88	4,550.00	4,546.67	112.65	16.19	16.39	111.83	131.72	4,160.43	4,124.79	35.64	116.739	
9,400.00	5,122.73	4,550.00	4,546.67	115.19	16.19	16.39	111.83	131.72	4,259.53	4,223.84	35.69	119.353	
9,500.00	5,123.59	4,550.00	4,546.67	117.73	16.19	16.39	111.83	131.72	4,358.67	4,322.93	35.74	121.960	
9,600.00	5,124.45	4,550.00	4,546.67	120.27	16.19	16.39	111.83	131.72	4,457.85	4,422.07	35.79	124.559	
9,700.00	5,125.30	4,550.00	4,546.67	122.81	16.19	16.39	111.83	131.72	4,557.07	4,521.23	35.84	127.151	
9,800.00	5,126.16	4,550.00	4,546.67	125.35	16.19	16.39	111.83	131.72	4,656.32	4,620.43	35.89	129.736	
9,900.00	5,127.02	4,550.00	4,546.67	127.90	16.19	16.39	111.83	131.72	4,755.60	4,719.66	35.94	132.312	
10,000.00	5,127.88	4,550.00	4,546.67	130.45	16.19	16.39	111.83	131.72	4,854.92	4,818.92	35.99	134.880	
10,100.00	5,128.73	4,527.79	4,524.70	132.99	16.11	15.70	113.42	128.96	4,953.82	4,917.82	36.00	137.590	
10,200.00	5,129.59	4,526.54	4,523.45	135.54	16.10	15.66	113.50	128.82	5,053.14	5,017.08	36.06	140.151	
10,300.00	5,130.45	4,525.33	4,522.25	138.09	16.10	15.62	113.57	128.68	5,152.47	5,116.37	36.11	142.702	
10,400.00	5,131.30	4,524.16	4,521.09	140.64	16.09	15.59	113.63	128.56	5,251.84	5,215.68	36.16	145.244	
10,500.00	5,132.16	4,523.02	4,519.96	143.19	16.09	15.56	113.69	128.43	5,351.22	5,315.01	36.21	147.777	
10,600.00	5,133.02	4,500.00	4,497.06	145.74	16.01	14.90	114.64	126.26	5,451.05	5,414.82	36.23	150.476	
10,700.00	5,133.87	4,500.00	4,497.06	148.29	16.01	14.90	114.64	126.26	5,550.43	5,514.15	36.28	152.982	
10,800.00	5,134.73	4,500.00	4,497.06	150.85	16.01	14.90	114.64	126.26	5,649.83	5,613.50	36.34	155.479	
10,900.00	5,135.59	4,500.00	4,497.06	153.40	16.01	14.90	114.64	126.26	5,749.26	5,712.86	36.40	157.966	
11,000.00	5,136.44	4,500.00	4,497.06	155.96	16.01	14.90	114.64	126.26	5,848.70	5,812.25	36.45	160.444	
11,100.00	5,137.30	4,500.00	4,497.06	158.51	16.01	14.90	114.64	126.26	5,948.17	5,911.66	36.51	162.911	
11,200.00	5,138.16	4,500.00	4,497.06	161.07	16.01	14.90	114.64	126.26	6,047.65	6,011.08	36.57	165.369	
11,300.00	5,139.02	4,500.00	4,497.06	163.62	16.01	14.90	114.64	126.26	6,147.15	6,110.52	36.63	167.816	
11,400.00	5,139.87	4,500.00	4,497.06	166.18	16.01	14.90	114.64	126.26	6,246.66	6,209.97	36.69	170.254	
11,500.00	5,140.73	4,500.00	4,497.06	168.73	16.01	14.90	114.64	126.26	6,346.19	6,309.44	36.75	172.680	
11,600.00	5,141.59	4,500.00	4,497.06	171.29	16.01	14.90	114.64	126.26	6,445.74	6,408.92	36.81	175.097	
11,700.00	5,142.44	4,500.00	4,497.06	173.85	16.01	14.90	114.64	126.26	6,545.29	6,508.42	36.87	177.502	
11,800.00	5,143.30	4,500.00	4,497.06	176.41	16.01	14.90	114.64	126.26	6,644.86	6,607.93	36.94	179.897	
11,900.00	5,144.16	4,500.00	4,497.06	178.97	16.01	14.90	114.64	126.26	6,744.45	6,707.45	37.00	182.282	
12,000.00	5,145.01	4,500.00	4,497.06	181.53	16.01	14.90	114.64	126.26	6,844.04	6,806.98	37.06	184.655	
12,100.00	5,145.87	4,500.00	4,497.06	184.09	16.01	14.90	114.64	126.26	6,943.65	6,906.52	37.13	187.017	
12,200.00	5,146.73	4,500.00	4,497.06	186.65	16.01	14.90	114.64	126.26	7,043.27	7,006.08	37.19	189.369	
12,300.00	5,147.58	4,500.00	4,497.06	189.21	16.01	14.90	114.64	126.26	7,142.90	7,105.64	37.26	191.709	
12,400.00	5,148.44	4,500.00	4,497.06	191.77	16.01	14.90	114.64	126.26	7,242.54	7,205.22	37.33	194.038	
12,500.00	5,149.30	4,500.00	4,497.06	194.33	16.01	14.90	114.64	126.26	7,342.19	7,304.80	37.39	196.356	
12,600.00	5,150.16	4,500.00	4,497.06	196.89	16.01	14.90	114.64	126.26	7,441.85	7,404.39	37.46	198.663	
12,700.00	5,151.01	4,500.00	4,497.06	199.45	16.01	14.90	114.64	126.26	7,541.52	7,503.99	37.53	200.958	
12,800.00	5,151.87	4,500.00	4,497.06	202.01	16.01	14.90	114.64	126.26	7,641.19	7,603.60	37.60	203.242	
12,900.00	5,152.73	4,500.00	4,497.06	204.57	16.01	14.90	114.64	126.26	7,740.88	7,703.21	37.67	205.514	
13,000.00	5,153.58	4,500.00	4,497.06	207.14	16.01	14.90	114.64	126.26	7,840.57	7,802.84	37.74	207.775	
13,100.00	5,154.44	4,500.00	4,497.06	209.70	16.01	14.90	114.64	126.26	7,940.27	7,902.47	37.81	210.025	
13,200.00	5,155.30	4,500.00	4,497.06	212.26	16.01	14.90	114.64	126.26	8,039.98	8,002.10	37.88	212.263	
13,282.06	5,156.00	4,500.00	4,497.06	214.37	16.01	14.91	114.64	126.26	8,121.80	8,083.87	37.94	214.087	
13,282.88	5,156.01	4,500.00	4,497.06	214.38	16.01	14.91	114.64	126.26	8,122.63	8,081.34	41.29	196.743	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Dome Federal 35-24-9 #1 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5370-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	70.00	70.00	0.00	2.80	160.82	-4,563.73	1,587.37	4,831.91				
100.00	100.00	170.00	170.00	0.15	6.80	160.82	-4,563.73	1,587.37	4,831.91	4,824.96	6.95	694.806	
200.00	200.00	270.00	270.00	0.51	10.80	160.82	-4,563.73	1,587.37	4,831.91	4,820.60	11.31	427.119	
300.00	300.00	370.00	370.00	0.87	14.80	160.82	-4,563.73	1,587.37	4,831.91	4,816.24	15.67	308.329	
400.00	400.00	470.00	470.00	1.23	18.80	160.82	-4,563.73	1,587.37	4,831.91	4,811.88	20.03	241.237	
500.00	499.98	569.98	569.98	1.57	22.80	26.54	-4,563.73	1,587.37	4,830.35	4,805.98	24.37	198.174	
600.00	599.84	669.84	669.84	1.92	26.79	26.61	-4,563.73	1,587.37	4,825.67	4,796.96	28.71	168.077	
665.04	664.67	734.67	734.67	2.15	29.39	26.68	-4,563.73	1,587.37	4,820.95	4,789.42	31.53	152.887	
700.00	699.47	769.47	769.47	2.27	30.78	26.70	-4,563.73	1,587.37	4,818.07	4,785.02	33.05	145.789	
800.00	799.04	869.04	869.04	2.63	34.76	26.75	-4,563.73	1,587.37	4,809.81	4,772.43	37.38	128.669	
900.00	898.62	968.62	968.62	3.00	38.74	26.80	-4,563.73	1,587.37	4,801.55	4,759.83	41.72	115.095	
1,000.00	998.19	1,068.19	1,068.19	3.37	42.73	26.85	-4,563.73	1,587.37	4,793.30	4,747.24	46.06	104.071	
1,100.00	1,097.76	1,167.76	1,167.76	3.74	46.71	26.90	-4,563.73	1,587.37	4,785.05	4,734.65	50.40	94.943	
1,200.00	1,197.33	1,267.33	1,267.33	4.11	50.69	26.95	-4,563.73	1,587.37	4,776.81	4,722.07	54.74	87.260	
1,300.00	1,296.91	1,366.91	1,366.91	4.49	54.68	27.00	-4,563.73	1,587.37	4,768.57	4,709.48	59.09	80.706	
1,400.00	1,396.48	1,466.48	1,466.48	4.87	58.66	27.05	-4,563.73	1,587.37	4,760.33	4,696.90	63.43	75.048	
1,500.00	1,496.05	1,566.05	1,566.05	5.25	62.64	27.10	-4,563.73	1,587.37	4,752.10	4,684.32	67.78	70.115	
1,600.00	1,595.62	1,666.02	1,666.02	5.63	66.63	27.15	-4,563.73	1,587.37	4,743.87	4,671.74	72.12	65.776	
1,700.00	1,695.20	1,765.20	1,765.20	6.01	70.61	27.20	-4,563.73	1,587.37	4,735.64	4,659.17	76.47	61.929	
1,800.00	1,794.77	1,864.77	1,864.77	6.39	74.59	27.25	-4,563.73	1,587.37	4,727.42	4,646.60	80.81	58.497	
1,900.00	1,894.34	1,964.34	1,964.34	6.77	78.57	27.30	-4,563.73	1,587.37	4,719.20	4,634.04	85.16	55.414	
2,000.00	1,993.91	2,063.91	2,063.91	7.15	82.56	27.35	-4,563.73	1,587.37	4,710.98	4,621.47	89.51	52.631	
2,100.00	2,093.49	2,163.49	2,163.49	7.53	86.54	27.41	-4,563.73	1,587.37	4,702.77	4,608.92	93.86	50.106	
2,200.00	2,193.06	2,263.06	2,263.06	7.91	90.52	27.46	-4,563.73	1,587.37	4,694.56	4,596.36	98.20	47.804	
2,300.00	2,292.63	2,362.63	2,362.63	8.29	94.51	27.51	-4,563.73	1,587.37	4,686.36	4,583.81	102.55	45.697	
2,400.00	2,392.20	2,462.20	2,462.20	8.67	98.49	27.56	-4,563.73	1,587.37	4,678.16	4,571.26	106.90	43.762	
2,500.00	2,491.77	2,561.77	2,561.77	9.05	102.47	27.61	-4,563.73	1,587.37	4,669.97	4,558.72	111.25	41.978	
2,600.00	2,591.35	2,661.35	2,661.35	9.43	106.45	27.67	-4,563.73	1,587.37	4,661.77	4,546.18	115.60	40.328	
2,700.00	2,690.92	2,760.92	2,760.92	9.82	110.44	27.72	-4,563.73	1,587.37	4,653.59	4,533.64	119.95	38.798	
2,800.00	2,790.49	2,860.49	2,860.49	10.20	114.42	27.77	-4,563.73	1,587.37	4,645.40	4,521.11	124.29	37.374	
2,900.00	2,890.06	2,960.06	2,960.06	10.58	118.40	27.82	-4,563.73	1,587.37	4,637.22	4,508.58	128.64	36.047	
3,000.00	2,989.64	3,059.64	3,059.64	10.96	122.39	27.88	-4,563.73	1,587.37	4,629.05	4,496.05	132.99	34.807	
3,100.00	3,089.21	3,159.21	3,159.21	11.35	126.37	27.93	-4,563.73	1,587.37	4,620.87	4,483.53	137.34	33.645	
3,200.00	3,188.78	3,258.78	3,258.78	11.73	130.35	27.99	-4,563.73	1,587.37	4,612.71	4,471.02	141.69	32.555	
3,300.00	3,288.35	3,358.35	3,358.35	12.11	134.33	28.04	-4,563.73	1,587.37	4,604.54	4,458.50	146.04	31.530	
3,400.00	3,387.93	3,457.93	3,457.93	12.49	138.32	28.09	-4,563.73	1,587.37	4,596.38	4,445.99	150.39	30.564	
3,500.00	3,487.50	3,557.50	3,557.50	12.88	142.30	28.15	-4,563.73	1,587.37	4,588.23	4,433.49	154.74	29.652	
3,600.00	3,587.07	3,657.07	3,657.07	13.26	146.28	28.20	-4,563.73	1,587.37	4,580.07	4,420.99	159.09	28.790	
3,700.00	3,686.64	3,756.64	3,756.64	13.64	150.27	28.26	-4,563.73	1,587.37	4,571.93	4,408.49	163.44	27.974	
3,800.00	3,786.21	3,856.21	3,856.21	14.02	154.25	28.31	-4,563.73	1,587.37	4,563.78	4,396.00	167.78	27.200	
3,900.00	3,885.79	3,955.79	3,955.79	14.41	158.23	28.37	-4,563.73	1,587.37	4,555.64	4,383.51	172.13	26.466	
4,000.00	3,985.36	4,055.36	4,055.36	14.79	162.21	28.42	-4,563.73	1,587.37	4,547.51	4,371.03	176.48	25.767	
4,100.00	4,084.93	4,154.93	4,154.93	15.17	166.20	28.48	-4,563.73	1,587.37	4,539.38	4,358.55	180.83	25.103	
4,200.00	4,184.50	4,254.50	4,254.50	15.55	170.18	28.53	-4,563.73	1,587.37	4,531.25	4,346.07	185.18	24.469	
4,300.00	4,284.08	4,354.08	4,354.08	15.94	174.16	28.59	-4,563.73	1,587.37	4,523.13	4,333.60	189.53	23.865	
4,400.00	4,383.65	4,453.65	4,453.65	16.32	178.15	28.65	-4,563.73	1,587.37	4,515.01	4,321.13	193.88	23.287	
4,410.02	4,393.62	4,463.62	4,463.62	16.36	178.54	28.65	-4,563.73	1,587.37	4,514.20	4,319.88	194.32	23.231	
4,450.00	4,433.52	4,503.52	4,503.52	16.51	180.14	32.49	-4,563.73	1,587.37	4,512.07	4,316.02	196.06	23.014	
4,467.93	4,451.45	4,521.45	4,521.45	16.56	180.86	90.05	-4,563.73	1,587.37	4,511.85	4,315.01	196.83	22.922 CC	
4,500.00	4,483.51	4,553.51	4,553.51	16.67	182.14	-156.77	-4,563.73	1,587.37	4,512.57	4,314.35	198.22	22.765 ES	
4,550.00	4,533.30	4,603.30	4,603.30	16.81	184.13	-154.47	-4,563.73	1,587.37	4,516.57	4,316.20	200.37	22.541	
4,600.00	4,582.60	4,652.60	4,652.60	16.94	186.10	-153.70	-4,563.73	1,587.37	4,524.05	4,321.56	202.49	22.343	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Dome Federal 35-24-9 #1 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5370-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,650.00	4,631.09	4,701.09	4,701.09	17.07	188.04	-153.08	-4,563.73	1,587.37	4,534.96	4,330.40	204.56	22.169	
4,700.00	4,678.48	4,748.48	4,748.48	17.19	189.94	-152.41	-4,563.73	1,587.37	4,549.25	4,342.66	206.59	22.021	
4,750.00	4,724.47	4,794.47	4,794.47	17.31	191.78	-151.64	-4,563.73	1,587.37	4,566.84	4,358.29	208.55	21.898	
4,800.00	4,768.79	4,838.79	4,838.79	17.43	193.55	-150.71	-4,563.73	1,587.37	4,587.62	4,377.19	210.44	21.801	
4,850.00	4,811.16	4,881.16	4,881.16	17.56	195.25	-149.60	-4,563.73	1,587.37	4,611.48	4,399.25	212.24	21.728	
4,900.00	4,851.32	4,921.32	4,921.32	17.70	196.85	-148.26	-4,563.73	1,587.37	4,638.29	4,424.34	213.94	21.680	
4,950.00	4,889.01	4,959.01	4,959.01	17.86	198.36	-146.65	-4,563.73	1,587.37	4,667.88	4,452.33	215.55	21.656	
5,000.00	4,924.02	4,994.02	4,994.02	18.05	199.76	-144.71	-4,563.73	1,587.37	4,700.08	4,483.04	217.04	21.655 SF	
5,050.00	4,956.12	5,026.12	5,026.12	18.28	201.04	-142.36	-4,563.73	1,587.37	4,734.72	4,516.30	218.41	21.678	
5,100.00	4,985.11	5,055.11	5,055.11	18.55	202.20	-139.50	-4,563.73	1,587.37	4,771.57	4,551.91	219.67	21.722	
5,150.00	5,010.81	5,080.81	5,080.81	18.88	203.23	-136.02	-4,563.73	1,587.37	4,810.44	4,589.65	220.79	21.788	
5,200.00	5,033.08	5,103.08	5,103.08	19.27	204.12	-131.76	-4,563.73	1,587.37	4,851.08	4,629.31	221.77	21.874	
5,250.00	5,051.76	5,121.76	5,121.76	19.72	204.87	-126.55	-4,563.73	1,587.37	4,893.25	4,670.63	222.62	21.980	
5,300.00	5,066.75	5,136.75	5,136.75	20.24	205.47	-120.22	-4,563.73	1,587.37	4,936.70	4,713.37	223.32	22.106	
5,350.00	5,077.96	5,147.96	5,147.96	20.81	205.92	-112.62	-4,563.73	1,587.37	4,981.16	4,757.27	223.88	22.249	
5,400.00	5,085.30	5,155.30	5,155.30	21.45	206.21	-103.76	-4,563.73	1,587.37	5,026.36	4,802.07	224.29	22.410	
5,450.00	5,088.74	5,158.74	5,158.74	22.13	206.35	-93.89	-4,563.73	1,587.37	5,072.02	4,847.47	224.55	22.588	
5,463.43	5,089.00	5,159.00	5,159.00	22.32	206.36	-91.13	-4,563.73	1,587.37	5,084.33	4,859.73	224.59	22.638	
5,500.00	5,089.31	5,159.31	5,159.31	22.86	206.37	-91.14	-4,563.73	1,587.37	5,117.88	4,893.18	224.70	22.777	
5,600.00	5,090.17	5,160.17	5,160.17	24.45	206.41	-91.16	-4,563.73	1,587.37	5,209.82	4,984.81	225.01	23.154	
5,700.00	5,091.03	5,161.03	5,161.03	26.20	206.44	-91.18	-4,563.73	1,587.37	5,302.06	5,076.71	225.35	23.528	
5,800.00	5,091.88	5,161.88	5,161.88	28.07	206.48	-91.21	-4,563.73	1,587.37	5,394.57	5,168.85	225.72	23.900	
5,900.00	5,092.74	5,162.74	5,162.74	30.05	206.51	-91.23	-4,563.73	1,587.37	5,487.35	5,261.24	226.10	24.269	
6,000.00	5,093.60	5,163.60	5,163.60	32.11	206.54	-91.26	-4,563.73	1,587.37	5,580.37	5,353.87	226.50	24.637	
6,100.00	5,094.46	5,164.46	5,164.46	34.24	206.58	-91.28	-4,563.73	1,587.37	5,673.63	5,446.72	226.91	25.004	
6,200.00	5,095.31	5,165.31	5,165.31	36.43	206.61	-91.31	-4,563.73	1,587.37	5,767.12	5,539.79	227.33	25.369	
6,300.00	5,096.17	5,166.17	5,166.17	38.67	206.65	-91.33	-4,563.73	1,587.37	5,860.82	5,633.06	227.76	25.732	
6,400.00	5,097.03	5,167.03	5,167.03	40.94	206.68	-91.35	-4,563.73	1,587.37	5,954.73	5,726.54	228.19	26.095	
6,500.00	5,097.88	5,167.88	5,167.88	43.25	206.72	-91.38	-4,563.73	1,587.37	6,048.83	5,820.21	228.63	26.457	
6,600.00	5,098.74	5,168.74	5,168.74	45.59	206.75	-91.40	-4,563.73	1,587.37	6,143.12	5,914.06	229.06	26.819	
6,700.00	5,099.60	5,169.60	5,169.60	47.95	206.78	-91.43	-4,563.73	1,587.37	6,237.59	6,008.09	229.50	27.180	
6,800.00	5,100.45	5,170.45	5,170.45	50.33	206.82	-91.45	-4,563.73	1,587.37	6,332.22	6,102.29	229.93	27.540	
6,900.00	5,101.31	5,171.31	5,171.31	52.73	206.85	-91.47	-4,563.73	1,587.37	6,427.02	6,196.66	230.36	27.900	
7,000.00	5,102.17	5,172.17	5,172.17	55.15	206.89	-91.50	-4,563.73	1,587.37	6,521.97	6,291.19	230.79	28.260	
7,100.00	5,103.02	5,173.02	5,173.02	57.58	206.92	-91.52	-4,563.73	1,587.37	6,617.08	6,385.86	231.21	28.619	
7,200.00	5,103.88	5,173.88	5,173.88	60.02	206.96	-91.55	-4,563.73	1,587.37	6,712.32	6,480.69	231.63	28.978	
7,300.00	5,104.74	5,174.74	5,174.74	62.47	206.99	-91.57	-4,563.73	1,587.37	6,807.70	6,575.65	232.05	29.337	
7,400.00	5,105.60	5,175.60	5,175.60	64.93	207.02	-91.60	-4,563.73	1,587.37	6,903.21	6,670.75	232.46	29.696	
7,500.00	5,106.45	5,176.45	5,176.45	67.40	207.06	-91.62	-4,563.73	1,587.37	6,998.85	6,765.98	232.87	30.055	
7,600.00	5,107.31	5,177.31	5,177.31	69.88	207.09	-91.64	-4,563.73	1,587.37	7,094.61	6,861.34	233.27	30.414	
7,700.00	5,108.17	5,178.17	5,178.17	72.36	207.13	-91.67	-4,563.73	1,587.37	7,190.48	6,956.81	233.67	30.772	
7,800.00	5,109.02	5,179.02	5,179.02	74.85	207.16	-91.69	-4,563.73	1,587.37	7,286.46	7,052.41	234.06	31.131	
7,900.00	5,109.88	5,179.88	5,179.88	77.35	207.20	-91.72	-4,563.73	1,587.37	7,382.55	7,148.11	234.44	31.490	
8,000.00	5,110.74	5,180.74	5,180.74	79.85	207.23	-91.74	-4,563.73	1,587.37	7,478.74	7,243.92	234.82	31.849	
8,100.00	5,111.59	5,181.59	5,181.59	82.35	207.26	-91.76	-4,563.73	1,587.37	7,575.03	7,339.84	235.20	32.207	
8,200.00	5,112.45	5,182.45	5,182.45	84.86	207.30	-91.79	-4,563.73	1,587.37	7,671.42	7,435.85	235.57	32.566	
8,300.00	5,113.31	5,183.31	5,183.31	87.37	207.33	-91.81	-4,563.73	1,587.37	7,767.90	7,531.97	235.93	32.925	
8,400.00	5,114.16	5,184.16	5,184.16	89.89	207.37	-91.84	-4,563.73	1,587.37	7,864.46	7,628.17	236.29	33.284	
8,500.00	5,115.02	5,185.02	5,185.02	92.41	207.40	-91.86	-4,563.73	1,587.37	7,961.11	7,724.47	236.64	33.642	
8,600.00	5,115.88	5,185.88	5,185.88	94.93	207.44	-91.89	-4,563.73	1,587.37	8,057.84	7,820.86	236.99	34.001	
8,700.00	5,116.74	5,186.74	5,186.74	97.45	207.47	-91.91	-4,563.73	1,587.37	8,154.65	7,917.32	237.33	34.360	
8,800.00	5,117.59	5,187.59	5,187.59	99.98	207.50	-91.93	-4,563.73	1,587.37	8,251.54	8,013.87	237.67	34.719	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Dome Federal 35-24-9 #1 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5370-UNKNOWN							Rule Assigned:						Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	5,118.45	5,188.45	5,188.45	102.51	207.54	-91.96	-4,563.73	1,587.37	8,348.50	8,110.50	238.00	35.078	
9,000.00	5,119.31	5,189.31	5,189.31	105.04	207.57	-91.98	-4,563.73	1,587.37	8,445.53	8,207.20	238.33	35.437	
9,100.00	5,120.16	5,190.16	5,190.16	107.58	207.61	-92.01	-4,563.73	1,587.37	8,542.63	8,303.98	238.65	35.796	
9,200.00	5,121.02	5,191.02	5,191.02	110.11	207.64	-92.03	-4,563.73	1,587.37	8,639.79	8,400.82	238.97	36.155	
9,300.00	5,121.88	5,191.88	5,191.88	112.65	207.68	-92.05	-4,563.73	1,587.37	8,737.02	8,497.74	239.28	36.514	
9,400.00	5,122.73	5,192.73	5,192.73	115.19	207.71	-92.08	-4,563.73	1,587.37	8,834.31	8,594.72	239.59	36.873	
9,500.00	5,123.59	5,193.59	5,193.59	117.73	207.74	-92.10	-4,563.73	1,587.37	8,931.66	8,691.77	239.89	37.232	
9,600.00	5,124.45	5,194.45	5,194.45	120.27	207.78	-92.13	-4,563.73	1,587.37	9,029.07	8,788.88	240.19	37.591	
9,700.00	5,125.30	5,195.30	5,195.30	122.81	207.81	-92.15	-4,563.73	1,587.37	9,126.53	8,886.04	240.49	37.950	
9,800.00	5,126.16	5,196.16	5,196.16	125.35	207.85	-92.18	-4,563.73	1,587.37	9,224.05	8,983.27	240.78	38.309	
9,900.00	5,127.02	5,197.02	5,197.02	127.90	207.88	-92.20	-4,563.73	1,587.37	9,321.62	9,080.55	241.07	38.668	
10,000.00	5,127.88	5,197.88	5,197.88	130.45	207.92	-92.22	-4,563.73	1,587.37	9,419.24	9,177.89	241.35	39.027	
10,100.00	5,128.73	5,198.73	5,198.73	132.99	207.95	-92.25	-4,563.73	1,587.37	9,516.91	9,275.28	241.63	39.386	
10,200.00	5,129.59	5,199.59	5,199.59	135.54	207.98	-92.27	-4,563.73	1,587.37	9,614.63	9,372.73	241.91	39.745	
10,300.00	5,130.45	5,200.45	5,200.45	138.09	208.02	-92.30	-4,563.73	1,587.37	9,712.40	9,470.22	242.18	40.104	
10,400.00	5,131.30	5,201.30	5,201.30	140.64	208.05	-92.32	-4,563.73	1,587.37	9,810.21	9,567.76	242.45	40.463	
10,500.00	5,132.16	5,202.16	5,202.16	143.19	208.09	-92.34	-4,563.73	1,587.37	9,908.06	9,665.35	242.71	40.822	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Federal #27-43 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1953-INCLINOMETER													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-124.17	-923.50	-1,360.22	1,675.91				
100.00	100.00	0.00	0.00	0.15	0.00	-124.17	-923.50	-1,360.22	1,659.42	1,659.07	0.35	4,777.263	
200.00	200.00	0.00	0.00	0.51	0.00	-124.17	-923.50	-1,360.22	1,648.84	1,648.30	0.54	3,050.892	
300.00	300.00	0.00	0.00	0.87	0.00	-124.17	-923.50	-1,360.22	1,644.28	1,643.41	0.87	1,885.862	
344.44	344.44	19.44	19.44	1.03	0.30	-124.17	-923.50	-1,360.22	1,644.09	1,642.77	1.33	1,240.019	
400.00	400.00	75.00	75.00	1.23	1.14	-124.17	-923.50	-1,360.22	1,644.09	1,641.72	2.37	694.127	
500.00	499.98	174.98	174.98	1.57	2.66	101.57	-923.50	-1,360.22	1,644.44	1,640.21	4.23	388.639	
600.00	599.84	274.84	274.84	1.92	4.17	101.73	-923.50	-1,360.22	1,645.50	1,639.41	6.09	270.286	
665.04	664.67	339.67	339.67	2.15	5.16	101.89	-923.50	-1,360.22	1,646.58	1,639.28	7.30	225.547	
700.00	699.47	374.47	374.47	2.27	5.69	102.00	-923.50	-1,360.22	1,647.26	1,639.30	7.95	207.113	
800.00	799.04	474.04	474.04	2.63	7.20	102.31	-923.50	-1,360.22	1,649.21	1,639.38	9.83	167.836	
900.00	898.62	573.62	573.62	3.00	8.71	102.62	-923.50	-1,360.22	1,651.21	1,639.51	11.70	141.074	
1,000.00	998.19	673.19	673.19	3.37	10.22	102.94	-923.50	-1,360.22	1,653.26	1,639.68	13.59	121.685	
1,100.00	1,097.76	772.76	772.76	3.74	11.73	103.25	-923.50	-1,360.22	1,655.36	1,639.89	15.47	106.999	
1,200.00	1,197.33	872.33	872.33	4.11	13.25	103.56	-923.50	-1,360.22	1,657.51	1,640.16	17.36	95.495	
1,300.00	1,296.91	971.91	971.91	4.49	14.76	103.86	-923.50	-1,360.22	1,659.71	1,640.47	19.24	86.243	
1,400.00	1,396.48	1,071.48	1,071.48	4.87	16.27	104.17	-923.50	-1,360.22	1,661.96	1,640.83	21.13	78.643	
1,500.00	1,496.05	1,171.05	1,171.05	5.25	17.78	104.48	-923.50	-1,360.22	1,664.25	1,641.23	23.02	72.289	
1,600.00	1,595.62	1,270.62	1,270.62	5.63	19.29	104.79	-923.50	-1,360.22	1,666.60	1,641.69	24.91	66.899	
1,700.00	1,695.20	1,370.20	1,370.20	6.01	20.81	105.09	-923.50	-1,360.22	1,668.99	1,642.19	26.80	62.270	
1,800.00	1,794.77	1,469.77	1,469.77	6.39	22.32	105.40	-923.50	-1,360.22	1,671.43	1,642.73	28.69	58.251	
1,900.00	1,894.34	1,569.34	1,569.34	6.77	23.83	105.70	-923.50	-1,360.22	1,673.91	1,643.33	30.58	54.731	
2,000.00	1,993.91	1,668.91	1,668.91	7.15	25.34	106.00	-923.50	-1,360.22	1,676.45	1,643.97	32.48	51.622	
2,100.00	2,093.49	1,768.49	1,768.49	7.53	26.85	106.30	-923.50	-1,360.22	1,679.03	1,644.66	34.37	48.856	
2,200.00	2,193.06	1,868.06	1,868.06	7.91	28.37	106.60	-923.50	-1,360.22	1,681.65	1,645.40	36.26	46.380	
2,300.00	2,292.63	1,967.63	1,967.63	8.29	30.10	106.90	-923.50	-1,360.22	1,684.33	1,645.96	38.37	43.894	
2,400.00	2,392.20	2,067.23	2,067.20	8.67	33.12	107.20	-923.50	-1,360.22	1,687.05	1,645.27	41.78	40.383	
2,500.00	2,491.77	2,166.80	2,166.77	9.05	36.15	107.50	-923.50	-1,360.22	1,689.81	1,644.63	45.18	37.402	
2,600.00	2,591.35	2,266.37	2,266.35	9.43	39.17	107.80	-923.50	-1,360.22	1,692.63	1,644.04	48.58	34.839	
2,700.00	2,690.92	2,365.94	2,365.92	9.82	42.20	108.09	-923.50	-1,360.22	1,695.48	1,643.50	51.99	32.613	
2,800.00	2,790.49	2,465.51	2,465.53	10.20	45.21	108.42	-922.43	-1,360.22	1,697.90	1,642.51	55.39	30.656	
2,900.00	2,890.06	2,564.26	2,564.23	10.58	48.22	108.71	-922.50	-1,360.22	1,700.88	1,642.11	58.77	28.942	
3,000.00	2,989.64	2,663.17	2,663.14	10.96	51.22	109.00	-922.65	-1,360.22	1,703.95	1,641.80	62.15	27.416	
3,100.00	3,089.21	2,762.09	2,762.06	11.35	54.23	109.28	-922.89	-1,360.22	1,707.10	1,641.56	65.54	26.048	
3,200.00	3,188.78	2,861.03	2,860.99	11.73	57.23	109.56	-923.21	-1,360.22	1,710.33	1,641.41	68.92	24.816	
3,300.00	3,288.35	2,960.46	2,960.35	12.11	60.34	109.85	-923.50	-1,360.22	1,713.58	1,641.17	72.41	23.664	
3,400.00	3,387.93	3,060.04	3,060.93	12.49	63.37	110.14	-923.50	-1,360.22	1,716.75	1,640.93	75.81	22.644	
3,500.00	3,487.50	3,160.61	3,162.50	12.88	66.39	110.43	-923.50	-1,360.22	1,719.96	1,640.75	79.22	21.712	
3,600.00	3,587.07	3,262.18	3,262.07	13.26	69.41	110.71	-923.50	-1,360.22	1,723.22	1,640.60	82.62	20.857	
3,700.00	3,686.64	3,361.75	3,361.64	13.64	72.44	111.00	-923.50	-1,360.22	1,726.52	1,640.50	86.02	20.070	
3,800.00	3,786.21	3,461.33	3,461.21	14.02	75.46	111.28	-923.50	-1,360.22	1,729.87	1,640.44	89.43	19.344	
3,900.00	3,885.79	3,560.90	3,560.79	14.41	78.48	111.57	-923.50	-1,360.22	1,733.26	1,640.42	92.83	18.671	
4,000.00	3,985.36	3,660.47	3,660.36	14.79	81.51	111.85	-923.50	-1,360.22	1,736.69	1,640.45	96.23	18.047	
4,100.00	4,084.93	3,760.04	3,759.93	15.17	84.53	112.13	-923.50	-1,360.22	1,740.16	1,640.52	99.64	17.465	
4,200.00	4,184.50	3,859.62	3,859.50	15.55	87.56	112.41	-923.50	-1,360.22	1,743.67	1,640.63	103.04	16.922	
4,300.00	4,284.08	3,959.19	3,959.08	15.94	90.58	112.69	-923.50	-1,360.22	1,747.23	1,640.79	106.44	16.415	
4,400.00	4,383.65	4,058.26	4,058.11	16.32	93.59	113.10	-919.01	-1,360.22	1,749.10	1,639.28	109.83	15.926	
4,410.02	4,393.62	4,068.18	4,068.03	16.36	93.89	113.13	-919.02	-1,360.22	1,749.47	1,639.31	110.17	15.880	
4,450.00	4,433.52	4,107.87	4,107.71	16.51	95.10	117.20	-919.06	-1,360.22	1,750.49	1,638.97	111.52	15.697	
4,500.00	4,483.51	4,157.58	4,157.42	16.67	96.60	-72.10	-919.13	-1,360.22	1,750.48	1,637.29	113.19	15.465	
4,550.00	4,533.30	4,207.10	4,206.93	16.81	98.11	-70.20	-919.22	-1,360.22	1,749.05	1,634.21	114.84	15.230	
4,600.00	4,582.60	4,256.11	4,255.94	16.94	99.60	-70.18	-919.33	-1,360.22	1,746.24	1,629.77	116.47	14.994	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Federal #27-43 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1953-INCLINOMETER													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,650.00	4,631.09	4,304.31	4,304.14	17.07	101.06	-70.67	-919.46	-1,360.22	1,742.11	1,624.04	118.06	14.756	
4,700.00	4,678.48	4,351.40	4,351.23	17.19	102.49	-71.47	-919.60	-1,360.22	1,736.75	1,617.14	119.62	14.519	
4,750.00	4,724.47	4,397.08	4,396.91	17.31	103.88	-72.52	-919.75	-1,360.22	1,730.30	1,609.17	121.13	14.285	
4,800.00	4,768.79	4,441.08	4,440.91	17.43	105.21	-73.76	-919.92	-1,360.22	1,722.91	1,600.32	122.59	14.054	
4,850.00	4,811.16	4,483.12	4,482.94	17.56	106.49	-75.17	-920.10	-1,360.22	1,714.74	1,590.74	124.00	13.828	
4,900.00	4,851.32	4,522.93	4,522.75	17.70	107.70	-76.70	-920.28	-1,360.22	1,705.99	1,580.64	125.35	13.609	
4,950.00	4,889.01	4,560.27	4,560.09	17.86	108.83	-78.31	-920.46	-1,360.22	1,696.88	1,570.23	126.65	13.398	
5,000.00	4,924.02	4,594.92	4,594.74	18.05	109.89	-79.96	-920.63	-1,360.22	1,687.62	1,559.73	127.89	13.195	
5,050.00	4,956.12	4,626.65	4,626.47	18.28	110.85	-81.61	-920.81	-1,360.22	1,678.45	1,549.36	129.09	13.003	
5,100.00	4,985.11	4,655.28	4,655.09	18.55	111.72	-83.21	-920.97	-1,360.22	1,669.59	1,539.36	130.23	12.820	
5,150.00	5,010.81	4,680.62	4,680.43	18.88	112.49	-84.71	-921.12	-1,360.22	1,661.27	1,529.94	131.33	12.649	
5,200.00	5,033.08	4,702.52	4,702.33	19.27	113.15	-86.07	-921.25	-1,360.22	1,653.71	1,521.32	132.39	12.491	
5,250.00	5,051.76	4,720.85	4,720.66	19.72	113.71	-87.26	-921.37	-1,360.22	1,647.10	1,513.69	133.40	12.347	
5,300.00	5,066.75	4,735.50	4,735.31	20.24	114.16	-88.24	-921.46	-1,360.22	1,641.61	1,507.24	134.37	12.217	
5,350.00	5,077.96	4,746.39	4,746.19	20.81	114.49	-88.99	-921.53	-1,360.22	1,637.40	1,502.12	135.29	12.103	
5,400.00	5,085.30	4,753.43	4,753.24	21.45	114.70	-89.49	-921.58	-1,360.22	1,634.58	1,498.44	136.14	12.006	
5,450.00	5,088.74	4,756.61	4,756.42	22.13	114.80	-89.72	-921.60	-1,360.22	1,633.21	1,496.29	136.92	11.928	
5,463.43	5,089.00	4,756.80	4,756.61	22.32	114.80	-89.74	-921.60	-1,360.22	1,633.10	1,495.98	137.12	11.910	
5,470.48	5,089.06	4,756.83	4,756.63	22.42	114.80	-89.74	-921.60	-1,360.22	1,633.09	1,495.86	137.22	11.901 CC	
5,500.00	5,089.31	4,756.94	4,756.74	22.86	114.81	-89.74	-921.60	-1,360.22	1,633.35	1,495.70	137.66	11.865 ES	
5,600.00	5,090.17	4,757.31	4,757.12	24.45	114.82	-89.76	-921.60	-1,360.22	1,638.22	1,499.00	139.22	11.767	
5,700.00	5,091.03	4,757.68	4,757.49	26.20	114.83	-89.77	-921.61	-1,360.22	1,649.14	1,508.27	140.87	11.707	
5,800.00	5,091.88	4,758.06	4,757.86	28.07	114.84	-89.78	-921.61	-1,360.22	1,666.00	1,523.45	142.55	11.687 SF	
5,900.00	5,092.74	4,758.43	4,758.24	30.05	114.85	-89.80	-921.61	-1,360.22	1,688.63	1,544.41	144.22	11.709	
6,000.00	5,093.60	4,758.80	4,758.61	32.11	114.86	-89.81	-921.61	-1,360.22	1,716.79	1,570.94	145.85	11.771	
6,100.00	5,094.46	4,759.17	4,758.98	34.24	114.87	-89.82	-921.62	-1,360.22	1,750.22	1,602.82	147.40	11.874	
6,200.00	5,095.31	4,759.55	4,759.35	36.43	114.89	-89.83	-921.62	-1,360.22	1,788.62	1,639.76	148.86	12.015	
6,300.00	5,096.17	4,759.92	4,759.72	38.67	114.90	-89.85	-921.62	-1,360.22	1,831.68	1,681.46	150.22	12.193	
6,400.00	5,097.03	4,760.29	4,760.09	40.94	114.91	-89.86	-921.62	-1,360.22	1,879.09	1,727.60	151.48	12.405	
6,500.00	5,097.88	4,760.66	4,760.46	43.25	114.92	-89.87	-921.63	-1,360.22	1,930.51	1,777.88	152.63	12.648	
6,600.00	5,098.74	4,761.03	4,760.83	45.59	114.93	-89.89	-921.63	-1,360.22	1,985.64	1,831.96	153.68	12.921	
6,700.00	5,099.60	4,761.39	4,761.20	47.95	114.94	-89.90	-921.63	-1,360.22	2,044.18	1,889.56	154.62	13.221	
6,800.00	5,100.45	4,761.76	4,761.57	50.33	114.95	-89.91	-921.63	-1,360.22	2,105.84	1,950.37	155.47	13.545	
6,900.00	5,101.31	4,762.13	4,761.94	52.73	114.96	-89.93	-921.64	-1,360.22	2,170.36	2,014.12	156.24	13.891	
7,000.00	5,102.17	4,762.50	4,762.30	55.15	114.98	-89.94	-921.64	-1,360.22	2,237.49	2,080.56	156.93	14.258	
7,100.00	5,103.02	4,762.87	4,762.67	57.58	114.99	-89.95	-921.64	-1,360.22	2,307.00	2,149.46	157.54	14.644	
7,200.00	5,103.88	4,763.23	4,763.04	60.02	115.00	-89.96	-921.64	-1,360.22	2,378.69	2,220.60	158.09	15.046	
7,300.00	5,104.74	4,763.60	4,763.40	62.47	115.01	-89.98	-921.65	-1,360.22	2,452.36	2,293.77	158.58	15.464	
7,400.00	5,105.60	4,763.97	4,763.77	64.93	115.02	-89.99	-921.65	-1,360.22	2,527.84	2,368.81	159.02	15.896	
7,500.00	5,106.45	4,764.33	4,764.14	67.40	115.03	-90.00	-921.65	-1,360.22	2,604.97	2,445.55	159.42	16.340	
7,600.00	5,107.31	4,764.70	4,764.50	69.88	115.04	-90.02	-921.65	-1,360.22	2,683.61	2,523.84	159.77	16.797	
7,700.00	5,108.17	4,765.06	4,764.86	72.36	115.05	-90.03	-921.66	-1,360.22	2,763.63	2,603.54	160.09	17.263	
7,800.00	5,109.02	4,765.42	4,765.23	74.85	115.06	-90.04	-921.66	-1,360.22	2,844.92	2,684.55	160.37	17.740	
7,900.00	5,109.88	4,765.79	4,765.59	77.35	115.08	-90.05	-921.66	-1,360.22	2,927.36	2,766.74	160.62	18.225	
8,000.00	5,110.74	4,766.15	4,765.96	79.85	115.09	-90.07	-921.66	-1,360.22	3,010.87	2,850.02	160.85	18.718	
8,100.00	5,111.59	4,766.51	4,766.32	82.35	115.10	-90.08	-921.67	-1,360.22	3,095.36	2,934.30	161.06	19.219	
8,200.00	5,112.45	4,766.88	4,766.68	84.86	115.11	-90.09	-921.67	-1,360.22	3,180.74	3,019.50	161.24	19.726	
8,300.00	5,113.31	4,767.24	4,767.04	87.37	115.12	-90.10	-921.67	-1,360.22	3,266.96	3,105.55	161.41	20.240	
8,400.00	5,114.16	4,767.60	4,767.40	89.89	115.13	-90.12	-921.67	-1,360.22	3,353.94	3,192.38	161.57	20.759	
8,500.00	5,115.02	4,767.96	4,767.77	92.41	115.14	-90.13	-921.67	-1,360.22	3,441.63	3,279.93	161.70	21.284	
8,600.00	5,115.88	4,768.32	4,768.13	94.93	115.15	-90.14	-921.68	-1,360.22	3,529.97	3,368.14	161.83	21.813	
8,700.00	5,116.74	4,768.68	4,768.49	97.45	115.16	-90.16	-921.68	-1,360.22	3,618.92	3,456.98	161.94	22.347	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Federal #27-43 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1953-INCLINOMETER													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,800.00	5,117.59	4,769.04	4,768.85	99.98	115.17	-90.17	-921.68	-1,360.22	3,708.44	3,546.39	162.05	22.885	
8,900.00	5,118.45	4,769.40	4,769.21	102.51	115.18	-90.18	-921.68	-1,360.22	3,798.47	3,636.33	162.14	23.426	
9,000.00	5,119.31	4,769.76	4,769.57	105.04	115.20	-90.19	-921.69	-1,360.22	3,889.00	3,726.76	162.23	23.972	
9,100.00	5,120.16	4,770.12	4,769.92	107.58	115.21	-90.21	-921.69	-1,360.22	3,979.97	3,817.66	162.31	24.520	
9,200.00	5,121.02	4,770.48	4,770.28	110.11	115.22	-90.22	-921.69	-1,360.22	4,071.37	3,908.98	162.39	25.072	
9,300.00	5,121.88	4,770.84	4,770.64	112.65	115.23	-90.23	-921.69	-1,360.22	4,163.17	4,000.71	162.46	25.626	
9,400.00	5,122.73	4,771.19	4,771.00	115.19	115.24	-90.24	-921.70	-1,360.22	4,255.33	4,092.81	162.52	26.183	
9,500.00	5,123.59	4,771.55	4,771.35	117.73	115.25	-90.26	-921.70	-1,360.22	4,347.84	4,185.26	162.58	26.742	
9,600.00	5,124.45	4,771.91	4,771.71	120.27	115.26	-90.27	-921.70	-1,360.22	4,440.68	4,278.04	162.64	27.304	
9,700.00	5,125.30	4,772.26	4,772.07	122.81	115.27	-90.28	-921.70	-1,360.22	4,533.82	4,371.13	162.69	27.867	
9,800.00	5,126.16	4,772.62	4,772.42	125.35	115.28	-90.29	-921.71	-1,360.22	4,627.25	4,464.50	162.74	28.433	
9,900.00	5,127.02	4,772.97	4,772.78	127.90	115.29	-90.31	-921.71	-1,360.22	4,720.95	4,558.15	162.79	29.000	
10,000.00	5,127.88	4,773.33	4,773.13	130.45	115.30	-90.32	-921.71	-1,360.22	4,814.90	4,652.06	162.84	29.569	
10,100.00	5,128.73	4,773.68	4,773.49	132.99	115.31	-90.33	-921.71	-1,360.22	4,909.08	4,746.20	162.88	30.139	
10,200.00	5,129.59	4,774.04	4,773.84	135.54	115.33	-90.34	-921.72	-1,360.22	5,003.50	4,840.58	162.92	30.711	
10,300.00	5,130.45	4,774.39	4,774.19	138.09	115.34	-90.36	-921.72	-1,360.22	5,098.13	4,935.17	162.96	31.284	
10,400.00	5,131.30	4,774.74	4,774.55	140.64	115.35	-90.37	-921.72	-1,360.22	5,192.95	5,029.96	163.00	31.859	
10,500.00	5,132.16	4,775.10	4,774.90	143.19	115.36	-90.38	-921.72	-1,360.22	5,287.97	5,124.94	163.04	32.435	
10,600.00	5,133.02	4,775.45	4,775.25	145.74	115.37	-90.39	-921.73	-1,360.22	5,383.17	5,220.10	163.07	33.011	
10,700.00	5,133.87	4,775.80	4,775.60	148.29	115.38	-90.40	-921.73	-1,360.22	5,478.54	5,315.44	163.11	33.589	
10,800.00	5,134.73	4,776.15	4,775.96	150.85	115.39	-90.42	-921.73	-1,360.22	5,574.08	5,410.94	163.14	34.168	
10,900.00	5,135.59	4,776.50	4,776.31	153.40	115.40	-90.43	-921.73	-1,360.22	5,669.76	5,506.59	163.17	34.747	
11,000.00	5,136.44	4,776.85	4,776.66	155.96	115.41	-90.44	-921.74	-1,360.22	5,765.60	5,602.39	163.20	35.327	
11,100.00	5,137.30	4,777.20	4,777.01	158.51	115.42	-90.45	-921.74	-1,360.22	5,861.57	5,698.33	163.24	35.908	
11,200.00	5,138.16	4,777.55	4,777.36	161.07	115.43	-90.47	-921.74	-1,360.22	5,957.67	5,794.41	163.27	36.490	
11,300.00	5,139.02	4,777.90	4,777.71	163.62	115.44	-90.48	-921.74	-1,360.22	6,053.91	5,890.61	163.30	37.072	
11,400.00	5,139.87	4,778.25	4,778.06	166.18	115.45	-90.49	-921.74	-1,360.22	6,150.26	5,986.93	163.33	37.655	
11,500.00	5,140.73	4,778.60	4,778.40	168.73	115.46	-90.50	-921.75	-1,360.22	6,246.72	6,083.36	163.36	38.239	
11,600.00	5,141.59	4,778.95	4,778.75	171.29	115.47	-90.52	-921.75	-1,360.22	6,343.30	6,179.91	163.39	38.823	
11,700.00	5,142.44	4,779.30	4,779.10	173.85	115.49	-90.53	-921.75	-1,360.22	6,439.98	6,276.56	163.42	39.407	
11,800.00	5,143.30	4,779.64	4,779.45	176.41	115.50	-90.54	-921.75	-1,360.22	6,536.76	6,373.31	163.45	39.992	
11,900.00	5,144.16	4,779.99	4,779.80	178.97	115.51	-90.55	-921.76	-1,360.22	6,633.63	6,470.15	163.48	40.577	
12,000.00	5,145.01	4,780.34	4,780.14	181.53	115.52	-90.56	-921.76	-1,360.22	6,730.60	6,567.09	163.51	41.162	
12,100.00	5,145.87	4,780.68	4,780.49	184.09	115.53	-90.58	-921.76	-1,360.22	6,827.65	6,664.11	163.54	41.748	
12,200.00	5,146.73	4,781.03	4,780.83	186.65	115.54	-90.59	-921.76	-1,360.22	6,924.79	6,761.22	163.57	42.334	
12,300.00	5,147.58	4,781.38	4,781.18	189.21	115.55	-90.60	-921.77	-1,360.22	7,022.01	6,858.41	163.61	42.920	
12,400.00	5,148.44	4,781.72	4,781.52	191.77	115.56	-90.61	-921.77	-1,360.22	7,119.31	6,955.67	163.64	43.507	
12,500.00	5,149.30	4,782.07	4,781.87	194.33	115.57	-90.62	-921.77	-1,360.22	7,216.68	7,053.01	163.67	44.094	
12,600.00	5,150.16	4,782.41	4,782.21	196.89	115.58	-90.64	-921.77	-1,360.22	7,314.12	7,150.42	163.70	44.680	
12,700.00	5,151.01	4,782.75	4,782.56	199.45	115.59	-90.65	-921.78	-1,360.22	7,411.62	7,247.89	163.73	45.267	
12,800.00	5,151.87	4,783.10	4,782.90	202.01	115.60	-90.66	-921.78	-1,360.22	7,509.20	7,345.44	163.76	45.854	
12,900.00	5,152.73	4,783.44	4,783.24	204.57	115.61	-90.67	-921.78	-1,360.22	7,606.84	7,443.04	163.79	46.441	
13,000.00	5,153.58	4,783.78	4,783.59	207.14	115.62	-90.68	-921.78	-1,360.22	7,704.53	7,540.71	163.83	47.028	
13,100.00	5,154.44	4,784.13	4,783.93	209.70	115.63	-90.70	-921.78	-1,360.22	7,802.29	7,638.43	163.86	47.616	
13,200.00	5,155.30	4,784.47	4,784.27	212.26	115.64	-90.71	-921.79	-1,360.22	7,900.10	7,736.21	163.89	48.203	
13,282.06	5,156.00	4,784.75	4,784.55	214.37	115.65	-90.72	-921.79	-1,360.22	7,980.38	7,816.46	163.92	48.685	
13,282.88	5,156.01	4,784.75	4,784.55	214.38	115.65	-90.72	-921.79	-1,360.22	7,981.18	7,815.59	165.59	48.197	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Navajo 23-11 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5283-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	11.90	5,552.69	1,170.26	5,676.34				
100.00	100.00	0.00	0.00	0.15	0.00	11.90	5,552.69	1,170.26	5,674.79	5,674.64	0.16	N/A	
153.76	153.76	15.76	15.76	0.35	0.63	11.90	5,552.69	1,170.26	5,674.67	5,673.69	0.98	5,804.620	
200.00	200.00	62.00	62.00	0.51	2.48	11.90	5,552.69	1,170.26	5,674.67	5,671.67	2.99	1,896.098	
300.00	300.00	162.00	162.00	0.87	6.48	11.90	5,552.69	1,170.26	5,674.67	5,667.32	7.35	771.929	
400.00	400.00	262.00	262.00	1.23	10.48	11.90	5,552.69	1,170.26	5,674.67	5,662.96	11.71	484.610	
500.00	499.98	361.98	361.98	1.57	14.48	-122.40	5,552.69	1,170.26	5,675.60	5,659.55	16.05	353.532	
600.00	599.84	461.84	461.84	1.92	18.47	-122.40	5,552.69	1,170.26	5,678.41	5,658.02	20.39	278.493	
665.04	664.67	526.67	526.67	2.15	21.07	-122.40	5,552.69	1,170.26	5,681.24	5,658.03	23.21	244.762	
700.00	699.47	561.47	561.47	2.27	22.46	-122.42	5,552.69	1,170.26	5,682.98	5,658.25	24.73	229.823	
800.00	799.04	661.04	661.04	2.63	26.44	-122.50	5,552.69	1,170.26	5,687.95	5,658.88	29.07	195.679	
900.00	898.62	760.62	760.62	3.00	30.42	-122.58	5,552.69	1,170.26	5,692.94	5,659.52	33.41	170.383	
1,000.00	998.19	860.19	860.19	3.37	34.41	-122.66	5,552.69	1,170.26	5,697.93	5,660.17	37.76	150.897	
1,100.00	1,097.76	959.76	959.76	3.74	38.39	-122.74	5,552.69	1,170.26	5,702.94	5,660.83	42.11	135.428	
1,200.00	1,197.33	1,059.33	1,059.33	4.11	42.37	-122.81	5,552.69	1,170.26	5,707.95	5,661.49	46.46	122.851	
1,300.00	1,296.91	1,158.91	1,158.91	4.49	46.36	-122.89	5,552.69	1,170.26	5,712.98	5,662.17	50.82	112.427	
1,400.00	1,396.48	1,258.48	1,258.48	4.87	50.34	-122.97	5,552.69	1,170.26	5,718.02	5,662.85	55.17	103.646	
1,500.00	1,496.05	1,358.05	1,358.05	5.25	54.32	-123.05	5,552.69	1,170.26	5,723.07	5,663.54	59.52	96.148	
1,600.00	1,595.62	1,457.62	1,457.62	5.63	58.31	-123.12	5,552.69	1,170.26	5,728.12	5,664.25	63.88	89.672	
1,700.00	1,695.20	1,557.20	1,557.20	6.01	62.29	-123.20	5,552.69	1,170.26	5,733.19	5,664.96	68.23	84.023	
1,800.00	1,794.77	1,656.77	1,656.77	6.39	66.27	-123.28	5,552.69	1,170.26	5,738.27	5,665.68	72.59	79.051	
1,900.00	1,894.34	1,756.34	1,756.34	6.77	70.25	-123.35	5,552.69	1,170.26	5,743.36	5,666.42	76.95	74.642	
2,000.00	1,993.91	1,855.91	1,855.91	7.15	74.24	-123.43	5,552.69	1,170.26	5,748.46	5,667.16	81.30	70.705	
2,100.00	2,093.49	1,955.49	1,955.49	7.53	78.22	-123.51	5,552.69	1,170.26	5,753.57	5,667.91	85.66	67.169	
2,200.00	2,193.06	2,055.06	2,055.06	7.91	82.20	-123.58	5,552.69	1,170.26	5,758.69	5,668.68	90.01	63.975	
2,300.00	2,292.63	2,154.63	2,154.63	8.29	86.19	-123.66	5,552.69	1,170.26	5,763.82	5,669.45	94.37	61.076	
2,400.00	2,392.20	2,254.20	2,254.20	8.67	90.17	-123.74	5,552.69	1,170.26	5,768.96	5,670.24	98.73	58.433	
2,500.00	2,491.77	2,353.77	2,353.77	9.05	94.15	-123.81	5,552.69	1,170.26	5,774.12	5,671.03	103.09	56.013	
2,600.00	2,591.35	2,453.35	2,453.35	9.43	98.13	-123.89	5,552.69	1,170.26	5,779.28	5,671.83	107.44	53.790	
2,700.00	2,690.92	2,552.92	2,552.92	9.82	102.12	-123.96	5,552.69	1,170.26	5,784.45	5,672.65	111.80	51.740	
2,800.00	2,790.49	2,652.49	2,652.49	10.20	106.10	-124.04	5,552.69	1,170.26	5,789.63	5,673.47	116.16	49.843	
2,900.00	2,890.06	2,752.06	2,752.06	10.58	110.08	-124.12	5,552.69	1,170.26	5,794.82	5,674.31	120.51	48.085	
3,000.00	2,989.64	2,851.64	2,851.64	10.96	114.07	-124.19	5,552.69	1,170.26	5,800.02	5,675.15	124.87	46.448	
3,100.00	3,089.21	2,951.21	2,951.21	11.35	118.05	-124.27	5,552.69	1,170.26	5,805.23	5,676.01	129.23	44.923	
3,200.00	3,188.78	3,050.78	3,050.78	11.73	122.03	-124.34	5,552.69	1,170.26	5,810.46	5,676.87	133.58	43.496	
3,300.00	3,288.35	3,150.35	3,150.35	12.11	126.01	-124.42	5,552.69	1,170.26	5,815.69	5,677.75	137.94	42.160	
3,400.00	3,387.93	3,249.93	3,249.93	12.49	130.00	-124.49	5,552.69	1,170.26	5,820.93	5,678.63	142.30	40.906	
3,500.00	3,487.50	3,349.50	3,349.50	12.88	133.98	-124.57	5,552.69	1,170.26	5,826.18	5,679.53	146.66	39.727	
3,600.00	3,587.07	3,449.07	3,449.07	13.26	137.96	-124.64	5,552.69	1,170.26	5,831.44	5,680.43	151.01	38.615	
3,700.00	3,686.64	3,548.64	3,548.64	13.64	141.95	-124.71	5,552.69	1,170.26	5,836.72	5,681.35	155.37	37.566	
3,800.00	3,786.21	3,648.21	3,648.21	14.02	145.93	-124.79	5,552.69	1,170.26	5,842.00	5,682.27	159.73	36.575	
3,900.00	3,885.79	3,747.79	3,747.79	14.41	149.91	-124.86	5,552.69	1,170.26	5,847.29	5,683.20	164.08	35.636	
4,000.00	3,985.36	3,847.36	3,847.36	14.79	153.89	-124.94	5,552.69	1,170.26	5,852.59	5,684.15	168.44	34.746	
4,100.00	4,084.93	3,946.93	3,946.93	15.17	157.88	-125.01	5,552.69	1,170.26	5,857.90	5,685.10	172.80	33.900	
4,200.00	4,184.50	4,046.50	4,046.50	15.55	161.86	-125.08	5,552.69	1,170.26	5,863.22	5,686.06	177.16	33.096	
4,300.00	4,284.08	4,146.08	4,146.08	15.94	165.84	-125.16	5,552.69	1,170.26	5,868.55	5,687.04	181.51	32.331	
4,400.00	4,383.65	4,245.65	4,245.65	16.32	169.83	-125.23	5,552.69	1,170.26	5,873.89	5,688.02	185.87	31.602	
4,410.02	4,393.62	4,255.62	4,255.62	16.36	170.22	-125.24	5,552.69	1,170.26	5,874.43	5,688.12	186.31	31.531	
4,450.00	4,433.52	4,295.52	4,295.52	16.51	171.82	-121.45	5,552.69	1,170.26	5,875.81	5,687.76	188.05	31.246	
4,500.00	4,483.51	4,345.51	4,345.51	16.67	173.82	49.31	5,552.69	1,170.26	5,875.40	5,685.19	190.21	30.889	
4,550.00	4,533.30	4,395.30	4,395.30	16.81	175.81	51.70	5,552.69	1,170.26	5,872.62	5,680.27	192.35	30.531	
4,600.00	4,582.60	4,444.60	4,444.60	16.94	177.78	52.64	5,552.69	1,170.26	5,867.49	5,673.03	194.46	30.173	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Navajo 23-11 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5283-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,650.00	4,631.09	4,493.09	4,493.09	17.07	179.72	53.51	5,552.69	1,170.26	5,860.06	5,663.52	196.54	29.817	
4,700.00	4,678.48	4,540.48	4,540.48	17.19	181.62	54.48	5,552.69	1,170.26	5,850.38	5,651.82	198.56	29.464	
4,750.00	4,724.47	4,586.47	4,586.47	17.31	183.46	55.62	5,552.69	1,170.26	5,838.54	5,638.02	200.52	29.117	
4,800.00	4,768.79	4,630.79	4,630.79	17.43	185.23	56.94	5,552.69	1,170.26	5,824.62	5,622.22	202.41	28.776	
4,850.00	4,811.16	4,673.16	4,673.16	17.56	186.93	58.46	5,552.69	1,170.26	5,808.76	5,604.53	204.22	28.443	
4,900.00	4,851.32	4,713.32	4,713.32	17.70	188.53	60.17	5,552.69	1,170.26	5,791.06	5,585.10	205.96	28.118	
4,950.00	4,889.01	4,751.01	4,751.01	17.86	190.04	62.09	5,552.69	1,170.26	5,771.67	5,564.07	207.60	27.802	
5,000.00	4,924.02	4,786.02	4,786.02	18.05	191.44	64.21	5,552.69	1,170.26	5,750.75	5,541.60	209.15	27.496	
5,050.00	4,956.12	4,818.12	4,818.12	18.28	192.72	66.51	5,552.69	1,170.26	5,728.46	5,517.85	210.61	27.199	
5,100.00	4,985.11	4,847.11	4,847.11	18.55	193.88	68.99	5,552.69	1,170.26	5,704.98	5,493.00	211.98	26.913	
5,150.00	5,010.81	4,872.81	4,872.81	18.88	194.91	71.62	5,552.69	1,170.26	5,680.47	5,467.22	213.26	26.637	
5,200.00	5,033.08	4,895.08	4,895.08	19.27	195.80	74.39	5,552.69	1,170.26	5,655.14	5,440.70	214.44	26.372	
5,250.00	5,051.76	4,913.76	4,913.76	19.72	196.55	77.25	5,552.69	1,170.26	5,629.16	5,413.63	215.53	26.118	
5,300.00	5,066.75	4,928.75	4,928.75	20.24	197.15	80.17	5,552.69	1,170.26	5,602.72	5,386.20	216.52	25.877	
5,350.00	5,077.96	4,939.96	4,939.96	20.81	197.60	83.12	5,552.69	1,170.26	5,576.02	5,358.61	217.41	25.647	
5,400.00	5,085.30	4,947.30	4,947.30	21.45	197.89	86.05	5,552.69	1,170.26	5,549.23	5,331.03	218.20	25.432	
5,450.00	5,088.74	4,950.74	4,950.74	22.13	198.03	88.93	5,552.69	1,170.26	5,522.54	5,303.65	218.88	25.231	
5,463.43	5,089.00	4,951.00	4,951.00	22.32	198.04	89.69	5,552.69	1,170.26	5,515.41	5,296.36	219.05	25.179	
5,500.00	5,089.31	4,951.31	4,951.31	22.86	198.05	89.70	5,552.69	1,170.26	5,496.11	5,276.61	219.49	25.040	
5,600.00	5,090.17	4,952.17	4,952.17	24.45	198.09	89.71	5,552.69	1,170.26	5,444.24	5,223.39	220.85	24.651	
5,700.00	5,091.03	4,953.03	4,953.03	26.20	198.12	89.72	5,552.69	1,170.26	5,393.73	5,171.35	222.39	24.254	
5,800.00	5,091.88	4,953.88	4,953.88	28.07	198.16	89.73	5,552.69	1,170.26	5,344.62	5,120.54	224.08	23.852	
5,900.00	5,092.74	4,954.74	4,954.74	30.05	198.19	89.74	5,552.69	1,170.26	5,296.93	5,071.03	225.91	23.447	
6,000.00	5,093.60	4,955.60	4,955.60	32.11	198.22	89.75	5,552.69	1,170.26	5,250.72	5,022.86	227.86	23.044	
6,100.00	5,094.46	4,956.46	4,956.46	34.24	198.26	89.76	5,552.69	1,170.26	5,206.02	4,976.10	229.92	22.643	
6,200.00	5,095.31	4,957.31	4,957.31	36.43	198.29	89.77	5,552.69	1,170.26	5,162.87	4,930.80	232.07	22.247	
6,300.00	5,096.17	4,958.17	4,958.17	38.67	198.33	89.78	5,552.69	1,170.26	5,121.31	4,887.00	234.31	21.857	
6,400.00	5,097.03	4,959.03	4,959.03	40.94	198.36	89.79	5,552.69	1,170.26	5,081.37	4,844.75	236.62	21.475	
6,500.00	5,097.88	4,959.88	4,959.88	43.25	198.40	89.80	5,552.69	1,170.26	5,043.11	4,804.10	239.00	21.101	
6,600.00	5,098.74	4,960.74	4,960.74	45.59	198.43	89.81	5,552.69	1,170.26	5,006.54	4,765.10	241.44	20.736	
6,700.00	5,099.60	4,961.60	4,961.60	47.95	198.46	89.82	5,552.69	1,170.26	4,971.72	4,727.79	243.93	20.382	
6,800.00	5,100.45	4,962.45	4,962.45	50.33	198.50	89.83	5,552.69	1,170.26	4,938.68	4,692.22	246.46	20.038	
6,900.00	5,101.31	4,963.31	4,963.31	52.73	198.53	89.84	5,552.69	1,170.26	4,907.46	4,658.42	249.04	19.705	
7,000.00	5,102.17	4,964.17	4,964.17	55.15	198.57	89.85	5,552.69	1,170.26	4,878.08	4,626.43	251.65	19.384	
7,100.00	5,103.02	4,965.02	4,965.02	57.58	198.60	89.86	5,552.69	1,170.26	4,850.59	4,596.31	254.29	19.075	
7,200.00	5,103.88	4,965.88	4,965.88	60.02	198.64	89.88	5,552.69	1,170.26	4,825.02	4,568.07	256.95	18.778	
7,300.00	5,104.74	4,966.74	4,966.74	62.47	198.67	89.89	5,552.69	1,170.26	4,801.39	4,541.76	259.63	18.493	
7,400.00	5,105.60	4,967.60	4,967.60	64.93	198.70	89.90	5,552.69	1,170.26	4,779.74	4,517.42	262.32	18.221	
7,500.00	5,106.45	4,968.45	4,968.45	67.40	198.74	89.91	5,552.69	1,170.26	4,760.09	4,495.07	265.03	17.961	
7,600.00	5,107.31	4,969.31	4,969.31	69.88	198.77	89.92	5,552.69	1,170.26	4,742.47	4,474.74	267.73	17.714	
7,700.00	5,108.17	4,970.17	4,970.17	72.36	198.81	89.93	5,552.69	1,170.26	4,726.90	4,456.46	270.44	17.479	
7,800.00	5,109.02	4,971.02	4,971.02	74.85	198.84	89.94	5,552.69	1,170.26	4,713.40	4,440.26	273.13	17.257	
7,900.00	5,109.88	4,971.88	4,971.88	77.35	198.88	89.95	5,552.69	1,170.26	4,701.98	4,426.16	275.82	17.047	
8,000.00	5,110.74	4,972.74	4,972.74	79.85	198.91	89.96	5,552.69	1,170.26	4,692.67	4,414.18	278.49	16.850	
8,100.00	5,111.59	4,973.59	4,973.59	82.35	198.94	89.97	5,552.69	1,170.26	4,685.48	4,404.34	281.14	16.666	
8,200.00	5,112.45	4,974.45	4,974.45	84.86	198.98	89.98	5,552.69	1,170.26	4,680.41	4,396.64	283.77	16.494	
8,300.00	5,113.31	4,975.31	4,975.31	87.37	199.01	89.99	5,552.69	1,170.26	4,677.48	4,391.11	286.37	16.334	
8,387.33	5,114.06	4,976.06	4,976.06	89.57	199.04	90.00	5,552.69	1,170.26	4,676.66	4,388.05	288.61	16.204 CC	
8,400.00	5,114.16	4,976.16	4,976.16	89.89	199.05	90.00	5,552.69	1,170.26	4,676.68	4,387.74	288.94	16.186	
8,500.00	5,115.02	4,977.02	4,977.02	92.41	199.08	90.01	5,552.69	1,170.26	4,678.02	4,386.55	291.47	16.050 ES	
8,600.00	5,115.88	4,977.88	4,977.88	94.93	199.12	90.02	5,552.69	1,170.26	4,681.50	4,387.54	293.95	15.926	
8,700.00	5,116.74	4,978.74	4,978.74	97.45	199.15	90.03	5,552.69	1,170.26	4,687.10	4,390.70	296.40	15.813	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L26 2409 - Navajo 23-11 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 5283-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,800.00	5,117.59	4,979.59	4,979.59	99.98	199.18	90.04	5,552.69	1,170.26	4,694.83	4,396.04	298.80	15.712	
8,900.00	5,118.45	4,980.45	4,980.45	102.51	199.22	90.05	5,552.69	1,170.26	4,704.68	4,403.53	301.15	15.623	
9,000.00	5,119.31	4,981.31	4,981.31	105.04	199.25	90.06	5,552.69	1,170.26	4,716.62	4,413.18	303.44	15.544	
9,100.00	5,120.16	4,982.16	4,982.16	107.58	199.29	90.07	5,552.69	1,170.26	4,730.65	4,424.97	305.68	15.476	
9,200.00	5,121.02	4,983.02	4,983.02	110.11	199.32	90.09	5,552.69	1,170.26	4,746.74	4,438.88	307.86	15.418	
9,300.00	5,121.88	4,983.88	4,983.88	112.65	199.36	90.10	5,552.69	1,170.26	4,764.88	4,454.89	309.99	15.371	
9,400.00	5,122.73	4,984.73	4,984.73	115.19	199.39	90.11	5,552.69	1,170.26	4,785.04	4,472.99	312.05	15.334	
9,500.00	5,123.59	4,985.59	4,985.59	117.73	199.42	90.12	5,552.69	1,170.26	4,807.20	4,493.15	314.05	15.307	
9,600.00	5,124.45	4,986.45	4,986.45	120.27	199.46	90.13	5,552.69	1,170.26	4,831.32	4,515.33	315.99	15.290	
9,700.00	5,125.30	4,987.30	4,987.30	122.81	199.49	90.14	5,552.69	1,170.26	4,857.38	4,539.52	317.86	15.282 SF	
9,800.00	5,126.16	4,988.16	4,988.16	125.35	199.53	90.15	5,552.69	1,170.26	4,885.35	4,565.69	319.67	15.283	
9,900.00	5,127.02	4,989.02	4,989.02	127.90	199.56	90.16	5,552.69	1,170.26	4,915.20	4,593.79	321.41	15.293	
10,000.00	5,127.88	4,989.88	4,989.88	130.45	199.60	90.17	5,552.69	1,170.26	4,946.89	4,623.80	323.09	15.311	
10,100.00	5,128.73	4,990.73	4,990.73	132.99	199.63	90.18	5,552.69	1,170.26	4,980.38	4,655.68	324.70	15.338	
10,200.00	5,129.59	4,991.59	4,991.59	135.54	199.66	90.19	5,552.69	1,170.26	5,015.65	4,689.40	326.25	15.374	
10,300.00	5,130.45	4,992.45	4,992.45	138.09	199.70	90.20	5,552.69	1,170.26	5,052.65	4,724.91	327.74	15.417	
10,400.00	5,131.30	4,993.30	4,993.30	140.64	199.73	90.21	5,552.69	1,170.26	5,091.34	4,762.18	329.16	15.468	
10,500.00	5,132.16	4,994.16	4,994.16	143.19	199.77	90.22	5,552.69	1,170.26	5,131.69	4,801.17	330.52	15.526	
10,600.00	5,133.02	4,995.02	4,995.02	145.74	199.80	90.23	5,552.69	1,170.26	5,173.66	4,841.84	331.82	15.592	
10,700.00	5,133.87	4,995.87	4,995.87	148.29	199.83	90.24	5,552.69	1,170.26	5,217.21	4,884.14	333.07	15.664	
10,800.00	5,134.73	4,996.73	4,996.73	150.85	199.87	90.25	5,552.69	1,170.26	5,262.30	4,928.05	334.25	15.744	
10,900.00	5,135.59	4,997.59	4,997.59	153.40	199.90	90.26	5,552.69	1,170.26	5,308.88	4,973.51	335.37	15.830	
11,000.00	5,136.44	4,998.44	4,998.44	155.96	199.94	90.27	5,552.69	1,170.26	5,356.93	5,020.49	336.45	15.922	
11,100.00	5,137.30	4,999.30	4,999.30	158.51	199.97	90.28	5,552.69	1,170.26	5,406.41	5,068.94	337.46	16.021	
11,200.00	5,138.16	5,000.16	5,000.16	161.07	200.01	90.30	5,552.69	1,170.26	5,457.26	5,118.84	338.43	16.125	
11,300.00	5,139.02	5,001.02	5,001.02	163.62	200.04	90.31	5,552.69	1,170.26	5,509.47	5,170.12	339.35	16.236	
11,400.00	5,139.87	5,001.87	5,001.87	166.18	200.07	90.32	5,552.69	1,170.26	5,562.98	5,222.77	340.21	16.351	
11,500.00	5,140.73	5,002.73	5,002.73	168.73	200.11	90.33	5,552.69	1,170.26	5,617.76	5,276.73	341.03	16.473	
11,600.00	5,141.59	5,003.59	5,003.59	171.29	200.14	90.34	5,552.69	1,170.26	5,673.77	5,331.97	341.81	16.599	
11,700.00	5,142.44	5,004.44	5,004.44	173.85	200.18	90.35	5,552.69	1,170.26	5,730.98	5,388.45	342.54	16.731	
11,800.00	5,143.30	5,005.30	5,005.30	176.41	200.21	90.36	5,552.69	1,170.26	5,789.36	5,446.13	343.23	16.867	
11,900.00	5,144.16	5,006.16	5,006.16	178.97	200.25	90.37	5,552.69	1,170.26	5,848.86	5,504.98	343.88	17.008	
12,000.00	5,145.01	5,007.01	5,007.01	181.53	200.28	90.38	5,552.69	1,170.26	5,909.45	5,564.96	344.49	17.154	
12,100.00	5,145.87	5,007.87	5,007.87	184.09	200.31	90.39	5,552.69	1,170.26	5,971.11	5,626.04	345.07	17.304	
12,200.00	5,146.73	5,008.73	5,008.73	186.65	200.35	90.40	5,552.69	1,170.26	6,033.79	5,688.18	345.61	17.458	
12,300.00	5,147.58	5,009.58	5,009.58	189.21	200.38	90.41	5,552.69	1,170.26	6,097.47	5,751.35	346.12	17.617	
12,400.00	5,148.44	5,010.44	5,010.44	191.77	200.42	90.42	5,552.69	1,170.26	6,162.11	5,815.52	346.59	17.779	
12,500.00	5,149.30	5,011.30	5,011.30	194.33	200.45	90.43	5,552.69	1,170.26	6,227.68	5,880.65	347.03	17.945	
12,600.00	5,150.16	5,012.16	5,012.16	196.89	200.49	90.44	5,552.69	1,170.26	6,294.16	5,946.71	347.45	18.115	
12,700.00	5,151.01	5,013.01	5,013.01	199.45	200.52	90.45	5,552.69	1,170.26	6,361.52	6,013.68	347.84	18.289	
12,800.00	5,151.87	5,013.87	5,013.87	202.01	200.55	90.46	5,552.69	1,170.26	6,429.73	6,081.53	348.20	18.466	
12,900.00	5,152.73	5,014.73	5,014.73	204.57	200.59	90.47	5,552.69	1,170.26	6,498.76	6,150.23	348.54	18.646	
13,000.00	5,153.58	5,015.58	5,015.58	207.14	200.62	90.48	5,552.69	1,170.26	6,568.59	6,219.74	348.85	18.829	
13,100.00	5,154.44	5,016.44	5,016.44	209.70	200.66	90.49	5,552.69	1,170.26	6,639.19	6,290.05	349.14	19.016	
13,200.00	5,155.30	5,017.30	5,017.30	212.26	200.69	90.51	5,552.69	1,170.26	6,710.54	6,361.13	349.41	19.205	
13,282.06	5,156.00	5,018.00	5,018.00	214.37	200.72	90.51	5,552.69	1,170.26	6,769.72	6,420.10	349.62	19.363	
13,282.88	5,156.01	5,018.01	5,018.01	214.38	200.72	90.51	5,552.69	1,170.26	6,770.31	6,420.39	349.92	19.348	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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 6826' & RKB 14' @ 6840.00usft

Offset Depths are relative to Offset Datum

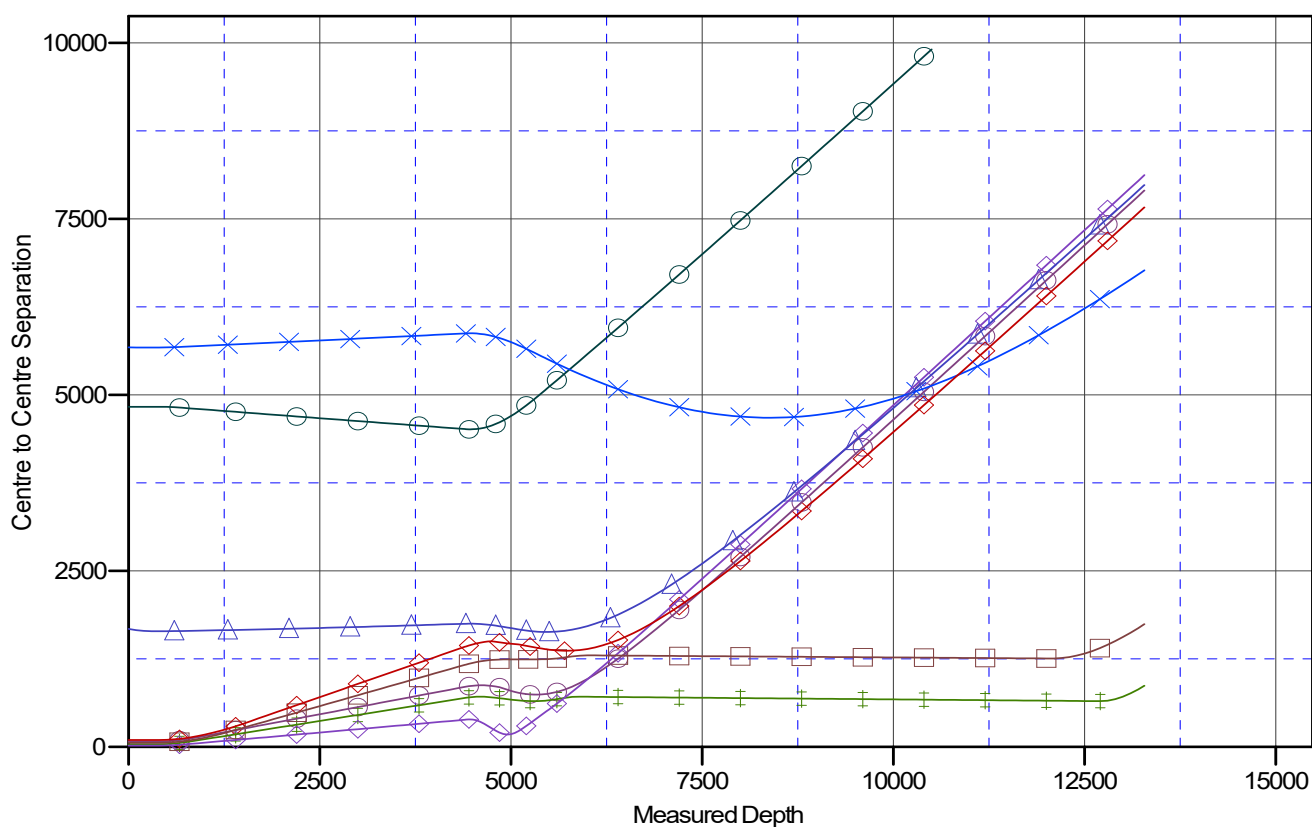
Central Meridian is -107.8333334

Coordinates are relative to: # 217H - Slot 1

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

Grid Convergence at Surface is: 0.04°

Ladder Plot



LEGEND

# 216H Original Drilling g.APDV0	# 213H Original Drilling g.APDV0	Federal#27-43,CHCHV0
# 215H Original Drilling g.APDV0	Dome Federal35-24-9#1,CHCHV0	# 214H Original Drilling g.APDV0
# 218H Original Drilling g.APDV0	Nageezi 23-11,CHCHV0	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 217H - Slot 1
Project:	Nageezi Unit	TVD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Reference Site:	L26 2409	MD Reference:	GL 6826' & RKB 14' @ 6840.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 217H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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 6826' & RKB 14' @ 6840.00usft

Offset Depths are relative to Offset Datum

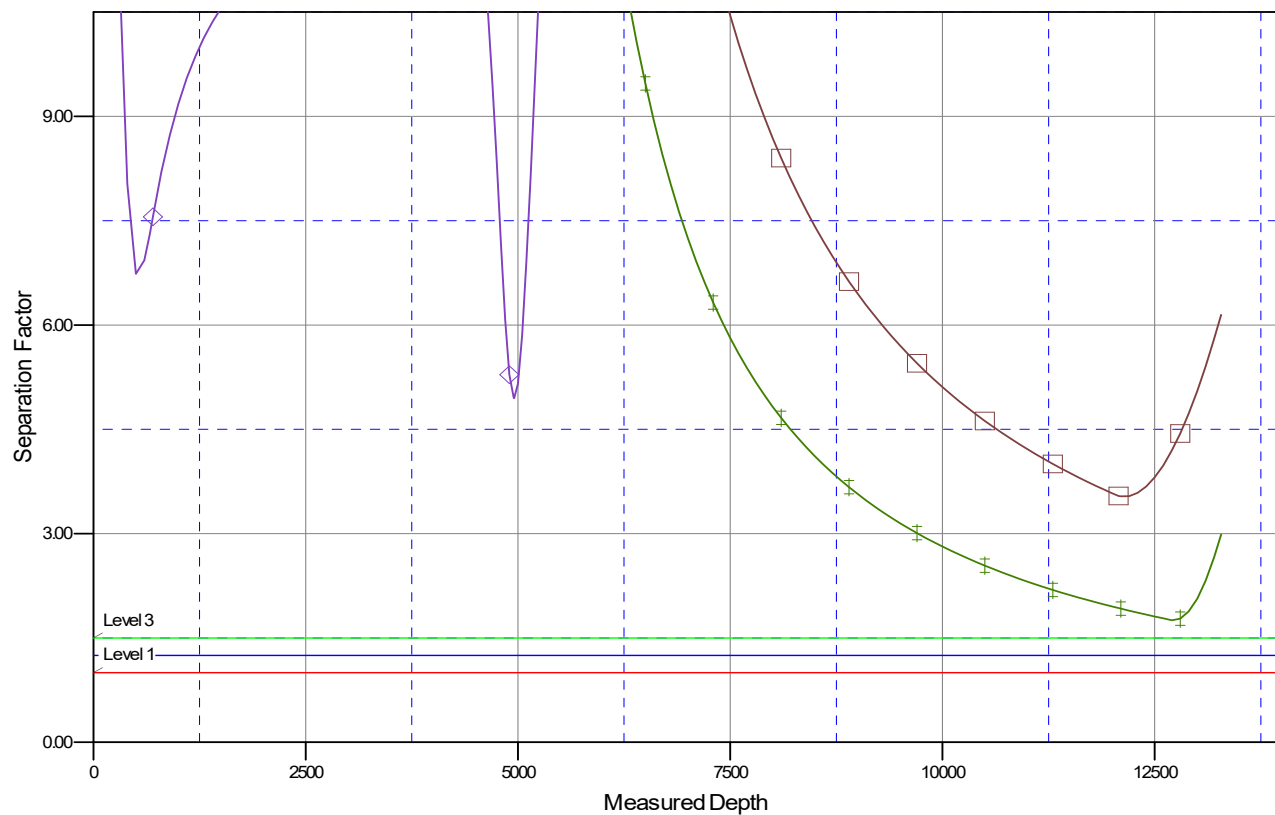
Central Meridian is -107.8333334

Coordinates are relative to: # 217H - Slot 1

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

Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

# 216H Original Drilling g.APDV0	# 213H Original Drilling g.APDV0	Federal#27-43,OHCHM0
# 215H Original Drilling g.APDV0	Dome Federal35-24-9#1,OHCHM0	# 214H Original Drilling g.APDV0
# 218H Original Drilling g.APDV0	Neup23-11,OHCHM0	



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)

* DJR OPERATING LLC

#217H NAGEEZI UNIT

Lease: N0G14021898

SH: NW¼SW¼ Section 26, T.24 N., R.9W.
Sandoval County, New Mexico

BH: NW¼SW¼ Section 22 T.24 N., R9 W.
Sandoval 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, Farmington District Office, Branch of Reservoir Management, 6251 College Blvd. Suite A, Farmington, New Mexico 87402. 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, regulations, and Onshore Orders, 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.**
- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- 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.**
- B. Emergency program changes after hours contact:

Virgil Lucero (505) 793-1836
Joe Killins (505) 564-7736

CONDITIONS OF APPROVAL

Operator: DJR Operating LLC
Well Name: Nageezi Unit (NU) L26-2409 and M25-2409 Cluster Oil and Natural Gas Well Project
EA Number: DOI-BLM-NM-F010-2022-0004-EA
Lease Number: NMNM132981A, NMNM078860 & N0G14011834

The following conditions of approval will apply to the Nageezi Unit (NU) L26-2409 and M25-2409 Cluster Oil and Natural Gas Well Project well pads, access roads and pipeline and other associated facilities, unless a particular Surface Managing Agency or private surface owner has supplied to Bureau of Land Management and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2.

Special Stipulations

Copy of COA's: A copy of these stipulations, including exhibits and the Plan(s) of Operation (if required), shall be on the project area and available to person directing equipment.

Construction & Reclamation Notification: The operator or their contractor will contact the Bureau of Land Management, Farmington Field Office Environmental Protection Staff at (505) 564-7600 or by email, at least 48 hours prior to any construction or reclamation on this project. The operator or their contractor will contact the grazing permittee to give notice at least 10 days prior to start of construction operations.

Weather: No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of 6 inches deep, the soil shall be deemed too wet.

Stockpile of Soil: The top 6 inches of soil material will be stripped and stockpiled in the construction zones around the pad (construction zones may be restricted or deleted to provide resource avoidance). The stockpiled soil will be free of brush and tree limbs, trunks and roots. The stockpiled soil material will be spread on the reclaimed portions of the pad (including the cut and fill slopes) prior to re-seeding. Spreading shall not be done when the ground or topsoil is frozen or wet.

Grazing Permittee Notification and Concerns: The operator will notify the grazing lease operator(s) at least ten business days prior to beginning any construction activity to ensure there will be no conflicts between construction activities and livestock grazing operations. The operator is not obligated to cease or delay construction unless directed by the Authorized Officer (AO). Any range improvement (fences, pipelines, ponds, etc.) disturbed by construction activities will be repaired immediately following construction and will be repaired to the condition the improvement was in prior to disturbance. Cattle guards will be installed to replace any livestock fencing or gates removed for road construction.

Paleontology: Any paleontological resource discovered by the Operator, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the AO to determine appropriate actions to prevent the loss of significant scientific values. The Holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the AO after consulting with the Holder.

Wildlife: Blanco Wash Pipe Boring in Section 20, T42N R8W: If, for any reason ground disturbance, new construction or emergency repairs is needed within the 122 feet corridor consultation with NNDFW will be required (per NNDFW-BRCF dated 1/25/22).

Migratory Bird Nest Survey: For any construction activities that exceed 4.0 acres of ground disturbance from 5/15 to 7/31 within the same lease, a migratory bird nest survey is required prior to any new ground disturbance.

Nest surveys will be conducted within 48 hours of scheduled construction by BLM FFO personnel or approved biologist. Any active nests will require a disturbance buffer to eliminate impacts to nesting birds. Active nests will not be disturbed.

Applicant will adhere to timing limitations and management measures if any new raptor nests are discovered within the project area. These timing limitations are species specific depending on the raptor that is discovered. The following timing limitations may apply:

Raptor Species of Nest Discovered	Timing Limitation
Bald Eagle	March 1-June 30
Burrowing Owl	April 1-August 15
Golden Eagle	February 1-June 30
Other Raptors	March 1- June 30

Storage Tanks: All open top permanent production or storage tanks regardless of diameter made of fiberglass, steel, or other material used for the containment of oil, condensate, produced water and or other production waste shall be screened, netted, or otherwise covered to protect migratory birds and other wildlife from access.

Cultural Resources:

Site Protection and Employee Education:

All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. They will also be notified that it is illegal to collect, damage, or disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16 U.S.C. 470aa-mm) when on federal land and the New Mexico Cultural Properties Act NMSA 1978 when on state land.

Cultural Resources Stipulations:

1. **For the construction of the NU M25-2409, well pad, pipeline, access road, staging area, and TUA. See BLM Report: 2022(I)014F:**

ARCHAEOLOGICAL MONITORING IS REQUIRED:

A copy of these stipulations will be supplied to the archeological monitor at least two working days prior to the start of construction activities. No construction activities, including vegetation removal, may begin before the arrival of the archaeological monitor.

The monitor will:

- Ensure that site protection barriers are located as indicated on the attached map in the vicinity of LA29146, LA167381, & LA199707.
- Inform BLM-FFO archaeologists that monitoring will be occurring within 24 hours of the scheduled monitoring.
- Observe all surface disturbing activities within 100' of LA29146, LA167381, & LA199707.
- Submit a report of the monitoring activities within 30 days of completion of monitoring unless other arrangements are made with the BLM. These stipulations must be attached to the report.

SITE PROTECTION BARRIER:

- The temporary site protection barrier will be erected prior to construction. The barrier will consist of upright wooden survey lath spaced no more than 10 feet apart and marked with blue flagging or blue paint. The barrier will remain in place through reclamation and reseeding and shall be promptly removed after reclamation.
- The barrier will be placed as indicated on the attached map.
- There will be no surface-disturbing activities or vehicle traffic past the barrier.

Note: If there are questions about these stipulations, contact Kim Adams (BLM) at 505.564.7683 or kadams@blm.gov.

**ADDITIONAL:
CULTURAL RESOURCE STIPULATIONS**

1. Discovery of Cultural Resources in the Absence of Monitoring: If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, **or in accordance with an approved program alternative**. Minor recordation, stabilization, or data recovery may be performed by BLM or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive **archaeological or alternative mitigation**, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any **mitigations determined appropriate through the agency's Section 106 consultation are completed**. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, **the Native American Graves Protection and Repatriation Act (NAGRPA) of 1990, as amended, and other applicable laws**.
2. Discovery of Cultural Resources during Monitoring: If monitoring confirms the presence of previously unidentified **historic or prehistoric** cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. **If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, or in accordance with an approved program alternative**. Minor recordation, stabilization, or data recovery may be performed by BLM or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive archaeological or alternative mitigation, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any **mitigations determined appropriate through the agency's Section 106 consultation are completed**.
3. Damage to Sites: If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted

cultural resources consultant prepare a BLM approved damage assessment and/or data recovery plan. The operator/holder agrees at his/her expense to implement a **mitigation** that the agency finds appropriate given the significance of the site, which the agency determines in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property. **This mitigation may entail execution of the data recovery plan by a permitted cultural resources consultant and/or alternative mitigations.** Damage to cultural resources may result in **civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, the Native American Graves Protection and Repatriation Act (NAGRPA) of 1990, as amended, and other applicable laws.**

4. **EMPLOYEE EDUCATION:** All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed **and educated** that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. This includes personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipeline. They will also be notified that it is illegal to collect, damage, or disturb **historic or prehistoric** cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the **ARPA (16 U.S.C. 470aa-mm), NAGPRA (25 U.S.C. 3001-3013), and other laws, as applicable (for example, NM Stat. § 18-6-9 through § 18-6-11.2, as amended, and NM Stat. § 30-12-12, as amended).**

Design Features

DJR would adhere to any conditions required by the BLM FFO. Additional project-specific design features will be included as determined during the BLM on-site meetings. DJR has also committed to the following design features and BMPs to lessen impacts to resources. Where applicable, additional details related to the design features may be found in the APDs, Sundry Notice, and ROW grants on file at the BLM FFO.

Air Resources

- Areas not required for facilities would be revegetated during interim reclamation.
- Dirt roads would be watered during periods of high use (magnesium chloride, organic-based compounds, and/or polymer compounds could also be used on dirt roads upon approval of the BLM).
- BMPs provided in The Gold Book would be implemented for proposed and existing roads (BLM and U.S. Forest Service 2007).
- Compressor engines of 300 horsepower or less used during well production must be rated by the manufacturer as emitting NO_x at 2 grams per horsepower hour or less to comply with the NMED, Air Quality Bureau's guidance.

Water Resources

- To prevent erosion, certain areas surrounding the proposed site would be recontoured during interim reclamation.
- Culverts and silt traps would be installed as appropriate and where determined during the BLM on-site and facility on-site visits.

Wildlife, Migratory Birds, and Special-Status Species

- Any wildlife encountered within the proposed project area would be avoided and allowed to move out of the proposed project area. No wildlife would be intentionally harmed or harassed.
- Wildlife hazards, such as storage tanks, associated with the proposed project would be fenced or covered, as necessary.
- Because the proposed project would disturb more than 4.0 acres of vegetation, migratory breeding bird nesting surveys would be required if construction activities are scheduled to occur during the migratory bird nesting season (May 15 – July 31). If an active nest is encountered, it would be avoided (avoidance buffer to be determined by BLM FFO) and left undisturbed until the nest has failed, or nestlings have fledged. If present, an inactive nest could be cleared by a BLM FFO–approved wildlife biologist.
- DJR would notify the BLM and U.S. Fish and Wildlife Service (USFWS) upon discovery of a dead or injured migratory bird, bald eagle, or golden eagle within or adjacent to the proposed project area. If the BLM becomes aware of such mortality or injury, the BLM will inform DJR. If DJR fails to notify the USFWS of the mortality or injury, the BLM would notify the USFWS. The BLM and the USFWS would then attempt to determine the cause of mortality and identify appropriate mitigation measures to avoid future occurrences.
- Should other special-status species be observed within the proposed project area prior to or during the proposed project, construction would cease, and the BLM FFO would be immediately contacted. The BLM FFO would then evaluate the resource. Should a discovery be evaluated as significant (protected under the Endangered Species Act, etc.), it would be protected in place until mitigation could be developed and implemented according to guidelines set by the BLM FFO.
- Per BLM FFO Instruction Memorandum No. NM-200-2008-001 (BLM 2008b), an updated pre-construction biological survey could be required for the proposed project if vegetation removal would occur more than 1 year following the previous biological survey.

Soil, Upland Vegetation, and Noxious Weeds and Invasive Species

- Reclamation would follow the guidance provided in the *Farmington Field Office Bare Soil Reclamation Procedures* (BLM 2013). These procedures are referenced in DJR's Surface Reclamation Plan.
- The selected seed mix for the Proposed Action is sagebrush community.
- A noxious weed inventory utilizing the New Mexico Noxious Weed List (New Mexico Department of Agriculture 2009) and the U.S. Department of Agriculture's (USDA's) Federal Noxious Weed List (Natural Resources Conservation Service 2017; USDA 2010, 2012) will be conducted during the pre-disturbance on-site meeting.
- Identified noxious weeds would be treated prior to new surface disturbance, as determined by the BLM FFO Noxious Weed Specialist. A Pesticide Use Proposal (PUP) would be submitted to and approved by the BLM FFO Noxious Weed Specialist prior to application of any pesticide.
- See the above water resources section for erosion-control features.

Cultural Resources

- All cultural resources stipulations would be followed as indicated in the BLM Cultural Resource Records of Review and the Conditions of Approvals. These

stipulations may include, but are not limited to, temporary or permanent fencing or other physical barriers, monitoring of earth-disturbing construction, project area reduction and/or specific construction avoidance zones, and employee education.

- All employees, contractors, and subcontractors would be informed by the project proponent that cultural sites are to be avoided by all personnel, personal vehicles, and company equipment, and that it is illegal to collect, damage, or disturb cultural resources, and that such activities on federal and tribal lands are punishable by criminal and or administrative penalties under the provisions of Archaeological Resources Protection Act (ARPA) (16 USC 470aa-mm).
- In the event of a cultural resource's discovery during construction, construction activities would immediately cease in the immediate vicinity of the discovery, and DJR would immediately notify the archaeological monitor, if present, or the BLM. The BLM would then ensure that the site is evaluated. Should a discovery be evaluated as significant (e.g., National Register of Historic Places, Native American Graves Protection and Repatriation Act of 1990, ARPA), it would be protected in place until mitigating measures can be developed and implemented according to guidelines set by the BLM.
- Known sites and sites identified during the pre-construction cultural resources inventory surveys would be avoided.

Paleontological Resources

- If any paleontological resources are discovered during activities associated with the proposed project:
 - DJR would immediately inform the BLM Authorized Officer.
 - Activities in the vicinity of the discovery would be immediately suspended until written authorization to proceed is issued by the BLM Authorized Officer.
 - The discovery would be protected from damage or looting.
 - The Authorized Officer would ensure evaluation of the discovery as soon as possible.
 - Appropriate measures to mitigate adverse effects to significant paleontological resources would be determined by the Authorized Officer after consulting with the operator.

Visual Resources and Dark Skies

- Equipment not subject to safety requirements would be painted a BLM Standard Environmental Color (Juniper Green) to minimize contrast with the surrounding landscape.
- If applicable, during reclamation, stockpiled rocks, if available, would be placed within the reclaimed area for erosion control and/or to discourage off-highway vehicle traffic (if requested by the BLM FFO). Rocks would be placed in a manner that visually blends with the adjacent, undisturbed landscape.
- Lights would be limited to those needed for safety during construction, drilling and operations.
- Lighting would be downward-facing or shielded where possible.

Livestock Grazing and Rangeland Health Standards

- Livestock grazing operators in the vicinity of the proposed project area would be contacted prior to construction.

- Safety meetings would be conducted prior to construction to increase awareness of livestock, such as the presence of open range and driving speed to avoid livestock collisions.
- To the extent feasible, construction activities would not be conducted when livestock are present within the proposed project area.
- If livestock are present during construction, barriers would be placed to ensure that livestock do not come in contact with potential hazards. Barrier examples could include fencing of exposed ditch-type holes, covering of holes when personnel are not present on-site, and containing contaminants, fluid leaks, or hazards that could cause injury to livestock.

Public Health and Safety

- The hauling of equipment and materials on public roads would comply with New Mexico Department of Transportation regulations. Any accidents involving persons or property would be reported to the BLM FFO. DJR would notify the public of potential hazards by posting signage, having flaggers, or using lighted signs, as necessary.
- Worker safety incidents would be reported to the BLM FFO as required under NTL-3A (U.S. Geological Survey 1979). DJR would adhere to company safety policies and Occupational Safety and Health Administration regulations.
- Vehicles would be restricted to proposed and existing disturbance areas.
- The proposed site would have an informational sign, delineating Operator, Legal Description, etc.
- Oil and gas industry traffic is expected to adhere to all posted speed limits and signs. Drivers would be appropriately licensed and inspected.

Lay-Flat Pipeline BMPs

- A temporary lay flat line would be authorized to move water for completion activities. The lay flat will reduce the amount of truck traffic to move water. The lay flat will be authorized for no more than 60 days from the date of installation or development. Request for an extension of the 60-day authorization, would require a sundry application be submitted to the BLM-FFO including justification for the request.
- Time construction activities at perennial, intermittent, and ephemeral drainage crossings (e.g., buried pipelines, culverts) to avoid high-flow conditions. When construction disturbs a flowing stream, utilize either a piped stream diversion or a cofferdam and pump to divert flow around the disturbed area.
- Design and construct surface pipelines at drainage crossings at an adequate height above possible flood levels. Bore/bury pipeline crossings below the surface deep enough to remain undisturbed by scour and fill processes typically associated with peak flows. Complete a hydraulic analysis during the pipeline design phase to avoid repeated maintenance of such a crossing and eliminate costly repairs and potential environmental degradation associated with pipeline breaks at stream crossings. Utilize horizontal directional boring techniques below perennial water bodies and/or wetland complexes when environmental circumstances allow.
- X-ray pipeline welds within 100 feet of a perennial stream to prevent leakage into the stream. Where pipelines cross streams that support Federal or State-listed threatened or endangered species or BLM-listed sensitive species, utilize additional safeguards (such as double-walled pipe, and remotely actuated block or check valves) on both sides of the stream.

- Avoid water courses when locating pipelines and flowlines; utilize road corridors wherever possible to minimize surface disturbance and provide better leak detection and access for installation and repair activities.
- Reclamation, including seeding, of temporarily disturbed areas along roads and pipelines, and of topsoil piles and berms, shall be completed within 30 days following completion of construction. Any such area on which construction is completed prior to December 1 shall be seeded during the remainder of the early winter season instead of during the following spring unless BLM approves otherwise based on weather. If road or pipeline construction occurs discontinuously (e.g., new segments installed as new pads are built) or continuously but with a total duration greater than 30 days, reclamation, including seeding, shall be phased such that no portion of the temporarily disturbed area remains in an un-reclaimed condition for longer than 30 days. BLM may authorize deviation from this requirement based on the season and the amount of work remaining on the entirety of the road or pipeline when the 30-day period has expired.
- To the extent practical, existing vegetation shall be preserved when clearing and grading for pads, roads, and pipelines. Cleared trees and rocks may be salvaged for redistribution over reshaped cut and-fill slopes or along linear features.

Weeds

Farmington Field Office Standard Noxious/Invasive Weeds Design Features and Best Management Practices

Noxious/Invasive Weeds: DJR will inventory the proposed site for the presence of noxious and invasive weeds. Noxious weeds are those listed on the New Mexico Noxious Weed List and USDA's Federal Noxious Weed List. The New Mexico Noxious Weed List or USDA's Noxious Weed List can be updated at any time and should be regularly checked for any changes. Invasive species may or may not be listed as noxious weeds but have been identified to likely cause economic or environmental harm or harm to human health. The following noxious weeds have been identified as occurring on land within the boundaries of the FFO. Numerous invasive species occur in the BLM FFO area, such as Russian thistle (*Salsola* spp.) and field bindweed (*Convolvulus arvensis*).

African rue (<i>Peganum harmala</i>)	Leafy spurge (<i>Euphorbia esula</i>)
Bull thistle (<i>Cirsium vulgare</i>)	Musk thistle (<i>Carduus nutans</i>)
Camelthorn (<i>Alhagi pseudalhagi</i>)	Perennial pepperweed (<i>Lepidium latifolium</i>)
Canada thistle (<i>Cirsium arvense</i>)	Russian knapweed (<i>Centaurea repens</i>)
Dalmation toadflax (<i>Linaria genistifolia</i>)	Saltcedar (<i>Tamarix</i> spp.)
Diffuse knapweed (<i>Centaurea diffusa</i>)	Scotch thistle (<i>Onopordum acanthium</i>)
Halogeton (<i>Halogeton glomeratus</i>)	Spotted knapweed (<i>Centaurea maculosa</i>)
Hoary cress (<i>Cardaria draba</i>)	Yellow toadflax (<i>Linaria vulgaris</i>)

- Any identified weeds will be treated prior to new surface disturbance if determined by the FFO Noxious Weed Specialist. If a Weed Management Plan is not on file, a Weed Management Plan will be created. A PUP will be submitted to and approved by the FFO Noxious Weed Specialist prior to application of pesticide. The FFO Noxious Weed Specialist (505-564-7600) can provide assistance in the development of the PUP.

- b. Vehicles and equipment should be inspected and cleaned prior to coming onto the site. This is especially important for vehicles from out of state or if coming from a weed-infested site.
- c. Fill dirt or gravel may be needed for excavation, road construction/repair, or as a surfacing material. If fill dirt or gravel will be required, the source shall be free of noxious weeds and approved by the FFO Noxious Weed Specialist.
- d. The site shall be monitored for the life of the project for the presence of noxious weeds (includes maintenance and construction activities). If weeds are found, the FFO Noxious Weed Specialist shall be notified at (505) 564-7600 and provided with a Weed Management Plan and, if necessary, a PUP. The FFO Specialist can provide assistance developing the Weed Management Plan and/or the PUP.
- e. Only pesticides authorized for use on BLM land would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and used only in accordance with their registered use and limitations. DJR's weed-control contractor would contact the BLM FFO prior to using these chemicals.

Noxious/invasive weed treatments must be reported to the FFO Noxious Weed Specialist. A Pesticide Use Report (PUR) is required to report any mechanical, chemical, biological, or cultural treatments used to eradicate and/or control noxious or invasive species. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Specialist.

Bare ground vegetation trim-out:



DJR OPERATING, LLC

BARE GROUND VEGETATION TRIM-OUT DESIGN

ATTACHED TO

SURFACE PLAN OF OPERATIONS

Facility/ Structure	Required Trim-Out Buffer Distance	Pesticide Use for Vegetation Control	Pesticide Use Plan On file with BLM
Well Head	10'	Yes	Yes
Tanks/Containment	10'	Yes	Yes
Gas Lift Compressors	10'	Yes	Yes
Metering Equipment	10'	Yes	Yes
SCC (Smokeless Combustion Chamber)	10'	Yes	Yes

- a. Pesticide use for trim-out will require a PUP submitted for approval by the FFO Noxious Weed Specialist. A PUP is required prior to any treatment. Only pesticides authorized for use on BLM land would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and only in accordance with their registered use and limitations. DJR's weed-control contractor would contact the BLM FFO prior to using these chemicals and provide PURs post-treatment.

- b. A PUR is required to report any mechanical, chemical, biological, or cultural treatments used to eradicate, or control vegetation on-site. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Specialist.

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 184288

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 184288
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	2/9/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/9/2023
kpickford	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	2/9/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	2/9/2023
kpickford	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	2/9/2023