

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. 30-043-21503		
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.
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.			
25. Signature Title		Name (Printed/Typed) Date		
Approved by (Signature) Title		Name (Printed/Typed) Office		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
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. |
|---|---|

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

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 30-043-21503	² Pool Code 42289	³ Pool Name LYBROOK GALLUP OIL POOL
⁴ Property Code 325271	⁵ Property Name VENADO CANYON UNIT	⁶ Well Number 002H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6919'

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
E	01	22N	6W		1984'	NORTH	350'	WEST	SANDOVAL

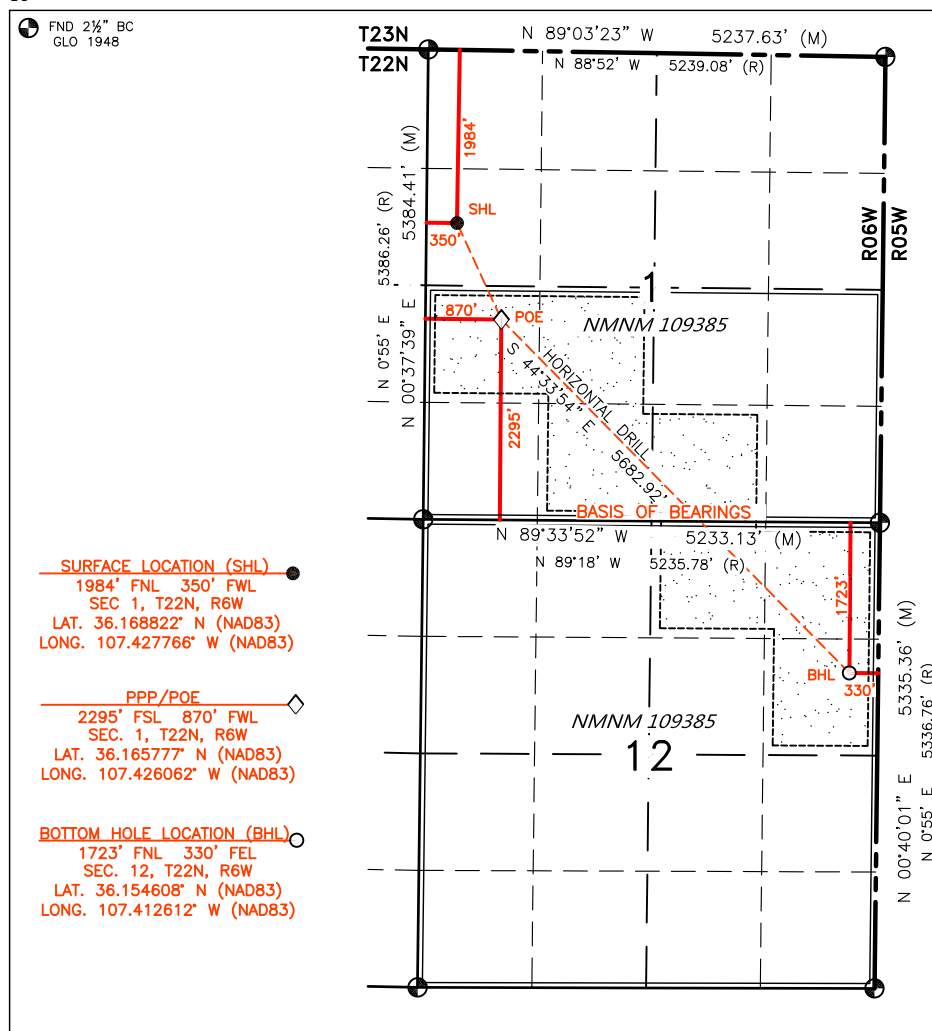
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	12	22N	6W		1723'	NORTH	330'	EAST	SANDOVAL

¹² Dedicated Acres PENETRATED SPACING UNIT; SEC 1: NW/SW, NE/SW, SE/SW & SW/SE (160 AC.); SEC 12: NW/NE, NE/NE & SE/NE (120 AC.) = 280 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14067 R-14067A
---	-------------------------------	----------------------------------	--

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



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 01/12/22
Signature Date

Shaw-Marie Ford
Printed Name

sford@djrlc.com
E-mail Address

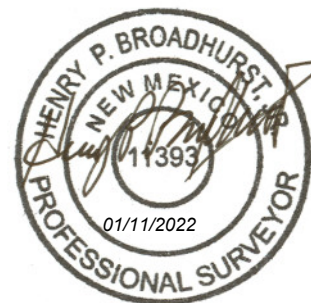
SURVEYOR CERTIFICATION

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.

JUNE 1, 2021

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

11393

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: DJR Operating, LLC **OGRID:** 371838 **Date:** 09 / 29 / 2022

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
Venado Canyon Unit 002H	TBD	E-01-22N-06W	1984 FNL x 350 FWL	360	540	130
Venado Canyon Unit 515H	TBD	E-01-22N-06W	1694 FNL x 355 FWL	260	200	90

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
Venado Canyon Unit 002H	TBD	01/16/2023	02/17/2023	03/17/2023	02/27/2023	02/29/2023
Venado Canyon Unit 515H	TBD	01/17/2023	02/18/2023	03/18/2023	02/28/2023	02/29/2023

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: 09/29/2022
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
Venado Canyon Unit 002H and 515H
SWNW E-01-22N-06W

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
Venado Canyon Unit 002H and 515H
SWNW E-01-22N-06W

VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Venado Canyon Unit 002H and 515H
SWNW E-01-22N-06W

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.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Venado Canyon Unit 002H and 515H
SWNW E-01-22N-06W

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

Venado Canyon Unit #002H

Sandoval County, New Mexico

Surface Location

350-ft FWL & 1984-ft FNL
 Sec 1 T22N R06W
 Graded Elevation 6919' MSL
 RKB Elevation 6933' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1688220° N
 Longitude 107.4277660° W

Kick Off Point for Horizontal Build Curve

4829-ft MD
 4783-ft TVD

Local Coordinates (from SHL)

620-ft South
 95-ft East

Heel Location (Pay zone entry)

870-ft FWL & 2295-ft FSL
 Sec 1 T22N R06W

Heel Geographical Coordinates (NAD-83)

Latitude 36.1657773° N
 Longitude 107.42606230° W

Bottom Hole Location (TD)

330-ft FEL & 1723-ft FNL
 Sec 12 T22N R06W

BHL Geographical Coordinates (NAD-83)

Latitude 36.154608° N
 Longitude 107.4126120° W

Well objectives

This well is planned as a 5680-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 142°F. Bottom hole pressure in the Gallup C 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	1344	1337	Sd	W	8.3	8.4 – 8.8
Kirtland	1443	1435	Sh	-	8.3	8.4 – 8.8
Fruitland	1647	1636	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1850	1837	Sd	W	8.3	9.0 - 9.5
Lewis	1956	1942	Sh	-		9.0 - 9.5
Chacra	2713	2690	Sd	-	8.3	9.0 - 9.5
Menefee	3423	3392	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4135	4097	Sd	-	8.3	9.0 - 9.5
Mancos	4279	4239	Sh	-		9.0 - 9.5
Mancos Silt	4639	4595	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5189	5108	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5232	5140	Sd	O/G	6.6	8.8 -9.0
Gallup C	5371	5230	Sd	O/G	6.6	8.8 -9.0
Target	5754	5340	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	5696	surf	5338	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5417	11437	5254	5314	5417

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 Design9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	4329-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	421	219
Volume (bbls)	176	58
Volume (cu.ft.)	986	328
Excess %	55	55



Rev 0

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5417-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	505
Volume (bbls)	141
Volume (cu.ft)	790
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 – 5696	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5696 – 11437	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.



Company: DJR Operating
Project: Venado Canyon Unit
Site: E01 2206 Pad
Well: # 002H
Wellbore: Original drilling
Design: APD

PROJECT DETAILS: Venado Canyon Unit

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



WELL DETAILS: # 002H

GL 6919' & RKB 14' @ 6933ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1880998.10	2842797.47	36.1688220	-107.4277660

Plan: APD (# 002H/Original drilling)

Created By: Janie Collins Date: 15:29, April 08 2021

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
002H Heel	5340	-1108	503	1879891.87	2843304.98	36.1657773	-107.4260623
002H Toe	5314	-5174	4474	1875842.95	2847292.71	36.1546080	-107.4126120

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0	0.00	0.00	0	0	0	0.00	0.00	0	
400	0.00	0.00	400	0	0	0.00	0.00	0	
828	8.56	171.30	827	-32	5	2.00	171.30	27	
4929	8.56	171.30	4783	-620	95	0.00	0.00	531	
5754	90.20	135.67	5340	-1108	503	9.00	-35.92	1167	002H Heel
11437	90.33	135.68	5314	-5174	4474	0.00	1.20	6840	002H Toe



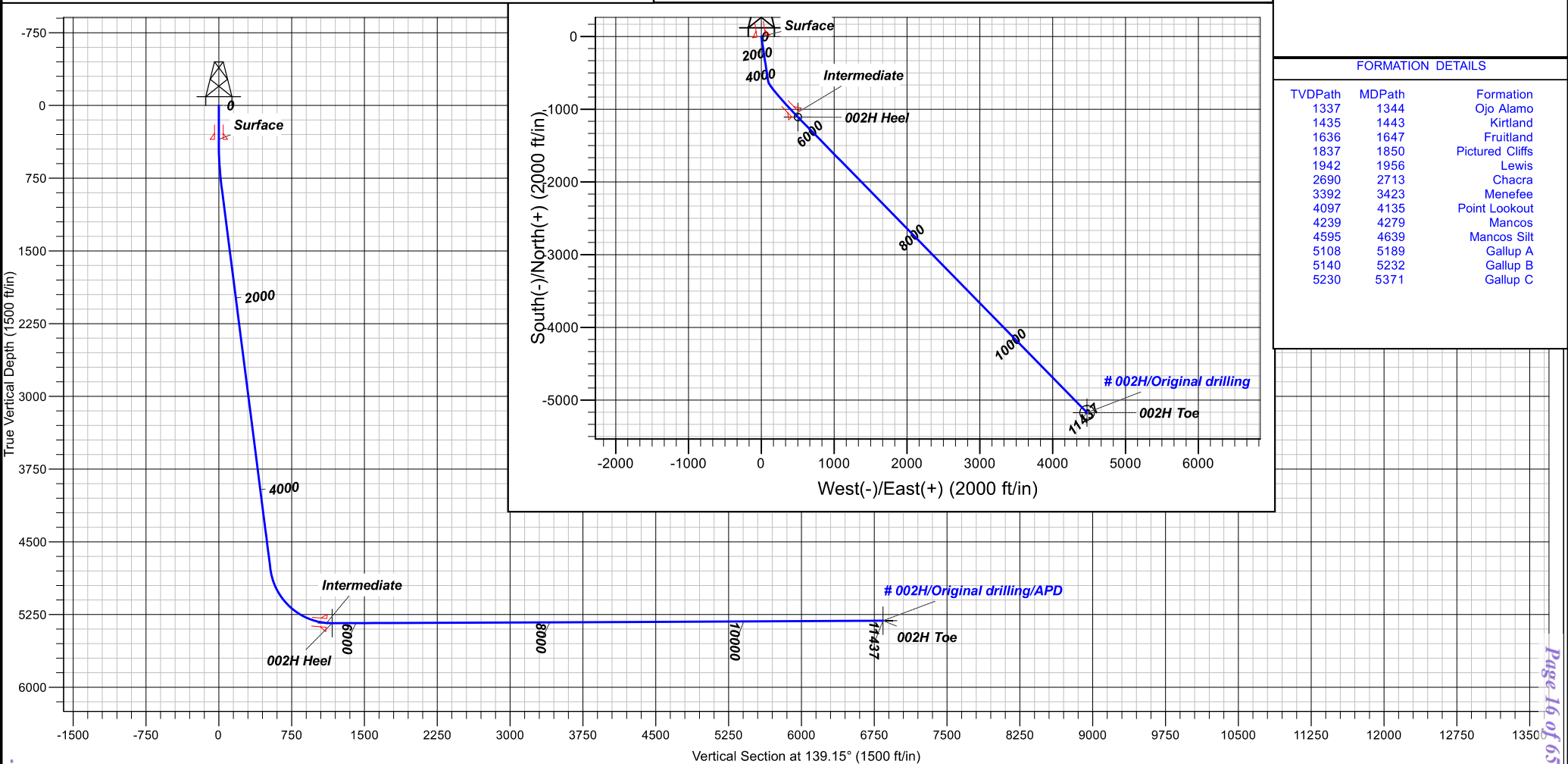
Azimuths to True North
Magnetic North: 82.83°
Magnetic Field
Strength: 49359.01
Dip Angle: 62.83°
Date: 2/17/2021
Model: IGRF2015

CASING DETAILS

TVD	MD	Name
350	350	Surface
5338	5696	Intermediate

FORMATION DETAILS

TVDPATH	MDPATH	FORMATION
1337	1344	Ojo Alamo
1435	1443	Kirtland
1636	1647	Fruitland
1837	1850	Pictured Cliffs
1942	1956	Lewis
2690	2713	Chacra
3392	3423	Menefee
4097	4135	Point Lookout
4239	4279	Mancos
4595	4639	Mancos Silt
5108	5189	Gallup A
5140	5232	Gallup B
5230	5371	Gallup C





DJR Operating

Venado Canyon Unit

E01 2206 Pad

002H - Slot 1

Original drilling

Plan: APD

Standard Planning Report

08 April, 2021





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 002H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Project:	Venado Canyon Unit	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site:	E01 2206 Pad	North Reference:	True
Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original drilling		
Design:	APD		

Project	Venado Canyon 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	E01 2206 Pad			
Site Position:		Northing:	1,880,998.10 usft	Latitude: 36.1688220
From:	Lat/Long	Easting:	2,842,797.47 usft	Longitude: -107.4277660
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence: 0.24 °

Well	# 002H - Slot 1			
Well Position	+N/-S	0 ft	Northing:	1,880,998.10 usft
	+E/-W	0 ft	Easting:	2,842,797.47 usft
Position Uncertainty		0 ft	Wellhead Elevation:	Ground Level: 6919 ft

Wellbore	Original drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/17/2021	8.68	62.86	49,359.81228888

Design	APD			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	139.15

Plan Survey Tool Program	Date	4/7/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	11,437	APD (Original drilling)	MWD+IGRF
				OWSG MWD + IGRF or WMM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
400	0.00	0.00	400	0	0	0.00	0.00	0.00	0.00	
828	8.56	171.30	827	-32	5	2.00	2.00	0.00	171.30	
4829	8.56	171.30	4783	-620	95	0.00	0.00	0.00	0.00	
5754	90.20	135.67	5340	-1108	503	9.00	8.83	-3.85	-35.92	002H Heel
11,437	90.33	135.68	5314	-5174	4474	0.00	0.00	0.00	1.20	002H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 002H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Project:	Venado Canyon Unit	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site:	E01 2206 Pad	North Reference:	True
Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
500	2.00	171.30	500	-2	0	1	2.00	2.00	0.00
600	4.00	171.30	600	-7	1	6	2.00	2.00	0.00
700	6.00	171.30	699	-16	2	13	2.00	2.00	0.00
800	8.00	171.30	799	-28	4	24	2.00	2.00	0.00
828	8.56	171.30	827	-32	5	27	2.00	2.00	0.00
900	8.56	171.30	898	-42	6	36	0.00	0.00	0.00
1000	8.56	171.30	996	-57	9	49	0.00	0.00	0.00
1100	8.56	171.30	1095	-72	11	61	0.00	0.00	0.00
1200	8.56	171.30	1194	-86	13	74	0.00	0.00	0.00
1300	8.56	171.30	1293	-101	15	87	0.00	0.00	0.00
1400	8.56	171.30	1392	-116	18	99	0.00	0.00	0.00
1500	8.56	171.30	1491	-130	20	112	0.00	0.00	0.00
1600	8.56	171.30	1590	-145	22	124	0.00	0.00	0.00
1700	8.56	171.30	1689	-160	24	137	0.00	0.00	0.00
1800	8.56	171.30	1788	-175	27	150	0.00	0.00	0.00
1900	8.56	171.30	1886	-189	29	162	0.00	0.00	0.00
2000	8.56	171.30	1985	-204	31	175	0.00	0.00	0.00
2100	8.56	171.30	2084	-219	33	187	0.00	0.00	0.00
2200	8.56	171.30	2183	-233	36	200	0.00	0.00	0.00
2300	8.56	171.30	2282	-248	38	213	0.00	0.00	0.00
2400	8.56	171.30	2381	-263	40	225	0.00	0.00	0.00
2500	8.56	171.30	2480	-278	42	238	0.00	0.00	0.00
2600	8.56	171.30	2579	-292	45	250	0.00	0.00	0.00
2700	8.56	171.30	2678	-307	47	263	0.00	0.00	0.00
2800	8.56	171.30	2776	-322	49	276	0.00	0.00	0.00
2900	8.56	171.30	2875	-337	51	288	0.00	0.00	0.00
3000	8.56	171.30	2974	-351	54	301	0.00	0.00	0.00
3100	8.56	171.30	3073	-366	56	313	0.00	0.00	0.00
3200	8.56	171.30	3172	-381	58	326	0.00	0.00	0.00
3300	8.56	171.30	3271	-395	60	339	0.00	0.00	0.00
3400	8.56	171.30	3370	-410	63	351	0.00	0.00	0.00
3500	8.56	171.30	3469	-425	65	364	0.00	0.00	0.00
3600	8.56	171.30	3568	-440	67	376	0.00	0.00	0.00
3700	8.56	171.30	3666	-454	69	389	0.00	0.00	0.00
3800	8.56	171.30	3765	-469	72	402	0.00	0.00	0.00
3900	8.56	171.30	3864	-484	74	414	0.00	0.00	0.00
4000	8.56	171.30	3963	-498	76	427	0.00	0.00	0.00
4100	8.56	171.30	4062	-513	78	439	0.00	0.00	0.00
4200	8.56	171.30	4161	-528	81	452	0.00	0.00	0.00
4300	8.56	171.30	4260	-543	83	465	0.00	0.00	0.00
4400	8.56	171.30	4359	-557	85	477	0.00	0.00	0.00
4500	8.56	171.30	4457	-572	87	490	0.00	0.00	0.00
4600	8.56	171.30	4556	-587	90	503	0.00	0.00	0.00
4700	8.56	171.30	4655	-601	92	515	0.00	0.00	0.00
4800	8.56	171.30	4754	-616	94	528	0.00	0.00	0.00
4829	8.56	171.30	4783	-620	95	531	0.00	0.00	0.00
4900	14.26	155.88	4852	-634	99	544	9.00	7.99	-21.65
5000	22.89	147.68	4947	-661	115	575	9.00	8.63	-8.20
5100	31.72	143.85	5036	-699	141	621	9.00	8.83	-3.83



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 002H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Project:	Venado Canyon Unit	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site:	E01 2206 Pad	North Reference:	True
Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5200	40.62	141.56	5117	-746	177	680	9.00	8.90	-2.29
5300	49.55	139.98	5187	-801	221	750	9.00	8.93	-1.58
5400	58.50	138.77	5246	-862	274	831	9.00	8.95	-1.21
5500	67.46	137.78	5291	-928	333	920	9.00	8.96	-0.99
5600	76.42	136.91	5322	-998	398	1015	9.00	8.96	-0.87
5700	85.38	136.10	5338	-1070	466	1114	9.00	8.96	-0.81
5754	90.20	135.67	5340	-1108	503	1167	9.00	8.97	-0.79
5800	90.20	135.67	5340	-1141	535	1213	0.00	0.00	0.00
5900	90.20	135.67	5339	-1213	605	1313	0.00	0.00	0.00
6000	90.20	135.67	5339	-1285	675	1413	0.00	0.00	0.00
6100	90.21	135.67	5339	-1356	745	1513	0.00	0.00	0.00
6200	90.21	135.67	5338	-1428	815	1613	0.00	0.00	0.00
6300	90.21	135.67	5338	-1499	885	1713	0.00	0.00	0.00
6400	90.21	135.67	5338	-1571	954	1812	0.00	0.00	0.00
6500	90.22	135.67	5337	-1642	1024	1912	0.00	0.00	0.00
6600	90.22	135.67	5337	-1714	1094	2012	0.00	0.00	0.00
6700	90.22	135.67	5337	-1785	1164	2112	0.00	0.00	0.00
6800	90.22	135.67	5336	-1857	1234	2212	0.00	0.00	0.00
6900	90.22	135.67	5336	-1928	1304	2311	0.00	0.00	0.00
7000	90.23	135.67	5335	-2000	1374	2411	0.00	0.00	0.00
7100	90.23	135.67	5335	-2071	1444	2511	0.00	0.00	0.00
7200	90.23	135.67	5335	-2143	1513	2611	0.00	0.00	0.00
7300	90.23	135.68	5334	-2215	1583	2711	0.00	0.00	0.00
7400	90.24	135.68	5334	-2286	1653	2811	0.00	0.00	0.00
7500	90.24	135.68	5333	-2358	1723	2910	0.00	0.00	0.00
7600	90.24	135.68	5333	-2429	1793	3010	0.00	0.00	0.00
7700	90.24	135.68	5333	-2501	1863	3110	0.00	0.00	0.00
7800	90.24	135.68	5332	-2572	1933	3210	0.00	0.00	0.00
7900	90.25	135.68	5332	-2644	2003	3310	0.00	0.00	0.00
8000	90.25	135.68	5331	-2715	2072	3409	0.00	0.00	0.00
8100	90.25	135.68	5331	-2787	2142	3509	0.00	0.00	0.00
8200	90.25	135.68	5330	-2858	2212	3609	0.00	0.00	0.00
8300	90.26	135.68	5330	-2930	2282	3709	0.00	0.00	0.00
8400	90.26	135.68	5329	-3001	2352	3809	0.00	0.00	0.00
8500	90.26	135.68	5329	-3073	2422	3909	0.00	0.00	0.00
8600	90.26	135.68	5329	-3145	2492	4008	0.00	0.00	0.00
8700	90.26	135.68	5328	-3216	2562	4108	0.00	0.00	0.00
8800	90.27	135.68	5328	-3288	2631	4208	0.00	0.00	0.00
8900	90.27	135.68	5327	-3359	2701	4308	0.00	0.00	0.00
9000	90.27	135.68	5327	-3431	2771	4408	0.00	0.00	0.00
9100	90.27	135.68	5326	-3502	2841	4507	0.00	0.00	0.00
9200	90.28	135.68	5326	-3574	2911	4607	0.00	0.00	0.00
9300	90.28	135.68	5325	-3645	2981	4707	0.00	0.00	0.00
9400	90.28	135.68	5325	-3717	3051	4807	0.00	0.00	0.00
9500	90.28	135.68	5324	-3788	3120	4907	0.00	0.00	0.00
9600	90.28	135.68	5324	-3860	3190	5006	0.00	0.00	0.00
9700	90.29	135.68	5323	-3931	3260	5106	0.00	0.00	0.00
9800	90.29	135.68	5323	-4003	3330	5206	0.00	0.00	0.00
9900	90.29	135.68	5322	-4075	3400	5306	0.00	0.00	0.00
10,000	90.29	135.68	5322	-4146	3470	5406	0.00	0.00	0.00
10,100	90.30	135.68	5321	-4218	3540	5506	0.00	0.00	0.00
10,200	90.30	135.68	5321	-4289	3610	5605	0.00	0.00	0.00
10,300	90.30	135.68	5320	-4361	3679	5705	0.00	0.00	0.00
10,400	90.30	135.68	5320	-4432	3749	5805	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 002H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Project:	Venado Canyon Unit	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site:	E01 2206 Pad	North Reference:	True
Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original drilling		
Design:	APD		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,500	90.30	135.68	5319	-4504	3819	5905	0.00	0.00	0.00	
10,600	90.31	135.68	5319	-4575	3889	6005	0.00	0.00	0.00	
10,700	90.31	135.68	5318	-4647	3959	6104	0.00	0.00	0.00	
10,800	90.31	135.68	5318	-4718	4029	6204	0.00	0.00	0.00	
10,900	90.31	135.68	5317	-4790	4099	6304	0.00	0.00	0.00	
11,000	90.32	135.68	5316	-4861	4169	6404	0.00	0.00	0.00	
11,100	90.32	135.68	5316	-4933	4238	6504	0.00	0.00	0.00	
11,200	90.32	135.68	5315	-5005	4308	6604	0.00	0.00	0.00	
11,300	90.32	135.68	5315	-5076	4378	6703	0.00	0.00	0.00	
11,400	90.32	135.68	5314	-5148	4448	6803	0.00	0.00	0.00	
11,437	90.33	135.68	5314	-5174	4474	6840	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
002H Toe	0.00	0.00	5314	-5174	4474	1,875,842.95	2,847,292.72	36.1546080	-107.4126120	
- plan hits target center										
- Circle (radius 100)										
002H Heel	0.00	0.00	5340	-1108	503	1,879,891.88	2,843,304.98	36.1657773	-107.4260623	
- plan hits target center										
- Circle (radius 50)										

Casing Points						
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)
	350	350	Surface		9.63	12.25
	5696	5338	Intermediate		7.00	8.75



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 002H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Project:	Venado Canyon Unit	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site:	E01 2206 Pad	North Reference:	True
Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1344	1337	Ojo Alamo		0.00	0.00	
1443	1435	Kirtland		0.00	0.00	
1647	1636	Fruitland		0.00	0.00	
1850	1837	Pictured Cliffs		0.00	0.00	
1956	1942	Lewis		0.00	0.00	
2713	2690	Chacra		0.00	0.00	
3423	3392	Menefee		0.00	0.00	
4135	4097	Point Lookout		0.00	0.00	
4279	4239	Mancos		0.00	0.00	
4639	4595	Mancos Silt		0.00	0.00	
5189	5108	Gallup A		0.00	0.00	
5232	5140	Gallup B		0.00	0.00	
5371	5230	Gallup C		0.00	0.00	



DJR Operating

Venado Canyon Unit

E01 2206 Pad

002H

Original drilling

APD

Anticollision Report

08 April, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference	APD		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/7/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	11,437	APD (Original drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
A15 2206 Pad						
# 305H - Original Drilling - APD						Out of range
# 306H - Original Drilling - APD						Out of range
E01 2206 Pad						
# 515H - Original drilling - APD	400	400	20	17	7.966	CC, ES
# 515H - Original drilling - APD	11,100	10,305	566	349	2.607	SF
H14 2206 Pad						
# 301H - Original Drilling - APD	5000	11,543	8214	8030	44.451	SF
# 301H - Original Drilling - APD	11,058	5667	8164	7987	46.085	CC
# 301H - Original Drilling - APD	11,437	5392	8166	7983	44.461	ES
# 302H - Original Drilling - APD	11,437	5700	7836	7650	42.072	CC, ES, SF
# 303H - Original Drilling - APD	6300	11,262	9404	9213	49.120	SF
# 303H - Original Drilling - APD	11,437	3297	9119	8947	52.947	CC, ES
# 304H - Original Drilling - APD	11,437	3859	8944	8769	50.864	CC, ES, SF
# 503H - Original Drilling - APD	5700	11,112	8786	8596	46.247	SF
# 503H - Original Drilling - APD	11,400	5427	8774	8588	47.114	ES
# 503H - Original Drilling - APD	11,437	5324	8774	8588	47.261	CC
J15 2206 Pad						
# 501H - Conceptual - APD						Out of range
# 502H - Conceptual - APD						Out of range
L12 2206 Pad						
203H - Original drilling - APD	10,284	4822	5579	5423	35.853	CC
203H - Original drilling - APD	10,400	4823	5580	5422	35.177	ES
203H - Original drilling - APD	11,437	4827	5697	5514	31.191	SF
204H - Original drilling - APD	9750	5141	5298	5157	37.630	CC
204H - Original drilling - APD	11,437	6923	5307	5097	25.228	ES, SF



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
O11 2206 Pad						
# 504H - Original Drilling - APD	9518	4579	6885	6749	50.697	CC
# 504H - Original Drilling - APD	9700	4614	6887	6747	48.963	ES
# 504H - Original Drilling - APD	11,437	4800	7140	6959	39.466	SF
# 505H - Original Drilling - APD	9691	4031	7150	7012	51.717	CC
# 505H - Original Drilling - APD	9900	4093	7153	7009	49.642	ES
# 505H - Original Drilling - APD	11,437	6530	7229	7011	33.100	SF
# 506H - Original Drilling - APD	11,437	7371	6591	6365	29.066	CC, ES, SF
# 507H - Original Drilling - APD	9315	3497	7344	7221	59.676	CC
# 507H - Original Drilling - APD	9500	3535	7346	7218	57.408	ES
# 507H - Original Drilling - APD	11,437	3934	7631	7456	43.656	SF
# 508H - Original Drilling - APD	11,437	6989	5998	5771	26.375	CC, ES, SF
# 509H - Original Drilling - APD	8567	5283	6286	6171	54.568	CC
# 509H - Original Drilling - APD	8800	5150	6288	6169	52.735	ES
# 509H - Original Drilling - APD	11,437	4550	6739	6567	39.224	SF

Offset Design: E01 2206 Pad - # 515H - Original drilling - APD

Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:		0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0	0	0	0	0	0	0	15.68	19	5	20						
100	100	100	100	0	0	0	15.68	19	5	20	19	0.32	61.973			
200	200	200	200	1	1	1	15.68	19	5	20	19	1.03	19.011			
300	300	300	300	1	1	1	15.68	19	5	20	18	1.75	11.227			
400	400	400	400	1	1	1	15.68	19	5	20	17	2.47	7.966	CC, ES		
500	500	500	500	2	2	2	-156.57	19	6	21	18	3.16	6.647			
600	600	601	600	2	2	2	-154.52	16	8	24	20	3.84	6.233			
700	699	701	701	2	2	2	-149.93	11	13	28	24	4.53	6.228			
800	799	801	800	3	3	3	-144.38	3	20	34	29	5.26	6.503			
828	827	829	828	3	3	3	-142.80	0	22	36	31	5.48	6.614			
900	898	901	899	3	3	3	-138.19	-7	29	41	35	6.04	6.857			
1000	996	1001	998	3	3	3	-129.97	-20	41	48	42	6.88	7.052			
1100	1095	1100	1095	4	4	4	-120.43	-36	54	56	49	7.77	7.248			
1200	1194	1199	1191	4	4	4	-110.54	-53	70	66	57	8.70	7.580			
1300	1293	1298	1286	5	5	5	-102.64	-72	87	77	68	9.64	8.034			
1400	1392	1397	1382	5	6	6	-96.83	-90	103	90	79	10.55	8.520			
1500	1491	1496	1478	6	6	6	-92.47	-109	120	103	92	11.47	8.994			
1600	1590	1595	1574	6	7	7	-89.10	-127	136	117	104	12.37	9.438			
1700	1689	1693	1669	7	7	7	-86.45	-145	153	131	117	13.28	9.847			
1800	1788	1792	1765	7	8	8	-84.31	-164	169	145	131	14.18	10.221			
1900	1886	1891	1861	7	8	8	-82.55	-182	186	159	144	15.08	10.561			
2000	1985	1990	1956	8	9	9	-81.09	-201	203	174	158	15.99	10.871			
2100	2084	2089	2052	8	9	9	-79.85	-219	219	188	171	16.89	11.153			
2200	2183	2188	2148	9	10	10	-78.79	-237	236	203	185	17.79	11.410			
2300	2282	2287	2244	9	11	11	-77.87	-256	252	218	199	18.69	11.646			
2400	2381	2385	2339	10	11	11	-77.06	-274	269	232	213	19.60	11.862			
2500	2480	2484	2435	10	12	12	-76.36	-293	285	247	227	20.50	12.061			
2600	2579	2583	2531	11	12	12	-75.73	-311	302	262	241	21.40	12.244			
2700	2678	2682	2626	11	13	13	-75.17	-330	318	277	255	22.31	12.413			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: E01 2206 Pad - # 515H - Original drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
2800	2776	2781	2722	12	14	-74.67	-348	335	292	269	23.21	12.571	
2900	2875	2880	2818	12	14	-74.21	-366	351	307	283	24.12	12.717	
3000	2974	2979	2914	12	15	-73.80	-385	368	322	297	25.02	12.853	
3100	3073	3077	3009	13	15	-73.43	-403	384	337	311	25.93	12.980	
3200	3172	3176	3105	13	16	-73.08	-422	401	351	325	26.83	13.098	
3300	3271	3275	3201	14	17	-72.77	-440	417	366	339	27.74	13.210	
3400	3370	3374	3296	14	17	-72.48	-458	434	381	353	28.64	13.314	
3500	3469	3473	3392	15	18	-72.21	-477	450	396	367	29.55	13.412	
3600	3568	3572	3488	15	18	-71.96	-495	467	411	381	30.46	13.505	
3700	3666	3671	3584	16	19	-71.73	-514	483	426	395	31.36	13.593	
3800	3765	3769	3679	16	20	-71.51	-532	500	441	409	32.27	13.675	
3900	3864	3868	3775	17	20	-71.31	-550	516	456	423	33.18	13.754	
4000	3963	3967	3871	17	21	-71.12	-569	533	471	437	34.08	13.828	
4100	4062	4066	3966	18	21	-70.94	-587	550	486	451	34.99	13.898	
4200	4161	4165	4062	18	22	-70.78	-606	566	501	465	35.90	13.965	
4300	4260	4264	4158	18	23	-70.62	-624	583	516	480	36.81	14.029	
4400	4359	4363	4254	19	23	-70.47	-642	599	531	494	37.71	14.090	
4500	4457	4461	4349	19	24	-70.33	-661	616	546	508	38.62	14.148	
4600	4556	4560	4445	20	24	-70.20	-679	632	561	522	39.52	14.204	
4700	4655	4617	4499	20	25	-69.98	-691	643	580	540	39.91	14.536	
4800	4754	4671	4549	21	25	-69.51	-706	657	606	566	40.08	15.115	
4829	4783	4686	4563	21	25	-69.34	-711	662	614	574	40.09	15.327	
4850	4804	4700	4575	21	25	-62.58	-716	666	621	581	40.14	15.470	
4900	4852	4724	4596	21	26	-52.77	-724	673	635	595	40.10	15.837	
4950	4900	4750	4619	22	26	-47.14	-733	682	648	608	40.12	16.145	
5000	4947	4776	4640	22	26	-43.51	-744	692	659	619	40.14	16.413	
5050	4992	4800	4660	22	26	-41.00	-754	702	668	628	40.12	16.658	
5100	5036	4828	4683	23	27	-39.17	-766	713	676	636	40.21	16.815	
5150	5077	4850	4700	23	27	-37.84	-776	723	682	642	40.14	16.997	
5200	5117	4880	4722	23	27	-36.88	-791	737	687	646	40.33	17.029	
5250	5153	4900	4736	24	28	-36.17	-801	746	690	649	40.23	17.143	
5300	5187	4932	4758	25	28	-35.76	-818	763	691	650	40.54	17.037	
5350	5218	4950	4770	25	28	-35.47	-827	772	690	650	40.41	17.077	
5400	5246	4984	4792	26	29	-35.48	-847	790	688	647	40.89	16.819	
5450	5270	5000	4801	26	29	-35.52	-856	799	684	643	40.77	16.776	
5500	5291	5037	4822	27	30	-35.93	-877	820	678	637	41.46	16.356	
5550	5308	5063	4835	28	30	-36.40	-894	835	671	629	41.86	16.029	
5600	5322	5100	4853	29	31	-37.20	-917	858	662	620	42.76	15.489	
5650	5332	5115	4860	29	31	-37.88	-927	867	652	609	42.94	15.179	
5700	5338	5150	4874	30	32	-39.05	-950	890	640	596	43.98	14.552	
5754	5340	5170	4881	31	32	-40.20	-963	902	626	581	44.56	14.037	
5800	5340	5200	4891	32	33	-40.83	-984	922	613	568	45.66	13.430	
5900	5339	5250	4905	34	33	-41.69	-1018	956	592	544	47.42	12.477	
6000	5339	5300	4914	36	34	-42.33	-1053	990	577	528	49.07	11.762	
6100	5339	5367	4921	38	36	-42.81	-1101	1037	570	518	51.16	11.131	
6200	5338	5448	4922	40	37	-42.89	-1159	1093	568	515	53.44	10.629	
6300	5338	5548	4923	42	39	-42.94	-1231	1163	567	511	56.43	10.055	
6400	5338	5648	4923	44	42	-42.98	-1302	1232	567	507	59.48	9.528	
6500	5337	5748	4923	46	44	-43.02	-1374	1302	566	504	62.60	9.043	
6600	5337	5847	4924	48	46	-43.06	-1445	1372	566	500	65.77	8.599	
6700	5337	5947	4924	50	48	-43.10	-1517	1441	565	496	68.99	8.190	
6800	5336	6047	4924	53	50	-43.13	-1588	1511	564	492	72.24	7.813	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: E01 2206 Pad - # 515H - Original drilling - APD													Offset Site Error:	0 ft	
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:	0 ft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
6900	5336	6147	4924	55	53	-43.16	-1660	1581	564	488	75.53	7.466			
7000	5335	6247	4925	57	55	-43.19	-1731	1650	563	485	78.85	7.146			
7100	5335	6347	4925	59	57	-43.22	-1803	1720	563	481	82.20	6.850			
7200	5335	6446	4925	62	59	-43.24	-1874	1790	563	477	85.56	6.575			
7300	5334	6546	4925	64	62	-43.27	-1946	1859	562	473	88.95	6.320			
7400	5334	6646	4925	66	64	-43.29	-2017	1929	562	469	92.35	6.083			
7500	5333	6746	4925	69	66	-43.30	-2089	1999	561	466	95.77	5.863			
7600	5333	6846	4925	71	69	-43.32	-2160	2068	561	462	99.20	5.657			
7700	5333	6946	4925	73	71	-43.33	-2232	2138	561	458	102.64	5.464			
7800	5332	7045	4924	76	73	-43.34	-2303	2208	561	454	106.09	5.284			
7900	5332	7145	4924	78	76	-43.35	-2375	2277	560	451	109.54	5.115			
8000	5331	7245	4924	81	78	-43.36	-2446	2347	560	447	113.01	4.956			
8100	5331	7345	4924	83	81	-43.36	-2518	2417	560	443	116.48	4.806			
8200	5330	7445	4923	85	83	-43.36	-2589	2486	560	440	119.95	4.666			
8300	5330	7545	4923	88	85	-43.36	-2661	2556	559	436	123.43	4.533			
8400	5329	7645	4923	90	88	-43.36	-2732	2626	559	432	126.90	4.408			
8500	5329	7744	4922	93	90	-43.35	-2804	2696	559	429	130.38	4.289			
8600	5329	7844	4922	95	93	-43.35	-2875	2765	559	425	133.86	4.177			
8700	5328	7944	4921	97	95	-43.34	-2947	2835	559	422	137.34	4.071			
8800	5328	8044	4921	100	97	-43.32	-3018	2905	559	418	140.82	3.970			
8896	5327	8140	4920	102	100	-43.31	-3087	2972	559	415	144.16	3.878			
8900	5327	8144	4920	102	100	-43.31	-3090	2974	559	415	144.29	3.874			
9000	5327	8244	4920	105	102	-43.29	-3161	3044	559	411	147.76	3.784			
9100	5326	8343	4919	107	105	-43.27	-3233	3114	559	408	151.23	3.697			
9200	5326	8443	4918	110	107	-43.25	-3304	3183	559	404	154.69	3.615			
9300	5325	8543	4918	112	110	-43.22	-3376	3253	559	401	158.15	3.536			
9400	5325	8643	4917	114	112	-43.20	-3447	3323	559	398	161.61	3.461			
9500	5324	8743	4916	117	114	-43.17	-3519	3392	559	394	165.05	3.390			
9600	5324	8843	4915	119	117	-43.14	-3590	3462	560	391	168.49	3.322			
9700	5323	8943	4915	122	119	-43.10	-3662	3532	560	388	171.93	3.256			
9800	5323	9042	4914	124	122	-43.07	-3733	3601	560	385	175.35	3.194			
9900	5322	9142	4913	127	124	-43.03	-3805	3671	560	382	178.77	3.134			
10,000	5322	9242	4912	129	127	-42.99	-3876	3741	561	378	182.18	3.077			
10,100	5321	9342	4911	132	129	-42.94	-3948	3810	561	375	185.58	3.022			
10,200	5321	9442	4910	134	132	-42.90	-4019	3880	561	372	188.97	2.970			
10,300	5320	9542	4909	137	134	-42.85	-4091	3950	561	369	192.35	2.919			
10,400	5320	9641	4907	139	136	-42.80	-4162	4019	562	366	195.72	2.871			
10,500	5319	9741	4906	141	139	-42.75	-4234	4089	562	363	199.08	2.824			
10,600	5319	9841	4905	144	141	-42.69	-4305	4159	563	360	202.43	2.780			
10,700	5318	9941	4904	146	144	-42.63	-4377	4228	563	357	205.77	2.737			
10,800	5318	10,041	4903	149	146	-42.57	-4448	4298	564	354	209.09	2.695			
10,900	5317	10,141	4901	151	149	-42.51	-4520	4368	564	352	212.40	2.656			
11,000	5316	10,241	4900	154	151	-42.45	-4591	4437	565	349	215.70	2.617			
11,100	5316	10,305	4899	156	153	-42.41	-4637	4482	566	349	217.18	2.607 SF			
11,200	5315	10,305	4899	159	153	-42.41	-4637	4482	582	370	211.26	2.754			
11,300	5315	10,305	4899	161	153	-42.41	-4637	4482	613	413	200.48	3.059			
11,400	5314	10,305	4899	164	153	-42.41	-4637	4482	659	472	186.98	3.523			
11,437	5314	10,305	4899	164	153	-42.41	-4637	4482	678	497	181.74	3.733			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 301H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:										Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
200	200	11,576	5416	1	165	-137.92	-6388	-5769	9960	9814	145.98	68.232	
300	300	11,576	5416	1	165	-137.92	-6388	-5769	9910	9764	146.75	67.531	
400	400	11,576	5416	1	165	-137.92	-6388	-5769	9861	9714	147.58	66.820	
500	500	11,576	5416	2	165	51.67	-6388	-5769	9812	9663	148.44	66.099	
600	600	11,576	5416	2	165	52.59	-6388	-5769	9761	9612	149.32	65.371	
700	699	11,576	5416	2	165	53.55	-6388	-5769	9710	9560	150.21	64.640	
800	799	11,576	5416	3	165	54.55	-6388	-5769	9657	9506	151.11	63.907	
828	827	11,576	5416	3	165	54.84	-6388	-5769	9642	9491	151.38	63.698	
900	898	11,576	5416	3	165	54.84	-6388	-5769	9604	9452	152.02	63.176	
1000	996	11,576	5416	3	165	54.84	-6388	-5769	9552	9399	152.93	62.457	
1100	1095	11,576	5416	4	165	54.84	-6388	-5769	9500	9346	153.86	61.747	
1200	1194	11,576	5416	4	165	54.84	-6388	-5769	9449	9294	154.79	61.047	
1300	1293	11,576	5416	5	165	54.84	-6388	-5769	9399	9243	155.72	60.358	
1400	1392	11,576	5416	5	165	54.84	-6388	-5769	9350	9193	156.66	59.681	
1500	1491	11,576	5416	6	165	54.84	-6388	-5769	9301	9144	157.61	59.017	
1600	1590	11,576	5416	6	165	54.84	-6388	-5769	9254	9095	158.55	58.365	
1700	1689	11,576	5416	7	165	54.84	-6388	-5769	9207	9047	159.49	57.726	
1800	1788	11,576	5416	7	165	54.84	-6388	-5769	9161	9000	160.43	57.101	
1900	1886	11,576	5416	7	165	54.84	-6388	-5769	9116	8954	161.37	56.489	
2000	1985	11,576	5416	8	165	54.84	-6388	-5769	9072	8909	162.31	55.891	
2100	2084	11,576	5416	8	165	54.84	-6388	-5769	9028	8865	163.24	55.306	
2200	2183	11,576	5416	9	165	54.84	-6388	-5769	8986	8822	164.17	54.735	
2300	2282	11,576	5416	9	165	54.84	-6388	-5769	8944	8779	165.09	54.177	
2400	2381	11,576	5416	10	165	54.84	-6388	-5769	8904	8738	166.01	53.634	
2500	2480	11,576	5416	10	165	54.84	-6388	-5769	8864	8697	166.92	53.104	
2600	2579	11,576	5416	11	165	54.84	-6388	-5769	8825	8658	167.82	52.588	
2700	2678	11,576	5416	11	165	54.84	-6388	-5769	8788	8619	168.72	52.086	
2800	2776	11,576	5416	12	165	54.84	-6388	-5769	8751	8581	169.60	51.597	
2900	2875	11,576	5416	12	165	54.84	-6388	-5769	8715	8545	170.48	51.123	
3000	2974	11,576	5416	12	165	54.84	-6388	-5769	8681	8509	171.34	50.662	
3100	3073	11,576	5416	13	165	54.84	-6388	-5769	8647	8475	172.20	50.215	
3200	3172	11,576	5416	13	165	54.84	-6388	-5769	8614	8441	173.04	49.782	
3300	3271	11,576	5416	14	165	54.84	-6388	-5769	8582	8409	173.87	49.362	
3400	3370	11,576	5416	14	165	54.84	-6388	-5769	8552	8377	174.68	48.956	
3500	3469	11,576	5416	15	165	54.84	-6388	-5769	8522	8347	175.49	48.564	
3600	3568	11,576	5416	15	165	54.84	-6388	-5769	8494	8318	176.28	48.185	
3700	3666	11,576	5416	16	165	54.84	-6388	-5769	8467	8289	177.05	47.820	
3800	3765	11,576	5416	16	165	54.84	-6388	-5769	8440	8262	177.81	47.469	
3900	3864	11,576	5416	17	165	54.84	-6388	-5769	8415	8237	178.55	47.131	
4000	3963	11,576	5416	17	165	54.84	-6388	-5769	8391	8212	179.27	46.807	
4100	4062	11,576	5416	18	165	54.84	-6388	-5769	8368	8188	179.97	46.496	
4200	4161	11,576	5416	18	165	54.84	-6388	-5769	8346	8166	180.66	46.198	
4300	4260	11,576	5416	18	165	54.84	-6388	-5769	8326	8144	181.33	45.914	
4400	4359	11,576	5416	19	165	54.84	-6388	-5769	8306	8124	181.98	45.644	
4500	4457	11,576	5416	19	165	54.84	-6388	-5769	8288	8105	182.61	45.386	
4600	4556	11,576	5416	20	165	54.84	-6388	-5769	8271	8087	183.21	45.142	
4700	4655	11,576	5416	20	165	54.84	-6388	-5769	8255	8071	183.80	44.911	
4800	4754	11,576	5416	21	165	54.84	-6388	-5769	8240	8055	184.36	44.693	
4829	4783	11,576	5416	21	165	54.84	-6388	-5769	8236	8051	184.52	44.633	
4850	4804	11,576	5416	21	165	61.38	-6388	-5769	8233	8048	184.64	44.589	
4900	4852	11,574	5416	21	165	70.83	-6389	-5767	8226	8041	184.89	44.493	
4950	4900	11,560	5416	22	165	76.13	-6399	-5758	8220	8035	184.88	44.463	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 301H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
5000	4947	11,543	5416	22	164	79.51	-6411	-5746	8214	8030	184.79	44.451 SF
5050	4992	11,523	5416	22	164	81.86	-6426	-5732	8209	8024	184.65	44.458
5100	5036	11,498	5416	23	163	83.58	-6443	-5715	8204	8020	184.44	44.482
5150	5077	11,471	5416	23	162	84.87	-6463	-5695	8200	8015	184.18	44.520
5200	5117	11,440	5416	23	162	85.87	-6484	-5674	8195	8012	183.87	44.573
5250	5153	11,406	5415	24	161	86.65	-6509	-5650	8192	8008	183.52	44.638
5300	5187	11,370	5415	25	160	87.26	-6535	-5625	8189	8005	183.13	44.714
5350	5218	11,331	5415	25	159	87.74	-6563	-5597	8186	8003	182.72	44.799
5400	5246	11,289	5415	26	158	88.12	-6592	-5568	8183	8001	182.30	44.890
5450	5270	11,246	5415	26	157	88.41	-6623	-5538	8181	7999	181.86	44.987
5500	5291	11,201	5415	27	155	88.63	-6655	-5506	8179	7998	181.42	45.086
5550	5308	11,154	5415	28	154	88.80	-6689	-5473	8178	7997	180.98	45.188
5600	5322	11,106	5415	29	153	88.93	-6723	-5440	8177	7996	180.54	45.290
5650	5332	11,057	5414	29	152	89.02	-6758	-5405	8176	7996	180.12	45.392
5700	5338	11,007	5414	30	151	89.07	-6794	-5371	8175	7996	179.71	45.493
5754	5340	10,953	5414	31	149	89.10	-6832	-5333	8175	7996	179.28	45.599
5800	5340	10,907	5414	32	148	89.10	-6865	-5301	8175	7996	178.93	45.687
5900	5339	10,807	5414	34	145	89.10	-6936	-5231	8175	7997	178.25	45.861
6000	5339	10,707	5413	36	143	89.10	-7008	-5161	8175	7997	177.64	46.017
6100	5339	10,607	5413	38	140	89.10	-7079	-5091	8174	7997	177.10	46.156
6200	5338	10,507	5413	40	138	89.10	-7150	-5021	8174	7998	176.62	46.282
6300	5338	10,407	5412	42	135	89.10	-7222	-4951	8174	7998	176.18	46.396
6400	5338	10,307	5412	44	133	89.10	-7293	-4881	8174	7998	175.78	46.500
6500	5337	10,207	5412	46	130	89.10	-7365	-4811	8174	7998	175.41	46.596
6600	5337	10,107	5411	48	127	89.10	-7436	-4740	8173	7998	175.08	46.684
6700	5337	10,007	5411	50	125	89.10	-7507	-4670	8173	7998	174.77	46.765
6800	5336	9907	5411	53	122	89.10	-7579	-4600	8173	7998	174.49	46.840
6900	5336	9807	5411	55	120	89.10	-7650	-4530	8173	7999	174.22	46.910
7000	5335	9707	5410	57	117	89.10	-7722	-4460	8173	7999	173.98	46.975
7100	5335	9607	5410	59	115	89.10	-7793	-4390	8172	7999	173.75	47.036
7200	5335	9507	5410	62	112	89.10	-7864	-4320	8172	7999	173.53	47.093
7300	5334	9407	5409	64	110	89.10	-7936	-4250	8172	7999	173.33	47.146
7400	5334	9307	5409	66	107	89.10	-8007	-4180	8172	7999	173.14	47.196
7500	5333	9207	5409	69	105	89.11	-8079	-4110	8171	7999	172.96	47.244
7600	5333	9107	5408	71	102	89.11	-8150	-4040	8171	7998	172.80	47.288
7700	5333	9007	5408	73	99	89.11	-8221	-3970	8171	7998	172.64	47.330
7800	5332	8907	5408	76	97	89.11	-8293	-3900	8171	7998	172.49	47.370
7900	5332	8807	5407	78	94	89.11	-8364	-3830	8171	7998	172.35	47.406
8000	5331	8707	5407	81	92	89.11	-8435	-3760	8170	7998	172.22	47.441
8100	5331	8607	5407	83	89	89.11	-8507	-3690	8170	7998	172.10	47.474
8200	5330	8507	5407	85	87	89.11	-8578	-3620	8170	7998	171.99	47.504
8300	5330	8407	5406	88	84	89.11	-8650	-3550	8170	7998	171.88	47.532
8400	5329	8307	5406	90	82	89.11	-8721	-3480	8170	7998	171.78	47.558
8500	5329	8207	5406	93	79	89.11	-8792	-3410	8169	7998	171.69	47.581
8600	5329	8107	5405	95	77	89.11	-8864	-3340	8169	7998	171.61	47.603
8700	5328	8007	5405	97	74	89.12	-8935	-3270	8169	7997	171.54	47.621
8800	5328	7907	5405	100	72	89.12	-9007	-3200	8169	7997	171.47	47.638
8900	5327	7807	5404	102	69	89.12	-9078	-3130	8168	7997	171.42	47.652
9000	5327	7707	5404	105	67	89.12	-9149	-3060	8168	7997	171.37	47.663
9100	5326	7607	5404	107	64	89.12	-9221	-2990	8168	7997	171.34	47.672
9200	5326	7507	5403	110	62	89.12	-9292	-2920	8168	7997	171.32	47.677
9300	5325	7407	5403	112	59	89.12	-9364	-2850	8168	7996	171.31	47.679



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 301H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
9400	5325	7307	5403	114	57	89.12	-9435	-2780	8167	7996	171.31	47.677		
9500	5324	7207	5402	117	55	89.13	-9506	-2710	8167	7996	171.33	47.671		
9600	5324	7107	5402	119	52	89.13	-9578	-2640	8167	7996	171.36	47.660		
9700	5323	7007	5402	122	50	89.13	-9649	-2570	8167	7995	171.41	47.644		
9800	5323	6907	5402	124	47	89.13	-9721	-2500	8167	7995	171.49	47.623		
9900	5322	6807	5401	127	45	89.13	-9792	-2430	8166	7995	171.58	47.594		
10,000	5322	6707	5401	129	43	89.13	-9863	-2360	8166	7994	171.71	47.558		
10,100	5321	6607	5401	132	40	89.13	-9935	-2290	8166	7994	171.87	47.513		
10,200	5321	6507	5400	134	38	89.13	-10,006	-2220	8166	7994	172.06	47.458		
10,300	5320	6407	5400	137	36	89.14	-10,077	-2150	8165	7993	172.30	47.391		
10,400	5320	6307	5400	139	34	89.14	-10,149	-2080	8165	7993	172.59	47.309		
10,500	5319	6207	5399	141	32	89.14	-10,220	-2010	8165	7992	172.95	47.210		
10,600	5319	6107	5399	144	30	89.14	-10,292	-1940	8165	7991	173.39	47.091		
10,700	5318	6007	5399	146	28	89.14	-10,363	-1870	8165	7991	173.91	46.947		
10,800	5318	5907	5398	149	26	89.14	-10,434	-1800	8164	7990	174.55	46.773		
10,900	5317	5807	5398	151	24	89.15	-10,506	-1730	8164	7989	175.34	46.563		
11,000	5316	5715	5396	154	23	89.14	-10,571	-1665	8164	7988	176.40	46.281		
11,058	5316	5667	5391	155	22	89.10	-10,606	-1632	8164	7987	177.15	46.085 CC		
11,100	5316	5632	5385	156	22	89.06	-10,630	-1608	8164	7986	177.74	45.933		
11,200	5315	5550	5363	159	21	88.91	-10,687	-1552	8164	7985	179.23	45.552		
11,300	5315	5480	5337	161	20	88.73	-10,733	-1507	8165	7984	181.01	45.107		
11,400	5314	5414	5306	164	19	88.51	-10,774	-1466	8166	7983	182.93	44.639		
11,437	5314	5392	5294	164	19	88.43	-10,788	-1453	8166	7983	183.67	44.461 ES		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 302H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4300	4260	4800	4766	18	18	17.55	-10,425	-1410	9999	9966	33.21	301.096	
4400	4359	4827	4792	19	19	17.55	-10,424	-1408	9982	9948	33.68	296.402	
4500	4457	4850	4815	19	19	17.54	-10,424	-1406	9966	9932	34.14	291.958	
4600	4556	4850	4815	20	19	17.54	-10,424	-1406	9951	9916	34.52	288.271	
4700	4655	4850	4815	20	19	17.54	-10,424	-1406	9937	9902	34.90	284.709	
4800	4754	4850	4815	21	19	17.54	-10,424	-1406	9923	9888	35.28	281.268	
4829	4783	4850	4815	21	19	17.54	-10,424	-1406	9920	9884	35.39	280.300	
4850	4804	4850	4815	21	19	24.02	-10,424	-1406	9917	9881	35.47	279.573	
4900	4852	4874	4840	21	19	33.49	-10,425	-1403	9908	9873	35.75	277.183	
4950	4900	4900	4865	22	19	39.10	-10,427	-1400	9898	9862	36.04	274.650	
5000	4947	4900	4865	22	19	43.02	-10,427	-1400	9886	9850	36.27	272.560	
5050	4992	4900	4865	22	19	46.13	-10,427	-1400	9872	9835	36.52	270.345	
5100	5036	4900	4865	23	19	48.84	-10,427	-1400	9856	9819	36.77	268.005	
5150	5077	4900	4865	23	19	51.35	-10,427	-1400	9838	9801	37.05	265.537	
5200	5117	4900	4865	23	19	53.80	-10,427	-1400	9819	9781	37.34	262.933	
5250	5153	4900	4865	24	19	56.26	-10,427	-1400	9798	9760	37.66	260.186	
5300	5187	4900	4865	25	19	58.77	-10,427	-1400	9775	9737	37.99	257.285	
5350	5218	4900	4865	25	19	61.36	-10,427	-1400	9752	9714	38.36	254.225	
5400	5246	4900	4865	26	19	64.05	-10,427	-1400	9727	9689	38.75	251.000	
5450	5270	4900	4865	26	19	66.84	-10,427	-1400	9702	9663	39.18	247.609	
5500	5291	4923	4888	27	19	69.85	-10,428	-1396	9675	9635	39.71	243.668	
5550	5308	4926	4890	28	19	72.85	-10,429	-1395	9648	9608	40.21	239.934	
5600	5322	4950	4914	29	19	76.05	-10,431	-1390	9621	9580	40.81	235.747	
5650	5332	4950	4914	29	19	79.15	-10,431	-1390	9593	9551	41.38	231.827	
5700	5338	4950	4914	30	19	82.26	-10,431	-1390	9564	9522	41.98	227.827	
5754	5340	4950	4914	31	19	85.56	-10,431	-1390	9534	9492	42.66	223.473	
5800	5340	4950	4914	32	19	85.56	-10,431	-1390	9508	9465	43.28	219.689	
5900	5339	4950	4914	34	19	85.56	-10,431	-1390	9453	9408	44.71	211.407	
6000	5339	4950	4914	36	19	85.57	-10,431	-1390	9398	9352	46.27	203.122	
6100	5339	4950	4914	38	19	85.57	-10,431	-1390	9344	9296	47.93	194.952	
6200	5338	4950	4914	40	19	85.57	-10,431	-1390	9291	9241	49.69	186.982	
6300	5338	4950	4914	42	19	85.57	-10,431	-1390	9239	9187	51.54	179.272	
6400	5338	4950	4914	44	19	85.57	-10,431	-1390	9187	9134	53.46	171.861	
6500	5337	4950	4914	46	19	85.57	-10,431	-1390	9136	9081	55.45	164.771	
6600	5337	4950	4914	48	19	85.57	-10,431	-1390	9086	9029	57.50	158.012	
6700	5337	4950	4914	50	19	85.58	-10,431	-1390	9037	8978	59.62	151.587	
6800	5336	4950	4914	53	19	85.58	-10,431	-1390	8989	8927	61.78	145.491	
6900	5336	4950	4914	55	19	85.58	-10,431	-1390	8942	8878	64.00	139.714	
7000	5335	4950	4914	57	19	85.58	-10,431	-1390	8895	8829	66.26	134.245	
7100	5335	4950	4914	59	19	85.58	-10,431	-1390	8849	8781	68.56	129.070	
7200	5335	4975	4938	62	19	85.76	-10,435	-1385	8804	8733	70.95	124.086	
7300	5334	5000	4962	64	19	85.93	-10,439	-1378	8761	8687	73.38	119.390	
7400	5334	5000	4962	66	19	85.93	-10,439	-1378	8717	8642	75.79	115.022	
7500	5333	5000	4962	69	19	85.93	-10,439	-1378	8675	8597	78.23	110.889	
7600	5333	5000	4962	71	19	85.93	-10,439	-1378	8634	8553	80.71	106.978	
7700	5333	5000	4962	73	19	85.93	-10,439	-1378	8594	8511	83.21	103.276	
7800	5332	5000	4962	76	19	85.93	-10,439	-1378	8555	8469	85.74	99.771	
7900	5332	5000	4962	78	19	85.93	-10,439	-1378	8516	8428	88.30	96.450	
8000	5331	5000	4962	81	19	85.94	-10,439	-1378	8479	8388	90.88	93.303	
8100	5331	5000	4962	83	19	85.94	-10,439	-1378	8443	8349	93.48	90.319	
8200	5330	5022	4983	85	19	86.09	-10,443	-1372	8407	8311	96.13	87.457	
8300	5330	5029	4989	88	19	86.13	-10,445	-1370	8373	8274	98.78	84.764	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 302H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8400	5329	5050	5008	90	19	86.28	-10,449	-1364	8340	8238	101.47	82.193	
8500	5329	5050	5008	93	19	86.28	-10,449	-1364	8308	8204	104.14	79.773	
8600	5329	5050	5008	95	19	86.28	-10,449	-1364	8276	8170	106.83	77.473	
8700	5328	5050	5008	97	19	86.28	-10,449	-1364	8246	8137	109.53	75.287	
8800	5328	5050	5008	100	19	86.28	-10,449	-1364	8217	8105	112.25	73.209	
8900	5327	5073	5030	102	19	86.43	-10,455	-1356	8189	8074	115.00	71.214	
9000	5327	5100	5054	105	19	86.61	-10,462	-1347	8163	8045	117.76	69.316	
9100	5326	5100	5054	107	19	86.61	-10,462	-1347	8137	8016	120.50	67.524	
9200	5326	5100	5054	110	19	86.61	-10,462	-1347	8112	7989	123.25	65.818	
9300	5325	5100	5054	112	19	86.61	-10,462	-1347	8089	7963	126.00	64.193	
9400	5325	5125	5075	114	19	86.77	-10,470	-1337	8066	7937	128.79	62.632	
9500	5324	5150	5097	117	19	86.93	-10,478	-1327	8045	7913	131.57	61.146	
9600	5324	5150	5097	119	19	86.93	-10,478	-1327	8025	7890	134.33	59.738	
9700	5323	5150	5097	122	19	86.93	-10,478	-1327	8005	7868	137.09	58.396	
9800	5323	5180	5122	124	19	87.11	-10,489	-1314	7987	7847	139.88	57.103	
9900	5322	5200	5138	127	19	87.23	-10,496	-1306	7970	7828	142.65	55.875	
10,000	5322	5200	5138	129	19	87.23	-10,496	-1306	7955	7809	145.40	54.709	
10,100	5321	5250	5177	132	19	87.51	-10,516	-1282	7940	7792	148.20	53.576	
10,200	5321	5250	5177	134	19	87.51	-10,516	-1282	7926	7775	150.94	52.512	
10,300	5320	5278	5198	137	19	87.66	-10,529	-1268	7913	7760	153.71	51.483	
10,400	5320	5300	5214	139	20	87.78	-10,539	-1256	7902	7745	156.47	50.502	
10,500	5319	5329	5234	141	20	87.93	-10,553	-1240	7891	7732	159.24	49.557	
10,600	5319	5350	5247	144	20	88.03	-10,563	-1229	7882	7720	161.98	48.658	
10,700	5318	5400	5278	146	20	88.25	-10,590	-1199	7873	7708	164.81	47.771	
10,800	5318	5423	5291	149	20	88.34	-10,603	-1185	7865	7698	167.57	46.938	
10,900	5317	5450	5305	151	20	88.45	-10,618	-1169	7859	7688	170.34	46.135	
11,000	5316	5500	5330	154	20	88.63	-10,648	-1137	7853	7680	173.23	45.330	
11,100	5316	5550	5350	156	21	88.78	-10,679	-1104	7848	7672	176.17	44.545	
11,200	5315	5583	5362	159	21	88.87	-10,701	-1081	7843	7664	179.04	43.808	
11,300	5315	5629	5375	161	21	88.97	-10,731	-1050	7840	7658	182.02	43.070	
11,400	5314	5677	5386	164	22	89.05	-10,764	-1016	7837	7652	185.07	42.346	
11,437	5314	5700	5390	164	22	89.08	-10,780	-1000	7836	7650	186.25	42.072 CC, ES, SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 303H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM											Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
3000	2974	11,286	5398	12	151	47.50	-8111	-5801	9971	9814	157.73	63.219
3100	3073	11,286	5398	13	151	47.50	-8111	-5801	9940	9781	158.48	62.720
3200	3172	11,286	5398	13	151	47.50	-8111	-5801	9909	9750	159.22	62.235
3300	3271	11,286	5398	14	151	47.50	-8111	-5801	9879	9719	159.95	61.763
3400	3370	11,286	5398	14	151	47.50	-8111	-5801	9850	9689	160.67	61.305
3500	3469	11,286	5398	15	151	47.50	-8111	-5801	9822	9661	161.39	60.860
3600	3568	11,286	5398	15	151	47.50	-8111	-5801	9795	9633	162.09	60.428
3700	3666	11,286	5398	16	151	47.50	-8111	-5801	9769	9606	162.79	60.010
3800	3765	11,286	5398	16	151	47.50	-8111	-5801	9744	9580	163.47	59.605
3900	3864	11,286	5398	17	151	47.50	-8111	-5801	9719	9555	164.14	59.213
4000	3963	11,286	5398	17	151	47.50	-8111	-5801	9696	9531	164.80	58.834
4100	4062	11,286	5398	18	151	47.50	-8111	-5801	9674	9508	165.45	58.469
4200	4161	11,286	5398	18	151	47.50	-8111	-5801	9653	9487	166.09	58.117
4300	4260	11,286	5398	18	151	47.50	-8111	-5801	9632	9466	166.72	57.777
4400	4359	11,286	5398	19	151	47.50	-8111	-5801	9613	9446	167.33	57.451
4500	4457	11,286	5398	19	151	47.50	-8111	-5801	9595	9427	167.93	57.137
4600	4556	11,286	5398	20	151	47.50	-8111	-5801	9577	9409	168.51	56.836
4700	4655	11,286	5398	20	151	47.50	-8111	-5801	9561	9392	169.08	56.548
4800	4754	11,286	5398	21	151	47.50	-8111	-5801	9546	9376	169.64	56.273
4829	4783	11,286	5398	21	151	47.50	-8111	-5801	9542	9372	169.79	56.196
4850	4804	11,286	5398	21	151	54.05	-8111	-5801	9539	9369	169.91	56.139
4900	4852	11,286	5398	21	151	63.58	-8111	-5801	9531	9361	170.22	55.995
4950	4900	11,286	5398	22	151	69.09	-8111	-5801	9524	9353	170.55	55.840
5000	4947	11,286	5398	22	151	72.75	-8111	-5801	9516	9345	170.92	55.675
5050	4992	11,286	5398	22	151	75.44	-8111	-5801	9509	9337	171.33	55.500
5100	5036	11,286	5398	23	151	77.55	-8111	-5801	9501	9329	171.76	55.315
5150	5077	11,286	5398	23	151	79.28	-8111	-5801	9494	9321	172.23	55.120
5200	5117	11,286	5398	23	151	80.76	-8111	-5801	9486	9313	172.74	54.915
5250	5153	11,286	5398	24	151	82.04	-8111	-5801	9479	9306	173.29	54.699
5300	5187	11,286	5398	25	151	83.18	-8111	-5801	9472	9298	173.88	54.474
5350	5218	11,286	5398	25	151	84.20	-8111	-5801	9465	9290	174.51	54.238
5400	5246	11,286	5398	26	151	85.11	-8111	-5801	9458	9283	175.18	53.992
5450	5270	11,286	5398	26	151	85.92	-8111	-5801	9452	9276	175.90	53.737
5500	5291	11,286	5398	27	151	86.65	-8111	-5801	9446	9270	176.66	53.473
5550	5308	11,286	5398	28	151	87.30	-8111	-5801	9441	9263	177.45	53.202
5600	5322	11,286	5398	29	151	87.87	-8111	-5801	9436	9258	178.29	52.924
5650	5332	11,286	5398	29	151	88.36	-8111	-5801	9431	9252	179.16	52.642
5700	5338	11,286	5398	30	151	88.77	-8111	-5801	9427	9247	180.05	52.358
5754	5340	11,286	5398	31	151	89.13	-8111	-5801	9423	9242	181.04	52.053
5800	5340	11,286	5398	32	151	89.13	-8111	-5801	9421	9239	181.90	51.790
5900	5339	11,286	5398	34	151	89.13	-8111	-5801	9415	9231	183.83	51.216
6000	5339	11,286	5398	36	151	89.13	-8111	-5801	9411	9225	185.83	50.643
6100	5339	11,286	5398	38	151	89.13	-8111	-5801	9408	9220	187.87	50.074
6200	5338	11,286	5398	40	151	89.13	-8111	-5801	9405	9215	189.96	49.513
6300	5338	11,262	5398	42	151	89.13	-8128	-5784	9404	9213	191.45	49.120 SF
6400	5338	11,162	5398	44	148	89.13	-8199	-5714	9403	9212	191.05	49.219
6500	5337	11,062	5398	46	145	89.13	-8270	-5643	9402	9212	190.68	49.310
6600	5337	10,962	5397	48	143	89.13	-8341	-5573	9402	9211	190.34	49.394
6700	5337	10,862	5397	50	140	89.13	-8412	-5502	9401	9211	190.02	49.471
6800	5336	10,762	5397	53	138	89.14	-8483	-5432	9400	9210	189.73	49.542
6900	5336	10,662	5397	55	135	89.14	-8554	-5361	9399	9209	189.46	49.608
7000	5335	10,562	5397	57	133	89.14	-8625	-5291	9398	9209	189.21	49.669



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 303H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7100	5335	10,462	5397	59	130	89.14	-8696	-5220	9397	9208	188.98	49.726		
7200	5335	10,362	5396	62	128	89.14	-8767	-5150	9396	9207	188.75	49.780		
7300	5334	10,262	5396	64	125	89.14	-8837	-5079	9395	9207	188.55	49.830		
7400	5334	10,162	5396	66	123	89.14	-8908	-5009	9394	9206	188.35	49.877		
7500	5333	10,062	5396	69	120	89.15	-8979	-4938	9394	9205	188.17	49.921		
7600	5333	9962	5396	71	117	89.15	-9050	-4868	9393	9205	187.99	49.963		
7700	5333	9862	5396	73	115	89.15	-9121	-4797	9392	9204	187.83	50.002		
7800	5332	9762	5395	76	112	89.15	-9192	-4727	9391	9203	187.67	50.038		
7900	5332	9662	5395	78	110	89.15	-9263	-4656	9390	9202	187.53	50.073		
8000	5331	9562	5395	81	107	89.15	-9334	-4586	9389	9202	187.39	50.105		
8100	5331	9462	5395	83	105	89.15	-9405	-4515	9388	9201	187.26	50.135		
8200	5330	9362	5395	85	102	89.16	-9476	-4445	9387	9200	187.14	50.163		
8300	5330	9262	5395	88	100	89.16	-9547	-4374	9386	9199	187.02	50.189		
8400	5329	9162	5394	90	97	89.16	-9618	-4304	9386	9199	186.91	50.213		
8500	5329	9062	5394	93	95	89.16	-9688	-4233	9385	9198	186.81	50.235		
8600	5329	8962	5394	95	92	89.16	-9759	-4163	9384	9197	186.72	50.255		
8700	5328	8862	5394	97	90	89.16	-9830	-4092	9383	9196	186.64	50.273		
8800	5328	8762	5394	100	87	89.17	-9901	-4022	9382	9195	186.56	50.290		
8900	5327	8662	5394	102	85	89.17	-9972	-3951	9381	9195	186.49	50.304		
9000	5327	8562	5393	105	82	89.17	-10,043	-3881	9380	9194	186.43	50.315		
9100	5326	8462	5393	107	80	89.17	-10,114	-3810	9379	9193	186.37	50.325		
9200	5326	8362	5393	110	77	89.17	-10,185	-3740	9378	9192	186.33	50.332		
9300	5325	8262	5393	112	75	89.18	-10,256	-3669	9378	9191	186.30	50.337		
9400	5325	8162	5393	114	72	89.18	-10,327	-3599	9377	9190	186.27	50.339		
9500	5324	8062	5393	117	70	89.18	-10,398	-3528	9376	9189	186.26	50.338		
9600	5324	7962	5392	119	67	89.18	-10,469	-3458	9375	9189	186.25	50.334		
9700	5323	7862	5392	122	65	89.18	-10,539	-3387	9374	9188	186.26	50.326		
9800	5323	3014	2921	124	14	73.45	-11,670	-1383	9369	9242	126.73	73.927		
9900	5322	3031	2937	127	14	73.56	-11,675	-1384	9346	9216	129.51	72.165		
10,000	5322	3049	2954	129	14	73.67	-11,680	-1384	9324	9192	132.29	70.482		
10,100	5321	3066	2971	132	14	73.77	-11,685	-1385	9303	9168	135.07	68.873		
10,200	5321	3083	2987	134	14	73.88	-11,690	-1386	9283	9145	137.86	67.334		
10,300	5320	3101	3004	137	14	73.99	-11,695	-1387	9264	9123	140.65	65.862		
10,400	5320	3118	3020	139	15	74.10	-11,701	-1388	9246	9102	143.44	64.454		
10,500	5319	3135	3037	141	15	74.20	-11,706	-1388	9228	9082	146.24	63.106		
10,600	5319	3153	3053	144	15	74.31	-11,711	-1389	9212	9063	149.03	61.816		
10,700	5318	3170	3070	146	15	74.42	-11,716	-1390	9197	9046	151.82	60.581		
10,800	5318	3187	3086	149	15	74.53	-11,721	-1391	9183	9029	154.61	59.398		
10,900	5317	3205	3103	151	15	74.63	-11,726	-1392	9171	9013	157.39	58.266		
11,000	5316	3222	3119	154	15	74.74	-11,731	-1393	9159	8998	160.17	57.180		
11,100	5316	3239	3136	156	15	74.85	-11,736	-1393	9148	8985	162.94	56.140		
11,200	5315	3256	3152	159	15	74.96	-11,741	-1394	9138	8972	165.71	55.144		
11,300	5315	3274	3169	161	15	75.06	-11,747	-1395	9129	8961	168.47	54.189		
11,400	5314	3291	3185	164	16	75.17	-11,752	-1396	9121	8950	171.22	53.274		
11,437	5314	3297	3191	164	16	75.21	-11,754	-1396	9119	8947	172.23	52.947 CC, ES		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 304H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
7400	5334	3465	3404	66	15	76.32	-11,549	-1447	9998	9929	68.60	145.734
7500	5333	3475	3413	69	15	76.39	-11,551	-1447	9954	9883	70.96	140.266
7600	5333	3485	3423	71	15	76.45	-11,553	-1448	9910	9837	73.35	135.105
7700	5333	3494	3433	73	15	76.51	-11,555	-1449	9867	9792	75.77	130.230
7800	5332	3504	3442	76	15	76.58	-11,557	-1449	9825	9747	78.21	125.625
7900	5332	3514	3452	78	15	76.64	-11,559	-1450	9784	9704	80.68	121.269
8000	5331	3524	3461	81	15	76.70	-11,561	-1451	9744	9661	83.18	117.148
8100	5331	3534	3471	83	15	76.77	-11,563	-1451	9705	9619	85.70	113.247
8200	5330	3543	3480	85	15	76.83	-11,565	-1452	9666	9578	88.24	109.550
8300	5330	3553	3490	88	15	76.89	-11,567	-1452	9629	9538	90.80	106.045
8400	5329	3563	3500	90	15	76.96	-11,569	-1453	9592	9499	93.38	102.720
8500	5329	3573	3509	93	15	77.02	-11,571	-1454	9556	9460	95.98	99.564
8600	5329	3583	3519	95	15	77.08	-11,573	-1454	9521	9423	98.60	96.565
8700	5328	3592	3528	97	15	77.15	-11,575	-1455	9487	9386	101.24	93.716
8800	5328	3602	3538	100	15	77.21	-11,577	-1455	9454	9350	103.89	91.006
8900	5327	3612	3548	102	15	77.27	-11,579	-1456	9422	9316	106.55	88.427
9000	5327	3622	3557	105	15	77.34	-11,581	-1457	9391	9282	109.23	85.972
9100	5326	3632	3567	107	16	77.40	-11,583	-1457	9361	9249	111.92	83.634
9200	5326	3641	3576	110	16	77.46	-11,585	-1458	9331	9217	114.63	81.405
9300	5325	3651	3586	112	16	77.53	-11,587	-1458	9303	9186	117.34	79.281
9400	5325	3661	3595	114	16	77.59	-11,589	-1459	9276	9156	120.07	77.254
9500	5324	3671	3605	117	16	77.65	-11,591	-1460	9249	9127	122.80	75.320
9600	5324	3680	3614	119	16	77.71	-11,593	-1460	9224	9098	125.54	73.474
9700	5323	3690	3624	122	16	77.78	-11,595	-1461	9200	9071	128.29	71.712
9800	5323	3700	3633	124	16	77.84	-11,597	-1461	9176	9045	131.04	70.028
9900	5322	3710	3643	127	16	77.90	-11,599	-1462	9154	9020	133.79	68.419
10,000	5322	3719	3652	129	16	77.97	-11,601	-1463	9133	8996	136.55	66.880
10,100	5321	3729	3662	132	16	78.03	-11,603	-1463	9113	8973	139.31	65.410
10,200	5321	3739	3671	134	16	78.09	-11,605	-1464	9093	8951	142.08	64.003
10,300	5320	3749	3681	137	16	78.15	-11,607	-1465	9075	8930	144.84	62.658
10,400	5320	3758	3691	139	16	78.22	-11,609	-1465	9058	8910	147.60	61.370
10,500	5319	3768	3700	141	16	78.28	-11,611	-1466	9042	8892	150.35	60.138
10,600	5319	3778	3710	144	16	78.34	-11,613	-1466	9027	8874	153.11	58.959
10,700	5318	3788	3719	146	16	78.40	-11,615	-1467	9013	8857	155.86	57.830
10,800	5318	3797	3729	149	16	78.47	-11,617	-1468	9000	8842	158.60	56.749
10,900	5317	3807	3738	151	16	78.53	-11,619	-1468	8989	8827	161.33	55.714
11,000	5316	3817	3747	154	16	78.59	-11,621	-1469	8978	8814	164.06	54.723
11,100	5316	3826	3757	156	16	78.65	-11,623	-1469	8968	8802	166.78	53.774
11,200	5315	3836	3766	159	16	78.71	-11,625	-1470	8960	8791	169.49	52.865
11,300	5315	3846	3776	161	17	78.78	-11,626	-1471	8953	8780	172.18	51.995
11,400	5314	3856	3785	164	17	78.84	-11,628	-1471	8946	8772	174.86	51.162
11,437	5314	3859	3789	164	17	78.86	-11,629	-1471	8944	8769	175.85	50.864 CC, ES, SF



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 503H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset	Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1000	996	11,112	4970	3	161	50.71	-7218	-5785	9953	9801	152.39	65.312		
1100	1095	11,112	4970	4	161	50.71	-7218	-5785	9907	9753	153.24	64.647		
1200	1194	11,112	4970	4	161	50.71	-7218	-5785	9861	9707	154.10	63.992		
1300	1293	11,112	4970	5	161	50.71	-7218	-5785	9816	9661	154.96	63.349		
1400	1392	11,112	4970	5	161	50.71	-7218	-5785	9772	9617	155.82	62.717		
1500	1491	11,112	4970	6	161	50.71	-7218	-5785	9729	9573	156.68	62.097		
1600	1590	11,112	4970	6	161	50.71	-7218	-5785	9687	9529	157.54	61.490		
1700	1689	11,112	4970	7	161	50.71	-7218	-5785	9646	9487	158.39	60.896		
1800	1788	11,112	4970	7	161	50.71	-7218	-5785	9605	9446	159.25	60.315		
1900	1886	11,112	4970	7	161	50.71	-7218	-5785	9565	9405	160.10	59.748		
2000	1985	11,112	4970	8	161	50.71	-7218	-5785	9527	9366	160.94	59.193		
2100	2084	11,112	4970	8	161	50.71	-7218	-5785	9489	9327	161.78	58.652		
2200	2183	11,112	4970	9	161	50.71	-7218	-5785	9452	9289	162.61	58.124		
2300	2282	11,112	4970	9	161	50.71	-7218	-5785	9416	9252	163.44	57.610		
2400	2381	11,112	4970	10	161	50.71	-7218	-5785	9381	9216	164.26	57.109		
2500	2480	11,112	4970	10	161	50.71	-7218	-5785	9346	9181	165.07	56.621		
2600	2579	11,112	4970	11	161	50.71	-7218	-5785	9313	9147	165.87	56.147		
2700	2678	11,112	4970	11	161	50.71	-7218	-5785	9281	9114	166.66	55.686		
2800	2776	11,112	4970	12	161	50.71	-7218	-5785	9250	9082	167.45	55.239		
2900	2875	11,112	4970	12	161	50.71	-7218	-5785	9219	9051	168.22	54.805		
3000	2974	11,112	4970	12	161	50.71	-7218	-5785	9190	9021	168.98	54.384		
3100	3073	11,112	4970	13	161	50.71	-7218	-5785	9161	8992	169.73	53.977		
3200	3172	11,112	4970	13	161	50.71	-7218	-5785	9134	8964	170.47	53.583		
3300	3271	11,112	4970	14	161	50.71	-7218	-5785	9108	8937	171.19	53.202		
3400	3370	11,112	4970	14	161	50.71	-7218	-5785	9082	8911	171.90	52.835		
3500	3469	11,112	4970	15	161	50.71	-7218	-5785	9058	8886	172.60	52.480		
3600	3568	11,112	4970	15	161	50.71	-7218	-5785	9035	8862	173.28	52.139		
3700	3666	11,112	4970	16	161	50.71	-7218	-5785	9013	8839	173.95	51.811		
3800	3765	11,112	4970	16	161	50.71	-7218	-5785	8992	8817	174.61	51.496		
3900	3864	11,112	4970	17	161	50.71	-7218	-5785	8972	8796	175.25	51.194		
4000	3963	11,112	4970	17	161	50.71	-7218	-5785	8953	8777	175.87	50.905		
4100	4062	11,112	4970	18	161	50.71	-7218	-5785	8935	8758	176.47	50.629		
4200	4161	11,112	4970	18	161	50.71	-7218	-5785	8918	8741	177.06	50.366		
4300	4260	11,112	4970	18	161	50.71	-7218	-5785	8902	8724	177.63	50.116		
4400	4359	11,112	4970	19	161	50.71	-7218	-5785	8887	8709	178.18	49.878		
4500	4457	11,112	4970	19	161	50.71	-7218	-5785	8874	8695	178.72	49.653		
4600	4556	11,112	4970	20	161	50.71	-7218	-5785	8862	8682	179.23	49.441		
4700	4655	11,112	4970	20	161	50.71	-7218	-5785	8850	8670	179.73	49.241		
4800	4754	11,112	4970	21	161	50.71	-7218	-5785	8840	8660	180.21	49.054		
4829	4783	11,112	4970	21	161	50.71	-7218	-5785	8837	8657	180.34	49.003		
4850	4804	11,112	4970	21	161	57.16	-7218	-5785	8835	8655	180.44	48.964		
4900	4852	11,112	4970	21	161	66.44	-7218	-5785	8831	8650	180.71	48.868		
4950	4900	11,112	4970	22	161	71.67	-7218	-5785	8826	8645	181.00	48.763		
5000	4947	11,112	4970	22	161	75.04	-7218	-5785	8822	8640	181.33	48.651		
5050	4992	11,112	4970	22	161	77.42	-7218	-5785	8818	8636	181.69	48.530		
5100	5036	11,112	4970	23	161	79.21	-7218	-5785	8813	8631	182.09	48.403		
5150	5077	11,112	4970	23	161	80.61	-7218	-5785	8810	8627	182.52	48.267		
5200	5117	11,112	4970	23	161	81.74	-7218	-5785	8806	8623	182.99	48.123		
5250	5153	11,112	4970	24	161	82.67	-7218	-5785	8803	8619	183.50	47.971		
5300	5187	11,112	4970	25	161	83.45	-7218	-5785	8799	8615	184.05	47.810		
5350	5218	11,112	4970	25	161	84.10	-7218	-5785	8797	8612	184.65	47.640		
5400	5246	11,112	4970	26	161	84.65	-7218	-5785	8794	8609	185.28	47.462		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 503H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5450	5270	11,112	4970	26	161	85.10	-7218	-5785	8792	8606	185.97	47.276	
5500	5291	11,112	4970	27	161	85.47	-7218	-5785	8790	8603	186.69	47.082	
5550	5308	11,112	4970	28	161	85.77	-7218	-5785	8788	8601	187.46	46.880	
5600	5322	11,112	4970	29	161	85.99	-7218	-5785	8787	8599	188.27	46.673	
5650	5332	11,112	4970	29	161	86.15	-7218	-5785	8786	8597	189.11	46.462	
5700	5338	11,112	4970	30	161	86.24	-7218	-5785	8786	8596	189.98	46.247 SF	
5754	5340	11,073	4970	31	160	86.26	-7245	-5758	8786	8596	189.94	46.254	
5800	5340	11,027	4970	32	159	86.26	-7278	-5725	8786	8596	189.59	46.339	
5900	5339	10,927	4970	34	156	86.26	-7350	-5655	8785	8596	188.91	46.506	
6000	5339	10,827	4970	36	154	86.26	-7421	-5585	8785	8597	188.30	46.655	
6100	5339	10,727	4969	38	151	86.26	-7493	-5515	8785	8597	187.76	46.789	
6200	5338	10,627	4969	40	149	86.27	-7564	-5445	8785	8597	187.27	46.910	
6300	5338	10,527	4969	42	146	86.27	-7635	-5375	8785	8598	186.83	47.019	
6400	5338	10,427	4969	44	143	86.27	-7707	-5305	8784	8598	186.43	47.120	
6500	5337	10,327	4969	46	141	86.27	-7778	-5235	8784	8598	186.06	47.212	
6600	5337	10,227	4969	48	138	86.27	-7850	-5165	8784	8598	185.72	47.297	
6700	5337	10,127	4968	50	136	86.27	-7921	-5095	8784	8598	185.41	47.375	
6800	5336	10,027	4968	53	133	86.27	-7992	-5025	8784	8598	185.12	47.448	
6900	5336	9927	4968	55	131	86.28	-8064	-4955	8783	8598	184.85	47.516	
7000	5335	9827	4968	57	128	86.28	-8135	-4885	8783	8599	184.60	47.579	
7100	5335	9727	4968	59	126	86.28	-8207	-4815	8783	8599	184.36	47.639	
7200	5335	9627	4968	62	123	86.28	-8278	-4745	8783	8599	184.14	47.695	
7300	5334	9527	4968	64	120	86.28	-8349	-4675	8783	8599	183.94	47.748	
7400	5334	9427	4967	66	118	86.28	-8421	-4605	8782	8599	183.74	47.797	
7500	5333	9327	4967	69	115	86.28	-8492	-4535	8782	8599	183.56	47.844	
7600	5333	9227	4967	71	113	86.29	-8564	-4465	8782	8599	183.38	47.889	
7700	5333	9127	4967	73	110	86.29	-8635	-4395	8782	8598	183.22	47.931	
7800	5332	9027	4967	76	108	86.29	-8706	-4325	8781	8598	183.06	47.971	
7900	5332	8927	4967	78	105	86.29	-8778	-4255	8781	8598	182.91	48.009	
8000	5331	8827	4966	81	103	86.29	-8849	-4185	8781	8598	182.77	48.045	
8100	5331	8727	4966	83	100	86.29	-8921	-4115	8781	8598	182.63	48.079	
8200	5330	8627	4966	85	98	86.30	-8992	-4045	8781	8598	182.51	48.111	
8300	5330	8527	4966	88	95	86.30	-9063	-3975	8780	8598	182.39	48.141	
8400	5329	8427	4966	90	93	86.30	-9135	-3905	8780	8598	182.28	48.170	
8500	5329	8327	4966	93	90	86.30	-9206	-3835	8780	8598	182.17	48.197	
8600	5329	8227	4965	95	88	86.30	-9278	-3765	8780	8598	182.07	48.222	
8700	5328	8127	4965	97	85	86.31	-9349	-3695	8780	8598	181.98	48.245	
8800	5328	8027	4965	100	82	86.31	-9421	-3625	8779	8597	181.89	48.267	
8900	5327	7927	4965	102	80	86.31	-9492	-3555	8779	8597	181.82	48.286	
9000	5327	7827	4965	105	77	86.31	-9563	-3485	8779	8597	181.74	48.304	
9100	5326	7727	4965	107	75	86.31	-9635	-3415	8779	8597	181.68	48.320	
9200	5326	7627	4965	110	72	86.32	-9706	-3345	8779	8597	181.62	48.334	
9300	5325	7527	4964	112	70	86.32	-9778	-3275	8778	8597	181.58	48.345	
9400	5325	7427	4964	114	67	86.32	-9849	-3205	8778	8597	181.54	48.354	
9500	5324	7327	4964	117	65	86.32	-9920	-3135	8778	8596	181.51	48.361	
9600	5324	7227	4964	119	63	86.32	-9992	-3065	8778	8596	181.49	48.364	
9700	5323	7127	4964	122	60	86.33	-10,063	-2995	8777	8596	181.48	48.365	
9800	5323	7027	4964	124	58	86.33	-10,135	-2925	8777	8596	181.49	48.363	
9900	5322	6927	4963	127	55	86.33	-10,206	-2855	8777	8596	181.51	48.356	
10,000	5322	6827	4963	129	53	86.33	-10,277	-2785	8777	8595	181.54	48.346	
10,100	5321	6727	4963	132	50	86.33	-10,349	-2715	8777	8595	181.59	48.331	
10,200	5321	6627	4963	134	48	86.34	-10,420	-2645	8776	8595	181.67	48.310	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: H14 2206 Pad - # 503H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,300	5320	6527	4963	137	46	86.34	-10,492	-2575	8776	8594	181.76	48.284	
10,400	5320	6427	4963	139	43	86.34	-10,563	-2505	8776	8594	181.88	48.251	
10,500	5319	6327	4962	141	41	86.34	-10,634	-2435	8776	8594	182.03	48.209	
10,600	5319	6227	4962	144	39	86.35	-10,706	-2365	8776	8593	182.22	48.159	
10,700	5318	6127	4962	146	37	86.35	-10,777	-2295	8775	8593	182.45	48.097	
10,800	5318	6027	4962	149	34	86.35	-10,849	-2225	8775	8592	182.73	48.022	
10,900	5317	5927	4962	151	32	86.35	-10,920	-2155	8775	8592	183.07	47.932	
11,000	5316	5827	4962	154	30	86.36	-10,991	-2085	8775	8591	183.48	47.823	
11,100	5316	5727	4962	156	28	86.36	-11,063	-2015	8774	8590	183.98	47.692	
11,200	5315	5627	4961	159	26	86.36	-11,134	-1945	8774	8590	184.59	47.534	
11,300	5315	5527	4961	161	25	86.36	-11,206	-1875	8774	8589	185.33	47.344	
11,400	5314	5427	4961	164	23	86.37	-11,277	-1805	8774	8588	186.23	47.114 ES	
11,437	5314	5324	4957	164	22	86.34	-11,350	-1733	8774	8588	185.64	47.261 CC	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 203H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	132	132	0	0	-177.46	-7438	-330	7445					
100	100	232	232	0	1	-177.46	-7438	-330	7445	7445	0.76	9,774.104		
200	200	332	332	1	1	-177.46	-7438	-330	7445	7444	1.48	5,035.145		
300	300	432	432	1	1	-177.46	-7438	-330	7445	7443	2.20	3,391.017		
400	400	469	469	1	1	-177.46	-7438	-330	7446	7443	2.68	2,773.150		
500	500	500	500	2	2	11.24	-7439	-330	7445	7442	3.13	2,377.639		
600	600	500	500	2	2	11.25	-7439	-330	7443	7439	3.47	2,146.083		
700	699	540	540	2	2	11.28	-7440	-330	7438	7434	3.95	1,884.066		
800	799	600	600	3	2	11.32	-7443	-330	7430	7426	4.50	1,651.594		
828	827	600	600	3	2	11.33	-7443	-330	7428	7423	4.60	1,614.261		
900	898	600	600	3	2	11.33	-7443	-330	7421	7416	4.85	1,528.527		
1000	996	10,775	5408	3	133	59.48	-4303	-4271	7393	7280	113.61	65.077		
1100	1095	10,763	5408	4	133	59.36	-4311	-4263	7329	7215	114.36	64.092		
1200	1194	10,752	5408	4	132	59.24	-4319	-4255	7266	7151	115.12	63.119		
1300	1293	10,740	5408	5	132	59.12	-4328	-4247	7204	7088	115.89	62.158		
1400	1392	10,728	5408	5	132	59.00	-4336	-4238	7142	7025	116.68	61.212		
1500	1491	10,716	5408	6	131	58.89	-4344	-4230	7081	6964	117.47	60.281		
1600	1590	10,705	5408	6	131	58.77	-4353	-4222	7022	6903	118.28	59.367		
1700	1689	10,693	5408	7	131	58.65	-4361	-4214	6963	6844	119.08	58.469		
1800	1788	10,681	5408	7	131	58.53	-4370	-4205	6905	6785	119.90	57.590		
1900	1886	10,669	5408	7	130	58.41	-4378	-4197	6848	6727	120.71	56.728		
2000	1985	10,658	5408	8	130	58.30	-4386	-4189	6792	6670	121.53	55.884		
2100	2084	10,646	5408	8	130	58.18	-4395	-4181	6737	6614	122.35	55.060		
2200	2183	10,634	5408	9	129	58.06	-4403	-4172	6683	6559	123.17	54.255		
2300	2282	10,622	5408	9	129	57.94	-4411	-4164	6630	6506	123.99	53.469		
2400	2381	10,611	5408	10	129	57.82	-4420	-4156	6578	6453	124.81	52.703		
2500	2480	10,599	5408	10	129	57.71	-4428	-4147	6527	6401	125.62	51.957		
2600	2579	10,587	5408	11	128	57.59	-4436	-4139	6477	6351	126.43	51.231		
2700	2678	10,575	5407	11	128	57.47	-4445	-4131	6428	6301	127.23	50.525		
2800	2776	10,564	5407	12	128	57.35	-4453	-4123	6381	6253	128.03	49.840		
2900	2875	10,552	5407	12	127	57.23	-4462	-4114	6335	6206	128.82	49.176		
3000	2974	10,540	5407	12	127	57.11	-4470	-4106	6290	6160	129.60	48.533		
3100	3073	10,528	5407	13	127	57.00	-4478	-4098	6246	6116	130.37	47.911		
3200	3172	10,517	5407	13	127	56.88	-4487	-4090	6204	6073	131.13	47.310		
3300	3271	10,505	5407	14	126	56.76	-4495	-4081	6163	6031	131.88	46.731		
3400	3370	10,493	5407	14	126	56.64	-4503	-4073	6123	5990	132.61	46.172		
3500	3469	10,481	5407	15	126	56.52	-4512	-4065	6085	5951	133.33	45.636		
3600	3568	10,470	5407	15	125	56.40	-4520	-4057	6048	5914	134.03	45.121		
3700	3666	10,458	5407	16	125	56.29	-4528	-4048	6012	5877	134.71	44.629		
3800	3765	10,446	5407	16	125	56.17	-4537	-4040	5978	5842	135.37	44.158		
3900	3864	10,434	5407	17	125	56.05	-4545	-4032	5945	5809	136.01	43.709		
4000	3963	10,423	5407	17	124	55.93	-4554	-4024	5914	5777	136.63	43.283		
4100	4062	10,411	5407	18	124	55.81	-4562	-4015	5884	5747	137.23	42.878		
4200	4161	10,399	5407	18	124	55.69	-4570	-4007	5856	5718	137.80	42.497		
4300	4260	10,387	5407	18	123	55.57	-4579	-3999	5829	5691	138.34	42.137		
4400	4359	10,376	5407	19	123	55.45	-4587	-3991	5804	5665	138.86	41.800		
4500	4457	10,364	5407	19	123	55.34	-4595	-3982	5781	5642	139.35	41.486		
4600	4556	10,352	5407	20	123	55.22	-4604	-3974	5759	5619	139.80	41.194		
4700	4655	10,340	5407	20	122	55.10	-4612	-3966	5739	5599	140.23	40.925		
4800	4754	10,329	5407	21	122	54.98	-4620	-3958	5720	5580	140.62	40.679		
4829	4783	10,325	5407	21	122	54.95	-4623	-3955	5715	5575	140.73	40.612		
4850	4804	10,322	5407	21	122	61.52	-4625	-3953	5712	5571	140.80	40.566		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 203H - Original drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:										Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4900	4852	10,313	5407	21	122	71.04	-4632	-3947	5704	5563	140.92	40.474	
4950	4900	10,300	5407	22	121	76.43	-4641	-3937	5696	5555	140.97	40.405	
5000	4947	10,283	5407	22	121	79.88	-4653	-3925	5689	5548	140.95	40.360	
5050	4992	10,262	5407	22	120	82.28	-4668	-3911	5682	5541	140.87	40.337	
5100	5036	10,238	5406	23	120	84.02	-4685	-3894	5676	5536	140.73	40.335	
5150	5077	10,210	5406	23	119	85.32	-4705	-3874	5671	5530	140.53	40.353	
5200	5117	10,179	5406	23	118	86.32	-4726	-3853	5666	5526	140.29	40.389	
5250	5153	10,146	5406	24	118	87.08	-4750	-3829	5662	5522	140.00	40.441	
5300	5187	10,109	5406	25	117	87.67	-4776	-3803	5658	5518	139.68	40.506	
5350	5218	10,070	5406	25	116	88.11	-4804	-3776	5655	5515	139.34	40.582	
5400	5246	10,029	5406	26	115	88.45	-4834	-3747	5652	5513	138.98	40.667	
5450	5270	9985	5406	26	114	88.71	-4865	-3716	5649	5511	138.60	40.759	
5500	5291	9940	5406	27	112	88.91	-4897	-3685	5647	5509	138.23	40.855	
5550	5308	9893	5405	28	111	89.05	-4930	-3652	5646	5508	137.85	40.954	
5600	5322	9845	5405	29	110	89.15	-4964	-3618	5644	5507	137.48	41.054	
5650	5332	9796	5405	29	109	89.23	-4999	-3584	5643	5506	137.12	41.154	
5700	5338	9747	5405	30	108	89.28	-5034	-3549	5642	5506	136.77	41.254	
5754	5340	9693	5405	31	106	89.32	-5073	-3511	5642	5505	136.41	41.359	
5800	5340	9647	5405	32	105	89.32	-5105	-3478	5642	5505	136.12	41.445	
5900	5339	9547	5404	34	103	89.32	-5177	-3408	5641	5505	135.56	41.612	
6000	5339	9447	5404	36	100	89.32	-5248	-3338	5640	5505	135.08	41.756	
6100	5339	9347	5404	38	98	89.32	-5319	-3268	5640	5505	134.67	41.880	
6200	5338	9247	5403	40	96	89.32	-5390	-3197	5639	5505	134.31	41.987	
6300	5338	9147	5403	42	93	89.32	-5461	-3127	5639	5505	134.01	42.079	
6400	5338	9047	5403	44	91	89.32	-5532	-3057	5638	5505	133.74	42.158	
6500	5337	8947	5403	46	88	89.32	-5603	-2987	5638	5504	133.52	42.225	
6600	5337	8847	5402	48	86	89.32	-5675	-2916	5637	5504	133.32	42.282	
6700	5337	8747	5402	50	84	89.32	-5746	-2846	5637	5503	133.16	42.330	
6800	5336	8647	5402	53	81	89.32	-5817	-2776	5636	5503	133.02	42.370	
6900	5336	8547	5401	55	79	89.33	-5888	-2705	5635	5503	132.91	42.402	
7000	5335	8447	5401	57	76	89.33	-5959	-2635	5635	5502	132.82	42.426	
7100	5335	8347	5401	59	74	89.33	-6030	-2565	5634	5502	132.75	42.444	
7200	5335	8247	5400	62	72	89.33	-6102	-2495	5634	5501	132.70	42.456	
7300	5334	8147	5400	64	69	89.33	-6173	-2424	5633	5501	132.67	42.462	
7400	5334	8047	5400	66	67	89.33	-6244	-2354	5633	5500	132.65	42.461	
7500	5333	7947	5399	69	65	89.33	-6315	-2284	5632	5499	132.66	42.454	
7600	5333	7847	5399	71	62	89.33	-6386	-2214	5632	5499	132.69	42.442	
7700	5333	7747	5399	73	60	89.33	-6457	-2143	5631	5498	132.73	42.423	
7800	5332	7647	5399	76	58	89.33	-6528	-2073	5630	5498	132.80	42.398	
7900	5332	7547	5398	78	55	89.34	-6600	-2003	5630	5497	132.88	42.367	
8000	5331	7447	5398	81	53	89.34	-6671	-1933	5629	5496	132.99	42.328	
8100	5331	7347	5398	83	51	89.34	-6742	-1862	5629	5496	133.12	42.282	
8200	5330	7247	5397	85	49	89.34	-6813	-1792	5628	5495	133.28	42.227	
8300	5330	7147	5397	88	46	89.34	-6884	-1722	5628	5494	133.47	42.164	
8400	5329	7047	5397	90	44	89.34	-6955	-1651	5627	5493	133.69	42.090	
8500	5329	6947	5396	93	42	89.34	-7026	-1581	5626	5493	133.95	42.005	
8600	5329	6847	5396	95	40	89.35	-7098	-1511	5626	5492	134.24	41.908	
8700	5328	6747	5396	97	38	89.35	-7169	-1441	5625	5491	134.59	41.796	
8800	5328	6647	5395	100	36	89.35	-7240	-1370	5625	5490	134.99	41.667	
8900	5327	6547	5395	102	34	89.35	-7311	-1300	5624	5489	135.46	41.520	
9000	5327	6447	5395	105	32	89.35	-7382	-1230	5624	5488	136.00	41.350	
9100	5326	6347	5395	107	30	89.35	-7453	-1160	5623	5486	136.63	41.154	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 203H - Original drilling - APD													Offset Site Error:	0 ft	
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
9200	5326	6247	5394	110	28	89.35	-7524	-1089	5623	5485	137.37	40.928			
9300	5325	6147	5394	112	27	89.36	-7596	-1019	5622	5484	138.24	40.668			
9400	5325	6047	5394	114	25	89.36	-7667	-949	5621	5482	139.26	40.367			
9500	5324	5947	5393	117	24	89.36	-7738	-878	5621	5480	140.45	40.020			
9600	5324	5847	5393	119	23	89.36	-7809	-808	5620	5478	141.85	39.622			
9700	5323	4759	4687	122	22	82.12	-8205	-291	5610	5470	139.23	40.291			
9800	5323	4798	4726	124	22	82.52	-8211	-292	5600	5458	142.28	39.359			
9900	5322	4809	4737	127	23	82.64	-8213	-293	5592	5447	145.13	38.532			
10,000	5322	4815	4743	129	23	82.69	-8213	-293	5586	5438	147.92	37.765			
10,100	5321	4818	4746	132	23	82.73	-8214	-293	5582	5431	150.67	37.050			
10,200	5321	4820	4748	134	23	82.75	-8214	-294	5580	5426	153.37	36.382			
10,284	5320	4822	4750	136	23	82.76	-8214	-294	5579	5423	155.61	35.853 CC			
10,300	5320	4822	4750	137	23	82.77	-8214	-294	5579	5423	156.02	35.758			
10,400	5320	4823	4751	139	23	82.78	-8214	-294	5580	5422	158.64	35.177 ES			
10,500	5319	4824	4752	141	23	82.79	-8214	-294	5583	5422	161.20	34.635			
10,600	5319	4825	4752	144	23	82.79	-8214	-294	5588	5424	163.72	34.131			
10,700	5318	4825	4753	146	23	82.80	-8214	-294	5595	5428	166.19	33.664			
10,800	5318	4826	4753	149	23	82.80	-8214	-294	5603	5434	168.60	33.231			
10,900	5317	4826	4754	151	23	82.81	-8214	-294	5613	5442	170.96	32.831			
11,000	5316	4826	4754	154	23	82.81	-8214	-294	5625	5452	173.27	32.463			
11,100	5316	4827	4754	156	23	82.81	-8214	-294	5638	5463	175.52	32.125			
11,200	5315	4827	4755	159	23	82.82	-8214	-294	5654	5476	177.70	31.815			
11,300	5315	4827	4755	161	23	82.82	-8214	-294	5671	5491	179.83	31.534			
11,400	5314	4827	4755	164	23	82.82	-8214	-294	5690	5508	181.90	31.278			
11,437	5314	4827	4755	164	23	82.82	-8214	-294	5697	5514	182.64	31.191 SF			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 204H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	132	132	0	0	-177.65	-7423	-304	7429					
100	100	232	232	0	1	-177.65	-7423	-304	7429	7429	0.76	9,753.073		
200	200	332	332	1	1	-177.65	-7423	-304	7429	7428	1.48	5,024.312		
214	214	346	346	1	1	-177.65	-7423	-304	7429	7428	1.58	4,701.579		
300	300	425	425	1	1	-177.65	-7423	-304	7429	7427	2.17	3,422.834		
400	400	463	463	1	1	-177.65	-7423	-305	7430	7427	2.66	2,791.252		
500	500	500	500	2	2	11.05	-7424	-305	7430	7426	3.13	2,373.001		
600	600	535	535	2	2	11.08	-7425	-307	7427	7423	3.59	2,070.646		
700	699	576	576	2	2	11.12	-7426	-309	7421	7417	4.07	1,822.037		
800	799	660	660	3	2	11.20	-7429	-313	7413	7408	4.72	1,569.952		
828	827	688	687	3	2	11.23	-7430	-315	7410	7405	4.92	1,504.964		
900	898	759	758	3	2	11.28	-7432	-319	7402	7397	5.43	1,362.272		
1000	996	858	857	3	3	11.34	-7435	-325	7391	7385	6.15	1,201.960		
1100	1095	957	956	4	3	11.41	-7439	-330	7380	7373	6.87	1,074.055		
1200	1194	1056	1055	4	4	11.47	-7442	-336	7369	7362	7.60	969.927		
1300	1293	1155	1154	5	4	11.54	-7446	-341	7358	7350	8.33	883.568		
1400	1392	1254	1253	5	4	11.60	-7449	-347	7347	7338	9.06	810.913		
1500	1491	1353	1351	6	5	11.67	-7452	-352	7336	7327	9.80	748.975		
1600	1590	1452	1450	6	5	11.74	-7456	-358	7325	7315	10.53	695.575		
1700	1689	1551	1549	7	5	11.80	-7459	-364	7315	7303	11.27	649.079		
1800	1788	1650	1648	7	6	11.87	-7462	-369	7304	7292	12.01	608.242		
1900	1886	1749	1747	7	6	11.93	-7466	-375	7293	7280	12.75	572.098		
2000	1985	1848	1846	8	7	12.00	-7469	-380	7282	7268	13.49	539.888		
2100	2084	1947	1944	8	7	12.07	-7473	-386	7271	7257	14.23	511.008		
2200	2183	2047	2043	9	7	12.14	-7476	-391	7260	7245	14.97	484.968		
2300	2282	2146	2142	9	8	12.20	-7479	-397	7249	7234	15.71	461.373		
2400	2381	2245	2241	10	8	12.27	-7483	-403	7238	7222	16.45	439.895		
2500	2480	2344	2340	10	8	12.34	-7486	-408	7228	7210	17.20	420.263		
2600	2579	2443	2439	11	9	12.41	-7489	-414	7217	7199	17.94	402.249		
2700	2678	2542	2537	11	9	12.47	-7493	-419	7206	7187	18.68	385.663		
2800	2776	2641	2636	12	10	12.54	-7496	-425	7195	7176	19.43	370.341		
2900	2875	2740	2735	12	10	12.61	-7500	-430	7184	7164	20.17	356.145		
3000	2974	2839	2834	12	10	12.68	-7503	-436	7174	7153	20.92	342.955		
3100	3073	2938	2933	13	11	12.75	-7506	-442	7163	7141	21.66	330.669		
3200	3172	3037	3032	13	11	12.82	-7510	-447	7152	7130	22.41	319.197		
3300	3271	3136	3130	14	11	12.89	-7513	-453	7141	7118	23.15	308.461		
3400	3370	3235	3229	14	12	12.96	-7517	-458	7131	7107	23.90	298.392		
3500	3469	3334	3328	15	12	13.03	-7520	-464	7120	7095	24.64	288.931		
3600	3568	3433	3427	15	13	13.10	-7523	-470	7109	7084	25.39	280.023		
3700	3666	3532	3526	16	13	13.17	-7527	-475	7099	7072	26.13	271.623		
3800	3765	3631	3625	16	13	13.24	-7530	-481	7088	7061	26.88	263.688		
3900	3864	3730	3723	17	14	13.31	-7533	-486	7077	7050	27.63	256.180		
4000	3963	3829	3822	17	14	13.38	-7537	-492	7067	7038	28.37	249.066		
4100	4062	3928	3921	18	14	13.45	-7540	-497	7056	7027	29.12	242.316		
4200	4161	4027	4020	18	15	13.52	-7544	-503	7045	7015	29.87	235.902		
4300	4260	4126	4119	18	15	13.59	-7547	-509	7035	7004	30.61	229.801		
4400	4359	4226	4217	19	16	13.66	-7550	-514	7024	6993	31.36	223.989		
4500	4457	4325	4316	19	16	13.73	-7554	-520	7013	6981	32.11	218.448		
4600	4556	4424	4415	20	16	13.81	-7557	-525	7003	6970	32.85	213.157		
4700	4655	4523	4514	20	17	13.88	-7560	-531	6992	6959	33.60	208.102		
4800	4754	4622	4613	21	17	13.95	-7564	-536	6982	6947	34.35	203.266		
4829	4783	4650	4641	21	17	13.97	-7565	-538	6979	6944	34.56	201.913		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 204H - Original drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4850	4804	4671	4662	21	17	20.44	-7566	-539	6976	6941	34.72	200.912	
4900	4852	4720	4711	21	17	29.89	-7567	-542	6969	6933	35.11	198.500	
4950	4900	4762	4753	22	18	35.51	-7569	-544	6959	6923	35.48	196.134	
5000	4947	4762	4753	22	18	39.37	-7569	-544	6946	6911	35.71	194.522	
5050	4992	4762	4753	22	18	42.43	-7569	-544	6932	6896	35.95	192.824	
5100	5036	4780	4771	23	18	45.15	-7569	-545	6916	6880	36.26	190.709	
5150	5077	4800	4791	23	18	47.71	-7571	-546	6898	6861	36.60	188.480	
5200	5117	4800	4791	23	18	50.14	-7571	-546	6878	6841	36.88	186.512	
5250	5153	4800	4791	24	18	52.59	-7571	-546	6857	6820	37.17	184.445	
5300	5187	4800	4791	25	18	55.11	-7571	-546	6834	6796	37.49	182.272	
5350	5218	4800	4791	25	18	57.73	-7571	-546	6810	6772	37.83	179.984	
5400	5246	4800	4791	26	18	60.46	-7571	-546	6784	6746	38.20	177.579	
5450	5270	4800	4791	26	18	63.33	-7571	-546	6758	6719	38.60	175.054	
5500	5291	4800	4791	27	18	66.31	-7571	-546	6730	6691	39.03	172.411	
5550	5308	4800	4791	28	18	69.42	-7571	-546	6702	6662	39.50	169.656	
5600	5322	4800	4791	29	18	72.62	-7571	-546	6673	6633	40.01	166.799	
5650	5332	4800	4791	29	18	75.90	-7571	-546	6644	6603	40.55	163.856	
5700	5338	4823	4814	30	18	79.45	-7573	-546	6614	6573	41.20	160.546	
5754	5340	4824	4814	31	18	83.03	-7573	-546	6582	6540	41.85	157.263	
5800	5340	4824	4815	32	18	83.03	-7573	-546	6555	6512	42.45	154.409	
5900	5339	4825	4816	34	18	83.05	-7573	-546	6497	6453	43.85	148.151	
6000	5339	4827	4817	36	18	83.06	-7573	-546	6439	6394	45.39	141.875	
6100	5339	4828	4818	38	18	83.08	-7573	-546	6383	6336	47.05	135.676	
6200	5338	4850	4840	40	18	83.32	-7576	-545	6328	6280	48.89	129.448	
6300	5338	4850	4840	42	18	83.32	-7576	-545	6274	6224	50.76	123.617	
6400	5338	4850	4840	44	18	83.32	-7576	-545	6222	6169	52.72	118.015	
6500	5337	4850	4840	46	18	83.32	-7576	-545	6170	6115	54.76	112.663	
6600	5337	4850	4840	48	18	83.32	-7576	-545	6119	6063	56.89	107.571	
6700	5337	4850	4840	50	18	83.32	-7576	-545	6070	6011	59.08	102.743	
6800	5336	4850	4840	53	18	83.32	-7576	-545	6022	5961	61.34	98.177	
6900	5336	4850	4840	55	18	83.33	-7576	-545	5976	5912	63.66	93.866	
7000	5335	4850	4840	57	18	83.33	-7576	-545	5930	5864	66.04	89.803	
7100	5335	4850	4840	59	18	83.33	-7576	-545	5886	5818	68.46	85.977	
7200	5335	4850	4840	62	18	83.33	-7576	-545	5844	5773	70.94	82.376	
7300	5334	4850	4840	64	18	83.33	-7576	-545	5802	5729	73.46	78.991	
7400	5334	4850	4840	66	18	83.33	-7576	-545	5763	5687	76.01	75.808	
7500	5333	4850	4840	69	18	83.33	-7576	-545	5724	5646	78.61	72.817	
7600	5333	4850	4840	71	18	83.33	-7576	-545	5687	5606	81.24	70.007	
7700	5333	4850	4840	73	18	83.33	-7576	-545	5652	5568	83.90	67.368	
7800	5332	4850	4840	76	18	83.33	-7576	-545	5618	5532	86.59	64.888	
7900	5332	4850	4840	78	18	83.33	-7576	-545	5586	5497	89.30	62.558	
8000	5331	4872	4862	81	18	83.57	-7579	-544	5556	5463	92.11	60.317	
8100	5331	4876	4866	83	18	83.61	-7580	-544	5527	5432	94.87	58.253	
8200	5330	4881	4871	85	18	83.67	-7581	-543	5499	5402	97.65	56.315	
8300	5330	4900	4890	88	18	83.87	-7584	-542	5474	5373	100.49	54.468	
8400	5329	4900	4890	90	18	83.87	-7584	-542	5450	5346	103.28	52.768	
8500	5329	4900	4890	93	18	83.87	-7584	-542	5428	5321	106.06	51.173	
8600	5329	4900	4890	95	18	83.87	-7584	-542	5407	5298	108.85	49.675	
8700	5328	4900	4890	97	18	83.87	-7584	-542	5388	5277	111.63	48.270	
8800	5328	4922	4911	100	18	84.11	-7588	-539	5371	5257	114.49	46.916	
8900	5327	4932	4921	102	18	84.21	-7591	-538	5356	5239	117.29	45.665	
9000	5327	4950	4938	105	18	84.40	-7595	-536	5343	5223	120.11	44.482	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L12 2206 Pad - 204H - Original drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
9100	5326	4950	4938	107	18	84.40	-7595	-536	5331	5208	122.85	43.396		
9200	5326	4973	4960	110	18	84.64	-7601	-532	5321	5196	125.65	42.349		
9300	5325	5000	4985	112	18	84.91	-7608	-527	5313	5185	128.45	41.365		
9400	5325	5014	4998	114	18	85.05	-7612	-524	5307	5176	131.17	40.457		
9500	5324	5041	5023	117	19	85.32	-7621	-518	5302	5168	133.92	39.593		
9600	5324	5074	5053	119	19	85.65	-7633	-509	5299	5162	136.66	38.776		
9700	5323	5116	5090	122	19	86.05	-7649	-497	5298	5158	139.41	38.001		
9750	5323	5141	5111	123	19	86.28	-7659	-488	5298	5157	140.78	37.630	CC	
9800	5323	5170	5135	124	19	86.54	-7672	-478	5298	5156	142.18	37.259		
9900	5322	5241	5190	127	19	87.13	-7707	-449	5299	5154	145.03	36.537		
10,000	5322	5335	5254	129	20	87.83	-7758	-405	5301	5153	148.03	35.811		
10,100	5321	5459	5323	132	20	88.58	-7835	-336	5303	5152	151.34	35.042		
10,200	5321	5615	5379	134	22	89.20	-7941	-238	5305	5150	155.28	34.165		
10,300	5320	5786	5398	137	24	89.41	-8064	-120	5306	5146	159.85	33.192		
10,400	5320	5886	5397	139	25	89.41	-8136	-50	5306	5142	163.84	32.386		
10,500	5319	5986	5396	141	27	89.40	-8207	20	5306	5138	167.96	31.591		
10,600	5319	6086	5395	144	29	89.40	-8279	89	5306	5134	172.21	30.813		
10,700	5318	6186	5394	146	31	89.40	-8350	159	5306	5130	176.55	30.055		
10,800	5318	6286	5393	149	33	89.39	-8422	229	5306	5125	180.98	29.321		
10,900	5317	6386	5392	151	35	89.39	-8494	299	5306	5121	185.47	28.611		
11,000	5316	6486	5391	154	37	89.38	-8565	369	5307	5117	190.02	27.926		
11,100	5316	6586	5390	156	39	89.38	-8637	438	5307	5112	194.62	27.267		
11,200	5315	6686	5389	159	41	89.38	-8708	508	5307	5108	199.26	26.633		
11,300	5315	6786	5389	161	43	89.37	-8780	578	5307	5103	203.93	26.023		
11,400	5314	6886	5388	164	45	89.37	-8852	648	5307	5098	208.63	25.437		
11,437	5314	6923	5387	164	46	89.37	-8878	674	5307	5097	210.36	25.228	ES, SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 504H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	159	159	0	0	-166.20	-7636	-1876	7863					
100	100	259	259	0	1	-166.20	-7636	-1876	7863	7862	0.88	8,952.209		
200	200	359	359	1	1	-166.20	-7636	-1876	7863	7862	1.60	4,928.983		
213	213	372	372	1	1	-166.20	-7636	-1876	7863	7861	1.69	4,649.803		
300	300	450	450	1	1	-166.20	-7636	-1876	7863	7861	2.28	3,448.928		
400	400	481	481	1	2	-166.20	-7636	-1876	7864	7861	2.74	2,866.243		
500	500	500	500	2	2	22.50	-7637	-1876	7864	7860	3.15	2,495.446		
600	600	537	537	2	2	22.52	-7637	-1875	7861	7857	3.61	2,176.665		
700	699	600	600	2	2	22.56	-7640	-1875	7857	7852	4.17	1,885.392		
800	799	600	600	3	2	22.62	-7640	-1875	7849	7845	4.52	1,735.741		
828	827	600	600	3	2	22.64	-7640	-1875	7847	7842	4.63	1,696.399		
900	898	600	600	3	2	22.64	-7640	-1875	7841	7836	4.88	1,605.373		
1000	996	650	650	3	2	22.65	-7643	-1875	7833	7827	5.42	1,445.362		
1100	1095	700	700	4	2	22.66	-7647	-1874	7826	7820	5.96	1,313.304		
1200	1194	700	700	4	2	22.66	-7647	-1874	7820	7814	6.33	1,235.299		
1300	1293	700	700	5	2	22.66	-7647	-1874	7815	7809	6.70	1,165.694		
1400	1392	763	762	5	2	22.67	-7653	-1873	7811	7804	7.30	1,069.885		
1500	1491	800	799	6	3	22.68	-7657	-1873	7808	7800	7.81	1,000.178		
1600	1590	800	799	6	3	22.68	-7657	-1873	7805	7797	8.18	953.845		
1700	1689	848	847	7	3	22.68	-7664	-1872	7804	7795	8.73	893.569		
1800	1788	900	898	7	3	22.68	-7671	-1871	7804	7794	9.30	839.393		
1824	1811	900	898	7	3	22.68	-7671	-1871	7804	7794	9.39	831.326		
1900	1886	900	898	7	3	22.68	-7671	-1871	7804	7794	9.67	806.736		
2000	1985	900	898	8	3	22.68	-7671	-1871	7806	7795	10.05	776.702		
2100	2084	962	959	8	3	22.68	-7681	-1869	7808	7797	10.65	732.842		
2200	2183	1000	997	9	3	22.67	-7688	-1868	7811	7800	11.17	699.269		
2300	2282	9967	5382	9	120	57.64	-5282	-5118	7783	7664	119.24	65.273		
2400	2381	9955	5382	10	119	57.54	-5291	-5110	7738	7618	119.85	64.565		
2500	2480	9943	5382	10	119	57.44	-5299	-5101	7694	7574	120.45	63.876		
2600	2579	9931	5382	11	119	57.35	-5308	-5093	7651	7530	121.05	63.206		
2700	2678	9919	5382	11	118	57.25	-5316	-5085	7610	7488	121.65	62.554		
2800	2776	9908	5382	12	118	57.15	-5325	-5077	7569	7447	122.23	61.922		
2900	2875	9896	5382	12	118	57.06	-5333	-5068	7529	7406	122.81	61.308		
3000	2974	9884	5382	12	118	56.96	-5342	-5060	7491	7367	123.38	60.713		
3100	3073	9872	5382	13	117	56.86	-5350	-5052	7453	7329	123.94	60.138		
3200	3172	9860	5382	13	117	56.77	-5358	-5044	7417	7293	124.49	59.582		
3300	3271	9848	5382	14	117	56.67	-5367	-5035	7382	7257	125.02	59.045		
3400	3370	9837	5382	14	116	56.57	-5375	-5027	7348	7223	125.55	58.528		
3500	3469	9825	5382	15	116	56.47	-5384	-5019	7315	7189	126.06	58.030		
3600	3568	9813	5382	15	116	56.38	-5392	-5011	7284	7157	126.56	57.552		
3700	3666	9801	5382	16	115	56.28	-5401	-5002	7254	7126	127.05	57.094		
3800	3765	9789	5382	16	115	56.18	-5409	-4994	7224	7097	127.52	56.655		
3900	3864	9778	5382	17	115	56.09	-5418	-4986	7197	7069	127.97	56.236		
4000	3963	9766	5382	17	115	55.99	-5426	-4978	7170	7042	128.41	55.837		
4100	4062	9754	5382	18	114	55.89	-5435	-4969	7145	7016	128.84	55.457		
4200	4161	9742	5382	18	114	55.80	-5443	-4961	7121	6992	129.24	55.098		
4300	4260	9730	5382	18	114	55.70	-5452	-4953	7098	6969	129.63	54.759		
4400	4359	9718	5382	19	113	55.60	-5460	-4945	7077	6947	130.00	54.439		
4500	4457	9707	5382	19	113	55.50	-5469	-4936	7057	6927	130.35	54.140		
4600	4556	9695	5382	20	113	55.41	-5477	-4928	7038	6908	130.68	53.861		
4700	4655	9683	5382	20	112	55.31	-5485	-4920	7021	6890	130.99	53.601		
4800	4754	9671	5381	21	112	55.21	-5494	-4912	7005	6874	131.27	53.362		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 504H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM					Rule Assigned:				Offset Well Error:	0 ft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4829	4783	9668	5381	21	112	55.19	-5496	-4909	7001	6869	131.35	53.297		
4850	4804	9665	5381	21	112	61.72	-5498	-4907	6998	6866	131.40	53.252		
4900	4852	9655	5381	21	112	71.15	-5505	-4901	6991	6859	131.48	53.169		
4950	4900	9642	5381	22	111	76.46	-5515	-4891	6984	6853	131.48	53.118		
5000	4947	9625	5381	22	111	79.85	-5527	-4879	6978	6846	131.42	53.096		
5050	4992	9604	5381	22	110	82.20	-5542	-4865	6972	6841	131.29	53.105		
5100	5036	9580	5381	23	110	83.90	-5559	-4848	6967	6836	131.11	53.140		
5150	5077	9553	5381	23	109	85.18	-5579	-4829	6963	6832	130.87	53.201		
5200	5117	9522	5381	23	108	86.15	-5601	-4807	6959	6828	130.59	53.286		
5250	5153	9488	5381	24	108	86.90	-5625	-4784	6955	6825	130.26	53.391		
5300	5187	9452	5381	25	107	87.47	-5651	-4758	6952	6822	129.91	53.513		
5350	5218	9413	5381	25	106	87.92	-5679	-4731	6949	6819	129.53	53.649		
5400	5246	9371	5381	26	105	88.25	-5709	-4702	6947	6817	129.13	53.797		
5450	5270	9328	5380	26	103	88.51	-5740	-4672	6945	6816	128.72	53.953		
5500	5291	9282	5380	27	102	88.69	-5772	-4640	6943	6815	128.30	54.114		
5550	5308	9236	5380	28	101	88.83	-5806	-4608	6942	6814	127.89	54.278		
5600	5322	9188	5380	29	100	88.92	-5840	-4574	6941	6813	127.49	54.444		
5650	5332	9139	5380	29	99	88.98	-5875	-4540	6940	6813	127.09	54.608		
5700	5338	9089	5380	30	97	89.01	-5911	-4505	6940	6813	126.71	54.770		
5741	5340	9048	5380	31	96	89.01	-5940	-4477	6940	6813	126.40	54.901		
5754	5340	9035	5380	31	96	89.01	-5949	-4468	6940	6813	126.31	54.941		
5800	5340	8989	5379	32	95	89.01	-5983	-4436	6940	6814	125.99	55.082		
5900	5339	8889	5379	34	92	89.01	-6054	-4366	6940	6815	125.36	55.358		
6000	5339	8789	5379	36	90	89.01	-6126	-4296	6940	6815	124.82	55.602		
6100	5339	8689	5379	38	87	89.02	-6197	-4226	6940	6816	124.34	55.816		
6200	5338	8589	5378	40	85	89.02	-6269	-4157	6940	6816	123.92	56.006		
6300	5338	8489	5378	42	83	89.02	-6341	-4087	6940	6817	123.55	56.174		
6400	5338	8389	5378	44	80	89.02	-6412	-4017	6941	6817	123.23	56.322		
6500	5337	8289	5377	46	78	89.02	-6484	-3947	6941	6818	122.95	56.452		
6600	5337	8189	5377	48	75	89.02	-6556	-3877	6941	6818	122.70	56.566		
6700	5337	8089	5377	50	73	89.02	-6627	-3808	6941	6819	122.49	56.666		
6800	5336	7989	5376	53	70	89.02	-6699	-3738	6941	6819	122.31	56.752		
6900	5336	7889	5376	55	68	89.02	-6771	-3668	6941	6819	122.15	56.825		
7000	5335	7789	5376	57	65	89.02	-6842	-3598	6941	6819	122.03	56.885		
7100	5335	7689	5376	59	63	89.02	-6914	-3529	6942	6820	121.93	56.933		
7200	5335	7589	5375	62	60	89.02	-6985	-3459	6942	6820	121.85	56.968		
7300	5334	7489	5375	64	58	89.02	-7057	-3389	6942	6820	121.80	56.992		
7400	5334	7389	5375	66	56	89.02	-7129	-3319	6942	6820	121.78	57.002		
7500	5333	7289	5374	69	53	89.03	-7200	-3249	6942	6820	121.79	57.000		
7600	5333	7189	5374	71	51	89.03	-7272	-3180	6942	6820	121.83	56.983		
7700	5333	7089	5374	73	49	89.03	-7344	-3110	6942	6820	121.90	56.951		
7800	5332	6989	5373	76	46	89.03	-7415	-3040	6943	6821	122.01	56.903		
7900	5332	6889	5373	78	44	89.03	-7487	-2970	6943	6820	122.15	56.836		
8000	5331	6789	5373	81	42	89.03	-7559	-2901	6943	6820	122.34	56.750		
8100	5331	6689	5373	83	40	89.03	-7630	-2831	6943	6820	122.58	56.641		
8200	5330	6589	5372	85	38	89.03	-7702	-2761	6943	6820	122.87	56.506		
8300	5330	6489	5372	88	36	89.03	-7773	-2691	6943	6820	123.23	56.342		
8400	5329	6389	5372	90	34	89.04	-7845	-2622	6943	6820	123.67	56.144		
8500	5329	6289	5371	93	32	89.04	-7917	-2552	6943	6819	124.20	55.907		
8600	5329	4401	4294	95	20	80.05	-8512	-1748	6944	6833	110.56	62.804		
8700	5328	4420	4313	97	20	80.21	-8517	-1748	6932	6818	113.34	61.156		
8800	5328	4440	4331	100	20	80.37	-8522	-1747	6921	6805	116.12	59.601		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 504H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM				Rule Assigned:								Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8900	5327	4459	4350	102	20	80.53	-8526	-1746	6912	6793	118.89	58.132	
9000	5327	4478	4369	105	20	80.69	-8531	-1745	6904	6782	121.66	56.745	
9100	5326	4498	4388	107	21	80.85	-8536	-1745	6897	6773	124.42	55.435	
9200	5326	4517	4407	110	21	81.00	-8541	-1744	6892	6765	127.17	54.197	
9300	5325	4537	4426	112	21	81.16	-8545	-1743	6888	6758	129.90	53.028	
9400	5325	4556	4444	114	21	81.32	-8550	-1743	6886	6753	132.62	51.923	
9500	5324	4576	4463	117	21	81.48	-8555	-1742	6885	6750	135.32	50.880	
9518	5324	4579	4467	117	21	81.51	-8556	-1742	6885	6749	135.81	50.697	CC
9600	5324	4595	4482	119	21	81.64	-8559	-1741	6885	6747	138.00	49.894	
9700	5323	4614	4501	122	21	81.80	-8564	-1741	6887	6747	140.66	48.963	ES
9800	5323	4634	4520	124	21	81.96	-8569	-1740	6890	6747	143.30	48.083	
9900	5322	4653	4539	127	21	82.11	-8574	-1739	6895	6749	145.92	47.253	
10,000	5322	4673	4557	129	21	82.27	-8578	-1739	6901	6753	148.51	46.469	
10,100	5321	4692	4576	132	21	82.43	-8583	-1738	6909	6757	151.07	45.730	
10,200	5321	4711	4595	134	22	82.59	-8588	-1737	6917	6764	153.61	45.032	
10,300	5320	4731	4614	137	22	82.75	-8593	-1737	6928	6771	156.12	44.374	
10,400	5320	4740	4622	139	22	82.82	-8595	-1736	6939	6781	158.51	43.776	
10,500	5319	4750	4632	141	22	82.90	-8597	-1736	6952	6791	160.89	43.210	
10,600	5319	4750	4632	144	22	82.90	-8597	-1736	6966	6803	163.15	42.698	
10,700	5318	4750	4632	146	22	82.90	-8597	-1736	6982	6817	165.38	42.219	
10,800	5318	4750	4632	149	22	82.90	-8597	-1736	6999	6832	167.57	41.770	
10,900	5317	4769	4651	151	22	83.06	-8601	-1736	7018	6848	169.85	41.317	
11,000	5316	4773	4655	154	22	83.09	-8602	-1736	7038	6866	171.99	40.919	
11,100	5316	4777	4659	156	22	83.12	-8603	-1736	7059	6885	174.09	40.548	
11,200	5315	4780	4662	159	22	83.15	-8603	-1736	7081	6905	176.14	40.203	
11,300	5315	4800	4681	161	22	83.31	-8607	-1737	7105	6927	178.27	39.858	
11,400	5314	4800	4681	164	22	83.31	-8607	-1737	7130	6950	180.21	39.567	
11,437	5314	4800	4681	164	22	83.31	-8607	-1737	7140	6959	180.91	39.466	SF



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 505H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0	0	159	159	0	0	-166.15	-7653	-1887	7882				
100	100	259	259	0	1	-166.15	-7653	-1887	7882	7881	0.88	8,973.442	
200	200	359	359	1	1	-166.15	-7653	-1887	7882	7880	1.60	4,940.673	
213	213	372	372	1	1	-166.15	-7653	-1887	7882	7880	1.69	4,660.831	
300	300	450	450	1	1	-166.15	-7653	-1887	7882	7880	2.28	3,457.108	
400	400	481	481	1	2	-166.15	-7653	-1887	7882	7880	2.74	2,873.332	
500	500	500	500	2	2	22.55	-7653	-1887	7882	7879	3.15	2,501.367	
600	600	537	537	2	2	22.57	-7654	-1887	7880	7876	3.61	2,182.291	
700	699	600	600	2	2	22.62	-7657	-1886	7875	7871	4.17	1,889.864	
800	799	600	600	3	2	22.67	-7657	-1886	7868	7863	4.52	1,739.852	
828	827	600	600	3	2	22.69	-7657	-1886	7865	7861	4.63	1,700.415	
900	898	600	600	3	2	22.69	-7657	-1886	7859	7854	4.88	1,609.167	
1000	996	649	649	3	2	22.70	-7660	-1886	7851	7846	5.42	1,449.258	
1100	1095	700	700	4	2	22.71	-7663	-1885	7845	7839	5.96	1,316.399	
1200	1194	700	700	4	2	22.71	-7663	-1885	7839	7832	6.33	1,238.203	
1300	1293	700	700	5	2	22.71	-7663	-1885	7834	7827	6.70	1,168.426	
1400	1392	762	762	5	2	22.72	-7669	-1884	7829	7822	7.30	1,072.817	
1500	1491	800	799	6	3	22.73	-7674	-1884	7826	7818	7.81	1,002.515	
1600	1590	800	799	6	3	22.73	-7674	-1884	7824	7816	8.18	956.066	
1700	1689	847	846	7	3	22.73	-7680	-1883	7823	7814	8.73	896.035	
1800	1788	900	898	7	3	22.73	-7688	-1882	7822	7813	9.30	841.342	
1826	1813	900	898	7	3	22.73	-7688	-1882	7822	7813	9.40	832.528	
1900	1886	900	898	7	3	22.73	-7688	-1882	7822	7813	9.67	808.601	
2000	1985	900	898	8	3	22.73	-7688	-1882	7824	7814	10.05	778.488	
2100	2084	960	958	8	3	22.73	-7698	-1880	7826	7815	10.65	734.871	
2200	2183	1000	997	9	3	22.73	-7705	-1879	7829	7818	11.17	700.872	
2300	2282	1000	997	9	3	22.73	-7705	-1879	7833	7822	11.54	678.550	
2400	2381	1045	1041	10	4	22.72	-7714	-1878	7838	7826	12.09	648.330	
2500	2480	1100	1094	10	4	22.71	-7725	-1877	7844	7832	12.67	619.112	
2600	2579	1100	1094	11	4	22.71	-7725	-1877	7851	7838	13.04	602.076	
2700	2678	1100	1094	11	4	22.71	-7725	-1877	7859	7846	13.41	586.161	
2800	2776	1158	1151	12	4	22.70	-7739	-1875	7868	7854	14.01	561.700	
2900	2875	1200	1191	12	4	22.68	-7749	-1873	7877	7863	14.54	541.916	
3000	2974	1200	1191	12	4	22.68	-7749	-1873	7888	7873	14.90	529.447	
3100	3073	1242	1232	13	4	22.67	-7760	-1872	7899	7884	15.43	511.975	
3200	3172	1300	1288	13	5	22.65	-7777	-1869	7911	7895	16.03	493.540	
3300	3271	1300	1288	14	5	22.65	-7777	-1869	7924	7908	16.39	483.615	
3400	3370	1300	1288	14	5	22.65	-7777	-1869	7939	7922	16.74	474.271	
3500	3469	1353	1338	15	5	22.63	-7792	-1867	7953	7936	17.32	459.313	
3600	3568	1400	1383	15	5	22.61	-7807	-1865	7969	7951	17.87	445.948	
3700	3666	1400	1383	16	5	22.61	-7807	-1865	7986	7968	18.22	438.407	
3800	3765	1400	1383	16	5	22.61	-7807	-1865	8004	7985	18.56	431.291	
3900	3864	1462	1441	17	6	22.58	-7828	-1862	8022	8003	19.18	418.275	
4000	3963	1500	1477	17	6	22.55	-7841	-1860	8041	8022	19.69	408.420	
4100	4062	1500	1477	18	6	22.55	-7841	-1860	8062	8041	20.02	402.623	
4200	4161	1549	1522	18	6	22.53	-7859	-1858	8083	8062	20.58	392.651	
4300	4260	1625	1593	18	6	22.48	-7887	-1854	8104	8083	21.28	380.898	
4400	4359	1722	1683	19	7	22.42	-7923	-1849	8126	8104	22.08	368.071	
4500	4457	1819	1773	19	8	22.36	-7959	-1843	8148	8125	22.88	356.063	
4600	4556	1917	1863	20	8	22.30	-7995	-1838	8169	8146	23.69	344.814	
4700	4655	2014	1953	20	9	22.24	-8031	-1833	8191	8166	24.50	334.264	
4800	4754	2111	2044	21	9	22.18	-8067	-1828	8213	8187	25.32	324.358	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 505H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4829	4783	2139	2070	21	10	22.17	-8078	-1827	8219	8193	25.55	321.618		
4850	4804	2160	2089	21	10	28.09	-8085	-1826	8223	8198	25.73	319.602		
4900	4852	2209	2134	21	10	36.26	-8103	-1823	8232	8206	26.16	314.711		
4950	4900	2259	2180	22	10	40.57	-8122	-1820	8239	8213	26.61	309.650		
5000	4947	2308	2226	22	11	43.23	-8140	-1818	8244	8217	27.08	304.451		
5050	4992	2357	2272	22	11	45.10	-8158	-1815	8246	8219	27.57	299.139		
5100	5036	2406	2317	23	11	46.57	-8176	-1813	8247	8219	28.08	293.737		
5150	5077	2453	2361	23	12	47.86	-8194	-1810	8245	8216	28.60	288.255		
5200	5117	2500	2404	23	12	49.08	-8211	-1808	8241	8212	29.15	282.708		
5250	5153	2545	2445	24	12	50.29	-8228	-1806	8235	8205	29.72	277.099		
5300	5187	2588	2485	25	12	51.56	-8244	-1803	8227	8197	30.31	271.436		
5350	5218	2629	2524	25	13	52.90	-8259	-1801	8217	8186	30.92	265.726		
5400	5246	2668	2560	26	13	54.33	-8273	-1799	8205	8173	31.56	259.977		
5450	5270	2704	2593	26	13	55.88	-8287	-1797	8191	8159	32.22	254.203		
5500	5291	2737	2624	27	13	57.53	-8299	-1795	8176	8143	32.91	248.420		
5550	5308	2768	2653	28	14	59.31	-8311	-1794	8159	8125	33.62	242.650		
5600	5322	2795	2678	29	14	61.20	-8321	-1792	8141	8106	34.36	236.919		
5650	5332	2820	2700	29	14	63.20	-8330	-1791	8121	8086	35.12	231.256		
5700	5338	2840	2720	30	14	65.31	-8337	-1790	8101	8065	35.89	225.692		
5754	5340	2858	2736	31	14	67.67	-8344	-1789	8077	8040	36.74	219.858		
5800	5340	2872	2749	32	14	67.77	-8349	-1788	8057	8019	37.49	214.932		
5900	5339	2902	2777	34	14	68.00	-8360	-1787	8013	7974	39.19	204.454		
6000	5339	2932	2805	36	15	68.22	-8371	-1785	7971	7930	41.02	194.321		
6100	5339	2962	2832	38	15	68.45	-8382	-1784	7929	7886	42.95	184.629		
6200	5338	2991	2860	40	15	68.67	-8393	-1782	7888	7843	44.96	175.430		
6300	5338	3021	2888	42	15	68.90	-8405	-1781	7848	7801	47.07	166.750		
6400	5338	3051	2915	44	15	69.12	-8416	-1779	7810	7760	49.24	158.592		
6500	5337	3081	2943	46	16	69.35	-8427	-1777	7772	7720	51.49	150.948		
6600	5337	3111	2971	48	16	69.57	-8438	-1776	7735	7681	53.79	143.797		
6700	5337	3141	2998	50	16	69.80	-8449	-1774	7699	7643	56.15	137.116		
6800	5336	3170	3026	53	16	70.02	-8460	-1773	7664	7605	58.56	130.878		
6900	5336	3200	3053	55	16	70.25	-8471	-1771	7630	7569	61.01	125.055		
7000	5335	3230	3081	57	17	70.47	-8482	-1770	7597	7534	63.51	119.618		
7100	5335	3260	3109	59	17	70.70	-8493	-1768	7566	7500	66.05	114.540		
7200	5335	3290	3136	62	17	70.93	-8504	-1767	7535	7466	68.63	109.795		
7300	5334	3319	3164	64	17	71.15	-8515	-1765	7505	7434	71.24	105.358		
7400	5334	3349	3192	66	17	71.38	-8526	-1763	7477	7403	73.88	101.207		
7500	5333	3379	3219	69	17	71.61	-8537	-1762	7450	7373	76.55	97.321		
7600	5333	3409	3247	71	18	71.83	-8548	-1760	7423	7344	79.24	93.679		
7700	5333	3439	3274	73	18	72.06	-8559	-1759	7398	7316	81.96	90.264		
7800	5332	3468	3302	76	18	72.29	-8570	-1757	7374	7290	84.71	87.059		
7900	5332	3498	3330	78	18	72.51	-8581	-1756	7352	7264	87.47	84.049		
8000	5331	3528	3357	81	18	72.74	-8592	-1754	7330	7240	90.25	81.219		
8100	5331	3558	3385	83	19	72.97	-8603	-1752	7310	7217	93.05	78.558		
8200	5330	3587	3413	85	19	73.20	-8614	-1751	7290	7195	95.86	76.053		
8300	5330	3617	3440	88	19	73.42	-8625	-1749	7272	7174	98.68	73.694		
8400	5329	3647	3468	90	19	73.65	-8636	-1748	7256	7154	101.52	71.471		
8500	5329	3677	3495	93	19	73.88	-8647	-1746	7240	7136	104.36	69.374		
8600	5329	3707	3523	95	20	74.10	-8658	-1745	7226	7118	107.21	67.395		
8700	5328	3736	3550	97	20	74.33	-8669	-1743	7213	7102	110.07	65.527		
8800	5328	3766	3578	100	20	74.56	-8681	-1742	7201	7088	112.93	63.763		
8900	5327	3796	3606	102	20	74.79	-8692	-1740	7190	7074	115.79	62.096		



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 505H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
9000	5327	3825	3633	105	20	75.01	-8703	-1738	7181	7062	118.65	60.520
9100	5326	3855	3661	107	21	75.24	-8714	-1737	7172	7051	121.51	59.029
9200	5326	3885	3688	110	21	75.47	-8725	-1735	7166	7041	124.36	57.619
9300	5325	3915	3716	112	21	75.70	-8736	-1734	7160	7033	127.21	56.285
9400	5325	3944	3743	114	21	75.92	-8747	-1732	7156	7026	130.05	55.022
9500	5324	3974	3771	117	21	76.15	-8758	-1731	7153	7020	132.88	53.826
9600	5324	4004	3799	119	21	76.38	-8769	-1729	7151	7015	135.71	52.693
9691	5323	4031	3824	122	22	76.59	-8779	-1728	7150	7012	138.26	51.717 CC
9700	5323	4034	3826	122	22	76.61	-8780	-1728	7150	7012	138.52	51.620
9800	5323	4063	3854	124	22	76.83	-8791	-1726	7151	7010	141.31	50.604
9900	5322	4093	3881	127	22	77.06	-8802	-1724	7153	7009	144.09	49.642 ES
10,000	5322	4123	3909	129	22	77.29	-8813	-1723	7156	7009	146.86	48.730
10,100	5321	4152	3936	132	22	77.52	-8824	-1721	7161	7011	149.60	47.866
10,200	5321	4182	3964	134	23	77.74	-8835	-1720	7167	7014	152.33	47.048
10,300	5320	4212	3991	137	23	77.97	-8846	-1718	7174	7019	155.03	46.273
10,400	5320	4241	4019	139	23	78.20	-8857	-1717	7182	7024	157.71	45.539
10,500	5319	4271	4046	141	23	78.42	-8868	-1715	7192	7031	160.37	44.844
10,600	5319	4301	4074	144	23	78.65	-8879	-1714	7203	7040	163.01	44.187
10,700	5318	4330	4101	146	24	78.88	-8890	-1712	7215	7049	165.61	43.564
10,800	5318	4360	4129	149	24	79.10	-8901	-1710	7228	7060	168.19	42.976
10,900	5317	5993	4918	151	44	85.57	-9862	-1027	7233	7040	193.20	37.438
11,000	5316	6093	4917	154	46	85.57	-9934	-957	7232	7035	197.81	36.562
11,100	5316	6193	4916	156	48	85.57	-10,005	-887	7232	7029	202.47	35.717
11,200	5315	6293	4916	159	50	85.57	-10,076	-816	7231	7024	207.17	34.904
11,300	5315	6393	4915	161	53	85.57	-10,147	-746	7230	7018	211.90	34.122
11,400	5314	6493	4915	164	55	85.57	-10,218	-675	7230	7013	216.65	33.370
11,437	5314	6530	4915	164	56	85.57	-10,244	-650	7229	7011	218.41	33.100 SF



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 506H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	159	159	0	0	-166.25	-7619	-1865	7844					
100	100	259	259	0	1	-166.25	-7619	-1865	7844	7843	0.88	8,930.692		
200	200	359	359	1	1	-166.25	-7619	-1865	7844	7843	1.60	4,917.135		
213	213	372	372	1	1	-166.25	-7619	-1865	7844	7843	1.69	4,638.626		
300	300	450	450	1	1	-166.25	-7619	-1865	7844	7842	2.28	3,440.638		
400	400	481	481	1	2	-166.25	-7620	-1865	7845	7842	2.75	2,857.201		
500	500	500	500	2	2	22.45	-7620	-1865	7845	7841	3.15	2,489.407		
600	600	539	539	2	2	22.47	-7621	-1865	7842	7839	3.62	2,167.974		
700	699	600	600	2	2	22.52	-7623	-1864	7838	7833	4.17	1,880.758		
800	799	600	600	3	2	22.57	-7623	-1864	7830	7826	4.52	1,731.478		
828	827	600	600	3	2	22.59	-7623	-1864	7828	7823	4.63	1,692.234		
900	898	600	600	3	2	22.59	-7623	-1864	7822	7817	4.88	1,601.435		
1000	996	654	654	3	2	22.60	-7626	-1863	7814	7808	5.43	1,438.245		
1100	1095	700	700	4	2	22.61	-7630	-1863	7807	7801	5.96	1,310.040		
1200	1194	700	700	4	2	22.61	-7630	-1863	7801	7795	6.33	1,232.235		
1300	1293	740	740	5	2	22.62	-7634	-1862	7796	7789	6.85	1,138.755		
1400	1392	800	799	5	3	22.62	-7640	-1861	7792	7784	7.43	1,048.614		
1500	1491	800	799	6	3	22.62	-7640	-1861	7788	7781	7.81	997.649		
1600	1590	827	826	6	3	22.62	-7644	-1860	7786	7778	8.28	940.304		
1700	1689	869	868	7	3	22.62	-7649	-1859	7784	7776	8.81	883.753		
1800	1788	969	967	7	3	22.62	-7663	-1856	7783	7774	9.55	814.972		
1900	1886	1069	1066	7	4	22.62	-7677	-1853	7782	7772	10.30	755.701		
2000	1985	1169	1165	8	4	22.61	-7690	-1850	7781	7770	11.04	704.516		
2100	2084	1269	1264	8	4	22.61	-7704	-1848	7780	7768	11.80	659.454		
2200	2183	1369	1363	9	5	22.61	-7718	-1845	7779	7766	12.55	619.736		
2300	2282	1469	1462	9	5	22.61	-7731	-1842	7777	7764	13.31	584.452		
2400	2381	1569	1561	10	6	22.61	-7745	-1839	7776	7762	14.06	552.910		
2500	2480	1669	1660	10	6	22.60	-7759	-1836	7775	7760	14.82	524.552		
2600	2579	1769	1759	11	6	22.60	-7772	-1834	7774	7758	15.58	498.927		
2700	2678	1869	1858	11	7	22.60	-7786	-1831	7773	7756	16.34	475.660		
2800	2776	1969	1957	12	7	22.60	-7800	-1828	7772	7755	17.10	454.444		
2900	2875	2069	2056	12	8	22.60	-7813	-1825	7770	7753	17.86	435.021		
3000	2974	2169	2155	12	8	22.59	-7827	-1822	7769	7751	18.62	417.175		
3100	3073	2269	2254	13	8	22.59	-7841	-1820	7768	7749	19.39	400.722		
3200	3172	2369	2353	13	9	22.59	-7854	-1817	7767	7747	20.15	385.507		
3300	3271	2469	2452	14	9	22.59	-7868	-1814	7766	7745	20.91	371.396		
3400	3370	2569	2551	14	10	22.59	-7881	-1811	7765	7743	21.67	358.272		
3500	3469	2669	2650	15	10	22.59	-7895	-1809	7763	7741	22.44	346.038		
3600	3568	2769	2749	15	11	22.58	-7909	-1806	7762	7739	23.20	334.605		
3700	3666	2869	2848	16	11	22.58	-7922	-1803	7761	7737	23.96	323.897		
3800	3765	2969	2947	16	11	22.58	-7936	-1800	7760	7735	24.73	313.849		
3900	3864	3069	3046	17	12	22.58	-7950	-1797	7759	7733	25.49	304.401		
4000	3963	3169	3145	17	12	22.58	-7963	-1795	7758	7731	26.25	295.500		
4100	4062	3269	3244	18	13	22.57	-7977	-1792	7756	7729	27.02	287.102		
4200	4161	3369	3343	18	13	22.57	-7991	-1789	7755	7728	27.78	279.164		
4300	4260	3469	3442	18	13	22.57	-8004	-1786	7754	7726	28.54	271.650		
4400	4359	3569	3541	19	14	22.57	-8018	-1783	7753	7724	29.31	264.528		
4500	4457	3669	3640	19	14	22.57	-8032	-1781	7752	7722	30.07	257.766		
4600	4556	3769	3739	20	15	22.56	-8045	-1778	7751	7720	30.84	251.339		
4700	4655	3869	3838	20	15	22.56	-8059	-1775	7749	7718	31.60	245.222		
4800	4754	3969	3937	21	15	22.56	-8073	-1772	7748	7716	32.37	239.394		
4829	4783	3998	3966	21	16	22.56	-8077	-1772	7748	7715	32.59	237.767		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 506H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4850	4804	4019	3987	21	16	28.87	-8080	-1771	7748	7715	32.75	236.563	
4900	4852	4069	4036	21	16	37.95	-8086	-1770	7745	7712	33.15	233.634	
4950	4900	4118	4085	22	16	43.17	-8093	-1768	7741	7707	33.57	230.593	
5000	4947	4167	4133	22	16	46.72	-8100	-1767	7734	7700	34.00	227.462	
5050	4992	4214	4180	22	16	49.48	-8106	-1765	7726	7691	34.45	224.253	
5100	5036	4261	4226	23	17	51.84	-8113	-1764	7715	7680	34.91	220.975	
5150	5077	4305	4270	23	17	54.02	-8119	-1763	7703	7668	35.40	217.634	
5200	5117	4348	4312	23	17	56.12	-8124	-1762	7689	7654	35.89	214.230	
5250	5153	4388	4352	24	17	58.23	-8130	-1761	7674	7638	36.41	210.765	
5300	5187	4426	4390	25	17	60.37	-8135	-1760	7657	7620	36.95	207.237	
5350	5218	4462	4425	25	17	62.58	-8140	-1759	7639	7601	37.51	203.648	
5400	5246	4494	4457	26	18	64.86	-8144	-1758	7620	7582	38.10	200.000	
5450	5270	4524	4487	26	18	67.20	-8148	-1757	7599	7561	38.71	196.298	
5500	5291	4550	4513	27	18	69.62	-8152	-1756	7578	7539	39.36	192.550	
5550	5308	4573	4535	28	18	72.08	-8155	-1755	7556	7516	40.03	188.770	
5600	5322	4592	4554	29	18	74.57	-8158	-1755	7533	7493	40.73	184.975	
5650	5332	4608	4570	29	18	77.08	-8160	-1755	7510	7469	41.45	181.186	
5700	5338	4619	4581	30	18	79.56	-8162	-1754	7487	7445	42.20	177.426	
5754	5340	4628	4589	31	18	82.19	-8163	-1754	7462	7419	43.02	173.446	
5800	5340	4633	4595	32	18	82.24	-8163	-1754	7441	7397	43.76	170.053	
5900	5339	4644	4606	34	18	82.34	-8165	-1753	7395	7350	45.44	162.745	
6000	5339	4656	4617	36	18	82.43	-8167	-1753	7351	7304	47.25	155.577	
6100	5339	4667	4628	38	18	82.53	-8168	-1753	7307	7258	49.16	148.630	
6200	5338	4678	4640	40	18	82.63	-8170	-1753	7265	7214	51.18	141.960	
6300	5338	4690	4651	42	18	82.73	-8171	-1752	7224	7171	53.27	135.599	
6400	5338	4701	4662	44	18	82.83	-8173	-1752	7184	7128	55.45	129.564	
6500	5337	4712	4673	46	18	82.93	-8174	-1752	7145	7087	57.69	123.858	
6600	5337	4724	4685	48	19	83.03	-8176	-1751	7107	7047	59.99	118.480	
6700	5337	4735	4696	50	19	83.13	-8177	-1751	7071	7008	62.34	113.418	
6800	5336	4746	4707	53	19	83.22	-8179	-1751	7035	6971	64.75	108.662	
6900	5336	4758	4718	55	19	83.32	-8180	-1750	7001	6934	67.19	104.196	
7000	5335	4769	4730	57	19	83.42	-8182	-1750	6969	6899	69.68	100.005	
7100	5335	4780	4741	59	19	83.52	-8184	-1750	6937	6865	72.21	96.072	
7200	5335	4792	4752	62	19	83.62	-8185	-1749	6907	6832	74.76	92.382	
7300	5334	4803	4763	64	19	83.72	-8187	-1749	6878	6800	77.35	88.920	
7400	5334	4814	4774	66	19	83.81	-8188	-1749	6850	6770	79.96	85.670	
7500	5333	4826	4786	69	19	83.91	-8190	-1748	6824	6741	82.59	82.619	
7600	5333	4837	4797	71	19	84.01	-8191	-1748	6799	6714	85.25	79.754	
7700	5333	4848	4808	73	19	84.11	-8193	-1748	6775	6687	87.92	77.063	
7800	5332	4852	4811	76	19	84.14	-8193	-1748	6753	6662	90.57	74.561	
7900	5332	4852	4811	78	19	84.14	-8193	-1748	6732	6639	93.22	72.220	
8000	5331	4852	4811	81	19	84.14	-8193	-1748	6713	6617	95.87	70.018	
8100	5331	4852	4811	83	19	84.14	-8193	-1748	6695	6596	98.54	67.944	
8200	5330	4872	4831	85	19	84.31	-8196	-1747	6678	6577	101.30	65.929	
8300	5330	4878	4837	88	19	84.37	-8197	-1747	6663	6559	103.99	64.076	
8400	5329	4885	4844	90	19	84.42	-8198	-1746	6650	6543	106.69	62.328	
8500	5329	4900	4859	93	19	84.56	-8201	-1745	6638	6528	109.42	60.659	
8600	5329	4900	4859	95	19	84.56	-8201	-1745	6627	6515	112.08	59.125	
8700	5328	4900	4859	97	19	84.56	-8201	-1745	6618	6503	114.73	57.680	
8800	5328	4923	4882	100	19	84.76	-8206	-1743	6610	6492	117.49	56.259	
8900	5327	4938	4896	102	19	84.88	-8209	-1741	6604	6483	120.19	54.941	
9000	5327	4950	4907	105	20	84.98	-8212	-1740	6599	6476	122.87	53.706	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 506H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM				Rule Assigned:									Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9100	5326	4978	4934	107	20	85.21	-8219	-1735	6595	6470	125.62	52.501		
9200	5326	5006	4961	110	20	85.44	-8227	-1730	6593	6465	128.36	51.365		
9300	5325	5043	4995	112	20	85.74	-8239	-1722	6593	6461	131.14	50.270		
9303	5325	5045	4996	112	20	85.75	-8240	-1722	6593	6461	131.24	50.234		
9400	5325	5094	5040	114	20	86.14	-8257	-1709	6593	6459	134.00	49.201		
9500	5324	5166	5101	117	21	86.67	-8288	-1686	6595	6458	137.01	48.133		
9600	5324	5272	5182	119	22	87.38	-8340	-1643	6597	6457	140.31	47.016		
9700	5323	5431	5281	122	23	88.24	-8434	-1560	6600	6455	144.27	45.743		
9800	5323	5659	5361	124	26	88.95	-8589	-1416	6601	6451	149.56	44.135		
9900	5322	5834	5372	127	29	89.05	-8714	-1294	6601	6446	154.79	42.642		
10,000	5322	5934	5371	129	30	89.05	-8785	-1224	6600	6441	159.06	41.495		
10,100	5321	6034	5371	132	32	89.05	-8856	-1153	6600	6436	163.43	40.381		
10,200	5321	6134	5370	134	34	89.05	-8927	-1083	6599	6431	167.89	39.305		
10,300	5320	6234	5369	137	36	89.05	-8998	-1013	6598	6426	172.43	38.267		
10,400	5320	6334	5369	139	38	89.05	-9070	-942	6598	6421	177.03	37.270		
10,500	5319	6434	5368	141	41	89.05	-9141	-872	6597	6415	181.68	36.312		
10,600	5319	6534	5368	144	43	89.05	-9212	-802	6596	6410	186.38	35.394		
10,700	5318	6634	5367	146	45	89.05	-9283	-732	6596	6405	191.11	34.513		
10,800	5318	6734	5366	149	47	89.05	-9354	-661	6595	6399	195.88	33.670		
10,900	5317	6834	5366	151	50	89.04	-9425	-591	6595	6394	200.67	32.862		
11,000	5316	6934	5365	154	52	89.04	-9496	-521	6594	6389	205.50	32.089		
11,100	5316	7034	5365	156	54	89.04	-9567	-450	6593	6383	210.34	31.347		
11,200	5315	7134	5364	159	57	89.04	-9638	-380	6593	6378	215.20	30.636		
11,300	5315	7234	5363	161	59	89.04	-9710	-310	6592	6372	220.08	29.954		
11,400	5314	7334	5363	164	62	89.04	-9781	-239	6592	6367	224.97	29.300		
11,437	5314	7371	5363	164	63	89.04	-9807	-214	6591	6365	226.77	29.066	CC, ES, SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 507H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	159	159	0	0	-166.10	-7670	-1898	7901					
100	100	259	259	0	1	-166.10	-7670	-1898	7901	7900	0.88	8,995.227		
200	200	359	359	1	1	-166.10	-7670	-1898	7901	7899	1.60	4,952.668		
213	213	372	372	1	1	-166.10	-7670	-1898	7901	7899	1.69	4,672.146		
300	300	450	450	1	1	-166.10	-7670	-1898	7901	7899	2.28	3,465.501		
400	400	479	479	1	2	-166.10	-7670	-1898	7901	7899	2.74	2,886.037		
500	500	500	500	2	2	22.60	-7670	-1898	7901	7898	3.15	2,507.448		
600	600	500	500	2	2	22.61	-7670	-1898	7899	7896	3.49	2,264.737		
700	699	559	559	2	2	22.66	-7672	-1898	7894	7890	4.03	1,958.424		
800	799	600	600	3	2	22.73	-7673	-1899	7887	7883	4.52	1,744.127		
828	827	600	600	3	2	22.75	-7673	-1899	7885	7880	4.63	1,704.597		
900	898	600	600	3	2	22.75	-7673	-1899	7879	7874	4.88	1,613.136		
1000	996	639	639	3	2	22.76	-7676	-1899	7871	7866	5.38	1,462.573		
1100	1095	700	700	4	2	22.79	-7680	-1900	7865	7859	5.96	1,319.741		
1200	1194	700	700	4	2	22.79	-7680	-1900	7859	7852	6.33	1,241.354		
1300	1293	700	700	5	2	22.79	-7680	-1900	7854	7847	6.70	1,171.405		
1400	1392	746	745	5	2	22.80	-7685	-1901	7850	7842	7.24	1,084.235		
1500	1491	800	799	6	3	22.82	-7691	-1902	7847	7839	7.81	1,005.240		
1600	1590	800	799	6	3	22.82	-7691	-1902	7845	7836	8.18	958.660		
1700	1689	800	799	7	3	22.82	-7691	-1902	7844	7835	8.56	916.297		
1774	1762	846	845	7	3	22.84	-7697	-1902	7843	7834	9.00	871.072		
1800	1788	853	852	7	3	22.84	-7697	-1903	7843	7834	9.13	859.381		
1900	1886	900	898	7	3	22.86	-7704	-1904	7844	7834	9.67	811.006		
2000	1985	900	898	8	3	22.86	-7704	-1904	7846	7835	10.05	780.788		
2100	2084	900	898	8	3	22.86	-7704	-1904	7848	7838	10.42	752.934		
2200	2183	960	957	9	3	22.88	-7714	-1905	7852	7841	11.02	712.535		
2300	2282	1000	997	9	3	22.89	-7722	-1907	7856	7845	11.54	680.790		
2400	2381	1000	997	10	3	22.89	-7722	-1907	7861	7850	11.91	659.965		
2500	2480	1040	1036	10	4	22.90	-7729	-1908	7868	7855	12.44	632.667		
2600	2579	1100	1094	11	4	22.92	-7742	-1910	7875	7862	13.03	604.332		
2700	2678	1100	1094	11	4	22.92	-7742	-1910	7883	7870	13.40	588.327		
2800	2776	1100	1094	12	4	22.92	-7742	-1910	7892	7878	13.76	573.359		
2900	2875	1147	1140	12	4	22.93	-7753	-1912	7902	7888	14.32	551.963		
3000	2974	1200	1191	12	4	22.94	-7766	-1914	7913	7898	14.88	531.679		
3100	3073	1200	1191	13	4	22.94	-7766	-1914	7925	7910	15.24	519.886		
3200	3172	9421	4938	13	114	55.64	-5834	-5428	7900	7777	123.45	63.994		
3300	3271	9409	4938	14	114	55.56	-5842	-5420	7872	7748	123.89	63.544		
3400	3370	9397	4938	14	114	55.47	-5850	-5412	7845	7721	124.31	63.112		
3500	3469	9386	4938	15	113	55.38	-5859	-5403	7819	7695	124.71	62.699		
3600	3568	9374	4938	15	113	55.29	-5867	-5395	7795	7670	125.11	62.305		
3700	3666	9362	4938	16	113	55.20	-5875	-5387	7771	7646	125.49	61.929		
3800	3765	9350	4937	16	112	55.12	-5884	-5378	7749	7623	125.85	61.573		
3900	3864	9339	4937	17	112	55.03	-5892	-5370	7728	7602	126.20	61.235		
4000	3963	9327	4937	17	112	54.94	-5900	-5362	7708	7582	126.54	60.916		
4100	4062	9315	4937	18	111	54.85	-5909	-5354	7690	7563	126.86	60.616		
4200	4161	9303	4937	18	111	54.76	-5917	-5345	7672	7545	127.16	60.335		
4300	4260	9292	4937	18	111	54.67	-5925	-5337	7656	7529	127.45	60.073		
4400	4359	9280	4937	19	111	54.59	-5934	-5329	7642	7514	127.72	59.829		
4500	4457	9268	4937	19	110	54.50	-5942	-5321	7628	7500	127.98	59.605		
4600	4556	9256	4937	20	110	54.41	-5950	-5312	7616	7487	128.21	59.400		
4700	4655	9245	4937	20	110	54.32	-5959	-5304	7605	7476	128.43	59.213		
4800	4754	9233	4937	21	109	54.23	-5967	-5296	7595	7466	128.63	59.045		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 507H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: Reference		0-MWD+HDGM Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4829	4783	9230	4937	21	109	54.21	-5969	-5293	7592	7464	128.68	59.001		
4850	4804	9227	4937	21	109	60.62	-5971	-5291	7591	7462	128.72	58.971		
4900	4852	9217	4937	21	109	69.79	-5978	-5285	7587	7458	128.75	58.926		
4950	4900	9204	4937	22	109	74.85	-5987	-5275	7583	7454	128.71	58.915		
5000	4947	9187	4937	22	108	78.00	-6000	-5263	7579	7451	128.61	58.935		
5050	4992	9166	4937	22	108	80.13	-6014	-5249	7576	7448	128.44	58.987		
5100	5036	9142	4937	23	107	81.62	-6031	-5232	7574	7446	128.22	59.069		
5150	5077	9115	4937	23	106	82.71	-6051	-5212	7571	7444	127.95	59.176		
5200	5117	9084	4937	23	106	83.51	-6073	-5191	7569	7442	127.63	59.308		
5250	5153	9050	4937	24	105	84.11	-6097	-5167	7568	7440	127.27	59.460		
5300	5187	9014	4936	25	104	84.55	-6122	-5141	7566	7439	126.89	59.629		
5350	5218	8975	4936	25	103	84.88	-6150	-5114	7565	7438	126.48	59.811		
5400	5246	8933	4936	26	102	85.12	-6180	-5085	7564	7438	126.06	60.004		
5450	5270	8890	4936	26	101	85.29	-6210	-5054	7563	7437	125.62	60.202		
5500	5291	8845	4936	27	100	85.42	-6243	-5022	7562	7437	125.19	60.404		
5550	5308	8798	4936	28	98	85.51	-6276	-4989	7561	7437	124.76	60.606		
5600	5322	8750	4936	29	97	85.58	-6310	-4955	7561	7436	124.34	60.806		
5650	5332	8701	4936	29	96	85.64	-6345	-4921	7560	7436	123.93	61.002		
5700	5338	8651	4935	30	95	85.68	-6380	-4886	7560	7436	123.54	61.192		
5754	5340	8598	4935	31	93	85.72	-6418	-4848	7559	7436	123.14	61.390		
5800	5340	8551	4935	32	92	85.72	-6451	-4815	7559	7436	122.81	61.550		
5900	5339	8451	4935	34	90	85.72	-6522	-4745	7558	7436	122.17	61.866		
6000	5339	8351	4935	36	87	85.72	-6593	-4675	7557	7436	121.61	62.143		
6100	5339	8251	4934	38	85	85.72	-6664	-4604	7556	7435	121.12	62.388		
6200	5338	8151	4934	40	82	85.72	-6735	-4534	7556	7435	120.69	62.604		
6300	5338	8051	4934	42	80	85.72	-6806	-4463	7555	7434	120.31	62.795		
6400	5338	7951	4933	44	77	85.72	-6877	-4393	7554	7434	119.97	62.963		
6500	5337	7851	4933	46	75	85.72	-6947	-4322	7553	7433	119.68	63.111		
6600	5337	7751	4933	48	72	85.72	-7018	-4252	7552	7433	119.42	63.240		
6700	5337	7651	4932	50	70	85.72	-7089	-4181	7552	7432	119.20	63.353		
6800	5336	7551	4932	53	67	85.73	-7160	-4111	7551	7432	119.00	63.449		
6900	5336	7451	4932	55	65	85.73	-7231	-4041	7550	7431	118.84	63.530		
7000	5335	7351	4932	57	62	85.73	-7302	-3970	7549	7430	118.70	63.596		
7100	5335	7251	4931	59	60	85.73	-7373	-3900	7548	7430	118.60	63.647		
7200	5335	7151	4931	62	58	85.73	-7444	-3829	7547	7429	118.51	63.684		
7300	5334	7051	4931	64	55	85.73	-7515	-3759	7547	7428	118.46	63.705		
7400	5334	6951	4930	66	53	85.73	-7586	-3688	7546	7427	118.44	63.712		
7500	5333	6851	4930	69	50	85.73	-7657	-3618	7545	7427	118.44	63.702		
7600	5333	3142	3012	71	15	70.34	-8433	-2022	7533	7455	77.21	97.560		
7700	5333	3163	3031	73	16	70.50	-8440	-2023	7511	7432	79.82	94.104		
7800	5332	3184	3051	76	16	70.66	-8447	-2024	7492	7409	82.45	90.863		
7900	5332	3204	3070	78	16	70.82	-8454	-2025	7473	7388	85.09	87.820		
8000	5331	3225	3089	81	16	70.98	-8462	-2026	7455	7368	87.75	84.962		
8100	5331	3246	3109	83	16	71.13	-8469	-2027	7439	7349	90.42	82.275		
8200	5330	3266	3128	85	16	71.29	-8476	-2029	7424	7331	93.09	79.748		
8300	5330	3287	3147	88	16	71.45	-8483	-2030	7410	7315	95.78	77.368		
8400	5329	3308	3167	90	16	71.61	-8490	-2031	7398	7299	98.47	75.127		
8500	5329	3328	3186	93	17	71.77	-8498	-2032	7387	7286	101.17	73.015		
8600	5329	3349	3205	95	17	71.92	-8505	-2033	7377	7273	103.86	71.023		
8700	5328	3370	3225	97	17	72.08	-8512	-2034	7368	7262	106.56	69.144		
8800	5328	3390	3244	100	17	72.24	-8519	-2036	7361	7252	109.26	67.371		
8900	5327	3411	3263	102	17	72.40	-8527	-2037	7355	7243	111.95	65.696		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 507H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM				Offset					Rule Assigned:				Offset Well Error:	0 ft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
9000	5327	3432	3283	105	17	72.56	-8534	-2038	7350	7235	114.64	64.113		
9100	5326	3452	3302	107	17	72.71	-8541	-2039	7347	7229	117.32	62.618		
9200	5326	3473	3321	110	18	72.87	-8548	-2040	7344	7224	120.00	61.204		
9300	5325	3494	3341	112	18	73.03	-8556	-2041	7344	7221	122.66	59.868		
9315	5325	3497	3344	112	18	73.05	-8557	-2042	7344	7221	123.06	59.676	CC	
9400	5325	3514	3360	114	18	73.19	-8563	-2043	7344	7219	125.32	58.604		
9500	5324	3535	3379	117	18	73.34	-8570	-2044	7346	7218	127.96	57.408	ES	
9600	5324	3556	3399	119	18	73.50	-8577	-2045	7349	7218	130.58	56.277		
9700	5323	3576	3418	122	18	73.66	-8585	-2046	7353	7220	133.20	55.206		
9800	5323	3597	3437	124	18	73.82	-8592	-2047	7359	7223	135.79	54.193		
9900	5322	3617	3456	127	18	73.97	-8599	-2048	7366	7227	138.36	53.235		
10,000	5322	3638	3476	129	19	74.13	-8606	-2050	7374	7233	140.92	52.328		
10,100	5321	3659	3495	132	19	74.29	-8613	-2051	7384	7240	143.46	51.470		
10,200	5321	3679	3514	134	19	74.44	-8621	-2052	7394	7248	145.97	50.658		
10,300	5320	3700	3533	137	19	74.60	-8628	-2053	7407	7258	148.46	49.890		
10,400	5320	3721	3553	139	19	74.76	-8635	-2054	7420	7269	150.92	49.164		
10,500	5319	3741	3572	141	19	74.92	-8642	-2055	7434	7281	153.36	48.477		
10,600	5319	3762	3591	144	19	75.07	-8649	-2057	7450	7295	155.77	47.829		
10,700	5318	3782	3611	146	19	75.23	-8657	-2058	7467	7309	158.16	47.216		
10,800	5318	3803	3630	149	20	75.38	-8664	-2059	7486	7325	160.51	46.637		
10,900	5317	3824	3649	151	20	75.54	-8671	-2060	7505	7343	162.84	46.091		
11,000	5316	3844	3668	154	20	75.70	-8678	-2061	7526	7361	165.14	45.576		
11,100	5316	3865	3688	156	20	75.85	-8686	-2062	7548	7381	167.40	45.090		
11,200	5315	3885	3707	159	20	76.01	-8693	-2064	7572	7402	169.64	44.633		
11,300	5315	3906	3726	161	20	76.17	-8700	-2065	7596	7424	171.84	44.203		
11,400	5314	3926	3745	164	20	76.32	-8707	-2066	7622	7447	174.01	43.798		
11,437	5314	3934	3752	164	20	76.38	-8710	-2066	7631	7456	174.80	43.656	SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 508H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0	0	159	159	0	0	-166.34	-7585	-1844	7806				
100	100	259	259	0	1	-166.34	-7585	-1844	7806	7806	0.88	8,887.581	
200	200	359	359	1	1	-166.34	-7585	-1844	7806	7805	1.60	4,893.399	
213	213	372	372	1	1	-166.34	-7585	-1844	7806	7805	1.69	4,616.234	
300	300	450	450	1	1	-166.34	-7585	-1844	7806	7804	2.28	3,424.029	
400	400	523	523	1	2	-166.34	-7586	-1843	7807	7804	2.89	2,701.067	
500	500	600	600	2	2	22.34	-7587	-1840	7806	7802	3.49	2,233.540	
600	600	657	657	2	2	22.35	-7589	-1837	7802	7798	4.03	1,935.079	
700	699	724	723	2	2	22.38	-7591	-1832	7795	7791	4.62	1,688.790	
800	799	800	799	3	3	22.42	-7594	-1824	7786	7781	5.25	1,483.238	
828	827	809	808	3	3	22.44	-7595	-1823	7783	7778	5.39	1,445.168	
900	898	870	869	3	3	22.40	-7598	-1816	7775	7769	5.87	1,323.668	
1000	996	969	967	3	3	22.35	-7603	-1804	7763	7757	6.61	1,173.911	
1100	1095	1068	1065	4	4	22.30	-7609	-1792	7752	7745	7.36	1,052.963	
1200	1194	1167	1163	4	4	22.24	-7614	-1780	7741	7732	8.12	953.571	
1300	1293	1266	1262	5	4	22.19	-7619	-1768	7729	7720	8.88	870.584	
1400	1392	1366	1360	5	5	22.13	-7624	-1757	7718	7708	9.64	800.391	
1500	1491	1465	1458	6	5	22.08	-7630	-1745	7707	7696	10.41	740.302	
1600	1590	1564	1556	6	6	22.03	-7635	-1733	7695	7684	11.18	688.323	
1700	1689	1663	1654	7	6	21.97	-7640	-1721	7684	7672	11.95	642.943	
1800	1788	1762	1753	7	6	21.92	-7646	-1709	7673	7660	12.72	602.997	
1900	1886	1861	1851	7	7	21.86	-7651	-1697	7661	7648	13.50	567.577	
2000	1985	1960	1949	8	7	21.80	-7656	-1685	7650	7636	14.27	535.964	
2100	2084	2059	2047	8	8	21.75	-7662	-1673	7639	7624	15.05	507.581	
2200	2183	2158	2146	9	8	21.69	-7667	-1661	7627	7611	15.83	481.961	
2300	2282	2257	2244	9	8	21.64	-7672	-1649	7616	7599	16.60	458.724	
2400	2381	2356	2342	10	9	21.58	-7678	-1637	7605	7587	17.38	437.553	
2500	2480	2455	2440	10	9	21.53	-7683	-1626	7593	7575	18.16	418.188	
2600	2579	2555	2538	11	10	21.47	-7688	-1614	7582	7563	18.94	400.407	
2700	2678	2654	2637	11	10	21.41	-7694	-1602	7571	7551	19.71	384.026	
2800	2776	2753	2735	12	10	21.36	-7699	-1590	7560	7539	20.49	368.885	
2900	2875	2852	2833	12	11	21.30	-7704	-1578	7548	7527	21.27	354.851	
3000	2974	2951	2931	12	11	21.24	-7710	-1566	7537	7515	22.05	341.806	
3100	3073	3050	3030	13	12	21.19	-7715	-1554	7526	7503	22.83	329.650	
3200	3172	3149	3128	13	12	21.13	-7720	-1542	7515	7491	23.61	318.296	
3300	3271	3248	3226	14	12	21.07	-7725	-1530	7504	7479	24.39	307.667	
3400	3370	3347	3324	14	13	21.01	-7731	-1518	7492	7467	25.17	297.695	
3500	3469	3446	3422	15	13	20.96	-7736	-1507	7481	7455	25.95	288.323	
3600	3568	3545	3521	15	14	20.90	-7741	-1495	7470	7443	26.73	279.497	
3700	3666	3644	3619	16	14	20.84	-7747	-1483	7459	7431	27.51	271.172	
3800	3765	3744	3717	16	14	20.78	-7752	-1471	7448	7419	28.28	263.306	
3900	3864	3843	3815	17	15	20.72	-7757	-1459	7436	7407	29.06	255.863	
4000	3963	3942	3914	17	15	20.66	-7763	-1447	7425	7395	29.84	248.808	
4100	4062	4041	4012	18	16	20.61	-7768	-1435	7414	7383	30.62	242.114	
4200	4161	4140	4110	18	16	20.55	-7773	-1423	7403	7371	31.40	235.752	
4300	4260	4239	4208	18	16	20.49	-7779	-1411	7392	7360	32.18	229.699	
4400	4359	4338	4306	19	17	20.43	-7784	-1399	7381	7348	32.96	223.932	
4500	4457	4423	4390	19	17	20.38	-7789	-1389	7369	7336	33.68	218.796	
4600	4556	4438	4405	20	17	20.37	-7789	-1387	7359	7325	34.14	215.563	
4700	4655	4450	4417	20	17	20.36	-7790	-1385	7350	7315	34.58	212.544	
4800	4754	4450	4417	21	17	20.36	-7790	-1385	7342	7307	34.97	209.956	
4829	4783	4450	4417	21	17	20.36	-7790	-1385	7340	7305	35.08	209.234	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 508H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Measured Depth	Vertical	Measured	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	Reference (ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
4850	4804	4450	4417	21	17	26.75	-7790	-1385	7338	7303	35.16	208.692		
4900	4852	4478	4444	21	17	36.00	-7793	-1381	7333	7297	35.49	206.596		
4950	4900	4500	4466	22	18	41.36	-7796	-1377	7326	7290	35.82	204.533		
5000	4947	4500	4466	22	18	45.04	-7796	-1377	7317	7281	36.06	202.918		
5050	4992	4500	4466	22	18	47.87	-7796	-1377	7306	7270	36.31	201.188		
5100	5036	4500	4466	23	18	50.28	-7796	-1377	7294	7257	36.59	199.343		
5150	5077	4500	4466	23	18	52.47	-7796	-1377	7280	7243	36.88	197.377		
5200	5117	4500	4466	23	18	54.56	-7796	-1377	7264	7227	37.20	195.287		
5250	5153	4522	4488	24	18	56.69	-7799	-1372	7247	7210	37.65	192.499		
5300	5187	4528	4493	25	18	58.81	-7800	-1370	7229	7191	38.04	190.007		
5350	5218	4550	4514	25	18	61.06	-7804	-1365	7209	7171	38.55	187.006		
5400	5246	4550	4514	26	18	63.28	-7804	-1365	7189	7150	38.99	184.388		
5450	5270	4550	4514	26	18	65.59	-7804	-1365	7167	7127	39.46	181.631		
5500	5291	4550	4514	27	18	67.96	-7804	-1365	7144	7104	39.97	178.742		
5550	5308	4550	4514	28	18	70.41	-7804	-1365	7121	7080	40.52	175.732		
5600	5322	4550	4514	29	18	72.92	-7804	-1365	7097	7056	41.11	172.617		
5650	5332	4550	4514	29	18	75.47	-7804	-1365	7072	7031	41.74	169.420		
5700	5338	4550	4514	30	18	78.04	-7804	-1365	7048	7005	42.41	166.165		
5754	5340	4550	4514	31	18	80.81	-7804	-1365	7021	6978	43.17	162.633		
5800	5340	4550	4514	32	18	80.81	-7804	-1365	6998	6954	43.85	159.579		
5900	5339	4575	4538	34	18	81.03	-7809	-1358	6949	6904	45.56	152.522		
6000	5339	4600	4561	36	18	81.25	-7815	-1351	6902	6854	47.39	145.625		
6100	5339	4600	4561	38	18	81.25	-7815	-1351	6855	6806	49.21	139.300		
6200	5338	4600	4561	40	18	81.25	-7815	-1351	6810	6758	51.13	133.189		
6300	5338	4600	4561	42	18	81.25	-7815	-1351	6765	6712	53.13	127.329		
6400	5338	4600	4561	44	18	81.25	-7815	-1351	6722	6667	55.22	121.742		
6500	5337	4600	4561	46	18	81.25	-7815	-1351	6680	6623	57.37	116.439		
6600	5337	4600	4561	48	18	81.25	-7815	-1351	6639	6580	59.59	111.422		
6700	5337	4627	4586	50	18	81.48	-7822	-1342	6600	6538	62.01	106.427		
6800	5336	4650	4606	53	18	81.67	-7829	-1334	6561	6497	64.46	101.791		
6900	5336	4650	4606	55	18	81.67	-7829	-1334	6524	6457	66.84	97.618		
7000	5335	4650	4606	57	18	81.68	-7829	-1334	6489	6419	69.25	93.693		
7100	5335	4650	4606	59	18	81.68	-7829	-1334	6454	6382	71.71	90.004		
7200	5335	4673	4626	62	18	81.86	-7836	-1326	6421	6346	74.33	86.378		
7300	5334	4700	4649	64	19	82.08	-7845	-1315	6389	6312	77.01	82.962		
7400	5334	4700	4649	66	19	82.08	-7845	-1315	6358	6279	79.56	79.916		
7500	5333	4700	4649	69	19	82.08	-7845	-1315	6329	6247	82.14	77.054		
7600	5333	4720	4666	71	19	82.24	-7852	-1307	6301	6216	84.86	74.250		
7700	5333	4750	4691	73	19	82.47	-7864	-1294	6275	6187	87.67	71.574		
7800	5332	4750	4691	76	19	82.47	-7864	-1294	6249	6159	90.30	69.206		
7900	5332	4750	4691	78	19	82.47	-7864	-1294	6225	6132	92.95	66.979		
8000	5331	4781	4715	81	19	82.70	-7876	-1280	6203	6107	95.82	64.733		
8100	5331	4800	4730	83	19	82.83	-7884	-1271	6182	6083	98.62	62.683		
8200	5330	4819	4743	85	20	82.96	-7893	-1262	6162	6060	101.44	60.748		
8300	5330	4850	4766	88	20	83.18	-7908	-1245	6144	6039	104.35	58.872		
8400	5329	4850	4766	90	20	83.18	-7908	-1245	6126	6019	107.03	57.238		
8500	5329	4900	4799	93	20	83.49	-7933	-1218	6111	6001	110.14	55.481		
8600	5329	4900	4799	95	20	83.49	-7933	-1218	6096	5983	112.82	54.035		
8700	5328	4950	4830	97	21	83.78	-7960	-1189	6083	5967	115.96	52.456		
8800	5328	4966	4839	100	21	83.87	-7969	-1180	6071	5952	118.80	51.103		
8900	5327	5000	4857	102	21	84.04	-7988	-1159	6060	5938	121.81	49.750		
9000	5327	5030	4872	105	22	84.18	-8006	-1140	6051	5926	124.80	48.481		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 508H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
9100	5326	5050	4881	107	22	84.27	-8019	-1127	6042	5915	127.68	47.323		
9200	5326	5100	4902	110	23	84.46	-8050	-1094	6035	5904	130.94	46.090		
9300	5325	5150	4919	112	24	84.62	-8083	-1061	6029	5894	134.23	44.912		
9400	5325	5179	4927	114	24	84.70	-8103	-1041	6024	5886	137.26	43.884		
9500	5324	5221	4936	117	25	84.79	-8131	-1012	6019	5879	140.47	42.851		
9600	5324	5250	4941	119	25	84.84	-8151	-991	6016	5873	143.50	41.924		
9700	5323	5300	4946	122	26	84.89	-8186	-956	6014	5867	146.87	40.948		
9800	5323	5352	4948	124	27	84.91	-8223	-919	6013	5862	150.28	40.010		
9900	5322	5452	4947	127	29	84.91	-8294	-849	6012	5857	154.58	38.890		
10,000	5322	5552	4947	129	31	84.90	-8365	-778	6011	5852	158.98	37.809		
10,100	5321	5652	4946	132	33	84.90	-8436	-708	6010	5846	163.47	36.765		
10,200	5321	5752	4945	134	35	84.90	-8507	-637	6009	5841	168.03	35.762		
10,300	5320	5852	4945	137	37	84.90	-8578	-567	6008	5836	172.65	34.799		
10,400	5320	5952	4944	139	39	84.90	-8649	-496	6007	5830	177.32	33.878		
10,500	5319	6052	4943	141	42	84.89	-8719	-426	6006	5824	182.04	32.995		
10,600	5319	6152	4943	144	44	84.89	-8790	-355	6006	5819	186.79	32.151		
10,700	5318	6252	4942	146	46	84.89	-8861	-285	6005	5813	191.57	31.344		
10,800	5318	6352	4941	149	49	84.89	-8932	-214	6004	5807	196.38	30.573		
10,900	5317	6452	4941	151	51	84.89	-9003	-144	6003	5802	201.21	29.834		
11,000	5316	6552	4940	154	53	84.88	-9074	-73	6002	5796	206.06	29.128		
11,100	5316	6652	4939	156	56	84.88	-9145	-3	6001	5790	210.92	28.452		
11,200	5315	6752	4939	159	58	84.88	-9216	68	6000	5784	215.81	27.804		
11,300	5315	6852	4938	161	61	84.88	-9287	138	5999	5779	220.70	27.183		
11,400	5314	6952	4937	164	63	84.88	-9358	209	5998	5773	225.61	26.588		
11,437	5314	6989	4937	164	64	84.88	-9384	235	5998	5771	227.41	26.375	CC, ES, SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 509H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	159	159	0	0	-166.29	-7603	-1854	7825					
100	100	259	259	0	1	-166.29	-7603	-1854	7825	7825	0.88	8,909.329		
200	200	359	359	1	1	-166.29	-7603	-1854	7825	7824	1.60	4,905.373		
213	213	372	372	1	1	-166.29	-7603	-1854	7825	7824	1.69	4,627.530		
300	300	450	450	1	1	-166.29	-7603	-1854	7825	7823	2.28	3,432.408		
400	400	500	500	1	2	-166.30	-7603	-1854	7826	7823	2.81	2,785.027		
500	500	500	500	2	2	22.40	-7603	-1854	7826	7823	3.15	2,482.559		
600	600	568	568	2	2	22.42	-7605	-1853	7823	7819	3.72	2,103.747		
700	699	600	600	2	2	22.46	-7606	-1852	7818	7813	4.17	1,874.002		
800	799	9169	4954	3	113	58.32	-4729	-4743	7785	7683	101.58	76.639		
828	827	9165	4954	3	113	58.63	-4731	-4740	7769	7667	101.75	76.351		
900	898	9157	4954	3	113	58.55	-4737	-4735	7727	7625	102.15	75.642		
1000	996	9145	4954	3	113	58.45	-4745	-4726	7670	7567	102.73	74.664		
1100	1095	9133	4954	4	112	58.34	-4754	-4718	7614	7511	103.32	73.695		
1200	1194	9122	4954	4	112	58.24	-4762	-4710	7559	7455	103.92	72.739		
1300	1293	9110	4954	5	112	58.13	-4771	-4701	7504	7400	104.52	71.798		
1400	1392	9098	4954	5	112	58.02	-4779	-4693	7451	7346	105.13	70.874		
1500	1491	9086	4954	6	111	57.92	-4787	-4685	7399	7293	105.74	69.967		
1600	1590	9075	4954	6	111	57.81	-4796	-4677	7347	7241	106.36	69.079		
1700	1689	9063	4954	7	111	57.71	-4804	-4668	7297	7190	106.97	68.210		
1800	1788	9051	4954	7	110	57.60	-4812	-4660	7247	7139	107.58	67.362		
1900	1886	9039	4954	7	110	57.50	-4821	-4652	7199	7090	108.19	66.533		
2000	1985	9027	4954	8	110	57.39	-4829	-4644	7151	7042	108.80	65.726		
2100	2084	9016	4954	8	109	57.28	-4838	-4635	7105	6995	109.40	64.940		
2200	2183	9004	4954	9	109	57.18	-4846	-4627	7059	6949	110.00	64.175		
2300	2282	8992	4954	9	109	57.07	-4854	-4619	7015	6905	110.60	63.433		
2400	2381	8980	4954	10	109	56.97	-4863	-4611	6972	6861	111.18	62.712		
2500	2480	8969	4953	10	108	56.86	-4871	-4602	6930	6819	111.76	62.013		
2600	2579	8957	4953	11	108	56.75	-4880	-4594	6890	6777	112.33	61.337		
2700	2678	8945	4953	11	108	56.65	-4888	-4586	6850	6737	112.89	60.683		
2800	2776	8933	4953	12	107	56.54	-4896	-4577	6812	6699	113.44	60.052		
2900	2875	8922	4953	12	107	56.44	-4905	-4569	6775	6661	113.97	59.444		
3000	2974	8910	4953	12	107	56.33	-4913	-4561	6739	6625	114.50	58.859		
3100	3073	8898	4953	13	106	56.22	-4921	-4553	6705	6590	115.01	58.297		
3200	3172	8886	4953	13	106	56.12	-4930	-4544	6672	6556	115.51	57.758		
3300	3271	8874	4953	14	106	56.01	-4938	-4536	6640	6524	115.99	57.243		
3400	3370	8863	4953	14	106	55.91	-4947	-4528	6609	6493	116.46	56.751		
3500	3469	8851	4953	15	105	55.80	-4955	-4520	6580	6463	116.91	56.283		
3600	3568	8839	4953	15	105	55.69	-4963	-4511	6552	6435	117.34	55.838		
3700	3666	8827	4953	16	105	55.59	-4972	-4503	6526	6408	117.76	55.417		
3800	3765	8816	4953	16	104	55.48	-4980	-4495	6501	6383	118.16	55.019		
3900	3864	8804	4953	17	104	55.37	-4988	-4486	6477	6359	118.53	54.646		
4000	3963	8792	4953	17	104	55.27	-4997	-4478	6455	6336	118.89	54.296		
4100	4062	8780	4953	18	103	55.16	-5005	-4470	6434	6315	119.22	53.970		
4200	4161	8768	4953	18	103	55.06	-5014	-4462	6415	6296	119.53	53.669		
4300	4260	8757	4953	18	103	54.95	-5022	-4453	6398	6278	119.82	53.391		
4400	4359	8745	4953	19	103	54.84	-5030	-4445	6381	6261	120.09	53.137		
4500	4457	8733	4953	19	102	54.74	-5039	-4437	6367	6246	120.33	52.908		
4600	4556	8721	4953	20	102	54.63	-5047	-4429	6353	6233	120.55	52.703		
4700	4655	8710	4953	20	102	54.53	-5055	-4420	6342	6221	120.75	52.522		
4800	4754	8698	4953	21	101	54.42	-5064	-4412	6332	6211	120.91	52.365		
4829	4783	8694	4953	21	101	54.39	-5066	-4410	6329	6208	120.96	52.324		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 509H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset	Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4850	4804	8692	4953	21	101	60.80	-5068	-4408	6327	6206	120.98	52.298		
4900	4852	8682	4953	21	101	69.95	-5075	-4401	6323	6202	120.99	52.260		
4950	4900	8669	4953	22	101	74.99	-5085	-4392	6319	6199	120.93	52.255		
5000	4947	8652	4953	22	100	78.11	-5097	-4380	6316	6195	120.81	52.283		
5050	4992	8631	4952	22	100	80.19	-5111	-4365	6313	6193	120.62	52.341		
5100	5036	8607	4952	23	99	81.64	-5129	-4348	6311	6191	120.38	52.428		
5150	5077	8579	4952	23	98	82.66	-5148	-4329	6309	6189	120.08	52.541		
5200	5117	8549	4952	23	98	83.40	-5170	-4307	6307	6188	119.73	52.677		
5250	5153	8515	4952	24	97	83.92	-5194	-4284	6306	6186	119.35	52.833		
5300	5187	8478	4952	25	96	84.29	-5220	-4258	6305	6186	118.95	53.005		
5350	5218	8439	4952	25	95	84.55	-5248	-4230	6304	6185	118.51	53.190		
5400	5246	8398	4952	26	94	84.72	-5277	-4201	6303	6185	118.07	53.384		
5450	5270	8355	4952	26	93	84.83	-5308	-4171	6303	6185	117.62	53.584		
5500	5291	8309	4952	27	91	84.89	-5340	-4139	6302	6185	117.17	53.786		
5550	5308	8262	4951	28	90	84.93	-5374	-4106	6302	6185	116.73	53.987		
5600	5322	8214	4951	29	89	84.96	-5408	-4072	6301	6185	116.29	54.186		
5650	5332	8165	4951	29	88	84.97	-5443	-4038	6301	6185	115.88	54.378		
5700	5338	8116	4951	30	87	84.99	-5478	-4003	6301	6185	115.48	54.565		
5754	5340	8062	4951	31	85	85.01	-5516	-3966	6301	6185	115.07	54.755		
5800	5340	8016	4951	32	84	85.01	-5549	-3933	6300	6186	114.74	54.911		
5900	5339	7916	4950	34	82	85.01	-5620	-3863	6300	6186	114.09	55.216		
6000	5339	7816	4950	36	79	85.01	-5692	-3793	6299	6186	113.53	55.485		
6100	5339	7716	4950	38	76	85.01	-5763	-3722	6299	6186	113.03	55.724		
6200	5338	7616	4950	40	74	85.01	-5834	-3652	6298	6186	112.60	55.935		
6300	5338	7516	4949	42	71	85.01	-5905	-3582	6298	6185	112.21	56.122		
6400	5338	7416	4949	44	69	85.01	-5976	-3512	6297	6185	111.87	56.288		
6500	5337	7316	4949	46	66	85.01	-6047	-3441	6297	6185	111.57	56.434		
6600	5337	7216	4948	48	64	85.01	-6119	-3371	6296	6185	111.31	56.563		
6700	5337	7116	4948	50	62	85.01	-6190	-3301	6296	6184	111.08	56.675		
6800	5336	7016	4948	53	59	85.01	-6261	-3231	6295	6184	110.88	56.771		
6900	5336	6916	4948	55	57	85.01	-6332	-3160	6295	6184	110.72	56.853		
7000	5335	6816	4947	57	54	85.01	-6403	-3090	6294	6183	110.58	56.919		
7100	5335	6716	4947	59	52	85.01	-6474	-3020	6293	6183	110.47	56.971		
7200	5335	6616	4947	62	49	85.02	-6546	-2950	6293	6183	110.39	57.008		
7300	5334	6516	4946	64	47	85.02	-6617	-2879	6292	6182	110.34	57.030		
7400	5334	6416	4946	66	45	85.02	-6688	-2809	6292	6182	110.32	57.035		
7500	5333	6316	4946	69	42	85.02	-6759	-2739	6291	6181	110.33	57.022		
7600	5333	6216	4946	71	40	85.02	-6830	-2669	6291	6180	110.39	56.990		
7700	5333	6116	4945	73	38	85.02	-6901	-2598	6290	6180	110.48	56.935		
7800	5332	6016	4945	76	35	85.02	-6973	-2528	6290	6179	110.63	56.856		
7900	5332	5916	4945	78	33	85.02	-7044	-2458	6289	6178	110.83	56.748		
8000	5331	5816	4944	81	31	85.02	-7115	-2388	6289	6178	111.09	56.606		
8100	5331	5716	4944	83	29	85.02	-7186	-2317	6288	6177	111.44	56.425		
8200	5330	5616	4944	85	27	85.02	-7257	-2247	6288	6176	111.88	56.197		
8300	5330	5516	4944	88	25	85.02	-7329	-2177	6287	6175	112.44	55.913		
8400	5329	5416	4943	90	23	85.03	-7400	-2107	6287	6173	113.15	55.561		
8500	5329	5321	4943	93	22	85.03	-7468	-2040	6286	6172	114.08	55.099		
8567	5329	5283	4941	94	21	85.01	-7494	-2013	6286	6171	115.19	54.568 CC		
8600	5329	5264	4940	95	21	85.00	-7508	-2000	6286	6170	115.75	54.304		
8700	5328	5200	4930	97	20	84.91	-7553	-1955	6286	6169	117.36	53.564		
8800	5328	5150	4918	100	20	84.81	-7587	-1921	6288	6169	119.23	52.735 ES		
8900	5327	5100	4903	102	19	84.67	-7621	-1888	6290	6169	121.16	51.915		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: O11 2206 Pad - # 509H - Original Drilling - APD												Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM				Rule Assigned:								Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9000	5327	5050	4883	105	19	84.49	-7654	-1855	6293	6170	123.14	51.105	
9100	5326	5000	4860	107	18	84.29	-7685	-1824	6297	6172	125.17	50.307	
9200	5326	4968	4844	110	18	84.14	-7704	-1805	6302	6174	127.38	49.472	
9300	5325	4929	4822	112	18	83.94	-7727	-1782	6307	6178	129.54	48.692	
9400	5325	4900	4804	114	18	83.78	-7744	-1766	6314	6183	131.76	47.925	
9500	5324	4850	4772	117	18	83.49	-7770	-1739	6323	6189	133.87	47.228	
9600	5324	4831	4758	119	18	83.37	-7780	-1729	6332	6196	136.14	46.511	
9700	5323	4800	4736	122	17	83.17	-7795	-1714	6342	6204	138.32	45.852	
9800	5323	4778	4720	124	17	83.02	-7805	-1704	6354	6214	140.53	45.216	
9900	5322	4750	4698	127	17	82.83	-7818	-1691	6367	6225	142.68	44.626	
10,000	5322	4750	4698	129	17	82.82	-7818	-1691	6382	6237	144.91	44.041	
10,100	5321	4700	4657	132	17	82.46	-7838	-1670	6398	6251	146.93	43.543	
10,200	5321	4700	4657	134	17	82.46	-7838	-1670	6415	6266	149.08	43.029	
10,300	5320	4680	4641	137	17	82.31	-7846	-1663	6433	6282	151.13	42.567	
10,400	5320	4650	4615	139	17	82.07	-7857	-1652	6453	6300	153.11	42.147	
10,500	5319	4650	4615	141	17	82.07	-7857	-1652	6474	6319	155.15	41.730	
10,600	5319	4650	4615	144	17	82.07	-7857	-1652	6497	6340	157.14	41.346	
10,700	5318	4626	4593	146	17	81.88	-7865	-1644	6521	6362	159.02	41.008	
10,800	5318	4600	4570	149	17	81.67	-7872	-1636	6546	6386	160.85	40.699	
10,900	5317	4600	4570	151	17	81.67	-7872	-1636	6573	6410	162.71	40.397	
11,000	5316	4600	4570	154	17	81.67	-7872	-1636	6601	6437	164.53	40.121	
11,100	5316	4600	4570	156	17	81.67	-7872	-1636	6630	6464	166.30	39.870	
11,200	5315	4576	4548	159	17	81.47	-7879	-1629	6661	6493	167.96	39.658	
11,300	5315	4550	4524	161	17	81.25	-7885	-1622	6693	6524	169.57	39.471	
11,400	5314	4550	4524	164	17	81.25	-7885	-1622	6726	6555	171.21	39.287	
11,437	5314	4550	4524	164	17	81.25	-7885	-1622	6739	6567	171.80	39.224 SF	



Lonestar Consulting, LLC

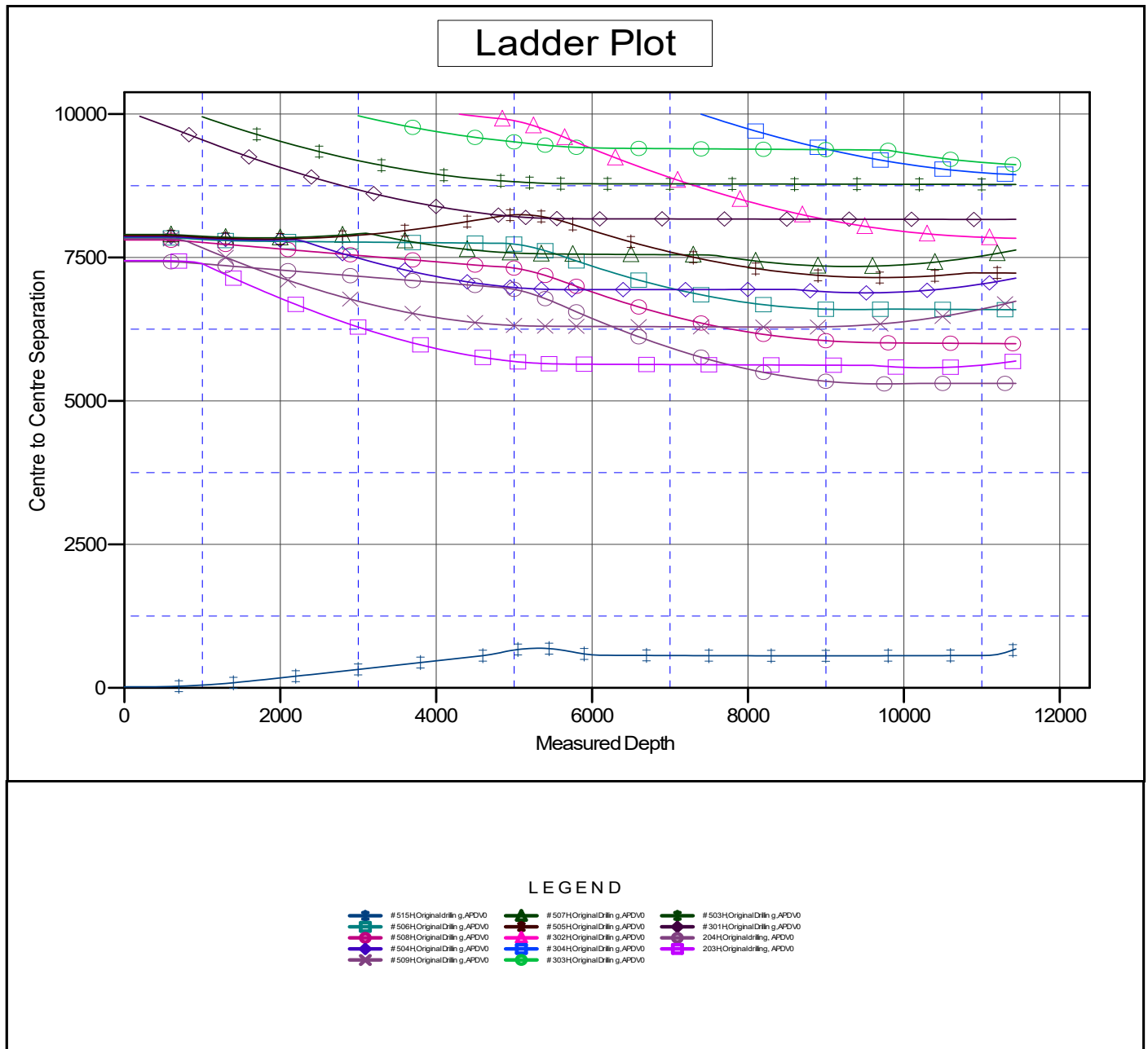
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6919' & RKB 14' @ 6933ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333334

Coordinates are relative to: # 002H - Slot 1
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.24°





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 002H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 6919' & RKB 14' @ 6933ft
Reference Site:	E01 2206 Pad	MD Reference:	GL 6919' & RKB 14' @ 6933ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 002H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6919' & RKB 14' @ 6933ft

Offset Depths are relative to Offset Datum

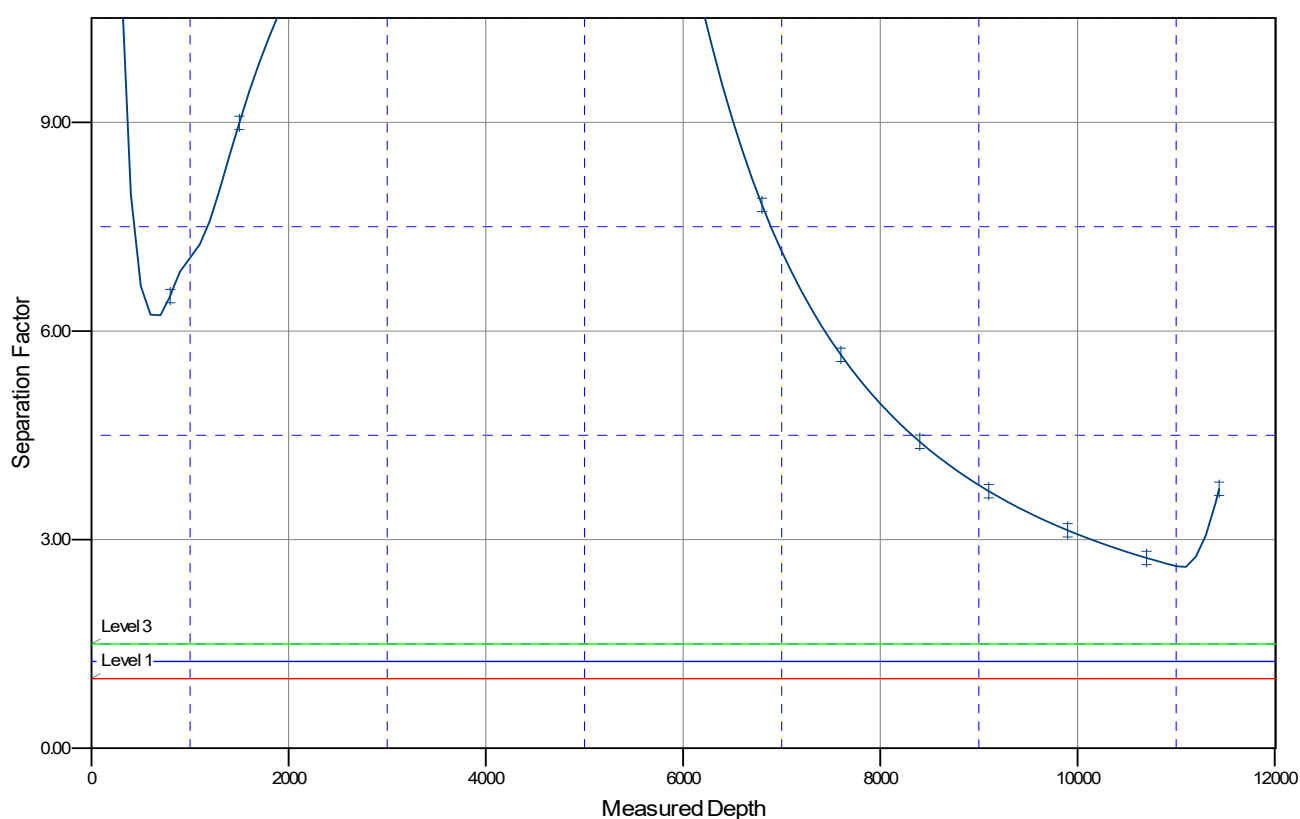
Central Meridian is -107.8333334

Coordinates are relative to: # 002H - Slot 1

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

Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND

# 519H Original Drilling, APDVO	# 507H Original Drilling, APDVO	# 503H Original Drilling, APDVO
# 506H Original Drilling, APDVO	# 505H Original Drilling, APDVO	# 301H Original Drilling, APDVO
# 508H Original Drilling, APDVO	# 302H Original Drilling, APDVO	204H Original Drilling, APDVO
# 504H Original Drilling, APDVO	# 304H Original Drilling, APDVO	203H Original Drilling, APDVO
# 509H Original Drilling, APDVO	# 303H Original Drilling, APDVO	

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 147404

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID:
	371838
	Action Number:
	147404
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	10/5/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/5/2022
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	10/5/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	10/5/2022
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	10/5/2022