

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM117562
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No. VENADO CANYON UNIT / NMNM 1353
2. Name of Operator DJR OPERATING LLC		8. Lease Name and Well No. VENADO CANYON UNIT 505H
3a. Address 1700 LINCOLN STREET, SUITE 2800, DENVER, CO 802	3b. Phone No. (include area code) (505) 632-3476	9. API Well No. 30-043-21406
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 1195 FSL / 1332 FEL / LAT 36.1481365 / LONG -107.4338642 At proposed prod. zone NENE / 1093 FNL / 367 FEL / LAT 36.127014 / LONG -107.41328		10. Field and Pool, or Exploratory BASIN MANCOS/LYBROOK GALLUP
14. Distance in miles and direction from nearest town or post office* 60 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 11/T22N/R6W/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1195 feet	16. No of acres in lease 520.0	12. County or Parish SANDOVAL
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet	19. Proposed Depth 4917 feet / 13571 feet	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7075 feet	22. Approximate date work will start* 05/09/2021	17. Spacing Unit dedicated to this well FED: NMB001464
24. Attachments		23. Estimated duration 10 days
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 (Electronic Submission)	Name (Printed/Typed) SHAW-MARIE FORD / Ph: (505) 632-3476	Date 11/09/2020
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) DAVE J MANKIEWICZ / Ph: (505) 564-7761	Date 03/01/2022
Title AFM-Minerals Office Farmington Field Office		
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

APPROVED WITH CONDITIONS
Approval Date: 03/01/2022

(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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21406	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 325271	⁵ Property Name VENADO CANYON UNIT	⁶ Well Number 505H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 7075

¹⁰ Surface Location

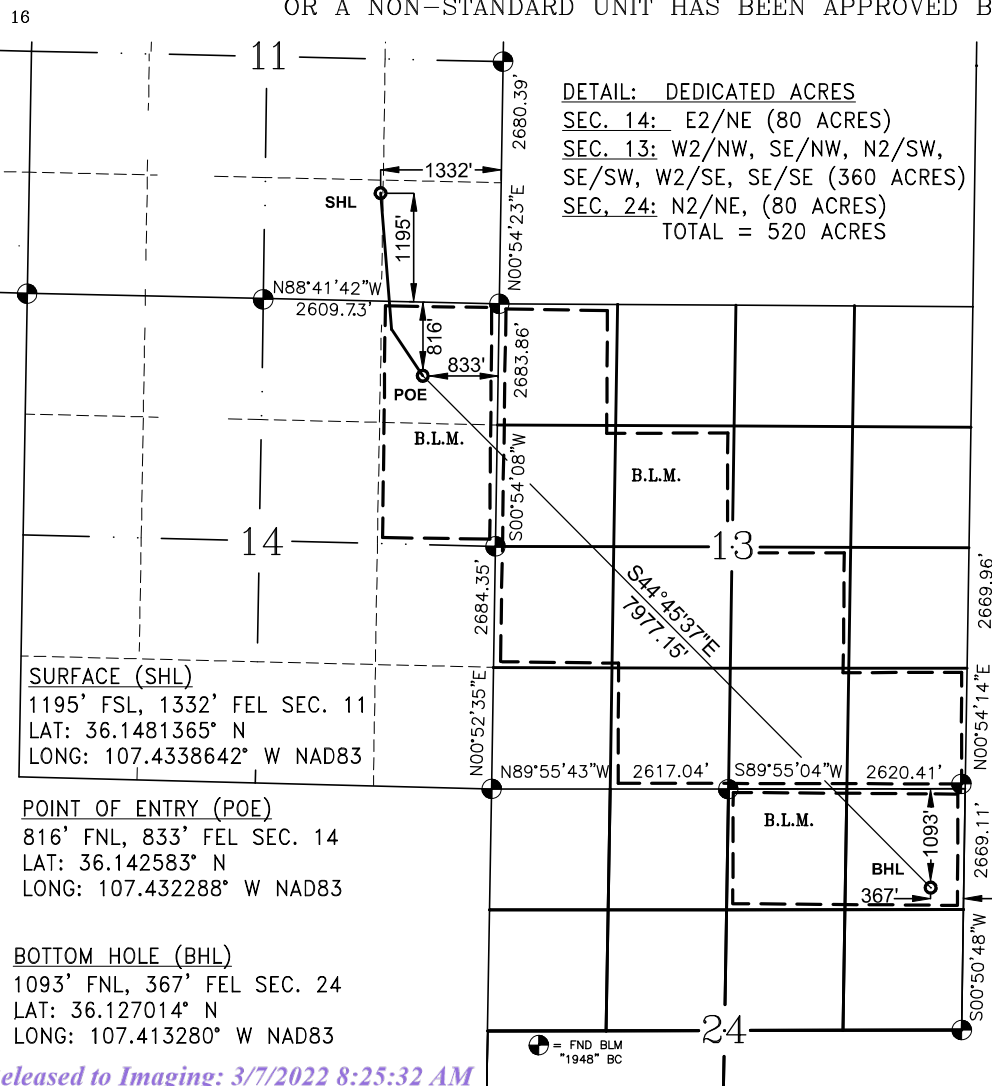
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	11	22-N	6-W		1195	SOUTH	1332	EAST	SANDOVAL

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
A	24	22-N	6-W		1093	NORTH	367	EAST	SANDOVAL

¹² Dedicated Acres SEE DETAIL BELOW	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14067 R-14067A
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Shaw-Marie Ford 6/1/21

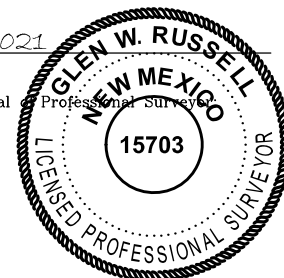
Signature Date
Shaw-Marie Ford
Printed Name
sford@djrlc.com
E-mail Address

18 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.

MAY 18, 2021
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number 15703

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:** _02 / 23 / 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 504H	TBD	O-11-22N-06W	1087 FSL x 1405 FEL	280	415	100
Venado Canyon Unit 505H	TBD	O-11-22N-06W	1070 FSL x 1416 FEL	445	660	160
Venado Canyon Unit 506H	TBD	O-11-22N-06W	1104 FSL x 1395 FEL	450	660	160
Venado Canyon Unit 507H	TBD	O-11-22N-06W	1054 FSL x 1427 FEL	280	420	100
Venado Canyon Unit 508H	TBD	O-11-22N-06W	1139 FSL x 1374 FEL	430	640	150
Venado Canyon Unit 509H	TBD	O-11-22N-06W	1121 FSL x 1383 FEL	340	500	120

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 504H	TBD	06/03/2022	06/13/2022	10/07/2022	11/01/2022	11/01/2022
Venado Canyon Unit 505H	TBD	05/10/2022	05/20/2022	09/25/2022	11/01/2022	11/01/2022
Venado Canyon Unit 506H	TBD	05/26/2022	06/05/2022	10/03/2022	11/01/2022	11/01/2022
Venado Canyon Unit 507H	TBD	05/19/2022	05/29/2022	09/29/2022	11/01/2022	11/01/2022
Venado Canyon Unit 508H	TBD	06/12/2022	06/22/2022	10/11/2022	11/01/2022	11/01/2022
Venado Canyon Unit 509H	TBD	06/21/2022	07/01/2022	10/15/2022	11/01/2022	11/01/2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrlc.com
Date: 02/23/2022
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 504H, 505H, 506H, 507H, 508H, 509H
SWSE O-11-22N-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 separators will be set for each individual well.
- The separators 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 separators will each 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 each 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 separators.
- Oil will be separated from the produced water and the 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 504H, 505H, 506H, 507H, 508H, 509H
SWSE O-11-22N-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



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OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



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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 1



DRILLING PLAN

Venado Canyon #505H

Sandoval County, New Mexico

Surface Location

1332-ft FEL & 1195-ft FSL
 Sec 11 T22N R06W
 Graded Elevation 7075' MSL
 RKB Elevation 7089' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1481365° N
 Longitude 107.4338642° W

Kick Off Point for Horizontal Build Curve

4788-ft MD
 4491-ft TVD

Local Coordinates (from SHL)

1504-ft South
 122-ft East

Heel Location (Pay zone entry)

833-ft FEL & 816-ft FSL
 Sec 14 T22N R6W

Heel Geographical Coordinates (NAD-83)

Latitude 36.1425829° N
 Longitude 107.43228780° W

Bottom Hole Location (TD)

367-ft FEL & 1093-ft FNL
 Sec 24 T22N R6W

BHL Geographical Coordinates (NAD-83)

Latitude 36.1270135° N
 Longitude 107.4132796° W

Well objectives

This well is planned as a 7980-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 136°F. Bottom hole pressure in the Mancos Silt is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1289	1276	Sd	W	8.3	8.4 – 8.8
Kirtland	1447	1425	Sh	-	8.3	8.4 – 8.8
Fruitland	1686	1646	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1898	1841	Sd	W	8.3	9.0 - 9.5
Lewis	2000	1934	Sh	-		9.0 - 9.5
Chacra	2777	2647	Sd	-	8.3	9.0 - 9.5
Menefee	3516	3324	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4356	4095	Sd	-	8.3	9.0 - 9.5
Mancos	4513	4239	Sh	-		9.0 - 9.5
Mancos Silt	4910	4599	Slt	O/G	6.6	9.0 - 9.5
Gallup A	NP	NP	Slt	O/G	6.6	9.0 - 9.5
Gallup B	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Target	5594	4917	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	5533	surf	4914	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5243	13571	4828	4873	5243

Note: all casing will be new

Rev 1



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	Lead	Tail
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	4288-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	417	200
Volume (bbls)	174	53
Volume (cu.ft.)	976	299
Excess %	50	50



Rev 1

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5243-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	700
Volume (bbls)	195
Volume (cu.ft)	1094
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 – 5533	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5533 – 13571	8.8 – 9.2	34 – 38	6 – 8	6 – 8

Cores, tests and logs

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

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

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

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

Cuttings and drilling fluids management

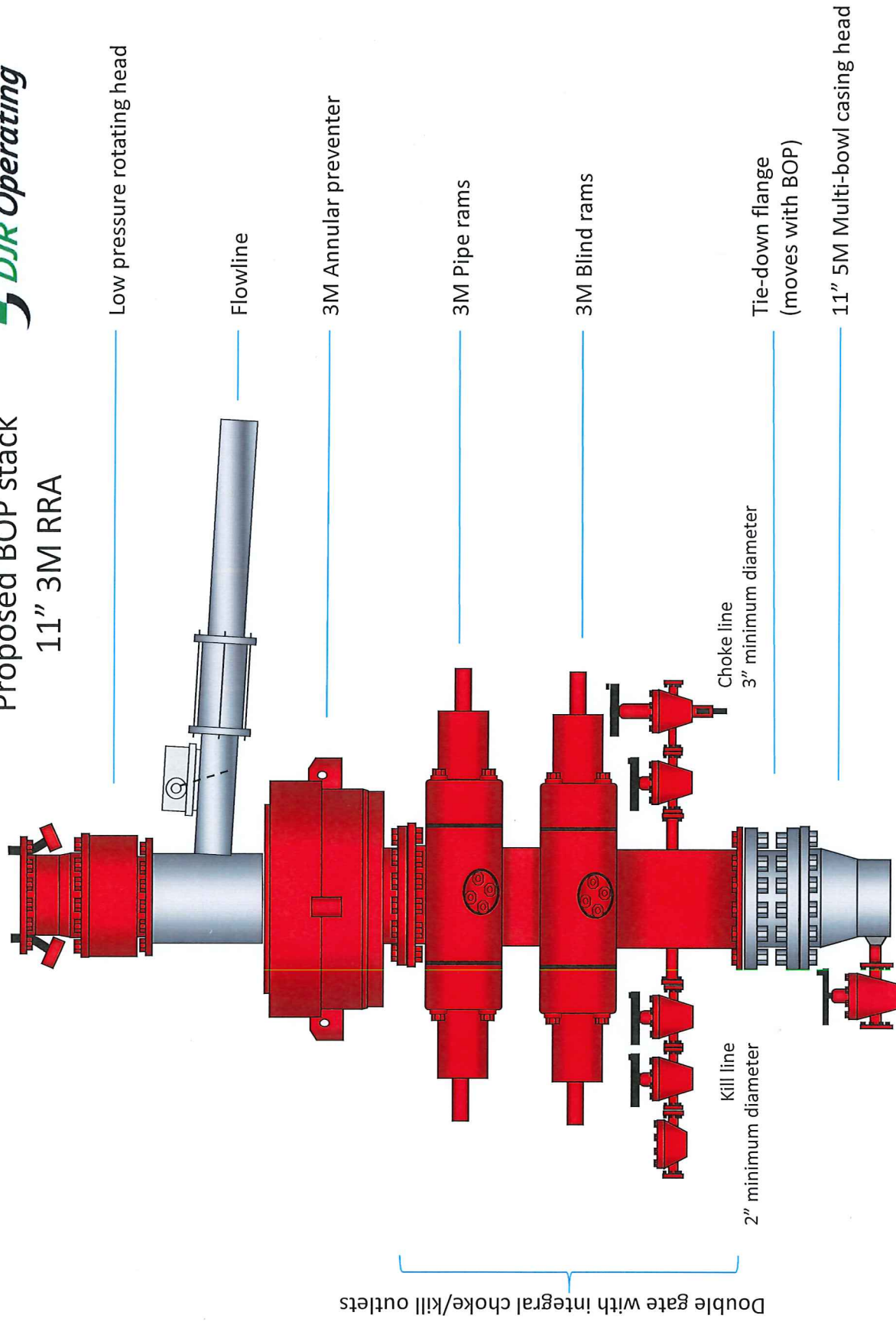
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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

Completion

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



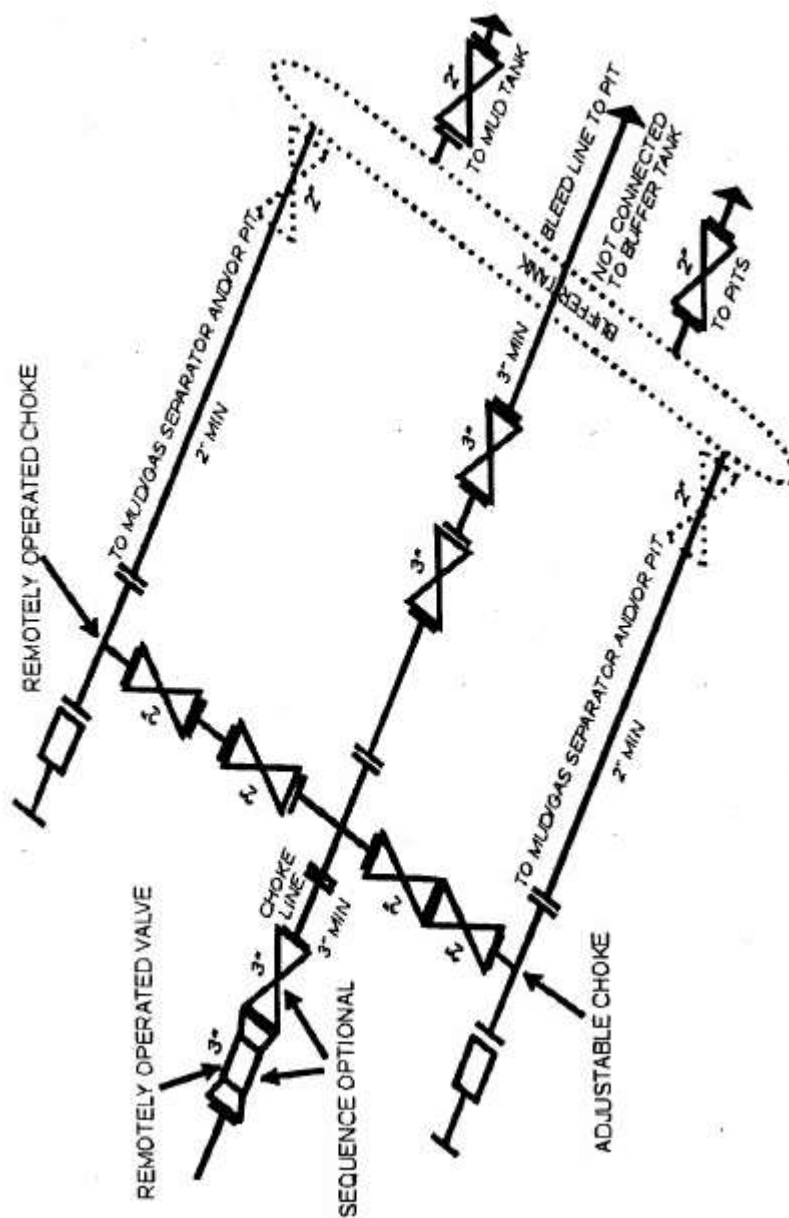
Proposed BOP stack 11" 3M RRA



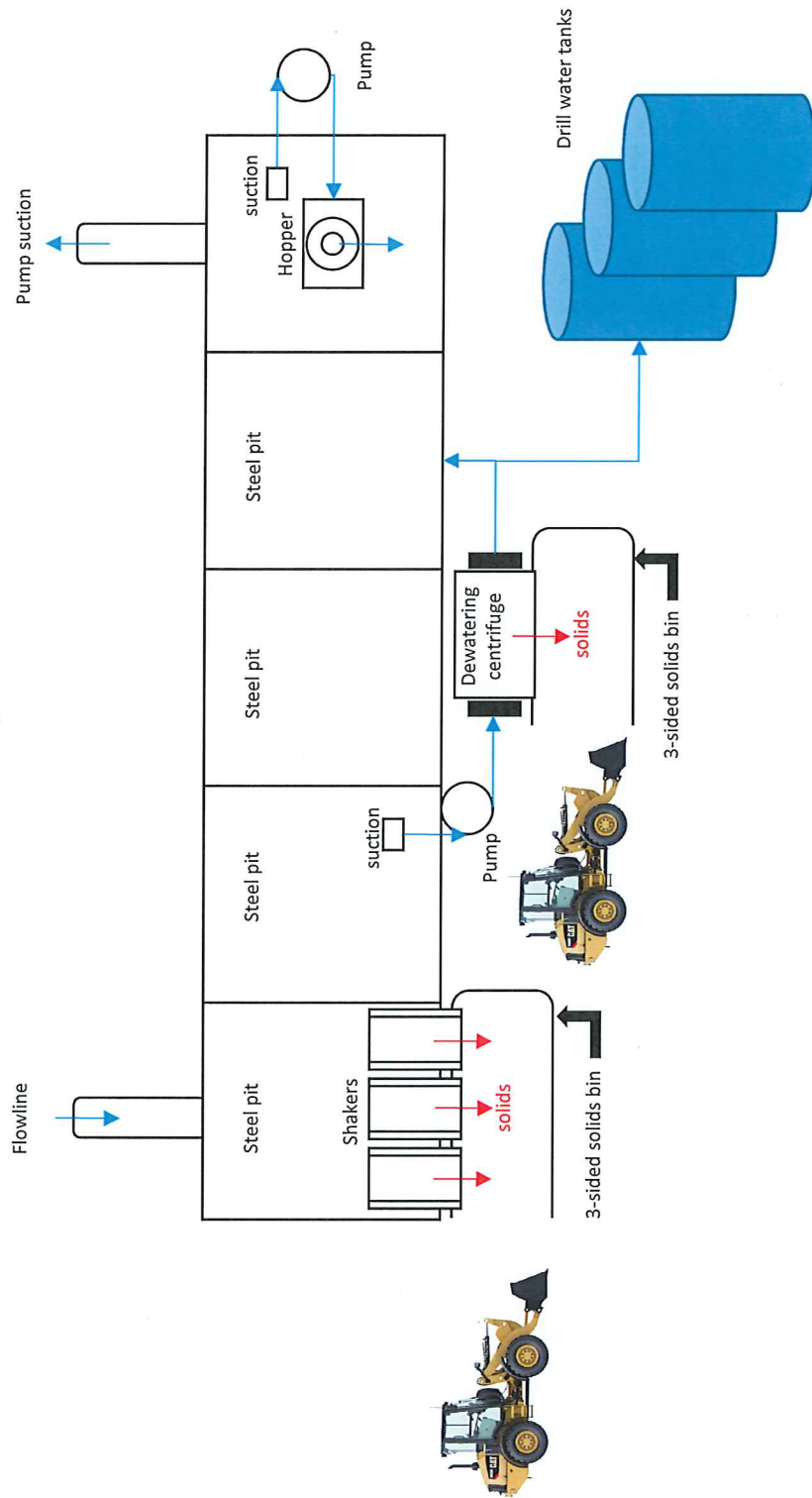


Choke Manifold

Actual system to conform with Onshore Order 2



Closed Loop Mud System





Company: DJR Operating
Project: Venado Canyon Unit
Site: O11 2206 Pad
Well: # 505H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: # 505H

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0	0	1873460.70	2841028.51	36.14813650	-107.43386420
					GL 7075' & RKB 14' @ 7089ft	

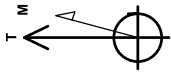
2

Plan: APD (# 505H/Original Drilling)

Created By: Janie Collins Date: 16:57, May 04 2021

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



Azimuths to True North
Magnetic North: 8.23°
Strength: 49466 Gauss
Dip Angle: 62.88°
Date: 12/31/2019
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
------	-----	-------	-------	----------	---------	----------	-----------

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
----	-----	-----	-----	-------	-------	------	-------	-------	--------

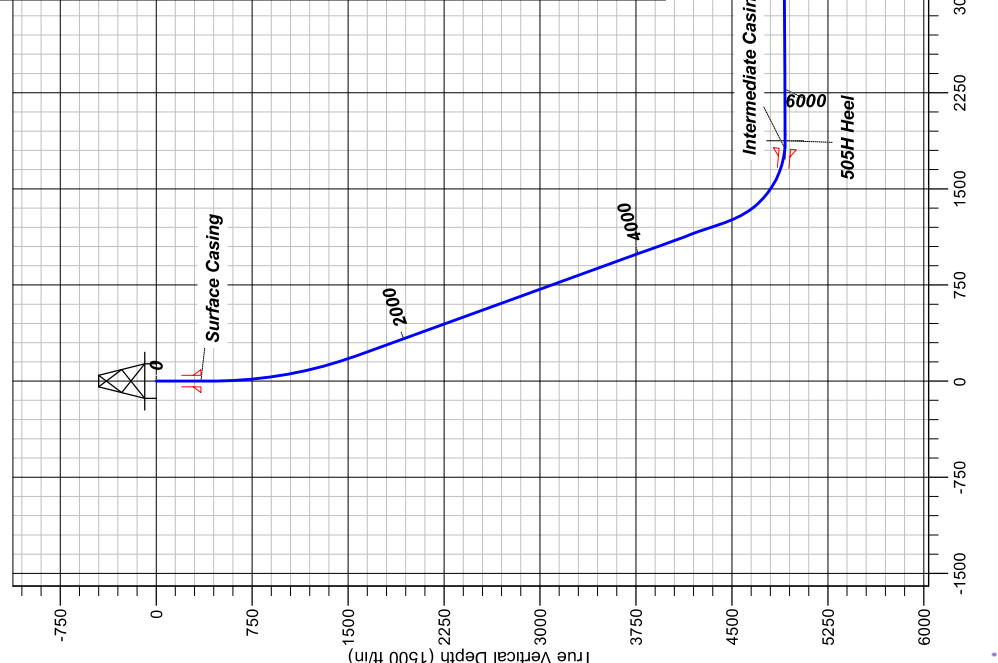
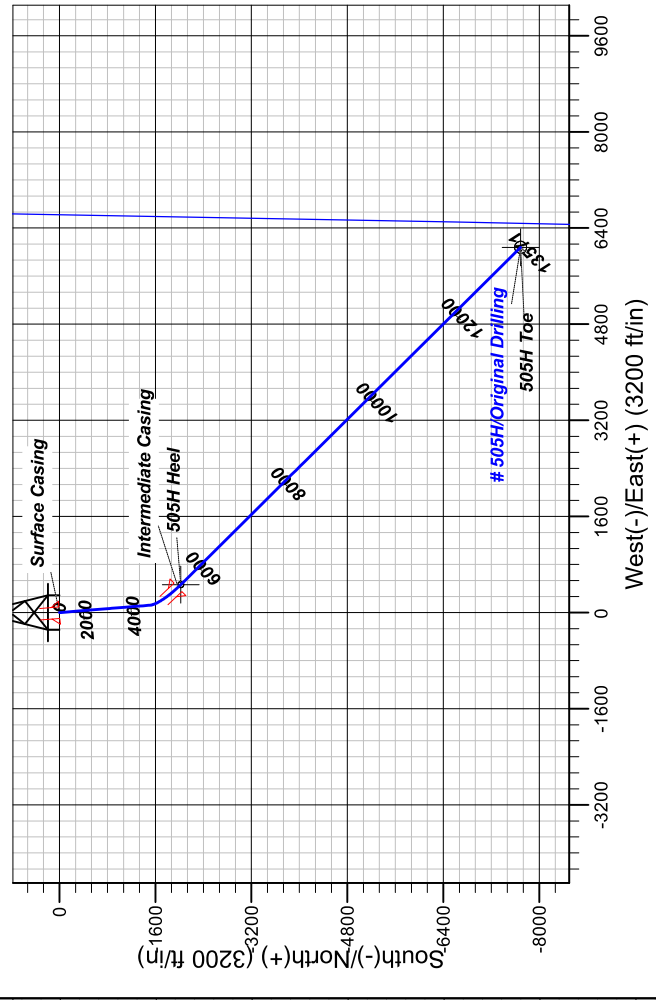
425	0.00	0.00	0	0	0	0.00	0.00	0	
1600	23.50	175.38	1567	-237	19	2.00	175.38	198	
5594	23.00	175.38	4917	-1504	1152	0.00	1352	1352	505H Heel
13571	90.32	135.27	4873	-7689	6079	0.00	0.00	9801	505H Toe

CASING DETAILS

TVD	MD	Name
350	350	Surface Casing
4914	5533	Intermediate Casing

FORMATION DETAILS

TVDPath	MDPath	Formation
1276	1289	Ojo Alamo
1425	1447	Kirtland
1646	1686	Fruitland
1841	1898	Pictured Cliffs
1934	2000	Lewis
2647	2777	Chacra
3324	3516	Menefee
4095	4356	Point Lookout
4239	4513	Mancos
4599	4910	Mancos Silt



505H/Original Drilling/APD

505H Toe

12000

10000

8000

6000

505H Heel

505H Toe

Vertical Section at 141.67° (1500 ft/in)



DJR Operating

Venado Canyon Unit

O11 2206 Pad

505H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

04 May, 2021





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 505H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Project:	Venado Canyon Unit	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site:	O11 2206 Pad	North Reference:	True
Well:	# 505H	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	O11 2206 Pad				
Site Position:		Northing:	1,873,443.84 usft	Latitude:	36.14809030
From:	Lat/Long	Easting:	2,841,017.46 usft	Longitude:	-107.43390190
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence:	0.24

Well	# 505H - Slot 2					
Well Position	+N/-S	17 ft	Northing:	1,873,460.70 usft	Latitude:	36.1481365
	+E/-W	11 ft	Easting:	2,841,028.52 usft	Longitude:	-107.4338642
Position Uncertainty		0 ft	Wellhead Elevation:		Ground Level:	7075

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2019	8.80	62.86	49,466.60496351

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	141.67

Plan Survey Tool Program	Date	5/4/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	13,571	APD (Original Drilling)	MWD+HDGM
				OWSG MWD + HDGM

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	
425	0.00	0.00	425	0	0	0.00	0.00	0.00	0.00	
1600	23.50	175.38	1567	-237	19	2.00	2.00	0.00	175.38	
4788	23.50	175.38	4491	-1504	122	0.00	0.00	0.00	0.00	
5594	90.32	135.27	4917	-2022	465	9.00	8.29	-4.98	-42.47	505H Heel
13,571	90.32	135.27	4873	-7689	6079	0.00	0.00	0.00	0.00	505H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 505H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Project:	Venado Canyon Unit	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site:	O11 2206 Pad	North Reference:	True
Well:	# 505H	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
425	0.00	0.00	425	0	0	0	0.00	0.00	0.00
500	1.50	175.38	500	-1	0	1	2.00	2.00	0.00
600	3.50	175.38	600	-5	0	4	2.00	2.00	0.00
700	5.50	175.38	700	-13	1	11	2.00	2.00	0.00
800	7.50	175.38	799	-24	2	20	2.00	2.00	0.00
900	9.50	175.38	898	-39	3	33	2.00	2.00	0.00
1000	11.50	175.38	996	-57	5	48	2.00	2.00	0.00
1100	13.50	175.38	1094	-79	6	66	2.00	2.00	0.00
1200	15.50	175.38	1191	-104	8	87	2.00	2.00	0.00
1300	17.50	175.38	1286	-132	11	110	2.00	2.00	0.00
1400	19.50	175.38	1381	-164	13	137	2.00	2.00	0.00
1500	21.50	175.38	1475	-199	16	166	2.00	2.00	0.00
1600	23.50	175.38	1567	-237	19	198	2.00	2.00	0.00
1700	23.50	175.38	1659	-277	22	231	0.00	0.00	0.00
1800	23.50	175.38	1751	-316	26	264	0.00	0.00	0.00
1900	23.50	175.38	1842	-356	29	297	0.00	0.00	0.00
2000	23.50	175.38	1934	-396	32	330	0.00	0.00	0.00
2100	23.50	175.38	2026	-436	35	364	0.00	0.00	0.00
2200	23.50	175.38	2118	-475	38	397	0.00	0.00	0.00
2300	23.50	175.38	2209	-515	42	430	0.00	0.00	0.00
2400	23.50	175.38	2301	-555	45	463	0.00	0.00	0.00
2500	23.50	175.38	2393	-595	48	496	0.00	0.00	0.00
2600	23.50	175.38	2484	-634	51	529	0.00	0.00	0.00
2700	23.50	175.38	2576	-674	55	563	0.00	0.00	0.00
2800	23.50	175.38	2668	-714	58	596	0.00	0.00	0.00
2900	23.50	175.38	2760	-754	61	629	0.00	0.00	0.00
3000	23.50	175.38	2851	-793	64	662	0.00	0.00	0.00
3100	23.50	175.38	2943	-833	67	695	0.00	0.00	0.00
3200	23.50	175.38	3035	-873	71	728	0.00	0.00	0.00
3300	23.50	175.38	3126	-913	74	762	0.00	0.00	0.00
3400	23.50	175.38	3218	-952	77	795	0.00	0.00	0.00
3500	23.50	175.38	3310	-992	80	828	0.00	0.00	0.00
3600	23.50	175.38	3401	-1032	83	861	0.00	0.00	0.00
3700	23.50	175.38	3493	-1072	87	894	0.00	0.00	0.00
3800	23.50	175.38	3585	-1111	90	927	0.00	0.00	0.00
3900	23.50	175.38	3677	-1151	93	961	0.00	0.00	0.00
4000	23.50	175.38	3768	-1191	96	994	0.00	0.00	0.00
4100	23.50	175.38	3860	-1230	100	1027	0.00	0.00	0.00
4200	23.50	175.38	3952	-1270	103	1060	0.00	0.00	0.00
4300	23.50	175.38	4043	-1310	106	1093	0.00	0.00	0.00
4400	23.50	175.38	4135	-1350	109	1126	0.00	0.00	0.00
4500	23.50	175.38	4227	-1389	112	1160	0.00	0.00	0.00
4600	23.50	175.38	4319	-1429	116	1193	0.00	0.00	0.00
4700	23.50	175.38	4410	-1469	119	1226	0.00	0.00	0.00
4788	23.50	175.38	4491	-1504	122	1255	0.00	0.00	0.00
4800	24.29	173.64	4502	-1509	122	1259	8.99	6.72	-14.76
4900	31.61	162.37	4590	-1554	132	1301	9.00	7.32	-11.26
5000	39.58	155.13	4672	-1608	154	1357	9.00	7.96	-7.25
5100	47.86	150.01	4744	-1669	186	1425	9.00	8.28	-5.12



Lonestar Consulting, LLC
Planning Report



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Project:	Venado Canyon Unit	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site:	O11 2206 Pad	North Reference:	True
Well:	# 505H	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	56.32	146.10	4805	-1736	228	1503	9.00	8.46	-3.91
5300	64.87	142.89	4854	-1807	278	1590	9.00	8.56	-3.21
5400	73.49	140.11	4890	-1880	336	1683	9.00	8.62	-2.78
5500	82.14	137.57	4911	-1954	401	1781	9.00	8.65	-2.54
5594	90.32	135.27	4917	-2022	465	1875	9.00	8.67	-2.44
5600	90.32	135.27	4917	-2026	469	1880	0.00	0.00	0.00
5700	90.32	135.27	4916	-2097	540	1980	0.00	0.00	0.00
5800	90.32	135.27	4916	-2168	610	2079	0.00	0.00	0.00
5900	90.32	135.27	4915	-2239	681	2178	0.00	0.00	0.00
6000	90.32	135.27	4915	-2310	751	2278	0.00	0.00	0.00
6100	90.32	135.27	4914	-2381	821	2377	0.00	0.00	0.00
6200	90.32	135.27	4914	-2452	892	2476	0.00	0.00	0.00
6300	90.32	135.27	4913	-2523	962	2576	0.00	0.00	0.00
6400	90.32	135.27	4913	-2594	1032	2675	0.00	0.00	0.00
6500	90.32	135.27	4912	-2665	1103	2775	0.00	0.00	0.00
6600	90.32	135.27	4911	-2736	1173	2874	0.00	0.00	0.00
6700	90.32	135.27	4911	-2807	1244	2973	0.00	0.00	0.00
6800	90.32	135.27	4910	-2878	1314	3073	0.00	0.00	0.00
6900	90.32	135.27	4910	-2949	1384	3172	0.00	0.00	0.00
7000	90.32	135.27	4909	-3020	1455	3271	0.00	0.00	0.00
7100	90.32	135.27	4909	-3091	1525	3371	0.00	0.00	0.00
7200	90.32	135.27	4908	-3162	1595	3470	0.00	0.00	0.00
7300	90.32	135.27	4908	-3233	1666	3570	0.00	0.00	0.00
7400	90.32	135.27	4907	-3304	1736	3669	0.00	0.00	0.00
7500	90.32	135.27	4906	-3376	1807	3768	0.00	0.00	0.00
7600	90.32	135.27	4906	-3447	1877	3868	0.00	0.00	0.00
7700	90.32	135.27	4905	-3518	1947	3967	0.00	0.00	0.00
7800	90.32	135.27	4905	-3589	2018	4066	0.00	0.00	0.00
7900	90.32	135.27	4904	-3660	2088	4166	0.00	0.00	0.00
8000	90.32	135.27	4904	-3731	2158	4265	0.00	0.00	0.00
8100	90.32	135.27	4903	-3802	2229	4365	0.00	0.00	0.00
8200	90.32	135.27	4903	-3873	2299	4464	0.00	0.00	0.00
8300	90.32	135.27	4902	-3944	2370	4563	0.00	0.00	0.00
8400	90.32	135.27	4902	-4015	2440	4663	0.00	0.00	0.00
8500	90.32	135.27	4901	-4086	2510	4762	0.00	0.00	0.00
8600	90.32	135.27	4900	-4157	2581	4861	0.00	0.00	0.00
8700	90.32	135.27	4900	-4228	2651	4961	0.00	0.00	0.00
8800	90.32	135.27	4899	-4299	2721	5060	0.00	0.00	0.00
8900	90.32	135.27	4899	-4370	2792	5160	0.00	0.00	0.00
9000	90.32	135.27	4898	-4441	2862	5259	0.00	0.00	0.00
9100	90.32	135.27	4898	-4512	2933	5358	0.00	0.00	0.00
9200	90.32	135.27	4897	-4583	3003	5458	0.00	0.00	0.00
9300	90.32	135.27	4897	-4654	3073	5557	0.00	0.00	0.00
9400	90.32	135.27	4896	-4725	3144	5656	0.00	0.00	0.00
9500	90.32	135.27	4895	-4796	3214	5756	0.00	0.00	0.00
9600	90.32	135.27	4895	-4867	3284	5855	0.00	0.00	0.00
9700	90.32	135.27	4894	-4938	3355	5955	0.00	0.00	0.00
9800	90.32	135.27	4894	-5010	3425	6054	0.00	0.00	0.00
9900	90.32	135.27	4893	-5081	3496	6153	0.00	0.00	0.00
10,000	90.32	135.27	4893	-5152	3566	6253	0.00	0.00	0.00
10,100	90.32	135.27	4892	-5223	3636	6352	0.00	0.00	0.00
10,200	90.32	135.27	4892	-5294	3707	6451	0.00	0.00	0.00
10,300	90.32	135.27	4891	-5365	3777	6551	0.00	0.00	0.00
10,400	90.32	135.27	4890	-5436	3847	6650	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 505H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Project:	Venado Canyon Unit	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site:	O11 2206 Pad	North Reference:	True
Well:	# 505H	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	90.32	135.27	4890	-5507	3918	6750	0.00	0.00	0.00	
10,600	90.32	135.27	4889	-5578	3988	6849	0.00	0.00	0.00	
10,700	90.32	135.27	4889	-5649	4059	6948	0.00	0.00	0.00	
10,800	90.32	135.27	4888	-5720	4129	7048	0.00	0.00	0.00	
10,900	90.32	135.27	4888	-5791	4199	7147	0.00	0.00	0.00	
11,000	90.32	135.27	4887	-5862	4270	7246	0.00	0.00	0.00	
11,100	90.32	135.27	4887	-5933	4340	7346	0.00	0.00	0.00	
11,200	90.32	135.27	4886	-6004	4410	7445	0.00	0.00	0.00	
11,300	90.32	135.27	4886	-6075	4481	7545	0.00	0.00	0.00	
11,400	90.32	135.27	4885	-6146	4551	7644	0.00	0.00	0.00	
11,500	90.32	135.27	4884	-6217	4622	7743	0.00	0.00	0.00	
11,600	90.32	135.27	4884	-6288	4692	7843	0.00	0.00	0.00	
11,700	90.32	135.27	4883	-6359	4762	7942	0.00	0.00	0.00	
11,800	90.32	135.27	4883	-6430	4833	8041	0.00	0.00	0.00	
11,900	90.32	135.27	4882	-6501	4903	8141	0.00	0.00	0.00	
12,000	90.32	135.27	4882	-6572	4973	8240	0.00	0.00	0.00	
12,100	90.32	135.27	4881	-6644	5044	8340	0.00	0.00	0.00	
12,200	90.32	135.27	4881	-6715	5114	8439	0.00	0.00	0.00	
12,300	90.32	135.27	4880	-6786	5185	8538	0.00	0.00	0.00	
12,400	90.32	135.27	4879	-6857	5255	8638	0.00	0.00	0.00	
12,500	90.32	135.27	4879	-6928	5325	8737	0.00	0.00	0.00	
12,600	90.32	135.27	4878	-6999	5396	8836	0.00	0.00	0.00	
12,700	90.32	135.27	4878	-7070	5466	8936	0.00	0.00	0.00	
12,800	90.32	135.27	4877	-7141	5536	9035	0.00	0.00	0.00	
12,900	90.32	135.27	4877	-7212	5607	9135	0.00	0.00	0.00	
13,000	90.32	135.27	4876	-7283	5677	9234	0.00	0.00	0.00	
13,100	90.32	135.27	4876	-7354	5748	9333	0.00	0.00	0.00	
13,200	90.32	135.27	4875	-7425	5818	9433	0.00	0.00	0.00	
13,300	90.32	135.27	4874	-7496	5888	9532	0.00	0.00	0.00	
13,400	90.32	135.27	4874	-7567	5959	9632	0.00	0.00	0.00	
13,500	90.32	135.27	4873	-7638	6029	9731	0.00	0.00	0.00	
13,571	90.32	135.27	4873	-7689	6079	9801	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										
505H Toe	0.00	0.00	4873	-7689	6079	1,865,797.17	2,847,139.07	36.12701350		-107.41327960
- plan hits target center										
- Circle (radius 100)										
505H Heel	0.00	0.00	4917	-2022	465	1,871,441.01	2,841,502.27	36.14258290		-107.43228780
- plan hits target center										
- Circle (radius 50)										



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 505H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Project:	Venado Canyon Unit	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site:	O11 2206 Pad	North Reference:	True
Well:	# 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface Casing	9.62	12.25	
5533	4914	Intermediate Casing	7.00	8.75	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1289	1276	Ojo Alamo		0.00	0.00	
1447	1425	Kirtland		0.00	0.00	
1686	1646	Fruitland		0.00	0.00	
1898	1841	Pictured Cliffs		0.00	0.00	
2000	1934	Lewis		0.00	0.00	
2777	2647	Chacra		0.00	0.00	
3516	3324	Menefee		0.00	0.00	
4356	4095	Point Lookout		0.00	0.00	
4513	4239	Mancos		0.00	0.00	
4910	4599	Mancos Silt		0.00	0.00	



DJR Operating

Venado Canyon Unit

O11 2206 Pad

505H

Original Drilling

APD

Anticollision Report

04 May, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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	5/4/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	13,571	APD (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM	

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	425	425	20	17	7.526	CC
# 504H - Original Drilling - APD	1200	1205	24	16	3.000	ES
# 504H - Original Drilling - APD	1300	1305	25	17	2.874	SF
# 506H - Original Drilling - APD	425	425	40	37	15.145	CC
# 506H - Original Drilling - APD	900	905	43	37	7.186	ES
# 506H - Original Drilling - APD	13,000	13,819	757	388	2.055	SF
# 507H - Original Drilling - APD	574	573	20	16	5.392	CC
# 507H - Original Drilling - APD	700	698	20	16	4.501	ES
# 507H - Original Drilling - APD	900	897	24	18	4.106	SF
# 508H - Original Drilling - APD	425	425	80	77	30.286	CC, ES
# 508H - Original Drilling - APD	12,400	12,774	1245	834	3.025	SF
# 509H - Original Drilling - APD	425	425	60	57	22.724	CC, ES
# 509H - Original Drilling - APD	1000	1004	81	74	12.048	SF

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		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	0	0	0	0	33.28	17	11	20					
100	100	100	100	0	0	33.28	17	11	20	20	0.31	64.405		
200	200	200	200	1	1	33.28	17	11	20	19	1.03	19.367		
300	300	300	300	1	1	33.28	17	11	20	18	1.74	11.397		
400	400	400	400	1	1	33.28	17	11	20	17	2.46	8.074		
425	425	425	425	1	1	33.28	17	11	20	17	2.64	7.526 CC		
500	500	500	500	2	2	-143.05	16	11	20	17	3.16	6.428		
600	600	601	601	2	2	-144.57	13	11	21	17	3.82	5.480		
700	700	701	701	2	2	-146.06	6	12	22	17	4.50	4.789		
800	799	802	801	3	3	-147.55	-5	12	22	17	5.20	4.264		
900	898	903	901	3	3	-149.04	-19	13	23	17	5.90	3.850		
1000	996	1004	1000	3	3	-150.53	-37	14	23	17	6.62	3.515		
1100	1094	1104	1099	4	4	-152.03	-58	16	24	16	7.35	3.236		
1200	1191	1205	1196	4	4	-153.54	-82	17	24	16	8.09	3.000 ES		
1300	1286	1305	1293	5	5	-155.77	-109	19	25	17	8.85	2.874 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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	Rule Assigned:												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
1400	1381	1405	1389	5	5	-160.18	-136	21	30	20	9.61	3.092		
1500	1475	1505	1485	6	6	-164.97	-163	23	37	27	10.36	3.615		
1600	1567	1604	1580	6	6	-168.93	-190	25	49	38	11.13	4.384		
1700	1659	1703	1676	7	7	-171.66	-217	26	62	50	11.92	5.203		
1800	1751	1802	1771	8	7	-173.43	-244	28	75	63	12.72	5.922		
1900	1842	1901	1866	8	8	-174.67	-271	30	89	75	13.52	6.555		
2000	1934	2000	1962	9	8	-175.58	-298	32	102	88	14.34	7.115		
2100	2026	2100	2057	10	9	-176.29	-324	34	115	100	15.16	7.614		
2200	2118	2199	2153	10	9	-176.84	-351	35	129	113	15.98	8.061		
2300	2209	2298	2248	11	10	-177.29	-378	37	142	125	16.81	8.462		
2400	2301	2397	2343	11	10	-177.67	-405	39	156	138	17.64	8.824		
2500	2393	2496	2439	12	11	-177.98	-432	41	169	151	18.47	9.153		
2600	2484	2595	2534	13	11	-178.25	-459	43	183	163	19.31	9.453		
2700	2576	2694	2629	13	12	-178.48	-486	44	196	176	20.14	9.727		
2800	2668	2793	2725	14	12	-178.68	-513	46	209	188	20.98	9.979		
2900	2759	2892	2820	15	13	-178.86	-539	48	223	201	21.82	10.211		
3000	2851	2991	2915	15	13	-179.02	-566	50	236	214	22.66	10.425		
3100	2943	3090	3011	16	14	-179.16	-593	52	250	226	23.51	10.623		
3200	3035	3190	3106	17	14	-179.28	-620	53	263	239	24.35	10.807		
3300	3126	3289	3202	17	15	-179.40	-647	55	277	251	25.20	10.978		
3400	3218	3388	3297	18	15	-179.50	-674	57	290	264	26.04	11.138		
3500	3310	3487	3392	19	16	-179.60	-701	59	304	277	26.89	11.288		
3600	3401	3586	3488	19	16	-179.68	-728	61	317	289	27.73	11.428		
3700	3493	3685	3583	20	17	-179.76	-754	62	330	302	28.58	11.560		
3800	3585	3784	3678	21	17	-179.83	-781	64	344	314	29.43	11.684		
3900	3677	3883	3774	21	18	-179.90	-808	66	357	327	30.28	11.801		
4000	3768	3982	3869	22	19	-179.96	-835	68	371	340	31.13	11.911		
4100	3860	4081	3964	23	19	-179.98	-862	70	384	352	31.98	12.015		
4200	3952	4180	4060	24	20	-179.93	-889	71	398	365	32.83	12.114		
4300	4043	4280	4155	24	20	-179.87	-916	73	411	377	33.68	12.208		
4400	4135	4379	4250	25	21	-179.83	-943	75	425	390	34.53	12.297		
4500	4227	4478	4346	26	21	-179.78	-969	77	438	403	35.38	12.381		
4600	4318	4577	4441	26	22	-179.74	-996	79	451	415	36.23	12.462		
4700	4410	4676	4537	27	22	-179.70	-1023	80	465	428	37.08	12.538		
4788	4491	4753	4611	27	23	-179.67	-1044	82	477	439	37.77	12.626		
4800	4502	4767	4624	28	23	-178.65	-1048	82	479	441	37.88	12.634		
4850	4547	4800	4656	28	23	-172.62	-1056	81	489	451	38.19	12.810		
4900	4590	4827	4683	28	23	-167.86	-1061	80	504	466	38.41	13.130		
4950	4632	4850	4705	29	23	-163.85	-1065	78	524	485	38.55	13.594		
5000	4671	4880	4734	29	23	-160.66	-1070	75	548	509	38.77	14.130		
5050	4709	4900	4754	30	23	-157.41	-1072	72	576	537	38.86	14.814		
5100	4744	4922	4776	30	23	-154.33	-1074	69	607	568	38.99	15.573		
5150	4776	4938	4792	31	23	-150.85	-1076	66	642	603	39.07	16.434		
5200	4805	4950	4803	31	23	-146.66	-1076	64	680	641	39.09	17.392		
5250	4831	4963	4817	32	23	-142.06	-1077	61	720	681	39.19	18.374		
5300	4854	4972	4825	33	23	-136.19	-1077	59	762	723	39.25	19.426		
5350	4874	4979	4831	33	23	-128.95	-1077	58	806	767	39.31	20.515		
5400	4890	4983	4836	34	23	-120.10	-1077	57	852	812	39.37	21.627		
5450	4902	4985	4838	35	24	-109.68	-1078	56	898	858	39.45	22.753		
5500	4911	5000	4852	35	24	-100.58	-1078	53	944	905	39.82	23.715		
5550	4916	4985	4837	36	23	-86.51	-1078	56	991	951	39.63	24.998		
5594	4917	4982	4835	37	23	-76.88	-1077	57	1032	992	39.73	25.976		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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		
Measured Depth	Reference	Vertical	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
5600	4917	4982	4835	37	23	-76.83	-1077	57	1037	998	39.74	26.101		
5700	4916	4976	4829	39	23	-76.05	-1077	58	1131	1091	39.97	28.291		
5800	4916	4971	4824	40	23	-75.36	-1077	60	1225	1185	40.18	30.491		
5900	4915	4950	4803	42	23	-72.64	-1076	64	1321	1281	40.11	32.925		
6000	4915	4950	4803	44	23	-72.64	-1076	64	1416	1376	40.37	35.082		
6100	4914	4950	4803	46	23	-72.64	-1076	64	1513	1472	40.60	37.250		
6200	4914	4950	4803	48	23	-72.64	-1076	64	1609	1568	40.82	39.425		
6300	4913	4950	4803	50	23	-72.64	-1076	64	1706	1665	41.01	41.608		
6400	4913	4950	4803	52	23	-72.64	-1076	64	1804	1762	41.18	43.796		
6500	4912	4950	4803	55	23	-72.64	-1076	64	1901	1860	41.34	45.987		
6600	4911	4950	4803	57	23	-72.64	-1076	64	1999	1958	41.49	48.181		
6700	4911	4950	4803	59	23	-72.64	-1076	64	2097	2056	41.63	50.378		
6800	4910	4950	4803	61	23	-72.64	-1076	64	2196	2154	41.76	52.575		
6900	4910	4950	4803	64	23	-72.64	-1076	64	2294	2252	41.88	54.773		
7000	4909	4950	4803	66	23	-72.64	-1076	64	2393	2351	42.00	56.971		
7100	4909	4950	4803	68	23	-72.64	-1076	64	2491	2449	42.10	59.169		
7200	4908	4950	4803	71	23	-72.64	-1076	64	2590	2548	42.21	61.366		
7300	4908	4950	4803	73	23	-72.64	-1076	64	2689	2647	42.30	63.561		
7400	4907	4929	4783	75	23	-70.06	-1075	68	2787	2745	42.17	66.097		
7500	4906	4928	4782	78	23	-69.89	-1075	68	2886	2844	42.25	68.316		
7600	4906	4926	4780	80	23	-69.74	-1075	68	2985	2943	42.33	70.532		
7700	4905	4925	4779	83	23	-69.59	-1075	68	3084	3042	42.40	72.745		
7800	4905	4924	4778	85	23	-69.46	-1075	69	3184	3141	42.47	74.954		
7900	4904	4923	4777	88	23	-69.33	-1075	69	3283	3240	42.54	77.160		
8000	4904	4922	4776	90	23	-69.20	-1074	69	3382	3339	42.61	79.363		
8100	4903	4900	4754	92	23	-66.66	-1072	72	3482	3439	42.48	81.969		
8200	4903	4900	4754	95	23	-66.66	-1072	72	3581	3538	42.55	84.150		
8300	4902	4900	4754	97	23	-66.66	-1072	72	3680	3638	42.63	86.328		
8400	4902	4900	4754	100	23	-66.66	-1072	72	3780	3737	42.71	88.501		
8500	4901	4900	4754	102	23	-66.66	-1072	72	3879	3836	42.78	90.671		
8600	4900	4900	4754	105	23	-66.66	-1072	72	3978	3936	42.85	92.836		
8700	4900	4900	4754	107	23	-66.66	-1072	72	4078	4035	42.93	94.997		
8800	4899	4900	4754	110	23	-66.66	-1072	72	4177	4134	43.00	97.154		
8900	4899	4900	4754	112	23	-66.66	-1072	72	4277	4234	43.07	99.306		
9000	4898	4900	4754	115	23	-66.66	-1072	72	4376	4333	43.14	101.453		
9100	4898	4900	4754	117	23	-66.66	-1072	72	4476	4433	43.21	103.595		
9200	4897	4900	4754	120	23	-66.66	-1072	72	4575	4532	43.27	105.732		
9300	4897	4900	4754	122	23	-66.66	-1072	72	4675	4632	43.34	107.864		
9400	4896	4900	4754	125	23	-66.66	-1072	72	4775	4731	43.41	109.991		
9500	4895	4900	4754	127	23	-66.66	-1072	72	4874	4831	43.48	112.113		
9600	4895	4900	4754	130	23	-66.66	-1072	72	4974	4930	43.54	114.229		
9700	4894	4900	4754	133	23	-66.66	-1072	72	5073	5030	43.61	116.340		
9800	4894	4900	4754	135	23	-66.66	-1072	72	5173	5129	43.68	118.445		
9900	4893	4900	4754	138	23	-66.66	-1072	72	5273	5229	43.74	120.544		
10,000	4893	4900	4754	140	23	-66.66	-1072	72	5373	5329	43.81	122.638		
10,100	4892	4900	4754	143	23	-66.66	-1072	72	5472	5428	43.87	124.726		
10,200	4892	4900	4754	145	23	-66.66	-1072	72	5572	5528	43.94	126.808		
10,300	4891	4900	4754	148	23	-66.66	-1072	72	5672	5628	44.01	128.884		
10,400	4890	4900	4754	150	23	-66.66	-1072	72	5771	5727	44.07	130.953		
10,500	4890	4900	4754	153	23	-66.66	-1072	72	5871	5827	44.14	133.017		
10,600	4889	4900	4754	155	23	-66.66	-1072	72	5971	5927	44.20	135.074		
10,700	4889	4900	4754	158	23	-66.66	-1072	72	6071	6026	44.27	137.125		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				(ft)	(ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,800	4888	4900	4754	160	23	-66.66	-1072	72	6170	6126	44.34	139.170	
10,900	4888	4900	4754	163	23	-66.66	-1072	72	6270	6226	44.40	141.208	
11,000	4887	4900	4754	166	23	-66.66	-1072	72	6370	6325	44.47	143.240	
11,100	4887	4900	4754	168	23	-66.66	-1072	72	6470	6425	44.54	145.265	
11,200	4886	4900	4754	171	23	-66.66	-1072	72	6569	6525	44.60	147.284	
11,300	4886	4900	4754	173	23	-66.66	-1072	72	6669	6625	44.67	149.296	
11,400	4885	4900	4754	176	23	-66.66	-1072	72	6769	6724	44.74	151.302	
11,500	4884	4900	4754	178	23	-66.66	-1072	72	6869	6824	44.81	153.300	
11,600	4884	4900	4754	181	23	-66.66	-1072	72	6969	6924	44.87	155.292	
11,700	4883	4900	4754	183	23	-66.66	-1072	72	7068	7024	44.94	157.277	
11,800	4883	4900	4754	186	23	-66.66	-1072	72	7168	7123	45.01	159.256	
11,900	4882	4900	4754	189	23	-66.66	-1072	72	7268	7223	45.08	161.227	
12,000	4882	4900	4754	191	23	-66.66	-1072	72	7368	7323	45.15	163.192	
12,100	4881	4900	4754	194	23	-66.66	-1072	72	7468	7423	45.22	165.149	
12,200	4881	4900	4754	196	23	-66.66	-1072	72	7568	7522	45.29	167.099	
12,300	4880	4900	4754	199	23	-66.66	-1072	72	7667	7622	45.36	169.043	
12,400	4879	4900	4754	201	23	-66.66	-1072	72	7767	7722	45.43	170.979	
12,500	4879	4900	4754	204	23	-66.66	-1072	72	7867	7822	45.50	172.908	
12,600	4878	4900	4754	206	23	-66.66	-1072	72	7967	7921	45.57	174.830	
12,700	4878	4900	4754	209	23	-66.66	-1072	72	8067	8021	45.64	176.745	
12,800	4877	4900	4754	212	23	-66.66	-1072	72	8167	8121	45.71	178.653	
12,900	4877	4900	4754	214	23	-66.66	-1072	72	8267	8221	45.78	180.554	
13,000	4876	4900	4754	217	23	-66.66	-1072	72	8367	8321	45.86	182.447	
13,100	4876	4900	4754	219	23	-66.66	-1072	72	8466	8420	45.93	184.333	
13,200	4875	4900	4754	222	23	-66.66	-1072	72	8566	8520	46.00	186.212	
13,300	4874	4900	4754	224	23	-66.66	-1072	72	8666	8620	46.08	188.083	
13,400	4874	4900	4754	227	23	-66.66	-1072	72	8766	8720	46.15	189.948	
13,500	4873	4900	4754	230	23	-66.66	-1072	72	8866	8820	46.22	191.804	
13,571	4873	4900	4754	231	23	-66.66	-1072	72	8937	8891	46.28	193.120	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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	Rule Assigned:												
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S	+E/-W	Between Centres	Between Ellipses	(ft)			
							(ft)	(ft)	(ft)	(ft)	(ft)			
0	0	0	0	0	0	33.25	33	22	40					
100	100	100	100	0	0	33.25	33	22	40	40	0.31	129.613		
200	200	200	200	1	1	33.25	33	22	40	39	1.03	38.975		
300	300	300	300	1	1	33.25	33	22	40	38	1.74	22.936		
400	400	400	400	1	1	33.25	33	22	40	37	2.46	16.249		
425	425	425	425	1	1	33.25	33	22	40	37	2.64	15.145 CC		
500	500	501	501	2	2	-142.61	33	22	40	37	3.16	12.793		
600	600	602	602	2	2	-143.38	29	22	41	37	3.82	10.724		
700	700	703	703	2	2	-144.17	22	23	42	37	4.51	9.221		
800	799	804	803	3	3	-144.97	12	23	42	37	5.21	8.082		
900	898	905	903	3	3	-145.79	-3	24	43	37	5.92	7.186 ES		
1000	996	1006	1002	3	3	-147.47	-19	25	44	37	6.65	6.611		
1100	1094	1105	1101	4	4	-151.10	-35	26	48	41	7.39	6.554		
1200	1191	1205	1199	4	4	-155.64	-52	27	56	48	8.13	6.914		
1300	1286	1304	1297	5	5	-160.08	-68	28	68	59	8.87	7.612		
1400	1381	1403	1394	5	5	-163.91	-84	29	82	73	9.61	8.574		
1500	1475	1501	1491	6	5	-166.99	-100	30	101	91	10.36	9.742		
1600	1567	1599	1587	6	6	-169.40	-116	31	123	112	11.12	11.067		
1700	1659	1696	1683	7	6	-171.25	-132	32	147	135	11.88	12.373		
1800	1751	1793	1779	8	7	-172.58	-148	33	171	158	12.64	13.526		
1900	1842	1890	1874	8	7	-173.58	-164	34	195	182	13.41	14.547		
2000	1934	1987	1970	9	7	-174.36	-180	35	219	205	14.19	15.454		
2100	2026	2084	2066	10	8	-174.99	-195	36	243	228	14.97	16.265		
2200	2118	2181	2161	10	8	-175.50	-211	38	268	252	15.75	16.994		
2300	2209	2278	2257	11	9	-175.93	-227	39	292	275	16.53	17.652		
2400	2301	2375	2353	11	9	-176.30	-243	40	316	299	17.32	18.249		
2500	2393	2472	2448	12	10	-176.61	-259	41	340	322	18.11	18.791		
2600	2484	2569	2544	13	10	-176.88	-275	42	365	346	18.90	19.288		
2700	2576	2666	2640	13	10	-177.11	-291	43	389	369	19.70	19.743		
2800	2668	2763	2736	14	11	-177.32	-307	44	413	393	20.49	20.161		
2900	2759	2860	2831	15	11	-177.51	-322	45	437	416	21.29	20.548		
3000	2851	2957	2927	15	12	-177.67	-338	46	462	440	22.08	20.906		
3100	2943	3054	3023	16	12	-177.82	-354	47	486	463	22.88	21.238		
3200	3035	3151	3118	17	12	-177.96	-370	48	510	486	23.68	21.547		
3300	3126	3248	3214	17	13	-178.08	-386	49	534	510	24.48	21.835		
3400	3218	3345	3310	18	13	-178.19	-402	50	559	533	25.28	22.104		
3500	3310	3442	3405	19	14	-178.29	-418	51	583	557	26.08	22.357		
3600	3401	3539	3501	19	14	-178.39	-434	52	607	580	26.88	22.594		
3700	3493	3636	3597	20	14	-178.48	-449	53	632	604	27.68	22.817		
3800	3585	3733	3692	21	15	-178.56	-465	54	656	627	28.48	23.027		
3900	3677	3830	3788	21	15	-178.63	-481	55	680	651	29.29	23.225		
4000	3768	3927	3884	22	16	-178.70	-497	56	704	674	30.09	23.412		
4100	3860	4024	3979	23	16	-178.77	-513	57	729	698	30.89	23.589		
4200	3952	4121	4075	24	17	-178.83	-529	58	753	721	31.70	23.757		
4300	4043	4218	4171	24	17	-178.89	-545	59	777	745	32.50	23.917		
4400	4135	4315	4267	25	17	-178.94	-561	60	802	768	33.31	24.068		
4500	4227	4412	4362	26	18	-178.99	-576	61	826	792	34.11	24.212		
4600	4318	4509	4458	26	18	-179.04	-592	62	850	815	34.92	24.350		
4700	4410	4606	4554	27	19	-179.08	-608	63	874	839	35.72	24.481		
4788	4491	4691	4638	27	19	-179.12	-622	64	896	859	36.43	24.591		
4800	4502	4703	4649	28	19	-177.36	-624	64	899	862	36.53	24.607		
4850	4547	4750	4697	28	19	-170.91	-632	64	913	876	36.93	24.720		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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			Offset Wellbore Centre		Distance		Minimum Separation	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)			
4900	4590	4797	4743	28	19	-165.79	-640	65	930	893	37.34	24.901	
4950	4632	5878	5368	29	30	-140.22	-1205	527	912	873	38.89	23.459	
5000	4671	5906	5368	29	30	-138.44	-1225	547	887	847	40.73	21.782	
5050	4709	5937	5368	30	31	-136.82	-1247	569	865	822	42.67	20.270	
5100	4744	5971	5368	30	31	-135.29	-1272	593	845	800	44.65	18.922	
5150	4776	6008	5368	31	32	-133.82	-1298	619	828	781	46.69	17.727	
5200	4805	6048	5368	31	33	-132.41	-1326	647	813	764	48.76	16.668	
5250	4831	6090	5367	32	33	-131.07	-1356	676	800	749	50.83	15.740	
5300	4854	6134	5367	33	34	-129.82	-1387	707	790	737	52.91	14.923	
5350	4874	6179	5367	33	35	-128.70	-1419	739	781	726	54.97	14.211	
5400	4890	6226	5366	34	36	-127.73	-1453	772	775	718	57.00	13.590	
5450	4902	6274	5366	35	37	-126.95	-1487	806	770	711	58.97	13.051	
5500	4911	6324	5366	35	38	-126.38	-1522	841	766	705	60.87	12.587	
5550	4916	6373	5366	36	39	-126.04	-1557	876	764	702	62.68	12.192	
5594	4917	6417	5365	37	40	-125.95	-1589	907	764	699	64.19	11.896	
5600	4917	6423	5365	37	40	-125.95	-1593	911	764	699	64.38	11.861	
5700	4916	6523	5365	39	43	-125.96	-1664	981	764	696	67.73	11.273	
5800	4916	6623	5364	40	45	-125.96	-1735	1051	763	692	71.19	10.724	
5900	4915	6723	5364	42	47	-125.96	-1806	1122	763	689	74.73	10.215	
6000	4915	6823	5363	44	49	-125.96	-1877	1192	763	685	78.34	9.742	
6100	4914	6923	5362	46	52	-125.96	-1948	1262	763	681	82.02	9.304	
6200	4914	7023	5362	48	54	-125.97	-2020	1333	763	677	85.76	8.898	
6300	4913	7123	5361	50	56	-125.97	-2091	1403	763	673	89.55	8.521	
6400	4913	7223	5361	52	59	-125.97	-2162	1473	763	670	93.37	8.170	
6500	4912	7323	5360	55	61	-125.97	-2233	1544	763	666	97.24	7.844	
6600	4911	7423	5359	57	64	-125.97	-2304	1614	763	662	101.14	7.541	
6700	4911	7523	5359	59	66	-125.98	-2375	1684	763	658	105.07	7.258	
6800	4910	7623	5358	61	69	-125.98	-2446	1755	763	653	109.02	6.994	
6900	4910	7723	5358	64	71	-125.98	-2517	1825	762	649	113.00	6.747	
7000	4909	7823	5357	66	73	-125.98	-2588	1895	762	645	117.00	6.515	
7100	4909	7923	5357	68	76	-125.98	-2660	1965	762	641	121.02	6.298	
7200	4908	8023	5356	71	78	-125.99	-2731	2036	762	637	125.06	6.094	
7300	4908	8123	5355	73	81	-125.99	-2802	2106	762	633	129.11	5.902	
7400	4907	8223	5355	75	83	-125.99	-2873	2176	762	629	133.18	5.721	
7500	4906	8323	5354	78	86	-125.99	-2944	2247	762	625	137.26	5.550	
7600	4906	8423	5354	80	88	-125.99	-3015	2317	762	620	141.35	5.389	
7700	4905	8523	5353	83	91	-126.00	-3086	2387	762	616	145.45	5.237	
7800	4905	8623	5352	85	93	-126.00	-3157	2458	762	612	149.56	5.092	
7900	4904	8723	5352	88	96	-126.00	-3228	2528	761	608	153.68	4.955	
8000	4904	8823	5351	90	98	-126.00	-3300	2598	761	604	157.81	4.825	
8100	4903	8923	5351	92	101	-126.00	-3371	2669	761	599	161.94	4.701	
8200	4903	9023	5350	95	103	-126.01	-3442	2739	761	595	166.09	4.583	
8300	4902	9123	5349	97	106	-126.01	-3513	2809	761	591	170.23	4.471	
8400	4902	9223	5349	100	109	-126.01	-3584	2879	761	587	174.39	4.364	
8500	4901	9323	5348	102	111	-126.01	-3655	2950	761	582	178.55	4.262	
8600	4900	9423	5348	105	114	-126.01	-3726	3020	761	578	182.72	4.164	
8700	4900	9523	5347	107	116	-126.02	-3797	3090	761	574	186.89	4.070	
8800	4899	9623	5347	110	119	-126.02	-3868	3161	761	570	191.06	3.981	
8900	4899	9723	5346	112	121	-126.02	-3939	3231	761	565	195.24	3.895	
9000	4898	9823	5345	115	124	-126.02	-4011	3301	760	561	199.42	3.813	
9100	4898	9923	5345	117	126	-126.02	-4082	3372	760	557	203.61	3.734	
9200	4897	10,023	5344	120	129	-126.03	-4153	3442	760	552	207.80	3.658	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9300	4897	10,123	5344	122	131	-126.03	-4224	3512	760	548	211.99	3.586	
9400	4896	10,223	5343	125	134	-126.03	-4295	3583	760	544	216.19	3.516	
9500	4895	10,323	5342	127	137	-126.03	-4366	3653	760	540	220.39	3.448	
9600	4895	10,423	5342	130	139	-126.03	-4437	3723	760	535	224.59	3.383	
9700	4894	10,523	5341	133	142	-126.04	-4508	3793	760	531	228.79	3.321	
9800	4894	10,623	5341	135	144	-126.04	-4579	3864	760	527	233.00	3.260	
9900	4893	10,723	5340	138	147	-126.04	-4651	3934	760	522	237.21	3.202	
10,000	4893	10,823	5340	140	149	-126.04	-4722	4004	759	518	241.42	3.146	
10,100	4892	10,923	5339	143	152	-126.04	-4793	4075	759	514	245.63	3.092	
10,200	4892	11,023	5338	145	154	-126.05	-4864	4145	759	509	249.84	3.039	
10,300	4891	11,123	5338	148	157	-126.05	-4935	4215	759	505	254.06	2.988	
10,400	4890	11,223	5337	150	160	-126.05	-5006	4286	759	501	258.28	2.939	
10,500	4890	11,323	5337	153	162	-126.05	-5077	4356	759	497	262.50	2.891	
10,600	4889	11,423	5336	155	165	-126.05	-5148	4426	759	492	266.72	2.845	
10,700	4889	11,523	5335	158	167	-126.06	-5219	4497	759	488	270.94	2.801	
10,800	4888	11,623	5335	160	170	-126.06	-5291	4567	759	484	275.16	2.757	
10,900	4888	11,723	5334	163	172	-126.06	-5362	4637	759	479	279.39	2.715	
11,000	4887	11,823	5334	166	175	-126.06	-5433	4707	759	475	283.61	2.675	
11,100	4887	11,923	5333	168	177	-126.06	-5504	4778	758	471	287.84	2.635	
11,200	4886	12,023	5333	171	180	-126.07	-5575	4848	758	466	292.07	2.596	
11,300	4886	12,123	5332	173	183	-126.07	-5646	4918	758	462	296.29	2.559	
11,400	4885	12,223	5331	176	185	-126.07	-5717	4989	758	458	300.52	2.523	
11,500	4884	12,323	5331	178	188	-126.07	-5788	5059	758	453	304.75	2.487	
11,600	4884	12,423	5330	181	190	-126.07	-5859	5129	758	449	308.99	2.453	
11,700	4883	12,523	5330	183	193	-126.08	-5931	5200	758	445	313.22	2.420	
11,800	4883	12,623	5329	186	195	-126.08	-6002	5270	758	440	317.45	2.387	
11,900	4882	12,723	5328	189	198	-126.08	-6073	5340	758	436	321.69	2.355	
12,000	4882	12,823	5328	191	201	-126.08	-6144	5411	758	432	325.92	2.324	
12,100	4881	12,923	5327	194	203	-126.08	-6215	5481	757	427	330.15	2.294	
12,200	4881	13,023	5327	196	206	-126.09	-6286	5551	757	423	334.39	2.265	
12,300	4880	13,123	5326	199	208	-126.09	-6357	5622	757	419	338.63	2.236	
12,400	4879	13,223	5325	201	211	-126.09	-6428	5692	757	414	342.86	2.208	
12,500	4879	13,323	5324	204	213	-126.09	-6499	5762	757	410	347.10	2.181	
12,600	4878	13,423	5324	206	216	-126.09	-6570	5832	757	406	351.34	2.155	
12,700	4878	13,523	5324	209	219	-126.10	-6642	5903	757	401	355.58	2.129	
12,800	4877	13,623	5323	212	221	-126.10	-6713	5973	757	397	359.82	2.103	
12,900	4877	13,723	5323	214	224	-126.10	-6784	6043	757	393	364.06	2.079	
12,996	4876	13,819	5322	217	226	-126.10	-6852	6111	757	389	368.11	2.055	
13,000	4876	13,819	5322	217	226	-126.10	-6852	6111	757	388	368.12	2.055 SF	
13,100	4876	13,819	5322	219	226	-126.10	-6852	6111	764	398	365.22	2.091	
13,200	4875	13,819	5322	222	226	-126.10	-6852	6111	784	427	356.57	2.197	
13,300	4874	13,819	5322	224	226	-126.10	-6852	6111	815	472	343.40	2.374	
13,400	4874	13,819	5322	227	226	-126.10	-6852	6111	858	530	327.24	2.621	
13,500	4873	13,819	5322	230	226	-126.10	-6852	6111	909	599	309.59	2.936	
13,571	4873	13,819	5322	231	226	-126.10	-6852	6111	950	653	296.80	3.201	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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	Rule Assigned:												
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)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	-146.50	-17	-11	20					
100	100	100	100	0	0	-146.50	-17	-11	20	20	0.31	65.418		
200	200	200	200	1	1	-146.50	-17	-11	20	19	1.03	19.671		
300	300	300	300	1	1	-146.50	-17	-11	20	18	1.74	11.576		
400	400	400	400	1	1	-146.50	-17	-11	20	18	2.46	8.201		
425	425	425	425	1	1	-146.50	-17	-11	20	18	2.64	7.644		
500	500	500	500	2	2	39.40	-17	-11	20	17	3.15	6.279		
574	574	573	573	2	2	42.13	-19	-12	20	16	3.64	5.392 CC		
600	600	599	599	2	2	43.42	-21	-12	20	16	3.82	5.153		
700	700	698	698	2	2	49.61	-27	-13	20	16	4.49	4.501 ES		
800	799	798	797	3	3	57.11	-37	-15	22	17	5.19	4.182		
900	898	897	895	3	3	64.84	-51	-18	24	18	5.93	4.106 SF		
1000	996	996	993	3	3	71.87	-68	-21	28	21	6.70	4.200		
1100	1094	1096	1090	4	4	77.73	-88	-25	33	26	7.52	4.407		
1200	1191	1195	1187	4	4	82.38	-111	-30	39	31	8.40	4.681		
1300	1286	1294	1282	5	5	85.98	-138	-35	47	37	9.34	4.990		
1400	1381	1393	1376	5	5	88.73	-168	-41	55	45	10.34	5.312		
1500	1475	1492	1469	6	6	90.82	-201	-48	64	53	11.40	5.633		
1600	1567	1591	1561	6	6	92.41	-237	-55	75	62	12.54	5.943		
1700	1659	1691	1653	7	7	93.82	-275	-63	85	72	13.73	6.212		
1800	1751	1790	1744	8	7	94.91	-312	-70	96	81	14.94	6.431		
1900	1842	1889	1836	8	8	95.78	-350	-78	107	91	16.17	6.612		
2000	1934	1989	1928	9	9	96.49	-388	-85	118	100	17.42	6.763		
2100	2026	2088	2019	10	9	97.09	-426	-93	129	110	18.67	6.890		
2200	2118	2188	2111	10	10	97.58	-464	-100	140	120	19.94	7.000		
2300	2209	2287	2203	11	11	98.01	-501	-108	150	129	21.21	7.094		
2400	2301	2386	2294	11	11	98.38	-539	-116	161	139	22.49	7.175		
2500	2393	2486	2386	12	12	98.70	-577	-123	172	148	23.77	7.247		
2600	2484	2585	2477	13	12	98.98	-615	-131	183	158	25.06	7.310		
2700	2576	2685	2569	13	13	99.24	-653	-138	194	168	26.35	7.366		
2800	2668	2784	2661	14	14	99.46	-690	-146	205	177	27.64	7.417		
2900	2759	2883	2752	15	14	99.66	-728	-153	216	187	28.94	7.462		
3000	2851	2983	2844	15	15	99.85	-766	-161	227	197	30.24	7.503		
3100	2943	3082	2935	16	16	100.01	-804	-168	238	206	31.54	7.539		
3200	3035	3182	3027	17	16	100.16	-842	-176	249	216	32.84	7.573		
3300	3126	3281	3119	17	17	100.30	-880	-184	260	225	34.15	7.604		
3400	3218	3380	3210	18	18	100.43	-917	-191	271	235	35.45	7.632		
3500	3310	3480	3302	19	18	100.55	-955	-199	281	245	36.76	7.658		
3600	3401	3579	3394	19	19	100.66	-993	-206	292	254	38.07	7.682		
3700	3493	3679	3485	20	20	100.76	-1031	-214	303	264	39.38	7.704		
3800	3585	3778	3577	21	20	100.85	-1069	-221	314	274	40.69	7.725		
3900	3677	3877	3668	21	21	100.94	-1106	-229	325	283	42.00	7.744		
4000	3768	3977	3760	22	21	101.02	-1144	-237	336	293	43.31	7.762		
4100	3860	4076	3852	23	22	101.10	-1182	-244	347	302	44.62	7.779		
4200	3952	4176	3943	24	23	101.17	-1220	-252	358	312	45.94	7.794		
4300	4043	4275	4035	24	23	101.24	-1258	-259	369	322	47.25	7.809		
4400	4135	4374	4126	25	24	101.30	-1295	-267	380	331	48.57	7.823		
4500	4227	4464	4209	26	25	101.38	-1329	-274	391	341	49.74	7.865		
4600	4318	4529	4270	26	25	101.85	-1351	-283	409	358	50.30	8.126		
4700	4410	4600	4337	27	25	102.91	-1369	-298	435	384	50.73	8.567		
4788	4491	4650	4384	27	26	103.93	-1378	-312	464	413	50.52	9.179		
4800	4502	4650	4384	28	26	105.29	-1378	-312	468	418	50.25	9.316		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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			Offset Wellbore Centre		Distance		Rule Assigned:	
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)	
4850	4547	4676	4408	28	26	110.48	-1382	-320	490	440	49.98	9.801
4900	4590	4700	4431	28	26	114.07	-1384	-328	516	466	49.68	10.389
4950	4632	4722	4451	29	26	116.36	-1386	-336	547	497	49.36	11.074
5000	4671	4750	4477	29	26	118.01	-1388	-347	581	532	49.40	11.761
5050	4709	4750	4477	30	26	116.88	-1388	-347	618	570	48.42	12.771
5100	4744	4769	4494	30	26	115.97	-1388	-355	659	610	48.36	13.621
5150	4776	4780	4504	31	26	113.09	-1389	-360	701	653	48.08	14.590
5200	4805	4800	4522	31	26	109.88	-1388	-369	746	698	48.28	15.456
5250	4831	4800	4522	32	26	102.13	-1388	-369	792	744	47.87	16.549
5300	4854	4800	4522	33	26	91.43	-1388	-369	839	792	47.59	17.635
5350	4874	4800	4522	33	26	77.82	-1388	-369	887	840	47.43	18.702
5400	4890	4800	4522	34	26	62.61	-1388	-369	935	888	47.37	19.738
5450	4902	4800	4522	35	26	48.10	-1388	-369	983	936	47.41	20.736
5500	4911	4800	4522	35	26	35.97	-1388	-369	1031	983	47.53	21.690
5550	4916	4800	4522	36	26	26.57	-1388	-369	1078	1030	47.71	22.598
5594	4917	4800	4522	37	26	20.15	-1388	-369	1119	1072	47.92	23.363
5600	4917	4800	4522	37	26	20.15	-1388	-369	1125	1077	47.94	23.459
5700	4916	4774	4499	39	26	18.15	-1389	-357	1217	1169	47.70	25.512
5800	4916	4750	4477	40	26	16.42	-1388	-347	1311	1263	47.50	27.591
5900	4915	4750	4477	42	26	16.42	-1388	-347	1405	1357	47.88	29.334
6000	4915	4750	4477	44	26	16.42	-1388	-347	1499	1451	48.20	31.106
6100	4914	4750	4477	46	26	16.42	-1388	-347	1595	1546	48.47	32.901
6200	4914	4750	4477	48	26	16.42	-1388	-347	1691	1642	48.70	34.715
6300	4913	4726	4455	50	26	14.84	-1387	-338	1786	1738	48.42	36.896
6400	4913	4721	4450	52	26	14.47	-1386	-336	1883	1834	48.49	38.827
6500	4912	4700	4431	55	26	13.19	-1384	-328	1980	1932	48.26	41.020
6600	4911	4700	4431	57	26	13.19	-1384	-328	2077	2028	48.43	42.879
6700	4911	4700	4431	59	26	13.19	-1384	-328	2174	2125	48.58	44.747
6800	4910	4700	4431	61	26	13.19	-1384	-328	2271	2222	48.71	46.622
6900	4910	4700	4431	64	26	13.19	-1384	-328	2369	2320	48.84	48.504
7000	4909	4700	4431	66	26	13.19	-1384	-328	2467	2418	48.95	50.391
7100	4909	4700	4431	68	26	13.19	-1384	-328	2564	2515	49.05	52.281
7200	4908	4700	4431	71	26	13.19	-1384	-328	2663	2613	49.15	54.176
7300	4908	4700	4431	73	26	13.19	-1384	-328	2761	2712	49.24	56.072
7400	4907	4700	4431	75	26	13.19	-1384	-328	2859	2810	49.32	57.971
7500	4906	4678	4410	78	26	11.93	-1382	-321	2957	2908	49.05	60.288
7600	4906	4675	4408	80	26	11.78	-1382	-320	3056	3007	49.09	62.245
7700	4905	4673	4405	83	26	11.64	-1381	-319	3154	3105	49.13	64.202
7800	4905	4650	4384	85	26	10.42	-1378	-312	3253	3204	48.85	66.595
7900	4904	4650	4384	88	26	10.42	-1378	-312	3352	3303	48.93	68.507
8000	4904	4650	4384	90	26	10.42	-1378	-312	3451	3402	49.00	70.420
8100	4903	4650	4384	92	26	10.42	-1378	-312	3549	3500	49.07	72.332
8200	4903	4650	4384	95	26	10.42	-1378	-312	3648	3599	49.14	74.244
8300	4902	4650	4384	97	26	10.42	-1378	-312	3747	3698	49.20	76.154
8400	4902	4650	4384	100	26	10.42	-1378	-312	3846	3797	49.27	78.063
8500	4901	4650	4384	102	26	10.42	-1378	-312	3945	3896	49.33	79.971
8600	4900	4650	4384	105	26	10.42	-1378	-312	4044	3995	49.39	81.878
8700	4900	4650	4384	107	26	10.42	-1378	-312	4143	4094	49.45	83.782
8800	4899	4650	4384	110	26	10.42	-1378	-312	4242	4193	49.51	85.684
8900	4899	4650	4384	112	26	10.42	-1378	-312	4342	4292	49.57	87.584
9000	4898	4650	4384	115	26	10.42	-1378	-312	4441	4391	49.63	89.482
9100	4898	4650	4384	117	26	10.42	-1378	-312	4540	4490	49.68	91.377



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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		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)			
9200	4897	4650	4384	120	26	10.42	-1378	-312	4639	4590	49.74	93.270	
9300	4897	4650	4384	122	26	10.42	-1378	-312	4739	4689	49.80	95.159	
9400	4896	4650	4384	125	26	10.42	-1378	-312	4838	4788	49.85	97.046	
9500	4895	4650	4384	127	26	10.42	-1378	-312	4937	4887	49.91	98.930	
9600	4895	4650	4384	130	26	10.42	-1378	-312	5037	4987	49.96	100.810	
9700	4894	4650	4384	133	26	10.42	-1378	-312	5136	5086	50.02	102.688	
9800	4894	4650	4384	135	26	10.42	-1378	-312	5236	5186	50.07	104.561	
9900	4893	4650	4384	138	26	10.42	-1378	-312	5335	5285	50.13	106.432	
10,000	4893	4650	4384	140	26	10.42	-1378	-312	5435	5384	50.18	108.299	
10,100	4892	4650	4384	143	26	10.42	-1378	-312	5534	5484	50.24	110.162	
10,200	4892	4650	4384	145	26	10.42	-1378	-312	5634	5583	50.29	112.021	
10,300	4891	4650	4384	148	26	10.42	-1378	-312	5733	5683	50.34	113.876	
10,400	4890	4650	4384	150	26	10.42	-1378	-312	5833	5782	50.40	115.728	
10,500	4890	4650	4384	153	26	10.42	-1378	-312	5932	5882	50.45	117.576	
10,600	4889	4650	4384	155	26	10.42	-1378	-312	6032	5981	50.51	119.419	
10,700	4889	4650	4384	158	26	10.42	-1378	-312	6131	6081	50.56	121.258	
10,800	4888	4650	4384	160	26	10.42	-1378	-312	6231	6180	50.62	123.093	
10,900	4888	4650	4384	163	26	10.42	-1378	-312	6331	6280	50.68	124.924	
11,000	4887	4650	4384	166	26	10.42	-1378	-312	6430	6379	50.73	126.751	
11,100	4887	4650	4384	168	26	10.42	-1378	-312	6530	6479	50.79	128.573	
11,200	4886	4650	4384	171	26	10.42	-1378	-312	6630	6579	50.84	130.391	
11,300	4886	4650	4384	173	26	10.42	-1378	-312	6729	6678	50.90	132.204	
11,400	4885	4650	4384	176	26	10.42	-1378	-312	6829	6778	50.96	134.012	
11,500	4884	4627	4362	178	26	9.26	-1374	-305	6928	6877	50.72	136.585	
11,600	4884	4626	4362	181	26	9.23	-1374	-305	7028	6977	50.77	138.411	
11,700	4883	4626	4361	183	26	9.21	-1374	-304	7127	7077	50.83	140.232	
11,800	4883	4625	4360	186	26	9.18	-1374	-304	7227	7176	50.88	142.048	
11,900	4882	4624	4360	189	26	9.15	-1374	-304	7327	7276	50.93	143.859	
12,000	4882	4624	4359	191	26	9.13	-1373	-304	7427	7376	50.98	145.665	
12,100	4881	4623	4359	194	26	9.10	-1373	-304	7526	7475	51.04	147.466	
12,200	4881	4600	4337	196	25	8.03	-1369	-298	7626	7576	50.81	150.090	
12,300	4880	4600	4337	199	25	8.03	-1369	-298	7726	7675	50.87	151.869	
12,400	4879	4600	4337	201	25	8.03	-1369	-298	7826	7775	50.94	153.642	
12,500	4879	4600	4337	204	25	8.03	-1369	-298	7926	7875	51.00	155.410	
12,600	4878	4600	4337	206	25	8.03	-1369	-298	8025	7974	51.06	157.173	
12,700	4878	4600	4337	209	25	8.03	-1369	-298	8125	8074	51.12	158.930	
12,800	4877	4600	4337	212	25	8.03	-1369	-298	8225	8174	51.19	160.683	
12,900	4877	4600	4337	214	25	8.03	-1369	-298	8324	8273	51.25	162.430	
13,000	4876	4600	4337	217	25	8.03	-1369	-298	8424	8373	51.31	164.171	
13,100	4876	4600	4337	219	25	8.03	-1369	-298	8524	8473	51.38	165.908	
13,200	4875	4600	4337	222	25	8.03	-1369	-298	8624	8572	51.44	167.639	
13,300	4874	4600	4337	224	25	8.03	-1369	-298	8723	8672	51.51	169.364	
13,400	4874	4600	4337	227	25	8.03	-1369	-298	8823	8772	51.57	171.084	
13,500	4873	4600	4337	230	25	8.03	-1369	-298	8923	8871	51.64	172.799	
13,571	4873	4600	4337	231	25	8.02	-1369	-298	8994	8942	51.68	174.015	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	33.38	67	44	80					
100	100	100	100	0	0	33.38	67	44	80	80	0.31	259.193		
200	200	200	200	1	1	33.38	67	44	80	79	1.03	77.939		
300	300	300	300	1	1	33.38	67	44	80	78	1.74	45.865		
400	400	400	400	1	1	33.38	67	44	80	77	2.46	32.494		
425	425	425	425	1	1	33.38	67	44	80	77	2.64	30.286 CC, ES		
500	500	500	500	2	2	-142.11	66	44	81	77	3.16	25.542		
600	600	600	600	2	2	-141.52	64	47	84	80	3.83	21.858		
700	700	700	700	2	2	-140.12	60	52	89	85	4.52	19.722		
800	799	800	799	3	3	-138.13	53	61	97	92	5.24	18.558		
900	898	900	898	3	3	-136.37	45	70	108	102	5.98	18.039		
1000	996	999	996	3	3	-135.98	37	80	121	114	6.73	17.965		
1100	1094	1098	1094	4	4	-136.63	29	90	137	129	7.50	18.204		
1200	1191	1196	1192	4	4	-137.96	21	100	155	146	8.28	18.681		
1300	1286	1293	1288	5	5	-139.68	13	110	176	167	9.07	19.355		
1400	1381	1390	1384	5	5	-141.59	5	120	199	189	9.87	20.194		
1500	1475	1486	1480	6	5	-143.54	-3	130	226	215	10.67	21.177		
1600	1567	1581	1574	6	6	-145.45	-11	139	256	244	11.47	22.286		
1700	1659	1676	1668	7	6	-147.43	-19	149	287	275	12.27	23.391		
1800	1751	1770	1761	8	6	-149.03	-27	158	319	306	13.07	24.382		
1900	1842	1865	1855	8	7	-150.34	-34	168	351	337	13.87	25.266		
2000	1934	1960	1949	9	7	-151.44	-42	177	382	368	14.68	26.060		
2100	2026	2054	2043	10	8	-152.36	-50	187	415	399	15.48	26.773		
2200	2118	2149	2136	10	8	-153.16	-58	196	447	430	16.29	27.418		
2300	2209	2243	2230	11	8	-153.84	-66	206	479	462	17.10	28.003		
2400	2301	2338	2324	11	9	-154.44	-73	215	511	493	17.91	28.535		
2500	2393	2432	2417	12	9	-154.97	-81	225	543	525	18.73	29.022		
2600	2484	2527	2511	13	9	-155.44	-89	234	576	556	19.54	29.467		
2700	2576	2621	2605	13	10	-155.86	-97	244	608	588	20.36	29.877		
2800	2668	2716	2699	14	10	-156.24	-105	253	641	619	21.17	30.256		
2900	2759	2810	2792	15	11	-156.58	-112	263	673	651	21.99	30.606		
3000	2851	2905	2886	15	11	-156.89	-120	272	705	683	22.81	30.930		
3100	2943	2999	2980	16	11	-157.17	-128	282	738	714	23.63	31.232		
3200	3035	3094	3073	17	12	-157.43	-136	291	770	746	24.45	31.513		
3300	3126	3188	3167	17	12	-157.67	-144	301	803	778	25.27	31.776		
3400	3218	3283	3261	18	13	-157.89	-151	311	835	809	26.09	32.022		
3500	3310	3377	3355	19	13	-158.09	-159	320	868	841	26.91	32.253		
3600	3401	3472	3448	19	13	-158.28	-167	330	900	873	27.73	32.469		
3700	3493	3566	3542	20	14	-158.46	-175	339	933	904	28.55	32.673		
3800	3585	3661	3636	21	14	-158.62	-182	349	965	936	29.38	32.866		
3900	3677	3755	3729	21	14	-158.77	-190	358	998	968	30.20	33.047		
4000	3768	3850	3823	22	15	-158.92	-198	368	1031	1000	31.02	33.219		
4100	3860	3945	3917	23	15	-159.05	-206	377	1063	1031	31.85	33.382		
4200	3952	4039	4011	24	16	-159.18	-214	387	1096	1063	32.67	33.536		
4300	4043	4134	4104	24	16	-159.30	-221	396	1128	1095	33.50	33.683		
4400	4135	4228	4198	25	16	-159.41	-229	406	1161	1126	34.32	33.822		
4500	4227	4323	4292	26	17	-159.52	-237	415	1193	1158	35.15	33.955		
4600	4318	4417	4386	26	17	-159.62	-245	425	1226	1190	35.97	34.081		
4700	4410	4504	4473	27	17	-159.74	-253	434	1259	1224	36.79	34.207		
4788	4491	4590	4559	27	18	-159.84	-261	443	1292	1257	37.61	34.333		
4800	4502	4604	4573	28	18	-159.94	-269	452	1325	1290	38.43	34.459		
4850	4547	4651	4620	28	18	-160.04	-277	461	1358	1323	39.25	34.585		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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		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	
4900	4590	5433	4944	28	28	-121.75	-753	941	1192	1140	52.00	22.925	
4938	4622	5451	4944	29	29	-118.40	-767	954	1192	1139	52.95	22.507	
4950	4632	5457	4944	29	29	-117.45	-771	959	1192	1138	53.24	22.386	
5000	4671	5485	4944	29	29	-113.64	-791	978	1193	1138	54.50	21.885	
5050	4709	5517	4944	30	30	-110.20	-813	1000	1195	1139	55.82	21.411	
5100	4744	5551	4944	30	31	-107.06	-837	1025	1198	1141	57.19	20.956	
5150	4776	5588	4943	31	31	-104.18	-863	1051	1203	1144	58.61	20.518	
5200	4805	5627	4943	31	32	-101.54	-891	1078	1207	1147	60.09	20.086	
5250	4831	5669	4943	32	33	-99.17	-921	1108	1212	1150	61.64	19.656	
5300	4854	5713	4943	33	34	-97.07	-952	1139	1216	1153	63.26	19.226	
5350	4874	5758	4942	33	35	-95.26	-984	1171	1221	1156	64.96	18.790	
5400	4890	5805	4942	34	36	-93.75	-1018	1204	1224	1158	66.73	18.350	
5450	4902	5854	4942	35	37	-92.58	-1052	1238	1228	1159	68.58	17.902	
5500	4911	5903	4941	35	38	-91.73	-1087	1273	1230	1160	70.48	17.451	
5550	4916	5952	4941	36	39	-91.24	-1122	1308	1231	1159	72.46	16.996	
5594	4917	5997	4941	37	40	-91.10	-1153	1339	1232	1158	74.24	16.594	
5600	4917	6002	4941	37	41	-91.10	-1157	1343	1232	1157	74.47	16.543	
5700	4916	6102	4940	39	43	-91.09	-1228	1413	1232	1153	78.61	15.673	
5800	4916	6202	4939	40	45	-91.09	-1299	1484	1232	1149	82.87	14.870	
5900	4915	6302	4939	42	47	-91.08	-1370	1554	1232	1145	87.24	14.128	
6000	4915	6402	4938	44	50	-91.07	-1441	1625	1233	1141	91.69	13.445	
6100	4914	6502	4937	46	52	-91.07	-1512	1695	1233	1137	96.21	12.815	
6200	4914	6602	4937	48	55	-91.06	-1583	1766	1233	1132	100.80	12.233	
6300	4913	6702	4936	50	57	-91.06	-1654	1836	1233	1128	105.44	11.697	
6400	4913	6802	4935	52	60	-91.05	-1724	1907	1233	1123	110.13	11.200	
6500	4912	6902	4934	55	62	-91.04	-1795	1978	1234	1119	114.87	10.740	
6600	4911	7002	4934	57	64	-91.04	-1866	2048	1234	1114	119.64	10.313	
6700	4911	7102	4933	59	67	-91.03	-1937	2119	1234	1110	124.44	9.917	
6800	4910	7202	4932	61	69	-91.03	-2008	2189	1234	1105	129.28	9.547	
6900	4910	7302	4932	64	72	-91.02	-2079	2260	1234	1100	134.14	9.203	
7000	4909	7402	4931	66	74	-91.02	-2150	2330	1235	1096	139.02	8.881	
7100	4909	7502	4930	68	77	-91.01	-2221	2401	1235	1091	143.92	8.580	
7200	4908	7602	4930	71	79	-91.00	-2292	2471	1235	1086	148.84	8.297	
7300	4908	7702	4929	73	82	-91.00	-2363	2542	1235	1081	153.78	8.032	
7400	4907	7802	4928	75	84	-90.99	-2434	2612	1235	1077	158.74	7.783	
7500	4906	7902	4928	78	87	-90.99	-2504	2683	1236	1072	163.71	7.548	
7600	4906	8002	4927	80	89	-90.98	-2575	2753	1236	1067	168.69	7.326	
7700	4905	8102	4926	83	92	-90.98	-2646	2824	1236	1062	173.68	7.116	
7800	4905	8202	4926	85	95	-90.97	-2717	2894	1236	1058	178.68	6.918	
7900	4904	8302	4925	88	97	-90.96	-2788	2965	1236	1053	183.70	6.731	
8000	4904	8402	4924	90	100	-90.96	-2859	3035	1237	1048	188.72	6.553	
8100	4903	8502	4924	92	102	-90.95	-2930	3106	1237	1043	193.75	6.383	
8200	4903	8602	4923	95	105	-90.95	-3001	3176	1237	1038	198.78	6.223	
8300	4902	8702	4922	97	107	-90.94	-3072	3247	1237	1033	203.83	6.070	
8400	4902	8802	4922	100	110	-90.93	-3143	3317	1237	1028	208.88	5.924	
8500	4901	8902	4921	102	112	-90.93	-3213	3388	1238	1024	213.94	5.785	
8600	4900	9002	4920	105	115	-90.92	-3284	3458	1238	1019	219.00	5.652	
8700	4900	9102	4920	107	117	-90.92	-3355	3529	1238	1014	224.07	5.525	
8800	4899	9202	4919	110	120	-90.91	-3426	3599	1238	1009	229.14	5.403	
8900	4899	9302	4918	112	123	-90.91	-3497	3670	1238	1004	234.21	5.287	
9000	4898	9402	4918	115	125	-90.90	-3568	3740	1239	999	239.29	5.176	
9100	4898	9502	4917	117	128	-90.89	-3639	3811	1239	994	244.38	5.069	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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		Rule Assigned:	
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
9200	4897	9602	4916	120	130	-90.89	-3710	3881	1239	989	249.47	4.966
9300	4897	9702	4916	122	133	-90.88	-3781	3952	1239	985	254.56	4.868
9400	4896	9802	4915	125	135	-90.88	-3852	4022	1239	980	259.66	4.773
9500	4895	9902	4914	127	138	-90.87	-3923	4093	1240	975	264.75	4.682
9600	4895	10,002	4914	130	140	-90.87	-3993	4163	1240	970	269.85	4.594
9700	4894	10,102	4913	133	143	-90.86	-4064	4234	1240	965	274.96	4.509
9800	4894	10,202	4912	135	146	-90.85	-4135	4304	1240	960	280.07	4.428
9900	4893	10,302	4912	138	148	-90.85	-4206	4375	1240	955	285.17	4.349
10,000	4893	10,402	4911	140	151	-90.84	-4277	4445	1240	950	290.29	4.273
10,100	4892	10,502	4910	143	153	-90.84	-4348	4516	1241	945	295.40	4.200
10,200	4892	10,602	4910	145	156	-90.83	-4419	4586	1241	940	300.51	4.129
10,300	4891	10,702	4909	148	158	-90.83	-4490	4657	1241	935	305.63	4.061
10,400	4890	10,802	4908	150	161	-90.82	-4561	4728	1241	931	310.75	3.994
10,500	4890	10,902	4908	153	164	-90.81	-4632	4798	1241	926	315.87	3.930
10,600	4889	11,002	4907	155	166	-90.81	-4702	4869	1242	921	321.00	3.868
10,700	4889	11,102	4906	158	169	-90.80	-4773	4939	1242	916	326.12	3.808
10,800	4888	11,202	4906	160	171	-90.80	-4844	5010	1242	911	331.25	3.750
10,900	4888	11,302	4905	163	174	-90.79	-4915	5080	1242	906	336.37	3.693
11,000	4887	11,402	4904	166	176	-90.79	-4986	5151	1242	901	341.50	3.638
11,100	4887	11,502	4904	168	179	-90.78	-5057	5221	1243	896	346.63	3.585
11,200	4886	11,602	4903	171	182	-90.77	-5128	5292	1243	891	351.77	3.533
11,300	4886	11,702	4902	173	184	-90.77	-5199	5362	1243	886	356.90	3.483
11,400	4885	11,802	4902	176	187	-90.76	-5270	5433	1243	881	362.03	3.434
11,500	4884	11,902	4901	178	189	-90.76	-5341	5503	1243	876	367.17	3.386
11,600	4884	12,002	4900	181	192	-90.75	-5412	5574	1244	871	372.30	3.340
11,700	4883	12,102	4900	183	194	-90.75	-5482	5644	1244	866	377.44	3.295
11,800	4883	12,202	4899	186	197	-90.74	-5553	5715	1244	861	382.58	3.252
11,900	4882	12,302	4898	189	200	-90.73	-5624	5785	1244	856	387.72	3.209
12,000	4882	12,402	4897	191	202	-90.73	-5695	5856	1244	852	392.86	3.167
12,100	4881	12,502	4897	194	205	-90.72	-5766	5926	1245	847	398.00	3.127
12,200	4881	12,602	4896	196	207	-90.72	-5837	5997	1245	842	403.14	3.088
12,300	4880	12,703	4895	199	210	-90.71	-5908	6068	1245	837	408.28	3.049
12,300	4880	12,703	4895	199	210	-90.71	-5908	6068	1245	837	408.30	3.049
12,400	4879	12,774	4895	201	211	-90.71	-5959	6118	1245	834	411.70	3.025 SF
12,500	4879	12,774	4895	204	211	-90.71	-5959	6118	1252	841	411.31	3.044
12,600	4878	12,774	4895	206	211	-90.71	-5959	6118	1266	858	408.39	3.101
12,700	4878	12,774	4895	209	211	-90.71	-5959	6118	1288	885	403.18	3.195
12,800	4877	12,774	4895	212	211	-90.71	-5959	6118	1317	921	396.00	3.327
12,900	4877	12,774	4895	214	211	-90.71	-5959	6118	1353	966	387.21	3.495
13,000	4876	12,774	4895	217	211	-90.71	-5959	6118	1396	1019	377.22	3.700
13,100	4876	12,774	4895	219	211	-90.71	-5959	6118	1444	1077	366.40	3.940
13,200	4875	12,774	4895	222	211	-90.71	-5959	6118	1497	1142	355.08	4.215
13,300	4874	12,774	4895	224	211	-90.71	-5959	6118	1555	1211	343.54	4.525
13,400	4874	12,774	4895	227	211	-90.71	-5959	6118	1616	1284	332.00	4.869
13,500	4873	12,774	4895	230	211	-90.71	-5959	6118	1682	1361	320.65	5.245
13,571	4873	12,774	4895	231	211	-90.71	-5959	6118	1731	1418	312.75	5.533



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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 Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	33.34	50	33	60					
100	100	100	100	0	0	33.34	50	33	60	60	0.31	194.478		
200	200	200	200	1	1	33.34	50	33	60	59	1.03	58.480		
300	300	300	300	1	1	33.34	50	33	60	58	1.74	34.414		
400	400	400	400	1	1	33.34	50	33	60	57	2.46	24.381		
425	425	425	425	1	1	33.34	50	33	60	57	2.64	22.724 CC, ES		
500	500	501	501	2	2	-142.25	50	33	60	57	3.16	19.163		
600	600	602	602	2	2	-141.94	46	35	62	58	3.83	16.216		
700	700	703	703	2	2	-140.88	40	38	65	60	4.52	14.281		
800	799	804	803	3	3	-139.19	30	42	68	63	5.23	12.988		
900	898	904	902	3	3	-138.18	19	47	73	67	5.96	12.257		
1000	996	1004	1001	3	3	-138.94	8	52	81	74	6.71	12.048 SF		
1100	1094	1103	1100	4	4	-140.94	-4	58	91	84	7.46	12.225		
1200	1191	1202	1198	4	4	-143.64	-15	63	105	96	8.22	12.710		
1300	1286	1300	1296	5	5	-146.60	-26	68	121	112	8.99	13.451		
1400	1381	1398	1393	5	5	-149.52	-37	73	141	131	9.76	14.405		
1500	1475	1495	1489	6	5	-152.24	-48	78	163	153	10.52	15.537		
1600	1567	1591	1584	6	6	-154.69	-59	83	190	178	11.28	16.816		
1700	1659	1687	1679	7	6	-156.91	-70	88	218	206	12.05	18.087		
1800	1751	1783	1774	8	6	-158.63	-81	93	246	233	12.81	19.223		
1900	1842	1878	1869	8	7	-159.99	-91	98	275	261	13.58	20.238		
2000	1934	1974	1964	9	7	-161.10	-102	103	303	289	14.35	21.146		
2100	2026	2070	2059	10	8	-162.01	-113	108	332	317	15.12	21.963		
2200	2118	2165	2154	10	8	-162.78	-124	113	361	345	15.90	22.700		
2300	2209	2261	2249	11	8	-163.44	-135	118	390	373	16.68	23.368		
2400	2301	2357	2344	11	9	-164.00	-146	123	419	401	17.46	23.976		
2500	2393	2452	2439	12	9	-164.50	-156	128	448	429	18.25	24.531		
2600	2484	2548	2533	13	9	-164.93	-167	133	477	458	19.03	25.040		
2700	2576	2644	2628	13	10	-165.31	-178	137	506	486	19.82	25.507		
2800	2668	2739	2723	14	10	-165.65	-189	142	535	514	20.61	25.939		
2900	2759	2835	2818	15	11	-165.96	-200	147	564	542	21.40	26.337		
3000	2851	2931	2913	15	11	-166.24	-211	152	593	570	22.19	26.707		
3100	2943	3026	3008	16	11	-166.49	-221	157	622	599	22.98	27.051		
3200	3035	3122	3103	17	12	-166.72	-232	162	651	627	23.77	27.371		
3300	3126	3218	3198	17	12	-166.93	-243	167	680	655	24.57	27.670		
3400	3218	3313	3293	18	13	-167.12	-254	172	709	683	25.36	27.950		
3500	3310	3409	3388	19	13	-167.29	-265	177	738	712	26.15	28.212		
3600	3401	3504	3483	19	13	-167.46	-276	182	767	740	26.95	28.459		
3700	3493	3600	3577	20	14	-167.61	-286	187	796	768	27.74	28.691		
3800	3585	3696	3672	21	14	-167.75	-297	192	825	797	28.54	28.910		
3900	3677	3791	3767	21	14	-167.88	-308	197	854	825	29.34	29.117		
4000	3768	3887	3862	22	15	-168.00	-319	202	883	853	30.13	29.312		
4100	3860	3983	3957	23	15	-168.12	-330	207	912	881	30.93	29.497		
4200	3952	4078	4052	24	16	-168.23	-341	212	941	910	31.73	29.673		
4300	4043	4174	4147	24	16	-168.33	-351	217	971	938	32.53	29.840		
4400	4135	4257	4230	25	16	-168.41	-361	221	1000	967	33.23	30.084		
4500	4227	4300	4272	26	16	-168.52	-365	222	1032	998	33.58	30.726		
4600	4318	4350	4322	26	17	-168.80	-366	221	1068	1034	33.91	31.498		
4700	4410	4400	4372	27	17	-169.25	-366	217	1108	1074	34.17	32.443		
4788	4491	4435	4406	27	17	-169.65	-363	213	1148	1113	34.26	33.497		
4800	4502	4450	4421	28	17	-167.82	-362	211	1153	1119	34.37	33.548		
4850	4547	4450	4421	28	17	-160.02	-362	211	1178	1144	34.21	34.440		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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 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)			
4900	4590	4475	4446	28	17	-153.70	-359	206	1206	1172	34.31	35.155	
4950	4632	4500	4470	29	17	-148.13	-355	201	1237	1203	34.42	35.939	
5000	4671	4500	4470	29	17	-142.09	-355	201	1270	1236	34.26	37.066	
5050	4709	4515	4484	30	17	-136.61	-353	198	1305	1271	34.27	38.074	
5100	4744	4524	4493	30	17	-130.83	-351	196	1342	1308	34.24	39.188	
5150	4776	4532	4501	31	17	-124.74	-350	194	1380	1346	34.20	40.353	
5200	4805	4550	4518	31	17	-119.00	-346	190	1420	1386	34.30	41.394	
5250	4831	4550	4518	32	17	-111.96	-346	190	1460	1426	34.22	42.681	
5300	4854	4550	4518	33	17	-104.69	-346	190	1502	1467	34.15	43.966	
5350	4874	4550	4518	33	17	-97.40	-346	190	1543	1509	34.12	45.234	
5400	4890	4550	4518	34	17	-90.29	-346	190	1585	1551	34.11	46.471	
5450	4902	4550	4518	35	17	-83.56	-346	190	1627	1593	34.13	47.664	
5500	4911	4550	4518	35	17	-77.38	-346	190	1668	1634	34.18	48.804	
5550	4916	4550	4518	36	17	-71.84	-346	190	1709	1675	34.26	49.880	
5594	4917	4550	4518	37	17	-67.50	-346	190	1744	1710	34.35	50.776	
5600	4917	4550	4518	37	17	-67.50	-346	190	1749	1714	34.36	50.890	
5700	4916	4525	4494	39	17	-66.36	-351	196	1829	1794	34.35	53.235	
5800	4916	4500	4470	40	17	-65.22	-355	201	1911	1876	34.36	55.612	
5900	4915	4500	4470	42	17	-65.22	-355	201	1994	1959	34.65	57.544	
6000	4915	4500	4470	44	17	-65.22	-355	201	2078	2043	34.93	59.492	
6100	4914	4500	4470	46	17	-65.22	-355	201	2164	2129	35.22	61.456	
6200	4914	4500	4470	48	17	-65.22	-355	201	2251	2216	35.49	63.436	
6300	4913	4500	4470	50	17	-65.22	-355	201	2339	2304	35.75	65.432	
6400	4913	4478	4448	52	17	-64.22	-359	206	2428	2392	35.80	67.814	
6500	4912	4473	4443	55	17	-64.00	-359	207	2518	2482	36.01	69.917	
6600	4911	4450	4421	57	17	-62.98	-362	211	2608	2572	36.05	72.354	
6700	4911	4450	4421	59	17	-62.98	-362	211	2699	2663	36.29	74.388	
6800	4910	4450	4421	61	17	-62.98	-362	211	2791	2754	36.51	76.436	
6900	4910	4450	4421	64	17	-62.98	-362	211	2883	2846	36.73	78.495	
7000	4909	4450	4421	66	17	-62.98	-362	211	2975	2938	36.93	80.564	
7100	4909	4450	4421	68	17	-62.98	-362	211	3068	3031	37.13	82.643	
7200	4908	4450	4421	71	17	-62.98	-362	211	3162	3124	37.32	84.731	
7300	4908	4450	4421	73	17	-62.98	-362	211	3256	3218	37.50	86.826	
7400	4907	4450	4421	75	17	-62.98	-362	211	3350	3312	37.67	88.927	
7500	4906	4450	4421	78	17	-62.98	-362	211	3444	3407	37.84	91.034	
7600	4906	4450	4421	80	17	-62.98	-362	211	3539	3501	38.00	93.146	
7700	4905	4450	4421	83	17	-62.98	-362	211	3634	3596	38.15	95.263	
7800	4905	4450	4421	85	17	-62.98	-362	211	3730	3691	38.30	97.383	
7900	4904	4427	4398	88	17	-61.95	-364	214	3825	3787	38.28	99.913	
8000	4904	4424	4396	90	17	-61.86	-364	215	3921	3882	38.41	102.077	
8100	4903	4422	4394	92	17	-61.77	-364	215	4016	3978	38.53	104.241	
8200	4903	4400	4372	95	17	-60.81	-366	217	4113	4074	38.51	106.788	
8300	4902	4400	4372	97	17	-60.81	-366	217	4209	4170	38.65	108.915	
8400	4902	4400	4372	100	17	-60.81	-366	217	4306	4267	38.77	111.044	
8500	4901	4400	4372	102	17	-60.81	-366	217	4402	4363	38.90	113.173	
8600	4900	4400	4372	105	17	-60.81	-366	217	4499	4460	39.02	115.301	
8700	4900	4400	4372	107	17	-60.81	-366	217	4596	4556	39.14	117.430	
8800	4899	4400	4372	110	17	-60.81	-366	217	4693	4653	39.25	119.558	
8900	4899	4400	4372	112	17	-60.81	-366	217	4790	4750	39.36	121.684	
9000	4898	4400	4372	115	17	-60.81	-366	217	4887	4847	39.47	123.810	
9100	4898	4400	4372	117	17	-60.81	-366	217	4984	4945	39.58	125.933	
9200	4897	4400	4372	120	17	-60.81	-366	217	5082	5042	39.68	128.055	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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 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)			
9300	4897	4400	4372	122	17	-60.81	-366	217	5179	5139	39.79	130.174	
9400	4896	4400	4372	125	17	-60.81	-366	217	5277	5237	39.89	132.291	
9500	4895	4400	4372	127	17	-60.81	-366	217	5375	5335	39.99	134.405	
9600	4895	4400	4372	130	17	-60.81	-366	217	5472	5432	40.09	136.515	
9700	4894	4400	4372	133	17	-60.81	-366	217	5570	5530	40.18	138.623	
9800	4894	4400	4372	135	17	-60.81	-366	217	5668	5628	40.28	140.727	
9900	4893	4400	4372	138	17	-60.81	-366	217	5766	5726	40.37	142.828	
10,000	4893	4400	4372	140	17	-60.81	-366	217	5864	5824	40.46	144.925	
10,100	4892	4400	4372	143	17	-60.81	-366	217	5962	5922	40.56	147.018	
10,200	4892	4400	4372	145	17	-60.81	-366	217	6061	6020	40.65	149.107	
10,300	4891	4400	4372	148	17	-60.81	-366	217	6159	6118	40.74	151.191	
10,400	4890	4400	4372	150	17	-60.81	-366	217	6257	6216	40.82	153.271	
10,500	4890	4400	4372	153	17	-60.81	-366	217	6356	6315	40.91	155.347	
10,600	4889	4400	4372	155	17	-60.81	-366	217	6454	6413	41.00	157.418	
10,700	4889	4400	4372	158	17	-60.81	-366	217	6552	6511	41.09	159.484	
10,800	4888	4400	4372	160	17	-60.81	-366	217	6651	6610	41.17	161.544	
10,900	4888	4400	4372	163	17	-60.81	-366	217	6750	6708	41.26	163.600	
11,000	4887	4400	4372	166	17	-60.81	-366	217	6848	6807	41.34	165.651	
11,100	4887	4400	4372	168	17	-60.81	-366	217	6947	6905	41.42	167.696	
11,200	4886	4400	4372	171	17	-60.81	-366	217	7045	7004	41.51	169.736	
11,300	4886	4400	4372	173	17	-60.81	-366	217	7144	7103	41.59	171.770	
11,400	4885	4400	4372	176	17	-60.81	-366	217	7243	7201	41.67	173.799	
11,500	4884	4400	4372	178	17	-60.81	-366	217	7342	7300	41.76	175.822	
11,600	4884	4400	4372	181	17	-60.81	-366	217	7441	7399	41.84	177.839	
11,700	4883	4400	4372	183	17	-60.81	-366	217	7539	7497	41.92	179.851	
11,800	4883	4400	4372	186	17	-60.81	-366	217	7638	7596	42.00	181.856	
11,900	4882	4400	4372	189	17	-60.81	-366	217	7737	7695	42.08	183.855	
12,000	4882	4400	4372	191	17	-60.81	-366	217	7836	7794	42.16	185.848	
12,100	4881	4400	4372	194	17	-60.81	-366	217	7935	7893	42.24	187.835	
12,200	4881	4400	4372	196	17	-60.81	-366	217	8034	7992	42.33	189.816	
12,300	4880	4400	4372	199	17	-60.81	-366	217	8133	8091	42.41	191.791	
12,400	4879	4377	4348	201	17	-59.82	-366	220	8232	8189	42.37	194.290	
12,500	4879	4376	4348	204	17	-59.79	-366	220	8331	8288	42.45	196.266	
12,600	4878	4376	4347	206	17	-59.77	-366	220	8430	8387	42.52	198.236	
12,700	4878	4375	4347	209	17	-59.75	-366	220	8529	8486	42.60	200.198	
12,800	4877	4374	4346	212	17	-59.73	-366	220	8628	8585	42.68	202.154	
12,900	4877	4374	4346	214	17	-59.71	-366	220	8727	8684	42.76	204.104	
13,000	4876	4374	4345	217	17	-59.69	-366	220	8826	8783	42.84	206.046	
13,100	4876	4350	4322	219	17	-58.71	-366	221	8926	8883	42.80	208.545	
13,200	4875	4350	4322	222	17	-58.71	-366	221	9025	8982	42.88	210.464	
13,300	4874	4350	4322	224	17	-58.71	-366	221	9124	9081	42.96	212.377	
13,400	4874	4350	4322	227	17	-58.71	-366	221	9223	9180	43.04	214.282	
13,500	4873	4350	4322	230	17	-58.71	-366	221	9323	9279	43.12	216.180	
13,571	4873	4350	4322	231	17	-58.71	-366	221	9393	9350	43.18	217.525	



Lonestar Consulting, LLC

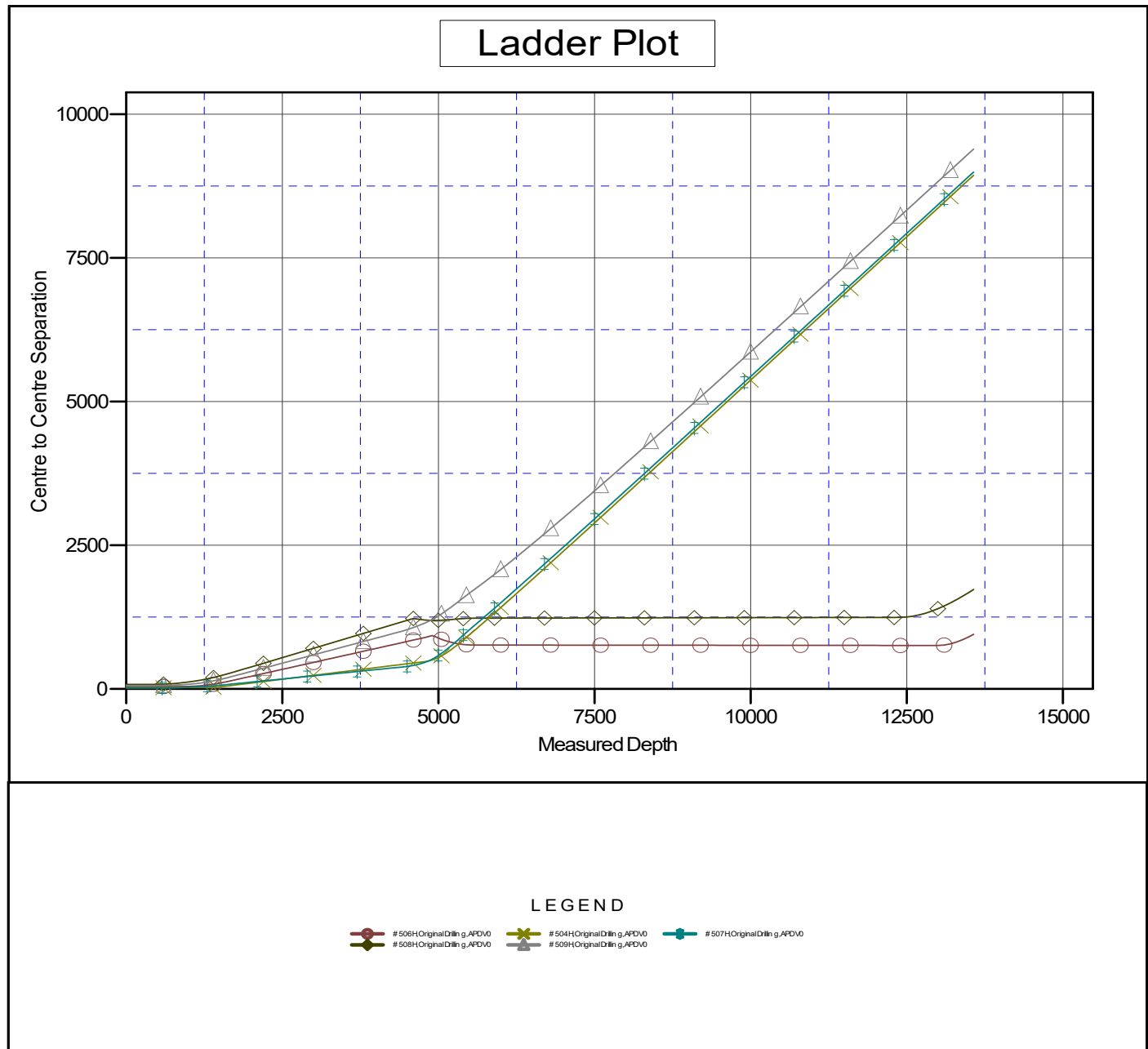
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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 7075' & RKB 14' @ 7089ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.83333333

Coordinates are relative to: # 505H - Slot 2
 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 # 505H - Slot 2
Project:	Venado Canyon Unit	TVD Reference:	GL 7075' & RKB 14' @ 7089ft
Reference Site:	O11 2206 Pad	MD Reference:	GL 7075' & RKB 14' @ 7089ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 505H	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 7075' & RKB 14' @ 7089ft

Offset Depths are relative to Offset Datum

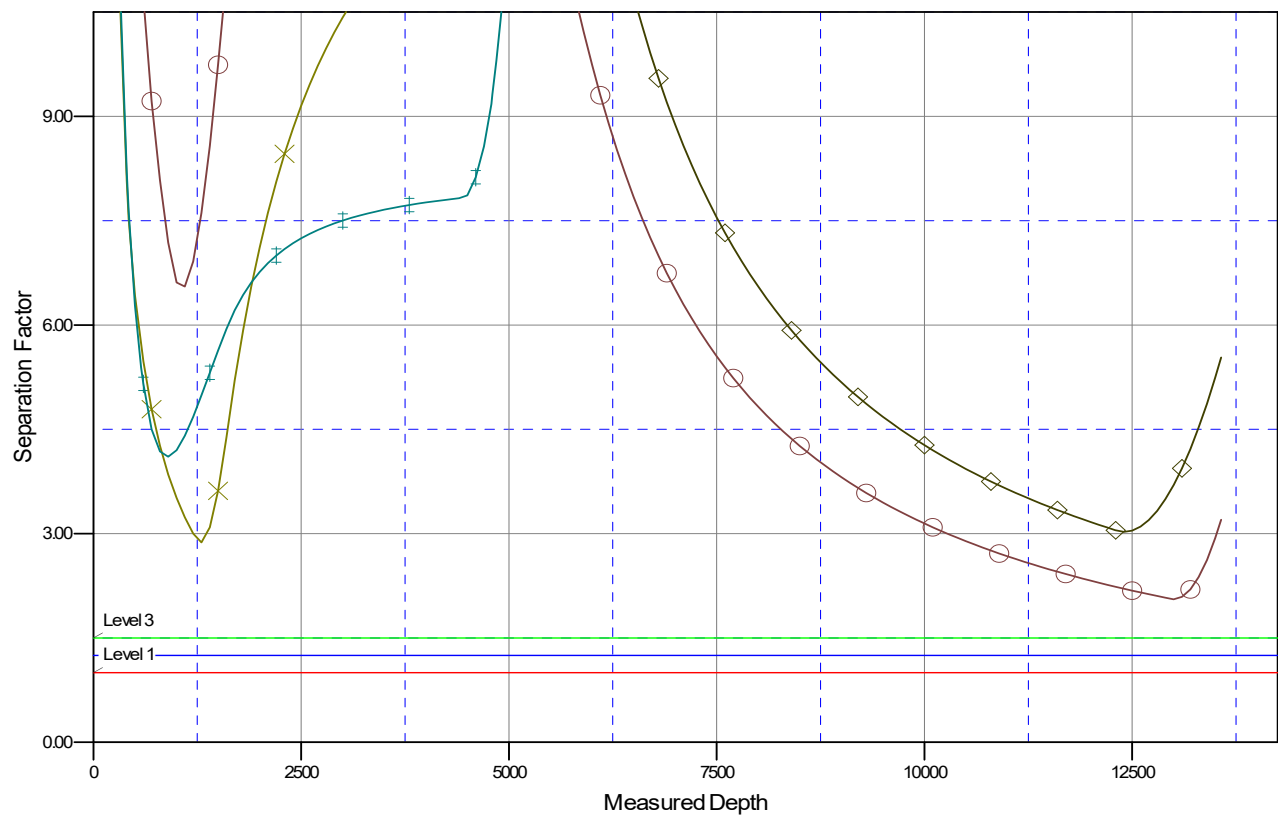
Central Meridian is -107.83333333

Coordinates are relative to: # 505H - Slot 2

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

Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND

506H Original Drilling, APDVO
 # 504H Original Drilling, APDVO
 # 507H Original Drilling, APDVO
 # 508H 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 85328

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID:
	371838
	Action Number: 85328
	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	3/7/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/7/2022
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	3/7/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/7/2022
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	3/7/2022