

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-039-31455
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

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

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 12/21/2023

DISTRICT I

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

DISTRICT II

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

DISTRICT III

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

DISTRICT IV

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31455	² Pool Code 22619	³ Pool Name ESCRITO GALLUP
⁴ Property Code 335219	⁵ Property Name ESCRITO C17-2407	⁶ Well Number 03H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 7284'

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
C	17	24N	7W		962'	NORTH	1703'	WEST	RIO ARriba

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
M	6	24N	7W	14	310'	SOUTH	860'	WEST	RIO ARriba

¹² Dedicated Acres PENETRATED SPACING UNIT;
SEC 17: NE/NW & NW/NW (80 AC.); SEC 8: SW/SW &
NW/SW (80 AC.); SEC 7: SE/SE, NE/SE, NW/SE, SE/NE,
SW/NE, NW/NE, SE/NW, NE/NW & NW/NW (360.57 AC.);
SEC 6: SW/SW & SE/SW (80.34 AC.) = 600.91 ACRES

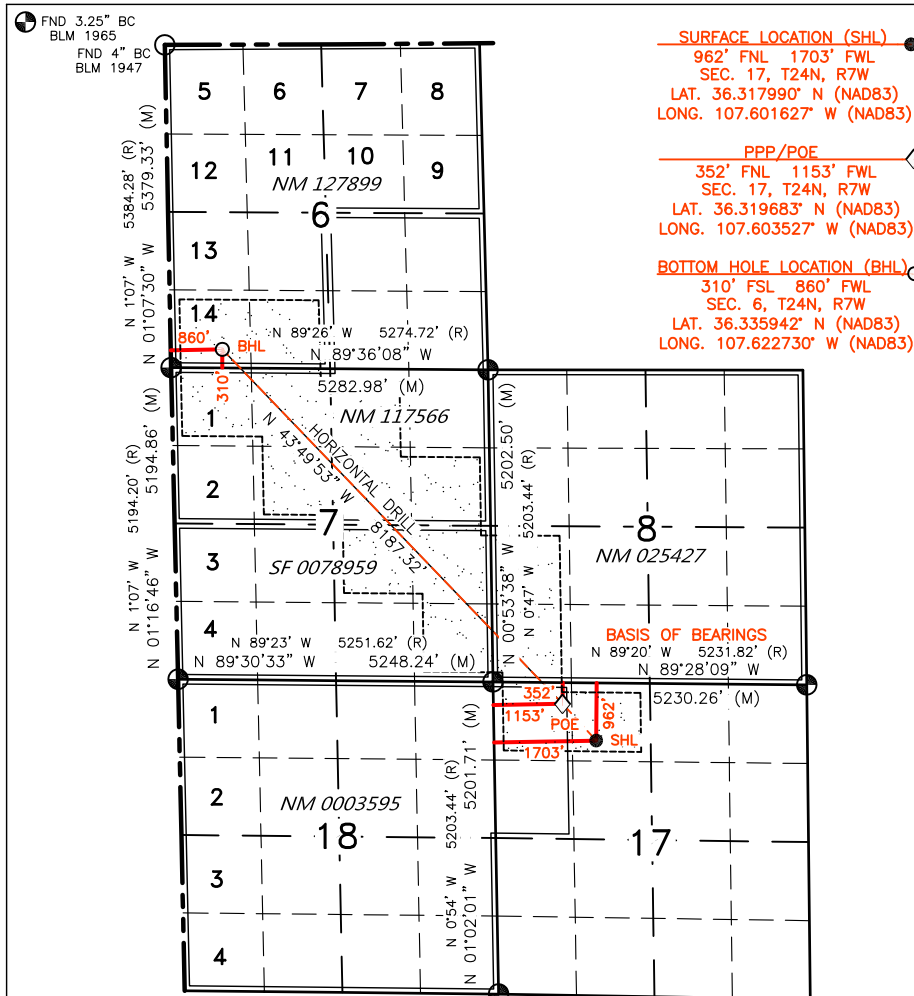
¹³ Joint or Infill

¹⁴ Consolidation Code

¹⁵ Order No.

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

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17 OPERATOR CERTIFICATION

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

Shaw-Marie Ford 02/24/22
Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

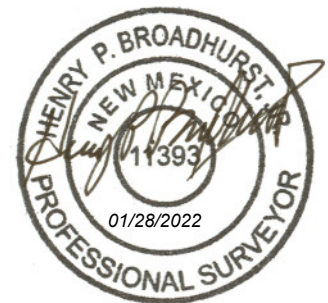
SURVEYOR CERTIFICATION

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

AUGUST 31, 2020

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

11393

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

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

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** DJR Operating, LLC **OGRID:** 371838 **Date:** 1 / 3 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Escrito C17-2407 01H	TBD	C-17-24N-07W	974 FNL x 1687 FWL	410	610	145
Escrito Gallup Unit 02H	TBD	C-17-24N-07W	950 FNL x 1719 FWL	205	305	75
Escrito C17-2407 03H	TBD	C-17-24N-07W	962 FNL x 1703 FWL	355	530	130
Escrito Gallup Unit 04H	TBD	C-17-24N-07W	938 FNL x 1736 FWL	220	325	80
Escrito C17-2407 05H	TBD	C-17-24N-07W	926 FNL x 1753 FWL	300	450	110

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
Escrito C17-2407 01H	TBD	4/9/2024	4/19/2024	7/15/2024	7/25/2024	7/27/2024
Escrito Gallup Unit 02H	TBD	4/10/2024	4/20/2024	7/15/2024	7/27/2024	7/29/2024
Escrito C17-2407 03H	TBD	4/11/2024	4/21/2024	7/15/2024	7/28/2024	7/30/2024
Escrito Gallup Unit 04H	TBD	4/12/2024	4/22/2024	7/15/2024	7/29/2024	8/1/2024
Escrito C17-2407 05H	TBD	4/13/2024	4/23/2024	7/15/2024	7/30/2024	8/2/2024

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrlc.com
Date: 1/3/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Escrito C17-2407 01H, 03H, 05H, and
Escrito Gallup Unit 02H and 04H
NENW C-17-24N-07W

SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Escrito C17-2407 01H, 03H, 05H, and
Escrito Gallup Unit 02H and 04H
NENW C-17-24N-07W

VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Escrito C17-2407 01H, 03H, 05H, and
Escrito Gallup Unit 02H and 04H
NENW C-17-24N-07W

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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NATURAL GAS MANAGEMENT PLAN
Escrito C17-2407 01H, 03H, 05H, and
Escrito Gallup Unit 02H and 04H
NENW C-17-24N-07W

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.



DJR Operating

**Escrito Area
C17 2407 Pad
3H - Slot 4**

Original Drilling

Plan: APD Rev 1

Standard Planning Report

29 January, 2022





Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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

Site	C17 2407 Pad		
Site Position:		Northing:	1,935,165.75 usft
From:	Lat/Long	Easting:	2,791,399.86 usft
Position Uncertainty:	0 ft	Slot Radius:	13.20 in
		Latitude:	36.31808700
		Longitude:	-107.60146200
		Grid Convergence:	0.14 °

Well	# 3H - Slot 4		
Well Position	+N/-S	-35 ft	Northing:
	+E/-W	-49 ft	Easting:
Position Uncertainty		0 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM_FILE	8/12/2020	8.58	62.87	49,364.70000000

Design	APD Rev 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0	0	0	316.44

Plan Survey Tool Program	Date	1/29/2022		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0	14,726 APD Rev 1 (Original Drilling)	MWD+HDGM	
			OWSG MWD + HDGM	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
537	2.24	321.72	537	2	-1	2.00	2.00	0.00	321.72	
5565	2.24	321.72	5561	156	-123	0.00	0.00	0.00	0.00	
6538	89.82	316.31	6173	616	-560	9.00	9.00	-0.56	-5.42	C17 #003H heel
14,726	89.82	316.31	6199	6536	-6215	0.00	0.00	0.00	0.00	C17 #003H toe rev 1



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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	321.72	500	1	-1	1	2.00	2.00	0.00	
537	2.24	321.72	537	2	-1	2	2.00	2.00	0.00	
600	2.24	321.72	600	4	-3	5	0.00	0.00	0.00	
700	2.24	321.72	700	7	-5	9	0.00	0.00	0.00	
800	2.24	321.72	800	10	-8	12	0.00	0.00	0.00	
900	2.24	321.72	900	13	-10	16	0.00	0.00	0.00	
1000	2.24	321.72	1000	16	-13	20	0.00	0.00	0.00	
1100	2.24	321.72	1100	19	-15	24	0.00	0.00	0.00	
1200	2.24	321.72	1199	22	-17	28	0.00	0.00	0.00	
1300	2.24	321.72	1299	25	-20	32	0.00	0.00	0.00	
1400	2.24	321.72	1399	28	-22	36	0.00	0.00	0.00	
1500	2.24	321.72	1499	31	-25	40	0.00	0.00	0.00	
1600	2.24	321.72	1599	34	-27	44	0.00	0.00	0.00	
1700	2.24	321.72	1699	37	-30	47	0.00	0.00	0.00	
1800	2.24	321.72	1799	41	-32	51	0.00	0.00	0.00	
1900	2.24	321.72	1899	44	-34	55	0.00	0.00	0.00	
2000	2.24	321.72	1999	47	-37	59	0.00	0.00	0.00	
2100	2.24	321.72	2099	50	-39	63	0.00	0.00	0.00	
2200	2.24	321.72	2199	53	-42	67	0.00	0.00	0.00	
2300	2.24	321.72	2299	56	-44	71	0.00	0.00	0.00	
2400	2.24	321.72	2399	59	-46	75	0.00	0.00	0.00	
2500	2.24	321.72	2498	62	-49	79	0.00	0.00	0.00	
2600	2.24	321.72	2598	65	-51	83	0.00	0.00	0.00	
2700	2.24	321.72	2698	68	-54	86	0.00	0.00	0.00	
2800	2.24	321.72	2798	71	-56	90	0.00	0.00	0.00	
2900	2.24	321.72	2898	74	-59	94	0.00	0.00	0.00	
3000	2.24	321.72	2998	77	-61	98	0.00	0.00	0.00	
3100	2.24	321.72	3098	80	-63	102	0.00	0.00	0.00	
3200	2.24	321.72	3198	83	-66	106	0.00	0.00	0.00	
3300	2.24	321.72	3298	87	-68	110	0.00	0.00	0.00	
3400	2.24	321.72	3398	90	-71	114	0.00	0.00	0.00	
3500	2.24	321.72	3498	93	-73	118	0.00	0.00	0.00	
3600	2.24	321.72	3598	96	-76	121	0.00	0.00	0.00	
3700	2.24	321.72	3698	99	-78	125	0.00	0.00	0.00	
3800	2.24	321.72	3797	102	-80	129	0.00	0.00	0.00	
3900	2.24	321.72	3897	105	-83	133	0.00	0.00	0.00	
4000	2.24	321.72	3997	108	-85	137	0.00	0.00	0.00	
4100	2.24	321.72	4097	111	-88	141	0.00	0.00	0.00	
4200	2.24	321.72	4197	114	-90	145	0.00	0.00	0.00	
4300	2.24	321.72	4297	117	-93	149	0.00	0.00	0.00	
4400	2.24	321.72	4397	120	-95	153	0.00	0.00	0.00	
4500	2.24	321.72	4497	123	-97	157	0.00	0.00	0.00	
4600	2.24	321.72	4597	126	-100	160	0.00	0.00	0.00	
4700	2.24	321.72	4697	130	-102	164	0.00	0.00	0.00	
4800	2.24	321.72	4797	133	-105	168	0.00	0.00	0.00	
4900	2.24	321.72	4897	136	-107	172	0.00	0.00	0.00	
5000	2.24	321.72	4997	139	-109	176	0.00	0.00	0.00	



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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)	
5100	2.24	321.72	5096	142	-112	180	0.00	0.00	0.00	
5200	2.24	321.72	5196	145	-114	184	0.00	0.00	0.00	
5300	2.24	321.72	5296	148	-117	188	0.00	0.00	0.00	
5400	2.24	321.72	5396	151	-119	192	0.00	0.00	0.00	
5500	2.24	321.72	5496	154	-122	195	0.00	0.00	0.00	
5565	2.24	321.72	5561	156	-123	198	0.00	0.00	0.00	
5600	5.38	318.56	5596	158	-125	200	9.00	8.98	-9.07	
5700	14.38	317.13	5694	171	-136	217	9.00	9.00	-1.42	
5800	23.38	316.80	5789	194	-158	250	9.00	9.00	-0.34	
5900	32.38	316.64	5877	228	-190	296	9.00	9.00	-0.16	
6000	41.38	316.55	5957	272	-232	356	9.00	9.00	-0.09	
6100	50.38	316.48	6027	324	-281	428	9.00	9.00	-0.07	
6200	59.38	316.43	6084	383	-337	510	9.00	9.00	-0.05	
6300	68.38	316.39	6128	448	-399	600	9.00	9.00	-0.04	
6400	77.38	316.35	6158	517	-465	695	9.00	9.00	-0.04	
6500	86.38	316.32	6172	589	-533	794	9.00	9.00	-0.03	
6538	89.82	316.31	6173	616	-560	832	9.00	9.00	-0.03	
6600	89.82	316.31	6173	661	-602	894	0.00	0.00	0.00	
6700	89.82	316.31	6174	733	-671	994	0.00	0.00	0.00	
6800	89.82	316.31	6174	805	-740	1094	0.00	0.00	0.00	
6900	89.82	316.31	6174	878	-810	1194	0.00	0.00	0.00	
7000	89.82	316.31	6174	950	-879	1294	0.00	0.00	0.00	
7100	89.82	316.31	6175	1022	-948	1394	0.00	0.00	0.00	
7200	89.82	316.31	6175	1095	-1017	1494	0.00	0.00	0.00	
7300	89.82	316.31	6175	1167	-1086	1594	0.00	0.00	0.00	
7400	89.82	316.31	6176	1239	-1155	1694	0.00	0.00	0.00	
7500	89.82	316.31	6176	1312	-1224	1794	0.00	0.00	0.00	
7600	89.82	316.31	6176	1384	-1293	1894	0.00	0.00	0.00	
7700	89.82	316.31	6177	1456	-1362	1994	0.00	0.00	0.00	
7800	89.82	316.31	6177	1528	-1431	2094	0.00	0.00	0.00	
7900	89.82	316.31	6177	1601	-1500	2194	0.00	0.00	0.00	
8000	89.82	316.31	6178	1673	-1569	2294	0.00	0.00	0.00	
8100	89.82	316.31	6178	1745	-1638	2394	0.00	0.00	0.00	
8200	89.82	316.31	6178	1818	-1708	2494	0.00	0.00	0.00	
8300	89.82	316.31	6179	1890	-1777	2594	0.00	0.00	0.00	
8400	89.82	316.31	6179	1962	-1846	2694	0.00	0.00	0.00	
8500	89.82	316.31	6179	2035	-1915	2794	0.00	0.00	0.00	
8600	89.82	316.31	6180	2107	-1984	2894	0.00	0.00	0.00	
8700	89.82	316.31	6180	2179	-2053	2994	0.00	0.00	0.00	
8800	89.82	316.31	6180	2251	-2122	3094	0.00	0.00	0.00	
8900	89.82	316.31	6181	2324	-2191	3194	0.00	0.00	0.00	
9000	89.82	316.31	6181	2396	-2260	3294	0.00	0.00	0.00	
9100	89.82	316.31	6181	2468	-2329	3394	0.00	0.00	0.00	
9200	89.82	316.31	6181	2541	-2398	3494	0.00	0.00	0.00	
9300	89.82	316.31	6182	2613	-2467	3594	0.00	0.00	0.00	
9400	89.82	316.31	6182	2685	-2537	3694	0.00	0.00	0.00	
9500	89.82	316.31	6182	2758	-2606	3794	0.00	0.00	0.00	
9600	89.82	316.31	6183	2830	-2675	3894	0.00	0.00	0.00	
9700	89.82	316.31	6183	2902	-2744	3994	0.00	0.00	0.00	
9800	89.82	316.31	6183	2975	-2813	4094	0.00	0.00	0.00	
9900	89.82	316.31	6184	3047	-2882	4194	0.00	0.00	0.00	
10,000	89.82	316.31	6184	3119	-2951	4294	0.00	0.00	0.00	
10,100	89.82	316.31	6184	3191	-3020	4394	0.00	0.00	0.00	



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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)	
10,200	89.82	316.31	6185	3264	-3089	4494	0.00	0.00	0.00	
10,300	89.82	316.31	6185	3336	-3158	4594	0.00	0.00	0.00	
10,400	89.82	316.31	6185	3408	-3227	4694	0.00	0.00	0.00	
10,500	89.82	316.31	6186	3481	-3296	4794	0.00	0.00	0.00	
10,600	89.82	316.31	6186	3553	-3365	4894	0.00	0.00	0.00	
10,700	89.82	316.31	6186	3625	-3435	4994	0.00	0.00	0.00	
10,800	89.82	316.31	6187	3698	-3504	5094	0.00	0.00	0.00	
10,900	89.82	316.31	6187	3770	-3573	5194	0.00	0.00	0.00	
11,000	89.82	316.31	6187	3842	-3642	5294	0.00	0.00	0.00	
11,100	89.82	316.31	6187	3914	-3711	5394	0.00	0.00	0.00	
11,200	89.82	316.31	6188	3987	-3780	5494	0.00	0.00	0.00	
11,300	89.82	316.31	6188	4059	-3849	5594	0.00	0.00	0.00	
11,400	89.82	316.31	6188	4131	-3918	5694	0.00	0.00	0.00	
11,500	89.82	316.31	6189	4204	-3987	5794	0.00	0.00	0.00	
11,600	89.82	316.31	6189	4276	-4056	5894	0.00	0.00	0.00	
11,700	89.82	316.31	6189	4348	-4125	5994	0.00	0.00	0.00	
11,800	89.82	316.31	6190	4421	-4194	6094	0.00	0.00	0.00	
11,900	89.82	316.31	6190	4493	-4264	6194	0.00	0.00	0.00	
12,000	89.82	316.31	6190	4565	-4333	6294	0.00	0.00	0.00	
12,100	89.82	316.31	6191	4637	-4402	6394	0.00	0.00	0.00	
12,200	89.82	316.31	6191	4710	-4471	6494	0.00	0.00	0.00	
12,300	89.82	316.31	6191	4782	-4540	6594	0.00	0.00	0.00	
12,400	89.82	316.31	6192	4854	-4609	6694	0.00	0.00	0.00	
12,500	89.82	316.31	6192	4927	-4678	6794	0.00	0.00	0.00	
12,600	89.82	316.31	6192	4999	-4747	6894	0.00	0.00	0.00	
12,700	89.82	316.31	6193	5071	-4816	6994	0.00	0.00	0.00	
12,800	89.82	316.31	6193	5144	-4885	7094	0.00	0.00	0.00	
12,900	89.82	316.31	6193	5216	-4954	7194	0.00	0.00	0.00	
13,000	89.82	316.31	6194	5288	-5023	7294	0.00	0.00	0.00	
13,100	89.82	316.31	6194	5361	-5093	7394	0.00	0.00	0.00	
13,200	89.82	316.31	6194	5433	-5162	7494	0.00	0.00	0.00	
13,300	89.82	316.31	6194	5505	-5231	7594	0.00	0.00	0.00	
13,400	89.82	316.31	6195	5577	-5300	7694	0.00	0.00	0.00	
13,500	89.82	316.31	6195	5650	-5369	7794	0.00	0.00	0.00	
13,600	89.82	316.31	6195	5722	-5438	7894	0.00	0.00	0.00	
13,700	89.82	316.31	6196	5794	-5507	7994	0.00	0.00	0.00	
13,800	89.82	316.31	6196	5867	-5576	8094	0.00	0.00	0.00	
13,900	89.82	316.31	6196	5939	-5645	8194	0.00	0.00	0.00	
14,000	89.82	316.31	6197	6011	-5714	8294	0.00	0.00	0.00	
14,100	89.82	316.31	6197	6084	-5783	8394	0.00	0.00	0.00	
14,200	89.82	316.31	6197	6156	-5852	8494	0.00	0.00	0.00	
14,300	89.82	316.31	6198	6228	-5921	8594	0.00	0.00	0.00	
14,400	89.82	316.31	6198	6300	-5991	8694	0.00	0.00	0.00	
14,500	89.82	316.31	6198	6373	-6060	8794	0.00	0.00	0.00	
14,600	89.82	316.31	6199	6445	-6129	8894	0.00	0.00	0.00	
14,700	89.82	316.31	6199	6517	-6198	8994	0.00	0.00	0.00	
14,726	89.82	316.31	6199	6536	-6215	9019	0.00	0.00	0.00	



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
C17 #003H heel	0.00	0.00	6173	616	-560	1,935,745.14	2,790,790.26	36.31968260	-107.60352660
- plan hits target center									
- Circle (radius 50)									
C17 #003H toe rev 1	0.00	0.00	6199	6536	-6215	1,941,651.31	2,785,120.22	36.33594245	-107.62273010
- plan hits target center									
- Circle (radius 100)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
350	350	Surface	9.62	12.25	
6485	6171	Intermediate	7.00	8.75	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1916	1915	Ojo Alamo		0.00	0.00	
2070	2069	Kirtland		0.00	0.00	
2327	2326	Fruitland		0.00	0.00	
2621	2619	Pictured Cliffs		0.00	0.00	
3420	3418	Lewis		0.00	0.00	
4140	4137	Chacra		0.00	0.00	
4158	4155	Menefee		0.00	0.00	
4901	4898	Point Lookout		0.00	0.00	
5137	5133	Mancos		0.00	0.00	
5565	5561	Mancos Silt		0.00	0.00	
6000	5957	Gallup A		0.00	0.00	
6094	6023	Gallup B		0.00	0.00	
6299	6128	Gallup C		0.00	0.00	



DJR Operating

**Escrito Area
C17 2407 Pad
3H**

**Original Drilling
APD Rev 1**

Anticollision Report

29 January, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Reference	APD Rev 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method	MD Interval 100ft	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	1/29/2022		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	14,726	APD Rev 1 (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measure	Offset Measure	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation	Warning
Offset Well - Wellbore - Design						
C17 2407 Pad						
# 1H - Original Drilling - APD Rev 1	400	400	20	17	8.115 CC, ES	
# 1H - Original Drilling - APD Rev 1	14,726	15,122	710	251	1.548 SF	
# 2H - Original Drilling - APD	400	400	20	18	8.202 CC	
# 2H - Original Drilling - APD	600	600	21	17	5.375 ES	
# 2H - Original Drilling - APD	6090	6126	170	125	3.773 SF	
# 4H - Original Drilling - APD	400	400	40	38	16.317 CC	
# 4H - Original Drilling - APD	500	499	41	37	12.817 ES	
# 4H - Original Drilling - APD	800	796	54	49	10.129 SF	
# 5H - Original Drilling - APD Rev 1	400	400	60	58	24.432 CC	
# 5H - Original Drilling - APD Rev 1	500	499	61	57	19.127 ES	
# 5H - Original Drilling - APD Rev 1	14,726	14,263	693	253	1.573 SF	

Offset Design	C17 2407 Pad - # 1H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program:	0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured 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		
0	0	0	0	0	0	-125.71	-12	-16	20					
100	100	100	100	0	0	-125.71	-12	-16	20	20	0.31	64.731		
200	200	200	200	1	1	-125.71	-12	-16	20	19	1.03	19.465		
300	300	300	300	1	1	-125.71	-12	-16	20	18	1.74	11.455		
400	400	400	400	1	1	-125.71	-12	-16	20	17	2.46	8.115 CC, ES		
500	500	500	500	2	2	-91.93	-13	-16	21	18	3.16	6.549		
600	600	599	599	2	2	-106.40	-17	-17	25	21	3.85	6.509		
700	700	697	697	2	2	-117.84	-24	-19	34	29	4.54	7.484		
800	800	795	794	3	3	-124.74	-35	-21	47	42	5.23	8.980		
900	900	894	892	3	3	-128.68	-47	-24	61	55	5.94	10.332		
1000	1000	993	991	3	3	-131.12	-58	-26	76	69	6.64	11.418		
1100	1100	1092	1089	4	4	-132.78	-70	-29	90	83	7.35	12.304		
1200	1199	1191	1187	4	4	-133.97	-81	-31	105	97	8.07	13.035		
1300	1299	1290	1285	4	4	-134.88	-93	-34	120	111	8.78	13.649		
1400	1399	1389	1383	5	5	-135.58	-105	-36	135	125	9.49	14.171		
1500	1499	1487	1481	5	5	-136.15	-116	-39	149	139	10.21	14.620		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 1H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Reference Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
1600	1599	1586	1580	6	6	-136.61	-128	-41	164	153	10.93	15.010		
1700	1699	1685	1678	6	6	-137.00	-140	-44	179	167	11.65	15.351		
1800	1799	1784	1776	6	6	-137.33	-151	-46	194	181	12.36	15.653		
1900	1899	1883	1874	7	7	-137.61	-163	-48	208	195	13.08	15.922		
2000	1999	1982	1972	7	7	-137.86	-174	-51	223	209	13.80	16.162		
2100	2099	2081	2071	7	8	-138.07	-186	-53	238	223	14.52	16.378		
2200	2199	2180	2169	8	8	-138.26	-198	-56	253	237	15.24	16.574		
2300	2299	2279	2267	8	8	-138.43	-209	-58	267	251	15.96	16.751		
2400	2399	2378	2365	8	9	-138.58	-221	-61	282	265	16.68	16.914		
2500	2498	2476	2463	9	9	-138.71	-233	-63	297	280	17.40	17.063		
2600	2598	2575	2561	9	10	-138.84	-244	-66	312	294	18.12	17.199		
2700	2698	2674	2660	10	10	-138.95	-256	-68	327	308	18.85	17.326		
2800	2798	2773	2758	10	10	-139.05	-267	-71	341	322	19.57	17.443		
2900	2898	2872	2856	10	11	-139.14	-279	-73	356	336	20.29	17.551		
3000	2998	2971	2954	11	11	-139.23	-291	-76	371	350	21.01	17.652		
3100	3098	3070	3052	11	12	-139.31	-302	-78	386	364	21.73	17.746		
3200	3198	3169	3151	11	12	-139.38	-314	-81	400	378	22.45	17.835		
3300	3298	3268	3249	12	12	-139.45	-326	-83	415	392	23.18	17.917		
3400	3398	3367	3347	12	13	-139.51	-337	-86	430	406	23.90	17.995		
3500	3498	3465	3445	12	13	-139.57	-349	-88	445	420	24.62	18.068		
3600	3598	3564	3543	13	13	-139.63	-360	-91	460	434	25.34	18.136		
3700	3698	3663	3641	13	14	-139.68	-372	-93	474	448	26.07	18.201		
3800	3797	3762	3740	13	14	-139.73	-384	-96	489	462	26.79	18.263		
3900	3897	3861	3838	14	15	-139.78	-395	-98	504	476	27.51	18.321		
4000	3997	3960	3936	14	15	-139.82	-407	-101	519	491	28.23	18.376		
4100	4097	4059	4034	15	15	-139.86	-418	-103	534	505	28.95	18.428		
4200	4197	4158	4132	15	16	-139.90	-430	-106	548	519	29.68	18.478		
4300	4297	4257	4231	15	16	-139.94	-442	-108	563	533	30.40	18.525		
4400	4397	4356	4329	16	17	-139.97	-453	-111	578	547	31.12	18.571		
4500	4497	4454	4427	16	17	-140.00	-465	-113	593	561	31.85	18.614		
4600	4597	4553	4525	16	17	-140.04	-477	-116	608	575	32.57	18.655		
4700	4697	4652	4623	17	18	-140.07	-488	-118	622	589	33.29	18.694		
4800	4797	4751	4721	17	18	-140.10	-500	-121	637	603	34.01	18.732		
4900	4897	4850	4820	17	19	-140.12	-511	-123	652	617	34.74	18.768		
5000	4997	4949	4918	18	19	-140.15	-523	-125	667	631	35.46	18.802		
5100	5096	5048	5016	18	19	-140.17	-535	-128	682	645	36.18	18.836		
5200	5196	5147	5114	19	20	-140.20	-546	-130	696	659	36.91	18.867		
5300	5296	5246	5212	19	20	-140.22	-558	-133	711	673	37.63	18.898		
5400	5396	5345	5311	19	21	-140.24	-570	-135	726	688	38.35	18.928		
5500	5496	5443	5408	20	22	-137.61	-569	-176	732	693	39.27	18.636		
5600	5596	5545	5509	20	22	-121.00	-445	-339	703	665	37.62	18.676		
5700	5694	5647	5609	20	23	-111.10	-340	-454	666	627	38.73	17.182		
5800	5789	5749	5709	21	24	-104.75	-260	-538	633	592	41.38	15.305		
5900	5877	5839	5807	21	25	-99.50	-193	-605	610	565	44.35	13.746		
6000	5957	5929	5897	22	26	-95.29	-143	-654	596	549	46.91	12.712		
6086	6018	6026	6029	22	27	-91.39	-99	-697	593	544	48.77	12.160		
6100	6027	6037	6029	22	27	-90.72	-91	-705	593	544	49.05	12.093		
6200	6084	6119	6029	23	28	-85.87	-33	-762	597	546	51.07	11.688		
6300	6128	6109	6030	24	30	-81.55	31	-825	604	551	53.22	11.345		
6400	6158	6104	6031	25	31	-78.42	100	-892	610	555	55.69	10.960		
6500	6172	6103	6031	26	33	-76.85	171	-961	615	556	58.60	10.486		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design		C17 2407 Pad - # 1H - Original Drilling - APD Rev 1											Offset Site Error:		0 ft	
Survey Program:		0-MWD+HDGM						Rule Assigned:						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)						
6600	6173	7003	6032	28	35	-76.75	242	-1031	616	554	61.94	9.944				
6700	6174	7103	6033	30	37	-76.81	313	-1101	617	552	65.51	9.419				
6800	6174	7203	6033	31	39	-76.87	385	-1171	618	549	69.27	8.924				
6900	6174	7303	6034	33	42	-76.93	456	-1241	619	546	73.19	8.462				
7000	6174	7403	6035	35	44	-76.99	528	-1311	620	543	77.24	8.033				
7100	6175	7503	6035	37	46	-77.05	599	-1381	622	540	81.41	7.636				
7200	6175	7603	6036	39	48	-77.11	670	-1451	623	537	85.67	7.269				
7300	6175	7703	6037	41	51	-77.17	742	-1521	624	534	90.02	6.931				
7400	6176	7803	6038	43	53	-77.22	813	-1591	625	531	94.44	6.619				
7500	6176	7903	6038	46	55	-77.28	885	-1661	626	527	98.92	6.330				
7600	6176	8003	6039	48	58	-77.34	956	-1731	627	524	103.46	6.064				
7700	6177	8103	6040	50	60	-77.40	1028	-1801	628	520	108.04	5.817				
7800	6177	8203	6040	52	62	-77.46	1099	-1871	630	517	112.67	5.588				
7900	6177	8303	6041	55	65	-77.52	1170	-1941	631	513	117.33	5.376				
8000	6178	8403	6042	57	67	-77.57	1242	-2011	632	510	122.03	5.178				
8100	6178	8503	6042	60	70	-77.63	1313	-2081	633	506	126.75	4.994				
8200	6178	8603	6043	62	72	-77.69	1385	-2151	634	503	131.51	4.823				
8300	6179	8703	6044	64	75	-77.74	1456	-2221	635	499	136.28	4.662				
8400	6179	8803	6044	67	77	-77.80	1528	-2291	636	495	141.08	4.512				
8500	6179	8903	6045	69	80	-77.86	1599	-2361	638	492	145.90	4.371				
8600	6180	9003	6046	72	82	-77.91	1670	-2431	639	488	150.73	4.238				
8700	6180	9103	6046	74	85	-77.97	1742	-2501	640	484	155.58	4.113				
8800	6180	9203	6047	76	87	-78.03	1813	-2571	641	481	160.45	3.996				
8900	6181	9303	6048	79	90	-78.08	1885	-2641	642	477	165.33	3.885				
9000	6181	9403	6049	81	92	-78.14	1956	-2711	643	473	170.22	3.780				
9100	6181	9503	6049	84	95	-78.19	2028	-2781	645	469	175.12	3.681				
9200	6181	9603	6050	86	97	-78.25	2099	-2851	646	466	180.04	3.586				
9300	6182	9703	6051	89	100	-78.30	2170	-2921	647	462	184.96	3.497				
9400	6182	9803	6051	91	102	-78.36	2242	-2990	648	458	189.90	3.412				
9500	6182	9903	6052	94	105	-78.41	2313	-3060	649	454	194.84	3.332				
9600	6183	10,003	6053	96	107	-78.47	2385	-3130	650	451	199.79	3.255				
9700	6183	10,103	6053	99	110	-78.52	2456	-3200	651	447	204.75	3.182				
9800	6183	10,203	6054	101	112	-78.57	2527	-3270	653	443	209.71	3.112				
9900	6184	10,303	6055	104	115	-78.63	2599	-3340	654	439	214.69	3.045				
10,000	6184	10,403	6055	106	117	-78.68	2670	-3410	655	435	219.66	2.982				
10,100	6184	10,503	6056	109	120	-78.74	2742	-3480	656	431	224.65	2.920				
10,200	6185	10,603	6057	111	122	-78.79	2813	-3550	657	428	229.64	2.862				
10,300	6185	10,703	6058	114	125	-78.84	2885	-3620	658	424	234.64	2.806				
10,400	6185	10,803	6058	116	127	-78.89	2956	-3690	660	420	239.64	2.752				
10,500	6186	10,903	6059	119	130	-78.95	3027	-3760	661	416	244.64	2.701				
10,600	6186	11,003	6060	121	132	-79.00	3099	-3830	662	412	249.65	2.651				
10,700	6186	11,103	6060	124	135	-79.05	3170	-3900	663	408	254.67	2.604				
10,800	6187	11,203	6061	126	138	-79.10	3242	-3970	664	405	259.69	2.558				
10,900	6187	11,303	6062	129	140	-79.16	3313	-4040	665	401	264.71	2.514				
11,000	6187	11,403	6062	131	143	-79.21	3385	-4110	667	397	269.74	2.471				
11,100	6187	11,503	6063	134	145	-79.26	3456	-4180	668	393	274.77	2.430				
11,200	6188	11,603	6064	136	148	-79.31	3527	-4250	669	389	279.81	2.390				
11,300	6188	11,703	6064	139	150	-79.36	3599	-4320	670	385	284.85	2.352				
11,400	6188	11,803	6065	141	153	-79.41	3670	-4390	671	381	289.89	2.315				
11,500	6189	11,903	6066	144	155	-79.46	3742	-4460	672	377	294.93	2.280				
11,600	6189	12,003	6066	147	158	-79.51	3813	-4530	674	374	299.98	2.245				

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design		C17 2407 Pad - # 1H - Original Drilling - APD Rev 1											Offset Site Error:		0 ft
Survey Program:		0-MWD+HDGM					Rule Assigned:				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)					
11,700	6189	12,103	6067	149	160	-79.56	3885	-4600	675	370	305.03	2.212			
11,800	6190	12,203	6068	152	163	-79.61	3956	-4670	676	366	310.09	2.180			
11,900	6190	12,303	6069	154	166	-79.66	4027	-4740	677	362	315.15	2.148			
12,000	6190	12,403	6069	157	168	-79.71	4099	-4810	678	358	320.21	2.118			
12,100	6191	12,503	6070	159	171	-79.76	4170	-4880	679	354	325.27	2.089			
12,200	6191	12,603	6071	162	173	-79.81	4242	-4950	681	350	330.33	2.060			
12,300	6191	12,703	6071	164	176	-79.86	4313	-5020	682	346	335.40	2.032			
12,400	6192	12,803	6072	167	178	-79.91	4384	-5090	683	342	340.47	2.006			
12,500	6192	12,903	6073	169	181	-79.96	4456	-5160	684	338	345.54	1.980			
12,600	6192	13,003	6073	172	183	-80.01	4527	-5230	685	335	350.61	1.954			
12,700	6193	13,103	6074	174	186	-80.06	4599	-5300	686	331	355.69	1.930			
12,800	6193	13,203	6075	177	189	-80.11	4670	-5370	688	327	360.77	1.906			
12,900	6193	13,303	6075	180	191	-80.16	4742	-5440	689	323	365.85	1.882			
13,000	6194	13,403	6076	182	194	-80.21	4813	-5510	690	319	370.93	1.860			
13,100	6194	13,503	6077	185	196	-80.25	4884	-5580	691	315	376.02	1.838			
13,200	6194	13,603	6078	187	199	-80.30	4956	-5650	692	311	381.10	1.816			
13,300	6194	13,703	6078	190	201	-80.35	5027	-5720	693	307	386.19	1.795			
13,400	6195	13,803	6079	192	204	-80.40	5099	-5789	695	303	391.28	1.775			
13,500	6195	13,903	6080	195	207	-80.44	5170	-5859	696	299	396.37	1.755			
13,600	6195	14,003	6080	197	209	-80.49	5242	-5929	697	295	401.46	1.736			
13,700	6196	14,103	6081	200	212	-80.54	5313	-5999	698	292	406.56	1.717			
13,800	6196	14,203	6082	202	214	-80.59	5384	-6069	699	288	411.65	1.699			
13,900	6196	14,303	6082	205	217	-80.63	5456	-6139	700	284	416.75	1.681			
14,000	6197	14,403	6083	208	219	-80.68	5527	-6209	702	280	421.85	1.663			
14,100	6197	14,503	6084	210	222	-80.73	5599	-6279	703	276	426.95	1.646			
14,200	6197	14,603	6084	213	225	-80.77	5670	-6349	704	272	432.06	1.629			
14,300	6198	14,703	6085	215	227	-80.82	5742	-6419	705	268	437.16	1.613			
14,400	6198	14,803	6086	218	230	-80.86	5813	-6489	706	264	442.26	1.597			
14,500	6198	14,903	6086	220	232	-80.91	5884	-6559	708	260	447.37	1.582			
14,600	6199	15,003	6087	223	235	-80.96	5956	-6629	709	256	452.48	1.566			
14,700	6199	15,103	6088	225	237	-81.00	6027	-6699	710	252	457.59	1.551			
14,726	6199	15,122	6088	226	238	-81.01	6041	-6713	710	251	458.72	1.548 SF			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Depth (ft)	Measured Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
0	0	0	0	0	0	53.45	12	16	20					
100	100	100	100	0	0	53.45	12	16	20	20	0.31	65.428		
200	200	200	200	1	1	53.45	12	16	20	19	1.03	19.674		
300	300	300	300	1	1	53.45	12	16	20	18	1.74	11.578		
400	400	400	400	1	1	53.45	12	16	20	18	2.46	8.202 CC		
500	500	500	500	2	2	91.74	13	16	20	17	3.17	6.398		
600	600	600	600	2	2	89.91	17	14	21	17	3.89	5.375 ES		
700	700	700	699	2	2	79.98	23	10	22	18	4.61	4.843		
800	800	799	798	3	3	64.65	33	4	26	21	5.33	4.887		
900	900	898	896	3	3	50.94	45	-3	33	27	6.05	5.407		
1000	1000	998	995	3	3	42.15	56	-10	41	34	6.77	6.000		
1100	1100	1097	1094	4	4	36.31	68	-17	49	42	7.49	6.564		
1200	1199	1197	1192	4	4	32.22	79	-23	58	50	8.21	7.072		
1300	1299	1297	1291	4	5	29.23	91	-30	67	58	8.93	7.520		
1400	1399	1396	1390	5	5	26.96	103	-37	76	67	9.65	7.916		
1500	1499	1496	1488	5	5	25.18	114	-44	86	75	10.37	8.264		
1600	1599	1595	1587	6	6	23.75	126	-51	95	84	11.10	8.573		
1700	1699	1695	1685	6	6	22.58	137	-57	105	93	11.82	8.848		
1800	1799	1794	1784	6	7	21.60	149	-64	114	102	12.55	9.093		
1900	1899	1894	1883	7	7	20.77	161	-71	124	110	13.27	9.314		
2000	1999	1993	1981	7	7	20.07	172	-78	133	119	14.00	9.513		
2100	2099	2093	2080	7	8	19.45	184	-85	143	128	14.72	9.694		
2200	2199	2192	2179	8	8	18.92	195	-91	152	137	15.45	9.858		
2300	2299	2292	2277	8	9	18.44	207	-98	162	146	16.18	10.008		
2400	2399	2391	2376	8	9	18.02	218	-105	171	155	16.90	10.146		
2500	2498	2491	2474	9	9	17.65	230	-112	181	163	17.63	10.273		
2600	2598	2590	2573	9	10	17.31	242	-119	191	172	18.36	10.390		
2700	2698	2690	2672	10	10	17.01	253	-126	200	181	19.08	10.498		
2800	2798	2790	2770	10	11	16.73	265	-132	210	190	19.81	10.599		
2900	2898	2889	2869	10	11	16.48	276	-139	220	199	20.54	10.692		
3000	2998	2989	2967	11	11	16.24	288	-146	229	208	21.26	10.780		
3100	3098	3088	3066	11	12	16.03	300	-153	239	217	21.99	10.862		
3200	3198	3188	3165	11	12	15.83	311	-160	248	226	22.72	10.938		
3300	3298	3287	3263	12	13	15.65	323	-166	258	235	23.44	11.010		
3400	3398	3387	3362	12	13	15.48	334	-173	268	244	24.17	11.078		
3500	3498	3486	3461	12	13	15.33	346	-180	277	253	24.90	11.142		
3600	3598	3586	3559	13	14	15.18	358	-187	287	261	25.63	11.202		
3700	3698	3685	3658	13	14	15.04	369	-194	297	270	26.35	11.259		
3800	3797	3785	3756	13	15	14.92	381	-200	306	279	27.08	11.313		
3900	3897	3884	3855	14	15	14.80	392	-207	316	288	27.81	11.364		
4000	3997	3984	3954	14	15	14.68	404	-214	326	297	28.54	11.413		
4100	4097	4083	4052	15	16	14.58	416	-221	335	306	29.26	11.459		
4200	4197	4183	4151	15	16	14.47	427	-228	345	315	29.99	11.503		
4300	4297	4282	4249	15	17	14.38	439	-235	355	324	30.72	11.545		
4400	4397	4382	4348	16	17	14.29	450	-241	364	333	31.45	11.585		
4500	4497	4482	4447	16	17	14.20	462	-248	374	342	32.17	11.623		
4600	4597	4581	4545	16	18	14.12	474	-255	384	351	32.90	11.659		
4700	4697	4681	4644	17	18	14.04	485	-262	393	360	33.63	11.694		
4800	4797	4780	4743	17	19	13.97	497	-269	403	369	34.36	11.728		
4900	4897	4880	4841	17	19	13.90	508	-275	413	378	35.09	11.760		
5000	4997	4979	4940	18	19	13.83	520	-282	422	386	35.81	11.791		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5100	5096	5079	5038	18	20	13.77	531	-289	432	395	36.54	11.820	
5200	5196	5178	5137	19	20	13.71	543	-296	442	404	37.27	11.849	
5300	5296	5278	5236	19	21	13.65	555	-303	451	413	38.00	11.876	
5400	5396	5377	5334	19	21	13.59	566	-309	461	422	38.72	11.902	
5500	5496	5477	5433	20	21	13.54	578	-316	471	431	39.45	11.928	
5600	5596	5579	5536	20	22	13.48	589	-322	481	440	40.17	12.000	
5700	5694	5682	5641	20	23	13.42	600	-328	491	449	40.89	12.072	
5800	5789	5777	5736	21	23	13.36	611	-334	501	458	41.61	12.144	
5900	5877	5865	5824	21	23	13.30	622	-340	511	467	42.33	12.216	
6000	5957	5945	5904	22	23	13.24	633	-346	521	476	43.05	12.288	
6090	6021	6016	6017	22	23	13.18	644	-352	531	485	43.77	12.360	
6100	6027	6125	6016	22	23	87.83	439	-155	171	125	45.15	3.777	
6200	6084	6104	6002	23	23	78.22	449	-166	201	159	42.04	4.777	
6300	6128	6077	5983	24	23	63.63	463	-181	263	224	38.41	6.842	
6400	6158	6050	5964	25	23	49.78	476	-194	336	299	37.10	9.053	
6500	6172	6010	5933	26	23	37.13	494	-213	411	374	36.53	11.238	
6600	6173	5974	5904	28	23	31.71	509	-229	485	448	36.90	13.135	
6700	6174	5950	5885	30	23	29.82	518	-238	563	525	37.69	14.940	
6800	6174	5915	5855	31	22	27.31	531	-252	645	607	37.93	16.998	
6900	6174	5900	5842	33	22	26.29	536	-257	729	691	38.64	18.878	
7000	6174	5871	5816	35	22	24.49	545	-267	816	777	38.85	21.006	
7100	6175	5850	5797	37	22	23.31	551	-274	905	866	39.19	23.086	
7200	6175	5850	5797	39	22	23.31	551	-274	995	955	39.83	24.980	
7300	6175	5822	5771	41	22	21.83	558	-282	1086	1046	39.88	27.229	
7400	6176	5800	5751	43	22	20.79	563	-288	1178	1138	40.02	29.441	
7500	6176	5800	5751	46	22	20.79	563	-288	1271	1231	40.43	31.445	
7600	6176	5800	5751	48	22	20.79	563	-288	1365	1324	40.77	33.491	
7700	6177	5777	5729	50	22	19.75	568	-294	1459	1419	40.79	35.783	
7800	6177	5768	5721	52	22	19.38	570	-296	1554	1513	40.96	37.951	
7900	6177	5750	5703	55	22	18.65	573	-300	1650	1609	41.01	40.224	
8000	6178	5750	5703	57	22	18.65	573	-300	1745	1704	41.23	42.333	
8100	6178	5750	5703	60	22	18.65	573	-300	1842	1800	41.42	44.459	
8200	6178	5750	5703	62	22	18.65	573	-300	1938	1896	41.59	46.599	
8300	6179	5750	5703	64	22	18.65	573	-300	2035	1993	41.74	48.749	
8400	6179	5728	5682	67	22	17.81	577	-304	2132	2090	41.72	51.096	
8500	6179	5723	5677	69	22	17.63	577	-305	2229	2187	41.81	53.300	
8600	6180	5700	5655	72	22	16.84	580	-309	2326	2285	41.78	55.676	
8700	6180	5700	5655	74	22	16.84	580	-309	2424	2382	41.91	57.838	
8800	6180	5700	5655	76	22	16.84	580	-309	2521	2479	42.02	60.004	
8900	6181	5700	5655	79	22	16.84	580	-309	2619	2577	42.12	62.174	
9000	6181	5700	5655	81	22	16.84	580	-309	2717	2675	42.22	64.347	
9100	6181	5700	5655	84	22	16.84	580	-309	2815	2773	42.32	66.520	
9200	6181	5700	5655	86	22	16.84	580	-309	2913	2871	42.41	68.695	
9300	6182	5700	5655	89	22	16.84	580	-309	3012	2969	42.49	70.870	
9400	6182	5700	5655	91	22	16.84	580	-309	3110	3067	42.58	73.044	
9500	6182	5700	5655	94	22	16.84	580	-309	3209	3166	42.66	75.218	
9600	6183	5700	5655	96	22	16.84	580	-309	3307	3264	42.73	77.390	
9700	6183	5700	5655	99	22	16.84	580	-309	3406	3363	42.81	79.559	
9800	6183	5679	5634	101	22	16.15	582	-312	3504	3461	42.78	81.911	
9900	6184	5676	5632	104	22	16.08	583	-312	3603	3560	42.84	84.095	
10,000	6184	5674	5629	106	22	16.01	583	-312	3702	3659	42.91	86.275	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100	6184	5672	5627	109	22	15.95	583	-313	3801	3758	42.97	88.451		
10,200	6185	5650	5605	111	22	15.29	585	-315	3900	3857	42.94	90.817		
10,300	6185	5650	5605	114	22	15.29	585	-315	3999	3956	43.01	92.966		
10,400	6185	5650	5605	116	22	15.29	585	-315	4098	4055	43.08	95.110		
10,500	6186	5650	5605	119	22	15.29	585	-315	4197	4154	43.15	97.251		
10,600	6186	5650	5605	121	22	15.29	585	-315	4296	4252	43.22	99.387		
10,700	6186	5650	5605	124	22	15.29	585	-315	4395	4351	43.29	101.519		
10,800	6187	5650	5605	126	22	15.29	585	-315	4494	4451	43.36	103.646		
10,900	6187	5650	5605	129	22	15.29	585	-315	4593	4550	43.43	105.768		
11,000	6187	5650	5605	131	22	15.29	585	-315	4692	4649	43.49	107.884		
11,100	6187	5650	5605	134	22	15.29	585	-315	4791	4748	43.56	109.996		
11,200	6188	5650	5605	136	22	15.29	585	-315	4891	4847	43.63	112.101		
11,300	6188	5650	5605	139	22	15.29	585	-315	4990	4946	43.70	114.201		
11,400	6188	5650	5605	141	22	15.29	585	-315	5089	5046	43.76	116.296		
11,500	6189	5650	5605	144	22	15.29	585	-315	5189	5145	43.83	118.384		
11,600	6189	5650	5605	147	22	15.29	585	-315	5288	5244	43.90	120.466		
11,700	6189	5650	5605	149	22	15.29	585	-315	5387	5343	43.96	122.542		
11,800	6190	5650	5605	152	22	15.29	585	-315	5487	5443	44.03	124.611		
11,900	6190	5650	5605	154	22	15.29	585	-315	5586	5542	44.10	126.674		
12,000	6190	5650	5605	157	22	15.29	585	-315	5686	5642	44.17	128.730		
12,100	6191	5650	5605	159	22	15.29	585	-315	5785	5741	44.24	130.780		
12,200	6191	5650	5605	162	22	15.29	585	-315	5885	5840	44.31	132.823		
12,300	6191	5650	5605	164	22	15.29	585	-315	5984	5940	44.37	134.859		
12,400	6192	5650	5605	167	22	15.29	585	-315	6084	6039	44.44	136.888		
12,500	6192	5650	5605	169	22	15.29	585	-315	6183	6139	44.51	138.909		
12,600	6192	5650	5605	172	22	15.29	585	-315	6283	6238	44.58	140.924		
12,700	6193	5650	5605	174	22	15.29	585	-315	6382	6338	44.65	142.931		
12,800	6193	5650	5605	177	22	15.29	585	-315	6482	6437	44.72	144.931		
12,900	6193	5650	5605	180	22	15.29	585	-315	6582	6537	44.80	146.924		
13,000	6194	5650	5605	182	22	15.29	585	-315	6681	6636	44.87	148.909		
13,100	6194	5650	5605	185	22	15.29	585	-315	6781	6736	44.94	150.887		
13,200	6194	5650	5605	187	22	15.29	585	-315	6880	6835	45.01	152.857		
13,300	6194	5650	5605	190	22	15.29	585	-315	6980	6935	45.09	154.819		
13,400	6195	5650	5605	192	22	15.29	585	-315	7080	7035	45.16	156.774		
13,500	6195	5650	5605	195	22	15.29	585	-315	7179	7134	45.23	158.721		
13,600	6195	5650	5605	197	22	15.29	585	-315	7279	7234	45.31	160.660		
13,700	6196	5650	5605	200	22	15.29	585	-315	7379	7333	45.38	162.591		
13,800	6196	5650	5605	202	22	15.29	585	-315	7478	7433	45.46	164.514		
13,900	6196	5650	5605	205	22	15.29	585	-315	7578	7533	45.53	166.430		
14,000	6197	5650	5605	208	22	15.29	585	-315	7678	7632	45.61	168.337		
14,100	6197	5650	5605	210	22	15.29	585	-315	7778	7732	45.69	170.237		
14,200	6197	5650	5605	213	22	15.29	585	-315	7877	7831	45.76	172.128		
14,300	6198	5650	5605	215	22	15.29	585	-315	7977	7931	45.84	174.011		
14,400	6198	5650	5605	218	22	15.29	585	-315	8077	8031	45.92	175.886		
14,500	6198	5650	5605	220	22	15.29	585	-315	8176	8130	46.00	177.753		
14,600	6199	5626	5582	223	22	14.64	586	-317	8276	8230	46.00	179.896		
14,700	6199	5626	5581	225	22	14.63	586	-317	8375	8329	46.08	181.754		
14,726	6199	5626	5581	226	22	14.62	586	-317	8401	8355	46.10	182.229		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
0	0	0	0	0	0	53.86	24	32	40						
100	100	100	100	0	0	53.86	24	32	40	40	0.31	130.155			
200	200	200	200	1	1	53.86	24	32	40	39	1.03	39.138			
300	300	300	300	1	1	53.86	24	32	40	38	1.74	23.032			
400	400	400	400	1	1	53.86	24	32	40	38	2.46	16.317 CC			
500	500	499	499	2	2	92.33	25	32	41	37	3.17	12.817 ES			
600	600	599	599	2	2	92.26	29	32	43	39	3.88	11.080			
700	700	698	697	2	2	88.93	37	31	47	43	4.60	10.283			
800	800	796	795	3	3	83.27	48	30	54	49	5.31	10.129 SF			
900	900	894	892	3	3	76.69	62	29	63	57	6.02	10.491			
1000	1000	991	988	3	3	70.31	79	28	76	69	6.73	11.280			
1100	1100	1087	1081	4	4	64.71	100	26	92	85	7.42	12.411			
1200	1199	1182	1173	4	4	60.07	123	24	112	104	8.10	13.811			
1300	1299	1278	1265	4	5	56.31	149	21	135	126	8.80	15.292			
1400	1399	1375	1359	5	5	53.58	175	19	158	148	9.52	16.580			
1500	1499	1472	1452	5	6	51.54	201	17	181	171	10.25	17.706			
1600	1599	1569	1545	6	6	49.98	228	15	205	194	10.98	18.692			
1700	1699	1666	1639	6	7	48.73	254	12	229	217	11.71	19.561			
1800	1799	1763	1732	6	7	47.73	281	10	253	240	12.44	20.331			
1900	1899	1860	1825	7	7	46.89	307	8	277	264	13.18	21.018			
2000	1999	1957	1919	7	8	46.19	334	5	301	287	13.91	21.633			
2100	2099	2054	2012	7	8	45.60	360	3	325	310	14.65	22.187			
2200	2199	2151	2105	8	9	45.08	386	1	349	334	15.39	22.688			
2300	2299	2248	2199	8	9	44.63	413	-2	373	357	16.13	23.143			
2400	2399	2345	2292	8	10	44.24	439	-4	397	381	16.87	23.558			
2500	2498	2442	2385	9	10	43.89	466	-6	422	404	17.61	23.939			
2600	2598	2539	2478	9	11	43.58	492	-9	446	427	18.35	24.288			
2700	2698	2636	2572	10	11	43.30	519	-11	470	451	19.09	24.610			
2800	2798	2733	2665	10	12	43.05	545	-13	494	474	19.84	24.909			
2900	2898	2830	2758	10	12	42.82	572	-16	518	498	20.58	25.185			
3000	2998	2927	2852	11	13	42.62	598	-18	543	521	21.32	25.442			
3100	3098	3024	2945	11	13	42.43	624	-20	567	545	22.07	25.682			
3200	3198	3121	3038	11	14	42.25	651	-22	591	568	22.81	25.905			
3300	3298	3218	3132	12	14	42.09	677	-25	615	592	23.56	26.115			
3400	3398	3315	3225	12	15	41.94	704	-27	639	615	24.30	26.312			
3500	3498	3412	3318	12	15	41.80	730	-29	664	639	25.05	26.496			
3600	3598	3509	3412	13	16	41.68	757	-32	688	662	25.79	26.670			
3700	3698	3606	3505	13	16	41.56	783	-34	712	686	26.54	26.834			
3800	3797	3703	3598	13	17	41.45	809	-36	736	709	27.28	26.989			
3900	3897	3800	3691	14	17	41.34	836	-39	761	733	28.03	27.136			
4000	3997	3897	3785	14	18	41.24	862	-41	785	756	28.78	27.275			
4100	4097	3994	3878	15	18	41.15	889	-43	809	780	29.52	27.407			
4200	4197	4091	3971	15	19	41.06	915	-46	833	803	30.27	27.532			
4300	4297	4188	4065	15	19	40.98	942	-48	858	827	31.02	27.651			
4400	4397	4285	4158	16	20	40.91	968	-50	882	850	31.76	27.765			
4500	4497	4382	4251	16	20	40.83	994	-53	906	874	32.51	27.873			
4600	4597	4479	4345	16	21	40.76	1021	-55	930	897	33.26	27.976			
4700	4697	4576	4438	17	21	40.70	1047	-57	955	921	34.00	28.075			
4800	4797	4673	4531	17	22	40.63	1074	-59	979	944	34.75	28.169			
4900	4897	4770	4625	17	22	40.58	1100	-62	1003	968	35.50	28.260			
5000	4997	4867	4718	18	23	40.52	1127	-64	1027	991	36.25	28.346			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (ft)	Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5100	5096	4964	4811	18	23	40.46	1153	-66	1052	1015	36.99	28.429		
5200	5196	5061	4904	19	24	40.41	1179	-69	1076	1038	37.74	28.508		
5300	5296	5158	4998	19	24	40.36	1206	-71	1100	1062	38.49	28.585		
5400	5396	5255	5091	19	25	40.32	1232	-73	1124	1085	39.24	28.658		
5500	5496	6774	6057	20	30	85.63	822	571	1113	1071	41.95	26.539		
5600	5596	6769	6057	20	30	90.03	826	567	1066	1022	44.00	24.233		
5700	5694	6751	6057	20	30	94.21	839	554	1027	981	45.83	22.413		
5800	5789	6718	6057	21	29	95.51	863	531	997	950	47.28	21.090		
5900	5877	6670	6058	21	29	95.09	897	498	976	928	48.33	20.203		
6000	5957	6607	6058	22	28	93.33	942	454	964	915	48.97	19.686		
6100	6027	6503	6050	22	28	89.34	1014	381	957	908	49.10	19.492		
6200	6084	6415	6030	23	27	85.70	1073	318	954	904	49.45	19.287		
6243	6105	6380	6019	23	27	84.20	1096	294	953	904	49.67	19.197		
6300	6128	6336	6002	24	27	82.24	1123	263	954	904	49.96	19.094		
6400	6158	6264	5969	25	27	78.91	1164	214	957	906	50.63	18.902		
6500	6172	6195	5932	26	27	75.72	1200	170	962	911	51.46	18.700		
6600	6173	6132	5892	28	27	73.05	1230	131	970	917	52.43	18.496		
6700	6174	6078	5854	30	27	70.79	1252	99	983	929	53.46	18.381		
6800	6174	6032	5820	31	27	68.77	1269	74	1002	948	54.49	18.392		
6900	6174	6000	5794	33	27	67.27	1280	57	1028	973	55.54	18.518		
7000	6174	5961	5762	35	27	65.44	1291	38	1062	1005	56.32	18.848		
7100	6175	5933	5739	37	27	64.08	1298	25	1101	1044	57.07	19.300		
7200	6175	5900	5710	39	27	62.46	1306	11	1148	1090	57.55	19.940		
7300	6175	5900	5710	41	27	62.46	1306	11	1199	1141	58.37	20.550		
7400	6176	5870	5683	43	27	60.96	1312	-2	1256	1198	58.58	21.446		
7500	6176	5850	5665	46	27	60.00	1315	-9	1318	1259	58.82	22.404		
7600	6176	5850	5665	48	27	60.00	1315	-9	1384	1324	59.24	23.356		
7700	6177	5826	5643	50	27	58.81	1318	-18	1453	1393	59.22	24.530		
7800	6177	5800	5619	52	27	57.53	1321	-27	1525	1466	59.11	25.805		
7900	6177	5800	5619	55	27	57.53	1321	-27	1600	1541	59.31	26.982		
8000	6178	5800	5619	57	27	57.53	1321	-27	1678	1618	59.45	28.223		
8100	6178	5800	5619	60	27	57.53	1321	-27	1758	1698	59.55	29.518		
8200	6178	5778	5598	62	27	56.46	1323	-34	1839	1780	59.34	30.991		
8300	6179	5771	5591	64	27	56.11	1323	-36	1922	1863	59.30	32.415		
8400	6179	5750	5571	67	27	55.09	1324	-42	2007	1948	59.08	33.975		
8500	6179	5750	5571	69	27	55.09	1324	-42	2093	2034	59.10	35.416		
8600	6180	5750	5571	72	27	55.09	1324	-42	2180	2121	59.10	36.885		
8700	6180	5750	5571	74	27	55.09	1324	-42	2268	2209	59.10	38.380		
8800	6180	5750	5571	76	27	55.09	1324	-42	2357	2298	59.08	39.896		
8900	6181	5750	5571	79	27	55.09	1324	-42	2447	2388	59.06	41.432		
9000	6181	5750	5571	81	27	55.09	1324	-42	2538	2479	59.03	42.985		
9100	6181	5730	5552	84	27	54.13	1325	-48	2629	2570	58.80	44.702		
9200	6181	5726	5548	86	27	53.95	1325	-49	2720	2662	58.74	46.312		
9300	6182	5723	5545	89	27	53.78	1325	-50	2813	2754	58.68	47.933		
9400	6182	5700	5523	91	27	52.71	1325	-55	2906	2847	58.43	49.732		
9500	6182	5700	5523	94	27	52.71	1325	-55	2999	2941	58.41	51.344		
9600	6183	5700	5523	96	27	52.71	1325	-55	3093	3034	58.39	52.966		
9700	6183	5700	5523	99	27	52.71	1325	-55	3186	3128	58.37	54.595		
9800	6183	5700	5523	101	27	52.71	1325	-55	3281	3222	58.35	56.231		
9900	6184	5700	5523	104	27	52.71	1325	-55	3375	3317	58.33	57.873		
10,000	6184	5700	5523	106	27	52.71	1325	-55	3470	3412	58.31	59.520		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	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)			
10,100	6184	5700	5523	109	27	52.71	1325	-55	3566	3507	58.29	61.171	
10,200	6185	5700	5523	111	27	52.71	1325	-55	3661	3603	58.27	62.827	
10,300	6185	5700	5523	114	27	52.71	1325	-55	3757	3699	58.26	64.486	
10,400	6185	5700	5523	116	27	52.71	1325	-55	3853	3794	58.24	66.148	
10,500	6186	5700	5523	119	27	52.71	1325	-55	3949	3891	58.23	67.813	
10,600	6186	5700	5523	121	27	52.71	1325	-55	4045	3987	58.22	69.480	
10,700	6186	5700	5523	124	27	52.71	1325	-55	4142	4083	58.21	71.148	
10,800	6187	5700	5523	126	27	52.71	1325	-55	4238	4180	58.20	72.818	
10,900	6187	5700	5523	129	27	52.71	1325	-55	4335	4277	58.20	74.488	
11,000	6187	5700	5523	131	27	52.71	1325	-55	4432	4374	58.20	76.159	
11,100	6187	5700	5523	134	27	52.71	1325	-55	4529	4471	58.19	77.831	
11,200	6188	5700	5523	136	27	52.71	1325	-55	4626	4568	58.19	79.503	
11,300	6188	5700	5523	139	27	52.71	1325	-55	4724	4666	58.19	81.175	
11,400	6188	5700	5523	141	27	52.71	1325	-55	4821	4763	58.19	82.846	
11,500	6189	5678	5501	144	27	51.66	1324	-60	4918	4860	58.02	84.768	
11,600	6189	5676	5500	147	27	51.61	1324	-60	5016	4958	58.02	86.454	
11,700	6189	5675	5499	149	27	51.55	1324	-60	5114	5056	58.02	88.140	
11,800	6190	5674	5497	152	27	51.50	1324	-60	5211	5153	58.02	89.824	
11,900	6190	5673	5496	154	27	51.45	1324	-61	5309	5251	58.02	91.506	
12,000	6190	5650	5474	157	27	50.39	1323	-65	5407	5350	57.85	93.470	
12,100	6191	5650	5474	159	27	50.39	1323	-65	5505	5448	57.87	95.139	
12,200	6191	5650	5474	162	27	50.39	1323	-65	5603	5546	57.88	96.806	
12,300	6191	5650	5474	164	27	50.39	1323	-65	5702	5644	57.90	98.472	
12,400	6192	5650	5474	167	27	50.39	1323	-65	5800	5742	57.92	100.135	
12,500	6192	5650	5474	169	27	50.39	1323	-65	5898	5840	57.94	101.797	
12,600	6192	5650	5474	172	27	50.39	1323	-65	5996	5938	57.96	103.456	
12,700	6193	5650	5474	174	27	50.39	1323	-65	6095	6037	57.98	105.112	
12,800	6193	5650	5474	177	27	50.39	1323	-65	6193	6135	58.00	106.767	
12,900	6193	5650	5474	180	27	50.39	1323	-65	6291	6233	58.03	108.418	
13,000	6194	5650	5474	182	27	50.39	1323	-65	6390	6332	58.05	110.068	
13,100	6194	5650	5474	185	27	50.39	1323	-65	6488	6430	58.08	111.714	
13,200	6194	5650	5474	187	27	50.39	1323	-65	6587	6529	58.11	113.357	
13,300	6194	5650	5474	190	27	50.39	1323	-65	6686	6627	58.14	114.998	
13,400	6195	5650	5474	192	27	50.39	1323	-65	6784	6726	58.17	116.636	
13,500	6195	5650	5474	195	27	50.39	1323	-65	6883	6825	58.20	118.270	
13,600	6195	5650	5474	197	27	50.39	1323	-65	6982	6923	58.23	119.901	
13,700	6196	5650	5474	200	27	50.39	1323	-65	7080	7022	58.26	121.529	
13,800	6196	5650	5474	202	27	50.39	1323	-65	7179	7121	58.30	123.154	
13,900	6196	5650	5474	205	27	50.39	1323	-65	7278	7220	58.33	124.776	
14,000	6197	5650	5474	208	27	50.39	1323	-65	7377	7319	58.37	126.393	
14,100	6197	5650	5474	210	27	50.39	1323	-65	7476	7418	58.40	128.008	
14,200	6197	5650	5474	213	27	50.39	1323	-65	7575	7516	58.44	129.619	
14,300	6198	5650	5474	215	27	50.39	1323	-65	7674	7615	58.48	131.226	
14,400	6198	5650	5474	218	27	50.39	1323	-65	7773	7714	58.52	132.829	
14,500	6198	5650	5474	220	27	50.39	1323	-65	7872	7813	58.56	134.429	
14,600	6199	5650	5474	223	27	50.39	1323	-65	7971	7912	58.60	136.025	
14,700	6199	5650	5474	225	27	50.39	1323	-65	8070	8011	58.64	137.617	
14,726	6199	5650	5474	226	27	50.39	1323	-65	8095	8037	58.65	138.024	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1														Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Reference Depth (ft)	Measured Depth (ft)	Vertical Offset Depth (ft)	Semi Major Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (ft)		Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	54.00	35	49	60						
100	100	100	100	0	0	54.00	35	49	60	60	0.31	194.886			
200	200	200	200	1	1	54.00	35	49	60	59	1.03	58.602			
300	300	300	300	1	1	54.00	35	49	60	58	1.74	34.486			
400	400	400	400	1	1	54.00	35	49	60	58	2.46	24.432 CC			
500	500	499	499	2	2	92.43	36	49	61	57	3.17	19.127 ES			
600	600	598	598	2	2	92.50	41	48	63	59	3.88	16.288			
700	700	696	696	2	2	90.39	48	48	68	63	4.59	14.751			
800	800	795	794	3	3	86.50	59	48	75	69	5.31	14.046			
900	900	892	890	3	3	81.61	73	47	84	78	6.02	13.953			
1000	1000	990	987	3	3	76.68	90	47	96	89	6.74	14.225			
1100	1100	1089	1084	4	4	72.77	107	46	108	101	7.46	14.522			
1200	1199	1188	1182	4	4	69.69	124	46	121	113	8.19	14.814			
1300	1299	1287	1279	4	5	67.20	141	45	135	126	8.92	15.086			
1400	1399	1386	1377	5	5	65.16	158	45	148	138	9.65	15.338			
1500	1499	1485	1474	5	5	63.46	175	44	162	151	10.38	15.569			
1600	1599	1584	1572	6	6	62.02	193	43	175	164	11.11	15.779			
1700	1699	1683	1669	6	6	60.80	210	43	189	177	11.84	15.971			
1800	1799	1782	1767	6	7	59.74	227	42	203	190	12.57	16.145			
1900	1899	1881	1864	7	7	58.81	244	42	217	204	13.30	16.305			
2000	1999	1980	1962	7	7	58.00	261	41	231	217	14.03	16.451			
2100	2099	2079	2059	7	8	57.28	278	41	245	230	14.77	16.585			
2200	2199	2178	2157	8	8	56.64	295	40	259	243	15.50	16.709			
2300	2299	2277	2254	8	9	56.06	312	40	273	257	16.23	16.823			
2400	2399	2376	2352	8	9	55.54	329	39	287	270	16.96	16.928			
2500	2498	2475	2449	9	10	55.07	346	38	301	284	17.69	17.026			
2600	2598	2574	2547	9	10	54.64	363	38	315	297	18.43	17.117			
2700	2698	2673	2644	10	10	54.25	380	37	330	310	19.16	17.201			
2800	2798	2772	2742	10	11	53.89	397	37	344	324	19.89	17.280			
2900	2898	2871	2839	10	11	53.56	414	36	358	337	20.63	17.354			
3000	2998	2970	2937	11	12	53.26	431	36	372	351	21.36	17.423			
3100	3098	3069	3034	11	12	52.97	449	35	386	364	22.09	17.488			
3200	3198	3168	3132	11	12	52.71	466	34	401	378	22.83	17.549			
3300	3298	3267	3229	12	13	52.46	483	34	415	391	23.56	17.607			
3400	3398	3366	3327	12	13	52.24	500	33	429	405	24.29	17.661			
3500	3498	3465	3424	12	14	52.02	517	33	443	418	25.03	17.713			
3600	3598	3564	3522	13	14	51.82	534	32	458	432	25.76	17.761			
3700	3698	3663	3619	13	15	51.63	551	32	472	445	26.49	17.807			
3800	3797	3762	3717	13	15	51.45	568	31	486	459	27.23	17.851			
3900	3897	3861	3814	14	15	51.29	585	31	500	472	27.96	17.892			
4000	3997	3960	3911	14	16	51.13	602	30	515	486	28.69	17.932			
4100	4097	4058	4009	15	16	50.98	619	29	529	499	29.43	17.970			
4200	4197	4157	4106	15	17	50.84	636	29	543	513	30.16	18.005			
4300	4297	4256	4204	15	17	50.70	653	28	557	526	30.89	18.040			
4400	4397	4355	4301	16	18	50.57	670	28	572	540	31.63	18.072			
4500	4497	4454	4399	16	18	50.45	687	27	586	554	32.36	18.104			
4600	4597	4553	4496	16	18	50.34	705	27	600	567	33.10	18.134			
4700	4697	4652	4594	17	19	50.23	722	26	614	581	33.83	18.162			
4800	4797	4751	4691	17	19	50.12	739	25	629	594	34.56	18.190			
4900	4897	4850	4789	17	20	50.02	756	25	643	608	35.30	18.216			
5000	4997	4949	4886	18	20	49.92	773	24	657	621	36.03	18.242			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured 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		
5100	5096	5048	4984	18	20	49.83	790	24	672	635	36.77	18.266		
5200	5196	5147	5081	19	21	49.74	807	23	686	648	37.50	18.290		
5300	5296	5246	5179	19	21	49.66	824	23	700	662	38.24	18.312		
5400	5396	5345	5276	19	22	49.58	841	22	714	676	38.97	18.334		
5500	5496	5444	5374	20	22	49.50	858	22	729	689	39.70	18.355		
5600	5596	5543	5471	20	23	52.32	875	21	743	702	40.44	18.360		
5700	5694	5618	5545	20	23	53.62	889	20	750	709	41.01	18.290		
5800	5789	5678	5603	21	23	54.32	904	15	754	712	41.44	18.186		
5900	5877	5738	5659	21	24	55.33	922	7	754	712	41.88	17.995		
6000	5957	5800	5715	22	24	56.78	945	-6	750	708	42.41	17.689		
6100	6027	5860	5767	22	24	58.64	971	-22	744	701	43.07	17.265		
6200	6084	5922	5817	23	25	60.99	1001	-43	735	690	44.04	16.680		
6300	6128	5985	5865	24	25	63.80	1034	-67	724	678	45.40	15.936		
6400	6158	6050	5909	25	26	67.08	1072	-96	711	664	47.26	15.053		
6500	6172	6115	5948	26	26	70.71	1113	-128	699	649	49.59	14.094		
6600	6173	6185	5984	28	27	74.00	1159	-166	688	636	52.34	13.148		
6700	6174	6263	6017	30	28	76.70	1213	-212	682	627	55.33	12.325		
6800	6174	6350	6043	31	29	78.86	1275	-268	679	621	58.50	11.607		
6900	6174	6441	6057	33	30	80.08	1341	-328	678	616	61.80	10.972		
6935	6174	6474	6060	34	30	80.26	1365	-351	678	615	62.98	10.766		
7000	6174	6538	6060	35	31	80.30	1411	-395	678	613	65.24	10.395		
7100	6175	6638	6061	37	33	80.32	1484	-464	678	610	68.87	9.850		
7200	6175	6738	6061	39	35	80.34	1556	-532	679	606	72.67	9.337		
7300	6175	6838	6062	41	37	80.36	1629	-601	679	602	76.62	8.858		
7400	6176	6938	6062	43	38	80.38	1701	-670	679	598	80.70	8.413		
7500	6176	7038	6063	46	40	80.40	1773	-739	679	594	84.88	8.001		
7600	6176	7138	6063	48	42	80.42	1846	-808	679	590	89.16	7.619		
7700	6177	7238	6064	50	45	80.44	1918	-877	680	586	93.51	7.266		
7800	6177	7338	6064	52	47	80.46	1991	-946	680	582	97.94	6.940		
7900	6177	7438	6065	55	49	80.48	2063	-1015	680	577	102.42	6.638		
8000	6178	7538	6065	57	51	80.50	2136	-1084	680	573	106.96	6.358		
8100	6178	7638	6066	60	53	80.52	2208	-1153	680	569	111.54	6.099		
8200	6178	7738	6066	62	56	80.54	2281	-1222	680	564	116.17	5.857		
8300	6179	7838	6067	64	58	80.55	2353	-1291	681	560	120.83	5.633		
8400	6179	7938	6067	67	60	80.57	2426	-1359	681	555	125.52	5.424		
8500	6179	8038	6068	69	63	80.59	2498	-1428	681	551	130.24	5.229		
8600	6180	8138	6068	72	65	80.61	2570	-1497	681	546	134.99	5.046		
8700	6180	8238	6069	74	67	80.63	2643	-1566	681	542	139.76	4.876		
8800	6180	8338	6069	76	70	80.65	2715	-1635	682	537	144.55	4.715		
8900	6181	8438	6070	79	72	80.67	2788	-1704	682	532	149.36	4.565		
9000	6181	8538	6071	81	75	80.69	2860	-1773	682	528	154.19	4.423		
9100	6181	8638	6071	84	77	80.71	2933	-1842	682	523	159.03	4.290		
9200	6181	8738	6072	86	79	80.73	3005	-1911	682	518	163.89	4.164		
9300	6182	8838	6072	89	82	80.75	3078	-1980	683	514	168.76	4.045		
9400	6182	8938	6073	91	84	80.77	3150	-2049	683	509	173.64	3.932		
9500	6182	9038	6073	94	87	80.79	3223	-2118	683	504	178.53	3.825		
9600	6183	9138	6074	96	89	80.81	3295	-2186	683	500	183.43	3.724		
9700	6183	9238	6074	99	92	80.83	3368	-2255	683	495	188.35	3.628		
9800	6183	9338	6075	101	94	80.84	3440	-2324	683	490	193.27	3.537		
9900	6184	9438	6075	104	97	80.86	3512	-2393	684	485	198.20	3.450		
10,000	6184	9538	6076	106	99	80.88	3585	-2462	684	481	203.13	3.367		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1													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		Rule Assigned:				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,100	6184	9638	6076	109	102	80.90	3657	-2531	684	476	208.08	3.288		
10,200	6185	9738	6077	111	104	80.92	3730	-2600	684	471	213.03	3.212		
10,300	6185	9838	6077	114	107	80.94	3802	-2669	684	466	217.98	3.140		
10,400	6185	9938	6078	116	109	80.96	3875	-2738	685	462	222.95	3.071		
10,500	6186	10,038	6078	119	112	80.98	3947	-2807	685	457	227.91	3.005		
10,600	6186	10,138	6079	121	114	81.00	4020	-2876	685	452	232.89	2.941		
10,700	6186	10,238	6079	124	117	81.02	4092	-2945	685	447	237.86	2.881		
10,800	6187	10,338	6080	126	119	81.04	4165	-3013	685	443	242.85	2.822		
10,900	6187	10,438	6080	129	122	81.06	4237	-3082	686	438	247.83	2.766		
11,000	6187	10,538	6081	131	124	81.08	4309	-3151	686	433	252.82	2.713		
11,100	6187	10,638	6081	134	127	81.09	4382	-3220	686	428	257.82	2.661		
11,200	6188	10,738	6082	136	129	81.11	4454	-3289	686	423	262.82	2.611		
11,300	6188	10,838	6082	139	132	81.13	4527	-3358	686	419	267.82	2.563		
11,400	6188	10,938	6083	141	134	81.15	4599	-3427	687	414	272.82	2.517		
11,500	6189	11,038	6083	144	137	81.17	4672	-3496	687	409	277.83	2.472		
11,600	6189	11,138	6084	147	139	81.19	4744	-3565	687	404	282.84	2.429		
11,700	6189	11,238	6084	149	142	81.21	4817	-3634	687	399	287.85	2.387		
11,800	6190	11,338	6085	152	144	81.23	4889	-3703	687	394	292.87	2.347		
11,900	6190	11,438	6085	154	147	81.25	4962	-3772	688	390	297.89	2.308		
12,000	6190	11,538	6086	157	149	81.27	5034	-3840	688	385	302.91	2.270		
12,100	6191	11,638	6086	159	152	81.29	5106	-3909	688	380	307.93	2.234		
12,200	6191	11,738	6087	162	154	81.30	5179	-3978	688	375	312.96	2.199		
12,300	6191	11,838	6087	164	157	81.32	5251	-4047	688	370	317.99	2.165		
12,400	6192	11,938	6088	167	159	81.34	5324	-4116	688	365	323.02	2.131		
12,500	6192	12,038	6088	169	162	81.36	5396	-4185	689	361	328.05	2.099		
12,600	6192	12,138	6089	172	164	81.38	5469	-4254	689	356	333.09	2.068		
12,700	6193	12,238	6090	174	167	81.40	5541	-4323	689	351	338.12	2.038		
12,800	6193	12,338	6090	177	169	81.42	5614	-4392	689	346	343.16	2.009		
12,900	6193	12,438	6091	180	172	81.44	5686	-4461	689	341	348.20	1.980		
13,000	6194	12,538	6091	182	175	81.46	5759	-4530	690	336	353.24	1.952		
13,100	6194	12,638	6092	185	177	81.47	5831	-4599	690	332	358.29	1.925		
13,200	6194	12,738	6092	187	180	81.49	5904	-4667	690	327	363.33	1.899		
13,300	6194	12,838	6093	190	182	81.51	5976	-4736	690	322	368.38	1.874		
13,400	6195	12,938	6093	192	185	81.53	6048	-4805	690	317	373.43	1.849		
13,500	6195	13,038	6094	195	187	81.55	6121	-4874	691	312	378.48	1.825		
13,600	6195	13,138	6094	197	190	81.57	6193	-4943	691	307	383.53	1.801		
13,700	6196	13,238	6095	200	192	81.59	6266	-5012	691	302	388.58	1.778		
13,800	6196	13,338	6095	202	195	81.61	6338	-5081	691	298	393.63	1.756		
13,900	6196	13,438	6096	205	197	81.63	6411	-5150	691	293	398.69	1.734		
14,000	6197	13,538	6096	208	200	81.64	6483	-5219	692	288	403.75	1.713		
14,100	6197	13,638	6097	210	202	81.66	6556	-5288	692	283	408.80	1.692		
14,200	6197	13,738	6097	213	205	81.68	6628	-5357	692	278	413.86	1.672		
14,300	6198	13,838	6098	215	208	81.70	6701	-5426	692	273	418.92	1.652		
14,400	6198	13,938	6098	218	210	81.72	6773	-5494	692	268	423.98	1.633		
14,500	6198	14,038	6099	220	213	81.74	6845	-5563	693	264	429.04	1.614		
14,600	6199	14,138	6099	223	215	81.76	6918	-5632	693	259	434.11	1.596		
14,700	6199	14,238	6100	225	218	81.78	6990	-5701	693	254	439.17	1.578		
14,726	6199	14,263	6100	226	218	81.78	7009	-5719	693	253	440.47	1.573 SF		

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



Lonestar Consulting, LLC

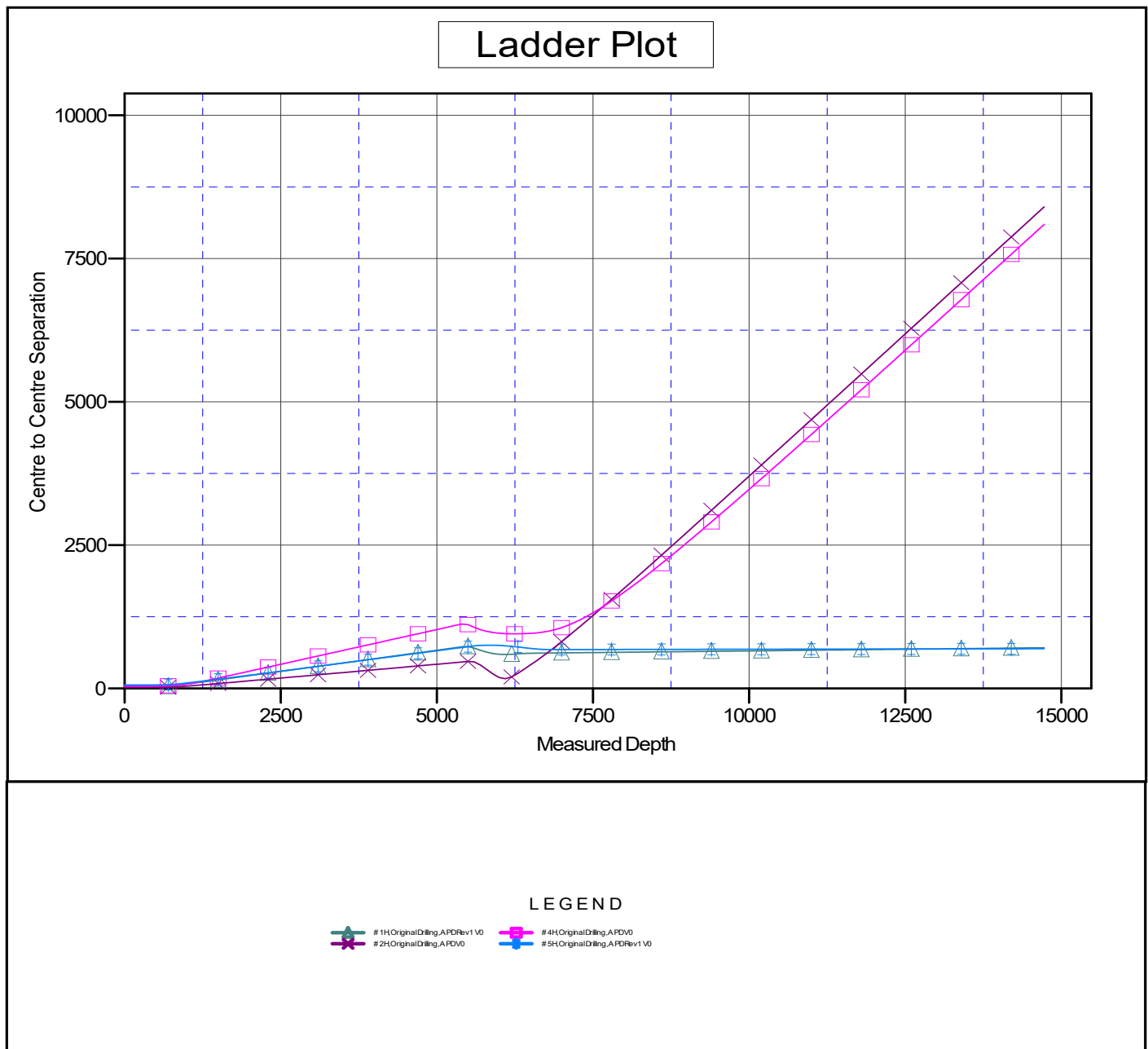
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GL 7284' & RKB 14' @ 7298ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 3H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.14°



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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GL 7284' & RKB 14' @ 7298ft

Offset Depths are relative to Offset Datum

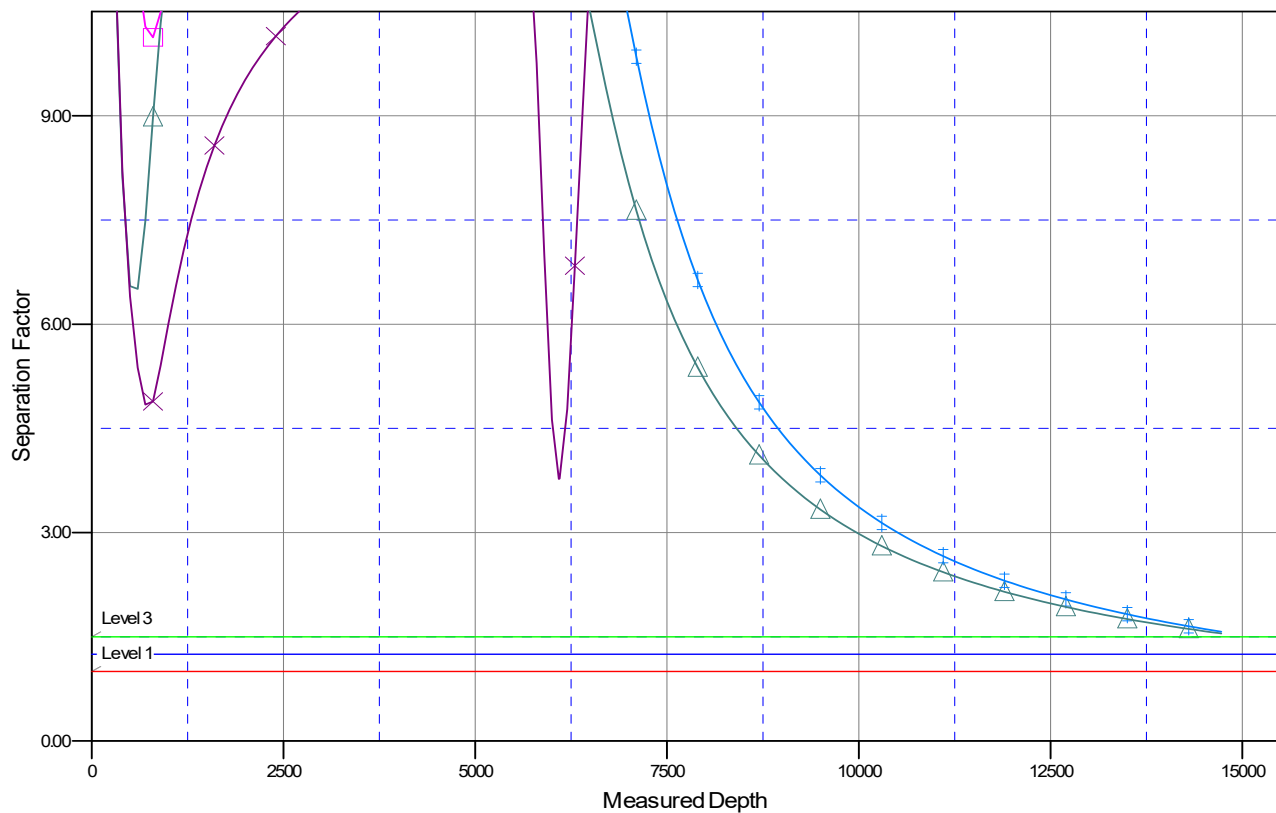
Central Meridian is -107.83333333

Coordinates are relative to: # 3H - Slot 4

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

Grid Convergence at Surface is: 0.14°

Separation Factor Plot



LEGEND

#1H Original Drilling APD Rev1 V0
 #2H Original Drilling APD V0
 #4H Original Drilling APD V0
 #5H Original Drilling APD Rev1 V0



DJR Operating

**Escrito Area
C17 2407 Pad
3H - Slot 4**

Original Drilling

Plan: APD Rev 1

Standard Planning Report

29 January, 2022





Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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

Site	C17 2407 Pad		
Site Position:		Northing:	1,935,165.75 usft
From:	Lat/Long	Easting:	2,791,399.86 usft
Position Uncertainty:	0 ft	Slot Radius:	13.20 in
		Latitude:	36.31808700
		Longitude:	-107.60146200
		Grid Convergence:	0.14 °

Well	# 3H - Slot 4		
Well Position	+N/-S	-35 ft	Northing:
	+E/-W	-49 ft	Easting:
Position Uncertainty		0 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM_FILE	8/12/2020	8.58	62.87	49,364.70000000

Design	APD Rev 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0	0	0	316.44

Plan Survey Tool Program	Date	1/29/2022		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0	14,726	APD Rev 1 (Original Drilling)	MWD+HDGM
				OWSG MWD + HDGM

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
537	2.24	321.72	537	2	-1	2.00	2.00	0.00	321.72	
5565	2.24	321.72	5561	156	-123	0.00	0.00	0.00	0.00	
6538	89.82	316.31	6173	616	-560	9.00	9.00	-0.56	-5.42	C17 #003H heel
14,726	89.82	316.31	6199	6536	-6215	0.00	0.00	0.00	0.00	C17 #003H toe rev 1



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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	321.72	500	1	-1	1	2.00	2.00	0.00	
537	2.24	321.72	537	2	-1	2	2.00	2.00	0.00	
600	2.24	321.72	600	4	-3	5	0.00	0.00	0.00	
700	2.24	321.72	700	7	-5	9	0.00	0.00	0.00	
800	2.24	321.72	800	10	-8	12	0.00	0.00	0.00	
900	2.24	321.72	900	13	-10	16	0.00	0.00	0.00	
1000	2.24	321.72	1000	16	-13	20	0.00	0.00	0.00	
1100	2.24	321.72	1100	19	-15	24	0.00	0.00	0.00	
1200	2.24	321.72	1199	22	-17	28	0.00	0.00	0.00	
1300	2.24	321.72	1299	25	-20	32	0.00	0.00	0.00	
1400	2.24	321.72	1399	28	-22	36	0.00	0.00	0.00	
1500	2.24	321.72	1499	31	-25	40	0.00	0.00	0.00	
1600	2.24	321.72	1599	34	-27	44	0.00	0.00	0.00	
1700	2.24	321.72	1699	37	-30	47	0.00	0.00	0.00	
1800	2.24	321.72	1799	41	-32	51	0.00	0.00	0.00	
1900	2.24	321.72	1899	44	-34	55	0.00	0.00	0.00	
2000	2.24	321.72	1999	47	-37	59	0.00	0.00	0.00	
2100	2.24	321.72	2099	50	-39	63	0.00	0.00	0.00	
2200	2.24	321.72	2199	53	-42	67	0.00	0.00	0.00	
2300	2.24	321.72	2299	56	-44	71	0.00	0.00	0.00	
2400	2.24	321.72	2399	59	-46	75	0.00	0.00	0.00	
2500	2.24	321.72	2498	62	-49	79	0.00	0.00	0.00	
2600	2.24	321.72	2598	65	-51	83	0.00	0.00	0.00	
2700	2.24	321.72	2698	68	-54	86	0.00	0.00	0.00	
2800	2.24	321.72	2798	71	-56	90	0.00	0.00	0.00	
2900	2.24	321.72	2898	74	-59	94	0.00	0.00	0.00	
3000	2.24	321.72	2998	77	-61	98	0.00	0.00	0.00	
3100	2.24	321.72	3098	80	-63	102	0.00	0.00	0.00	
3200	2.24	321.72	3198	83	-66	106	0.00	0.00	0.00	
3300	2.24	321.72	3298	87	-68	110	0.00	0.00	0.00	
3400	2.24	321.72	3398	90	-71	114	0.00	0.00	0.00	
3500	2.24	321.72	3498	93	-73	118	0.00	0.00	0.00	
3600	2.24	321.72	3598	96	-76	121	0.00	0.00	0.00	
3700	2.24	321.72	3698	99	-78	125	0.00	0.00	0.00	
3800	2.24	321.72	3797	102	-80	129	0.00	0.00	0.00	
3900	2.24	321.72	3897	105	-83	133	0.00	0.00	0.00	
4000	2.24	321.72	3997	108	-85	137	0.00	0.00	0.00	
4100	2.24	321.72	4097	111	-88	141	0.00	0.00	0.00	
4200	2.24	321.72	4197	114	-90	145	0.00	0.00	0.00	
4300	2.24	321.72	4297	117	-93	149	0.00	0.00	0.00	
4400	2.24	321.72	4397	120	-95	153	0.00	0.00	0.00	
4500	2.24	321.72	4497	123	-97	157	0.00	0.00	0.00	
4600	2.24	321.72	4597	126	-100	160	0.00	0.00	0.00	
4700	2.24	321.72	4697	130	-102	164	0.00	0.00	0.00	
4800	2.24	321.72	4797	133	-105	168	0.00	0.00	0.00	
4900	2.24	321.72	4897	136	-107	172	0.00	0.00	0.00	
5000	2.24	321.72	4997	139	-109	176	0.00	0.00	0.00	



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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)	
5100	2.24	321.72	5096	142	-112	180	0.00	0.00	0.00	
5200	2.24	321.72	5196	145	-114	184	0.00	0.00	0.00	
5300	2.24	321.72	5296	148	-117	188	0.00	0.00	0.00	
5400	2.24	321.72	5396	151	-119	192	0.00	0.00	0.00	
5500	2.24	321.72	5496	154	-122	195	0.00	0.00	0.00	
5565	2.24	321.72	5561	156	-123	198	0.00	0.00	0.00	
5600	5.38	318.56	5596	158	-125	200	9.00	8.98	-9.07	
5700	14.38	317.13	5694	171	-136	217	9.00	9.00	-1.42	
5800	23.38	316.80	5789	194	-158	250	9.00	9.00	-0.34	
5900	32.38	316.64	5877	228	-190	296	9.00	9.00	-0.16	
6000	41.38	316.55	5957	272	-232	356	9.00	9.00	-0.09	
6100	50.38	316.48	6027	324	-281	428	9.00	9.00	-0.07	
6200	59.38	316.43	6084	383	-337	510	9.00	9.00	-0.05	
6300	68.38	316.39	6128	448	-399	600	9.00	9.00	-0.04	
6400	77.38	316.35	6158	517	-465	695	9.00	9.00	-0.04	
6500	86.38	316.32	6172	589	-533	794	9.00	9.00	-0.03	
6538	89.82	316.31	6173	616	-560	832	9.00	9.00	-0.03	
6600	89.82	316.31	6173	661	-602	894	0.00	0.00	0.00	
6700	89.82	316.31	6174	733	-671	994	0.00	0.00	0.00	
6800	89.82	316.31	6174	805	-740	1094	0.00	0.00	0.00	
6900	89.82	316.31	6174	878	-810	1194	0.00	0.00	0.00	
7000	89.82	316.31	6174	950	-879	1294	0.00	0.00	0.00	
7100	89.82	316.31	6175	1022	-948	1394	0.00	0.00	0.00	
7200	89.82	316.31	6175	1095	-1017	1494	0.00	0.00	0.00	
7300	89.82	316.31	6175	1167	-1086	1594	0.00	0.00	0.00	
7400	89.82	316.31	6176	1239	-1155	1694	0.00	0.00	0.00	
7500	89.82	316.31	6176	1312	-1224	1794	0.00	0.00	0.00	
7600	89.82	316.31	6176	1384	-1293	1894	0.00	0.00	0.00	
7700	89.82	316.31	6177	1456	-1362	1994	0.00	0.00	0.00	
7800	89.82	316.31	6177	1528	-1431	2094	0.00	0.00	0.00	
7900	89.82	316.31	6177	1601	-1500	2194	0.00	0.00	0.00	
8000	89.82	316.31	6178	1673	-1569	2294	0.00	0.00	0.00	
8100	89.82	316.31	6178	1745	-1638	2394	0.00	0.00	0.00	
8200	89.82	316.31	6178	1818	-1708	2494	0.00	0.00	0.00	
8300	89.82	316.31	6179	1890	-1777	2594	0.00	0.00	0.00	
8400	89.82	316.31	6179	1962	-1846	2694	0.00	0.00	0.00	
8500	89.82	316.31	6179	2035	-1915	2794	0.00	0.00	0.00	
8600	89.82	316.31	6180	2107	-1984	2894	0.00	0.00	0.00	
8700	89.82	316.31	6180	2179	-2053	2994	0.00	0.00	0.00	
8800	89.82	316.31	6180	2251	-2122	3094	0.00	0.00	0.00	
8900	89.82	316.31	6181	2324	-2191	3194	0.00	0.00	0.00	
9000	89.82	316.31	6181	2396	-2260	3294	0.00	0.00	0.00	
9100	89.82	316.31	6181	2468	-2329	3394	0.00	0.00	0.00	
9200	89.82	316.31	6181	2541	-2398	3494	0.00	0.00	0.00	
9300	89.82	316.31	6182	2613	-2467	3594	0.00	0.00	0.00	
9400	89.82	316.31	6182	2685	-2537	3694	0.00	0.00	0.00	
9500	89.82	316.31	6182	2758	-2606	3794	0.00	0.00	0.00	
9600	89.82	316.31	6183	2830	-2675	3894	0.00	0.00	0.00	
9700	89.82	316.31	6183	2902	-2744	3994	0.00	0.00	0.00	
9800	89.82	316.31	6183	2975	-2813	4094	0.00	0.00	0.00	
9900	89.82	316.31	6184	3047	-2882	4194	0.00	0.00	0.00	
10,000	89.82	316.31	6184	3119	-2951	4294	0.00	0.00	0.00	
10,100	89.82	316.31	6184	3191	-3020	4394	0.00	0.00	0.00	



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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)	
10,200	89.82	316.31	6185	3264	-3089	4494	0.00	0.00	0.00	
10,300	89.82	316.31	6185	3336	-3158	4594	0.00	0.00	0.00	
10,400	89.82	316.31	6185	3408	-3227	4694	0.00	0.00	0.00	
10,500	89.82	316.31	6186	3481	-3296	4794	0.00	0.00	0.00	
10,600	89.82	316.31	6186	3553	-3365	4894	0.00	0.00	0.00	
10,700	89.82	316.31	6186	3625	-3435	4994	0.00	0.00	0.00	
10,800	89.82	316.31	6187	3698	-3504	5094	0.00	0.00	0.00	
10,900	89.82	316.31	6187	3770	-3573	5194	0.00	0.00	0.00	
11,000	89.82	316.31	6187	3842	-3642	5294	0.00	0.00	0.00	
11,100	89.82	316.31	6187	3914	-3711	5394	0.00	0.00	0.00	
11,200	89.82	316.31	6188	3987	-3780	5494	0.00	0.00	0.00	
11,300	89.82	316.31	6188	4059	-3849	5594	0.00	0.00	0.00	
11,400	89.82	316.31	6188	4131	-3918	5694	0.00	0.00	0.00	
11,500	89.82	316.31	6189	4204	-3987	5794	0.00	0.00	0.00	
11,600	89.82	316.31	6189	4276	-4056	5894	0.00	0.00	0.00	
11,700	89.82	316.31	6189	4348	-4125	5994	0.00	0.00	0.00	
11,800	89.82	316.31	6190	4421	-4194	6094	0.00	0.00	0.00	
11,900	89.82	316.31	6190	4493	-4264	6194	0.00	0.00	0.00	
12,000	89.82	316.31	6190	4565	-4333	6294	0.00	0.00	0.00	
12,100	89.82	316.31	6191	4637	-4402	6394	0.00	0.00	0.00	
12,200	89.82	316.31	6191	4710	-4471	6494	0.00	0.00	0.00	
12,300	89.82	316.31	6191	4782	-4540	6594	0.00	0.00	0.00	
12,400	89.82	316.31	6192	4854	-4609	6694	0.00	0.00	0.00	
12,500	89.82	316.31	6192	4927	-4678	6794	0.00	0.00	0.00	
12,600	89.82	316.31	6192	4999	-4747	6894	0.00	0.00	0.00	
12,700	89.82	316.31	6193	5071	-4816	6994	0.00	0.00	0.00	
12,800	89.82	316.31	6193	5144	-4885	7094	0.00	0.00	0.00	
12,900	89.82	316.31	6193	5216	-4954	7194	0.00	0.00	0.00	
13,000	89.82	316.31	6194	5288	-5023	7294	0.00	0.00	0.00	
13,100	89.82	316.31	6194	5361	-5093	7394	0.00	0.00	0.00	
13,200	89.82	316.31	6194	5433	-5162	7494	0.00	0.00	0.00	
13,300	89.82	316.31	6194	5505	-5231	7594	0.00	0.00	0.00	
13,400	89.82	316.31	6195	5577	-5300	7694	0.00	0.00	0.00	
13,500	89.82	316.31	6195	5650	-5369	7794	0.00	0.00	0.00	
13,600	89.82	316.31	6195	5722	-5438	7894	0.00	0.00	0.00	
13,700	89.82	316.31	6196	5794	-5507	7994	0.00	0.00	0.00	
13,800	89.82	316.31	6196	5867	-5576	8094	0.00	0.00	0.00	
13,900	89.82	316.31	6196	5939	-5645	8194	0.00	0.00	0.00	
14,000	89.82	316.31	6197	6011	-5714	8294	0.00	0.00	0.00	
14,100	89.82	316.31	6197	6084	-5783	8394	0.00	0.00	0.00	
14,200	89.82	316.31	6197	6156	-5852	8494	0.00	0.00	0.00	
14,300	89.82	316.31	6198	6228	-5921	8594	0.00	0.00	0.00	
14,400	89.82	316.31	6198	6300	-5991	8694	0.00	0.00	0.00	
14,500	89.82	316.31	6198	6373	-6060	8794	0.00	0.00	0.00	
14,600	89.82	316.31	6199	6445	-6129	8894	0.00	0.00	0.00	
14,700	89.82	316.31	6199	6517	-6198	8994	0.00	0.00	0.00	
14,726	89.82	316.31	6199	6536	-6215	9019	0.00	0.00	0.00	



Database:	Grand Junction	Local Co-ordinate Reference	Well # 3H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Project:	Escrito Area	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site:	C17 2407 Pad	North Reference:	True
Well:	# 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
C17 #003H heel	0.00	0.00	6173	616	-560	1,935,745.14	2,790,790.26	36.31968260	-107.60352660
- plan hits target center									
- Circle (radius 50)									
C17 #003H toe rev 1	0.00	0.00	6199	6536	-6215	1,941,651.31	2,785,120.22	36.33594245	-107.62273010
- plan hits target center									
- Circle (radius 100)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
350	350	Surface	9.62	12.25	
6485	6171	Intermediate	7.00	8.75	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1916	1915	Ojo Alamo		0.00	0.00	
2070	2069	Kirtland		0.00	0.00	
2327	2326	Fruitland		0.00	0.00	
2621	2619	Pictured Cliffs		0.00	0.00	
3420	3418	Lewis		0.00	0.00	
4140	4137	Chacra		0.00	0.00	
4158	4155	Menefee		0.00	0.00	
4901	4898	Point Lookout		0.00	0.00	
5137	5133	Mancos		0.00	0.00	
5565	5561	Mancos Silt		0.00	0.00	
6000	5957	Gallup A		0.00	0.00	
6094	6023	Gallup B		0.00	0.00	
6299	6128	Gallup C		0.00	0.00	



DJR Operating

**Escrito Area
C17 2407 Pad
3H**

**Original Drilling
APD Rev 1**

Anticollision Report

29 January, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Reference	APD Rev 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method	MD Interval 100ft	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 1/29/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	14,726	APD Rev 1 (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measure	Offset Measure	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation	Warning
Offset Well - Wellbore - Design						
C17 2407 Pad						
# 1H - Original Drilling - APD Rev 1	400	400	20	17	8.115 CC, ES	
# 1H - Original Drilling - APD Rev 1	14,726	15,122	710	251	1.548 SF	
# 2H - Original Drilling - APD	400	400	20	18	8.202 CC	
# 2H - Original Drilling - APD	600	600	21	17	5.375 ES	
# 2H - Original Drilling - APD	6090	6126	170	125	3.773 SF	
# 4H - Original Drilling - APD	400	400	40	38	16.317 CC	
# 4H - Original Drilling - APD	500	499	41	37	12.817 ES	
# 4H - Original Drilling - APD	800	796	54	49	10.129 SF	
# 5H - Original Drilling - APD Rev 1	400	400	60	58	24.432 CC	
# 5H - Original Drilling - APD Rev 1	500	499	61	57	19.127 ES	
# 5H - Original Drilling - APD Rev 1	14,726	14,263	693	253	1.573 SF	

Offset Design	C17 2407 Pad - # 1H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program:	0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
0	0	0	0	0	0	-125.71	-12	-16	20					
100	100	100	100	0	0	-125.71	-12	-16	20	20	0.31	64.731		
200	200	200	200	1	1	-125.71	-12	-16	20	19	1.03	19.465		
300	300	300	300	1	1	-125.71	-12	-16	20	18	1.74	11.455		
400	400	400	400	1	1	-125.71	-12	-16	20	17	2.46	8.115 CC, ES		
500	500	500	500	2	2	-91.93	-13	-16	21	18	3.16	6.549		
600	600	599	599	2	2	-106.40	-17	-17	25	21	3.85	6.509		
700	700	697	697	2	2	-117.84	-24	-19	34	29	4.54	7.484		
800	800	795	794	3	3	-124.74	-35	-21	47	42	5.23	8.980		
900	900	894	892	3	3	-128.68	-47	-24	61	55	5.94	10.332		
1000	1000	993	991	3	3	-131.12	-58	-26	76	69	6.64	11.418		
1100	1100	1092	1089	4	4	-132.78	-70	-29	90	83	7.35	12.304		
1200	1199	1191	1187	4	4	-133.97	-81	-31	105	97	8.07	13.035		
1300	1299	1290	1285	4	4	-134.88	-93	-34	120	111	8.78	13.649		
1400	1399	1389	1383	5	5	-135.58	-105	-36	135	125	9.49	14.171		
1500	1499	1487	1481	5	5	-136.15	-116	-39	149	139	10.21	14.620		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design		C17 2407 Pad - # 1H - Original Drilling - APD Rev 1												Offset Site Error:		0 ft		
Survey Program:		0-MWD+HDGM						Rule Assigned:								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)								
1600	1599	1586	1580	6	6	-136.61	-128	-41	164	153	10.93	15.010						
1700	1699	1685	1678	6	6	-137.00	-140	-44	179	167	11.65	15.351						
1800	1799	1784	1776	6	6	-137.33	-151	-46	194	181	12.36	15.653						
1900	1899	1883	1874	7	7	-137.61	-163	-48	208	195	13.08	15.922						
2000	1999	1982	1972	7	7	-137.86	-174	-51	223	209	13.80	16.162						
2100	2099	2081	2071	7	8	-138.07	-186	-53	238	223	14.52	16.378						
2200	2199	2180	2169	8	8	-138.26	-198	-56	253	237	15.24	16.574						
2300	2299	2279	2267	8	8	-138.43	-209	-58	267	251	15.96	16.751						
2400	2399	2378	2365	8	9	-138.58	-221	-61	282	265	16.68	16.914						
2500	2498	2476	2463	9	9	-138.71	-233	-63	297	280	17.40	17.063						
2600	2598	2575	2561	9	10	-138.84	-244	-66	312	294	18.12	17.199						
2700	2698	2674	2660	10	10	-138.95	-256	-68	327	308	18.85	17.326						
2800	2798	2773	2758	10	10	-139.05	-267	-71	341	322	19.57	17.443						
2900	2898	2872	2856	10	11	-139.14	-279	-73	356	336	20.29	17.551						
3000	2998	2971	2954	11	11	-139.23	-291	-76	371	350	21.01	17.652						
3100	3098	3070	3052	11	12	-139.31	-302	-78	386	364	21.73	17.746						
3200	3198	3169	3151	11	12	-139.38	-314	-81	400	378	22.45	17.835						
3300	3298	3268	3249	12	12	-139.45	-326	-83	415	392	23.18	17.917						
3400	3398	3367	3347	12	13	-139.51	-337	-86	430	406	23.90	17.995						
3500	3498	3465	3445	12	13	-139.57	-349	-88	445	420	24.62	18.068						
3600	3598	3564	3543	13	13	-139.63	-360	-91	460	434	25.34	18.136						
3700	3698	3663	3641	13	14	-139.68	-372	-93	474	448	26.07	18.201						
3800	3797	3762	3740	13	14	-139.73	-384	-96	489	462	26.79	18.263						
3900	3897	3861	3838	14	15	-139.78	-395	-98	504	476	27.51	18.321						
4000	3997	3960	3936	14	15	-139.82	-407	-101	519	491	28.23	18.376						
4100	4097	4059	4034	15	15	-139.86	-418	-103	534	505	28.95	18.428						
4200	4197	4158	4132	15	16	-139.90	-430	-106	548	519	29.68	18.478						
4300	4297	4257	4231	15	16	-139.94	-442	-108	563	533	30.40	18.525						
4400	4397	4356	4329	16	17	-139.97	-453	-111	578	547	31.12	18.571						
4500	4497	4454	4427	16	17	-140.00	-465	-113	593	561	31.85	18.614						
4600	4597	4553	4525	16	17	-140.04	-477	-116	608	575	32.57	18.655						
4700	4697	4652	4623	17	18	-140.07	-488	-118	622	589	33.29	18.694						
4800	4797	4751	4721	17	18	-140.10	-500	-121	637	603	34.01	18.732						
4900	4897	4850	4820	17	19	-140.12	-511	-123	652	617	34.74	18.768						
5000	4997	4949	4918	18	19	-140.15	-523	-125	667	631	35.46	18.802						
5100	5096	5048	5016	18	19	-140.17	-535	-128	682	645	36.18	18.836						
5200	5196	5147	5114	19	20	-140.20	-546	-130	696	659	36.91	18.867						
5300	5296	5246	5212	19	20	-140.22	-558	-133	711	673	37.63	18.898						
5400	5396	5345	5311	19	21	-140.24	-570	-135	726	688	38.35	18.928						
5500	5496	5433	5399	20	22	-137.61	-569	-176	732	693	39.27	18.636						
5600	5596	5595	5886	20	22	-121.00	-445	-339	703	665	37.62	18.676						
5700	5694	6177	5979	20	23	-111.10	-340	-454	666	627	38.73	17.182						
5800	5789	6299	6015	21	24	-104.75	-260	-538	633	592	41.38	15.305						
5900	5877	6394	6027	21	25	-99.50	-193	-605	610	565	44.35	13.746						
6000	5957	6464	6028	22	26	-95.29	-143	-654	596	549	46.91	12.712						
6086	6018	6526	6029	22	27	-91.39	-99	-697	593	544	48.77	12.160						
6100	6027	6537	6029	22	27	-90.72	-91	-705	593	544	49.05	12.093						
6200	6084	6619	6029	23	28	-85.87	-33	-762	597	546	51.07	11.688						
6300	6128	6709	6030	24	30	-81.55	31	-825	604	551	53.22	11.345						
6400	6158	6804	6031	25	31	-78.42	100	-892	610	555	55.69	10.960						
6500	6172	6903	6031	26	33	-76.85	171	-961	615	556	58.60	10.486						

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design		C17 2407 Pad - # 1H - Original Drilling - APD Rev 1											Offset Site Error:		0 ft	
Survey Program:		0-MWD+HDGM						Rule Assigned:						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)						
6600	6173	7003	6032	28	35	-76.75	242	-1031	616	554	61.94	9.944				
6700	6174	7103	6033	30	37	-76.81	313	-1101	617	552	65.51	9.419				
6800	6174	7203	6033	31	39	-76.87	385	-1171	618	549	69.27	8.924				
6900	6174	7303	6034	33	42	-76.93	456	-1241	619	546	73.19	8.462				
7000	6174	7403	6035	35	44	-76.99	528	-1311	620	543	77.24	8.033				
7100	6175	7503	6035	37	46	-77.05	599	-1381	622	540	81.41	7.636				
7200	6175	7603	6036	39	48	-77.11	670	-1451	623	537	85.67	7.269				
7300	6175	7703	6037	41	51	-77.17	742	-1521	624	534	90.02	6.931				
7400	6176	7803	6038	43	53	-77.22	813	-1591	625	531	94.44	6.619				
7500	6176	7903	6038	46	55	-77.28	885	-1661	626	527	98.92	6.330				
7600	6176	8003	6039	48	58	-77.34	956	-1731	627	524	103.46	6.064				
7700	6177	8103	6040	50	60	-77.40	1028	-1801	628	520	108.04	5.817				
7800	6177	8203	6040	52	62	-77.46	1099	-1871	630	517	112.67	5.588				
7900	6177	8303	6041	55	65	-77.52	1170	-1941	631	513	117.33	5.376				
8000	6178	8403	6042	57	67	-77.57	1242	-2011	632	510	122.03	5.178				
8100	6178	8503	6042	60	70	-77.63	1313	-2081	633	506	126.75	4.994				
8200	6178	8603	6043	62	72	-77.69	1385	-2151	634	503	131.51	4.823				
8300	6179	8703	6044	64	75	-77.74	1456	-2221	635	499	136.28	4.662				
8400	6179	8803	6044	67	77	-77.80	1528	-2291	636	495	141.08	4.512				
8500	6179	8903	6045	69	80	-77.86	1599	-2361	638	492	145.90	4.371				
8600	6180	9003	6046	72	82	-77.91	1670	-2431	639	488	150.73	4.238				
8700	6180	9103	6046	74	85	-77.97	1742	-2501	640	484	155.58	4.113				
8800	6180	9203	6047	76	87	-78.03	1813	-2571	641	481	160.45	3.996				
8900	6181	9303	6048	79	90	-78.08	1885	-2641	642	477	165.33	3.885				
9000	6181	9403	6049	81	92	-78.14	1956	-2711	643	473	170.22	3.780				
9100	6181	9503	6049	84	95	-78.19	2028	-2781	645	469	175.12	3.681				
9200	6181	9603	6050	86	97	-78.25	2099	-2851	646	466	180.04	3.586				
9300	6182	9703	6051	89	100	-78.30	2170	-2921	647	462	184.96	3.497				
9400	6182	9803	6051	91	102	-78.36	2242	-2990	648	458	189.90	3.412				
9500	6182	9903	6052	94	105	-78.41	2313	-3060	649	454	194.84	3.332				
9600	6183	10,003	6053	96	107	-78.47	2385	-3130	650	451	199.79	3.255				
9700	6183	10,103	6053	99	110	-78.52	2456	-3200	651	447	204.75	3.182				
9800	6183	10,203	6054	101	112	-78.57	2527	-3270	653	443	209.71	3.112				
9900	6184	10,303	6055	104	115	-78.63	2599	-3340	654	439	214.69	3.045				
10,000	6184	10,403	6055	106	117	-78.68	2670	-3410	655	435	219.66	2.982				
10,100	6184	10,503	6056	109	120	-78.74	2742	-3480	656	431	224.65	2.920				
10,200	6185	10,603	6057	111	122	-78.79	2813	-3550	657	428	229.64	2.862				
10,300	6185	10,703	6058	114	125	-78.84	2885	-3620	658	424	234.64	2.806				
10,400	6185	10,803	6058	116	127	-78.89	2956	-3690	660	420	239.64	2.752				
10,500	6186	10,903	6059	119	130	-78.95	3027	-3760	661	416	244.64	2.701				
10,600	6186	11,003	6060	121	132	-79.00	3099	-3830	662	412	249.65	2.651				
10,700	6186	11,103	6060	124	135	-79.05	3170	-3900	663	408	254.67	2.604				
10,800	6187	11,203	6061	126	138	-79.10	3242	-3970	664	405	259.69	2.558				
10,900	6187	11,303	6062	129	140	-79.16	3313	-4040	665	401	264.71	2.514				
11,000	6187	11,403	6062	131	143	-79.21	3385	-4110	667	397	269.74	2.471				
11,100	6187	11,503	6063	134	145	-79.26	3456	-4180	668	393	274.77	2.430				
11,200	6188	11,603	6064	136	148	-79.31	3527	-4250	669	389	279.81	2.390				
11,300	6188	11,703	6064	139	150	-79.36	3599	-4320	670	385	284.85	2.352				
11,400	6188	11,803	6065	141	153	-79.41	3670	-4390	671	381	289.89	2.315				
11,500	6189	11,903	6066	144	155	-79.46	3742	-4460	672	377	294.93	2.280				
11,600	6189	12,003	6066	147	158	-79.51	3813	-4530	674	374	299.98	2.245				

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design		C17 2407 Pad - # 1H - Original Drilling - APD Rev 1											Offset Site Error:		0 ft	
Survey Program:		0-MWD+HDGM						Rule Assigned:						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)						
11,700	6189	12,103	6067	149	160	-79.56	3885	-4600	675	370	305.03	2.212				
11,800	6190	12,203	6068	152	163	-79.61	3956	-4670	676	366	310.09	2.180				
11,900	6190	12,303	6069	154	166	-79.66	4027	-4740	677	362	315.15	2.148				
12,000	6190	12,403	6069	157	168	-79.71	4099	-4810	678	358	320.21	2.118				
12,100	6191	12,503	6070	159	171	-79.76	4170	-4880	679	354	325.27	2.089				
12,200	6191	12,603	6071	162	173	-79.81	4242	-4950	681	350	330.33	2.060				
12,300	6191	12,703	6071	164	176	-79.86	4313	-5020	682	346	335.40	2.032				
12,400	6192	12,803	6072	167	178	-79.91	4384	-5090	683	342	340.47	2.006				
12,500	6192	12,903	6073	169	181	-79.96	4456	-5160	684	338	345.54	1.980				
12,600	6192	13,003	6073	172	183	-80.01	4527	-5230	685	335	350.61	1.954				
12,700	6193	13,103	6074	174	186	-80.06	4599	-5300	686	331	355.69	1.930				
12,800	6193	13,203	6075	177	189	-80.11	4670	-5370	688	327	360.77	1.906				
12,900	6193	13,303	6075	180	191	-80.16	4742	-5440	689	323	365.85	1.882				
13,000	6194	13,403	6076	182	194	-80.21	4813	-5510	690	319	370.93	1.860				
13,100	6194	13,503	6077	185	196	-80.25	4884	-5580	691	315	376.02	1.838				
13,200	6194	13,603	6078	187	199	-80.30	4956	-5650	692	311	381.10	1.816				
13,300	6194	13,703	6078	190	201	-80.35	5027	-5720	693	307	386.19	1.795				
13,400	6195	13,803	6079	192	204	-80.40	5099	-5789	695	303	391.28	1.775				
13,500	6195	13,903	6080	195	207	-80.44	5170	-5859	696	299	396.37	1.755				
13,600	6195	14,003	6080	197	209	-80.49	5242	-5929	697	295	401.46	1.736				
13,700	6196	14,103	6081	200	212	-80.54	5313	-5999	698	292	406.56	1.717				
13,800	6196	14,203	6082	202	214	-80.59	5384	-6069	699	288	411.65	1.699				
13,900	6196	14,303	6082	205	217	-80.63	5456	-6139	700	284	416.75	1.681				
14,000	6197	14,403	6083	208	219	-80.68	5527	-6209	702	280	421.85	1.663				
14,100	6197	14,503	6084	210	222	-80.73	5599	-6279	703	276	426.95	1.646				
14,200	6197	14,603	6084	213	225	-80.77	5670	-6349	704	272	432.06	1.629				
14,300	6198	14,703	6085	215	227	-80.82	5742	-6419	705	268	437.16	1.613				
14,400	6198	14,803	6086	218	230	-80.86	5813	-6489	706	264	442.26	1.597				
14,500	6198	14,903	6086	220	232	-80.91	5884	-6559	708	260	447.37	1.582				
14,600	6199	15,003	6087	223	235	-80.96	5956	-6629	709	256	452.48	1.566				
14,700	6199	15,103	6088	225	237	-81.00	6027	-6699	710	252	457.59	1.551				
14,726	6199	15,122	6088	226	238	-81.01	6041	-6713	710	251	458.72	1.548 SF				



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
0	0	0	0	0	0	53.45	12	16	20					
100	100	100	100	0	0	53.45	12	16	20	20	0.31	65.428		
200	200	200	200	1	1	53.45	12	16	20	19	1.03	19.674		
300	300	300	300	1	1	53.45	12	16	20	18	1.74	11.578		
400	400	400	400	1	1	53.45	12	16	20	18	2.46	8.202 CC		
500	500	500	500	2	2	91.74	13	16	20	17	3.17	6.398		
600	600	600	600	2	2	89.91	17	14	21	17	3.89	5.375 ES		
700	700	700	699	2	2	79.98	23	10	22	18	4.61	4.843		
800	800	799	798	3	3	64.65	33	4	26	21	5.33	4.887		
900	900	898	896	3	3	50.94	45	-3	33	27	6.05	5.407		
1000	1000	998	995	3	3	42.15	56	-10	41	34	6.77	6.000		
1100	1100	1097	1094	4	4	36.31	68	-17	49	42	7.49	6.564		
1200	1199	1197	1192	4	4	32.22	79	-23	58	50	8.21	7.072		
1300	1299	1297	1291	4	5	29.23	91	-30	67	58	8.93	7.520		
1400	1399	1396	1390	5	5	26.96	103	-37	76	67	9.65	7.916		
1500	1499	1496	1488	5	5	25.18	114	-44	86	75	10.37	8.264		
1600	1599	1595	1587	6	6	23.75	126	-51	95	84	11.10	8.573		
1700	1699	1695	1685	6	6	22.58	137	-57	105	93	11.82	8.848		
1800	1799	1794	1784	6	7	21.60	149	-64	114	102	12.55	9.093		
1900	1899	1894	1883	7	7	20.77	161	-71	124	110	13.27	9.314		
2000	1999	1993	1981	7	7	20.07	172	-78	133	119	14.00	9.513		
2100	2099	2093	2080	7	8	19.45	184	-85	143	128	14.72	9.694		
2200	2199	2192	2179	8	8	18.92	195	-91	152	137	15.45	9.858		
2300	2299	2292	2277	8	9	18.44	207	-98	162	146	16.18	10.008		
2400	2399	2391	2376	8	9	18.02	218	-105	171	155	16.90	10.146		
2500	2498	2491	2474	9	9	17.65	230	-112	181	163	17.63	10.273		
2600	2598	2590	2573	9	10	17.31	242	-119	191	172	18.36	10.390		
2700	2698	2690	2672	10	10	17.01	253	-126	200	181	19.08	10.498		
2800	2798	2790	2770	10	11	16.73	265	-132	210	190	19.81	10.599		
2900	2898	2889	2869	10	11	16.48	276	-139	220	199	20.54	10.692		
3000	2998	2989	2967	11	11	16.24	288	-146	229	208	21.26	10.780		
3100	3098	3088	3066	11	12	16.03	300	-153	239	217	21.99	10.862		
3200	3198	3188	3165	11	12	15.83	311	-160	248	226	22.72	10.938		
3300	3298	3287	3263	12	13	15.65	323	-166	258	235	23.44	11.010		
3400	3398	3387	3362	12	13	15.48	334	-173	268	244	24.17	11.078		
3500	3498	3486	3461	12	13	15.33	346	-180	277	253	24.90	11.142		
3600	3598	3586	3559	13	14	15.18	358	-187	287	261	25.63	11.202		
3700	3698	3685	3658	13	14	15.04	369	-194	297	270	26.35	11.259		
3800	3797	3785	3756	13	15	14.92	381	-200	306	279	27.08	11.313		
3900	3897	3884	3855	14	15	14.80	392	-207	316	288	27.81	11.364		
4000	3997	3984	3954	14	15	14.68	404	-214	326	297	28.54	11.413		
4100	4097	4083	4052	15	16	14.58	416	-221	335	306	29.26	11.459		
4200	4197	4183	4151	15	16	14.47	427	-228	345	315	29.99	11.503		
4300	4297	4282	4249	15	17	14.38	439	-235	355	324	30.72	11.545		
4400	4397	4382	4348	16	17	14.29	450	-241	364	333	31.45	11.585		
4500	4497	4482	4447	16	17	14.20	462	-248	374	342	32.17	11.623		
4600	4597	4581	4545	16	18	14.12	474	-255	384	351	32.90	11.659		
4700	4697	4681	4644	17	18	14.04	485	-262	393	360	33.63	11.694		
4800	4797	4780	4743	17	19	13.97	497	-269	403	369	34.36	11.728		
4900	4897	4880	4841	17	19	13.90	508	-275	413	378	35.09	11.760		
5000	4997	4979	4940	18	19	13.83	520	-282	422	386	35.81	11.791		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Vertical	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
5100	5096	5079	5038	18	20	13.77	531	-289	432	395	36.54	11.820	
5200	5196	5178	5137	19	20	13.71	543	-296	442	404	37.27	11.849	
5300	5296	5278	5236	19	21	13.65	555	-303	451	413	38.00	11.876	
5400	5396	5377	5334	19	21	13.59	566	-309	461	422	38.72	11.902	
5500	5496	5477	5433	20	21	13.54	578	-316	471	431	39.45	11.928	
5600	5596	5579	5536	20	22	13.48	590	-323	481	440	40.17	11.954	
5700	5694	5682	5641	20	23	13.42	602	-330	491	449	40.89	11.980	
5800	5789	5777	5736	21	23	13.36	614	-337	501	458	41.61	12.006	
5900	5877	5867	5826	21	23	13.30	626	-344	511	467	42.33	12.032	
6000	5957	5947	5906	22	23	13.24	638	-351	521	476	43.05	12.058	
6090	6021	6016	6017	22	23	13.18	650	-358	531	485	43.77	12.084	
6100	6027	6125	6016	22	23	87.83	439	-155	171	125	45.15	3.777	
6200	6084	6104	6002	23	23	78.22	449	-166	201	159	42.04	4.777	
6300	6128	6077	5983	24	23	63.63	463	-181	263	224	38.41	6.842	
6400	6158	6050	5964	25	23	49.78	476	-194	336	299	37.10	9.053	
6500	6172	6010	5933	26	23	37.13	494	-213	411	374	36.53	11.238	
6600	6173	5974	5904	28	23	31.71	509	-229	485	448	36.90	13.135	
6700	6174	5950	5885	30	23	29.82	518	-238	563	525	37.69	14.940	
6800	6174	5915	5855	31	22	27.31	531	-252	645	607	37.93	16.998	
6900	6174	5900	5842	33	22	26.29	536	-257	729	691	38.64	18.878	
7000	6174	5871	5816	35	22	24.49	545	-267	816	777	38.85	21.006	
7100	6175	5850	5797	37	22	23.31	551	-274	905	866	39.19	23.086	
7200	6175	5850	5797	39	22	23.31	551	-274	995	955	39.83	24.980	
7300	6175	5822	5771	41	22	21.83	558	-282	1086	1046	39.88	27.229	
7400	6176	5800	5751	43	22	20.79	563	-288	1178	1138	40.02	29.441	
7500	6176	5800	5751	46	22	20.79	563	-288	1271	1231	40.43	31.445	
7600	6176	5800	5751	48	22	20.79	563	-288	1365	1324	40.77	33.491	
7700	6177	5777	5729	50	22	19.75	568	-294	1459	1419	40.79	35.783	
7800	6177	5768	5721	52	22	19.38	570	-296	1554	1513	40.96	37.951	
7900	6177	5750	5703	55	22	18.65	573	-300	1650	1609	41.01	40.224	
8000	6178	5750	5703	57	22	18.65	573	-300	1745	1704	41.23	42.333	
8100	6178	5750	5703	60	22	18.65	573	-300	1842	1800	41.42	44.459	
8200	6178	5750	5703	62	22	18.65	573	-300	1938	1896	41.59	46.599	
8300	6179	5750	5703	64	22	18.65	573	-300	2035	1993	41.74	48.749	
8400	6179	5728	5682	67	22	17.81	577	-304	2132	2090	41.72	51.096	
8500	6179	5723	5677	69	22	17.63	577	-305	2229	2187	41.81	53.300	
8600	6180	5700	5655	72	22	16.84	580	-309	2326	2285	41.78	55.676	
8700	6180	5700	5655	74	22	16.84	580	-309	2424	2382	41.91	57.838	
8800	6180	5700	5655	76	22	16.84	580	-309	2521	2479	42.02	60.004	
8900	6181	5700	5655	79	22	16.84	580	-309	2619	2577	42.12	62.174	
9000	6181	5700	5655	81	22	16.84	580	-309	2717	2675	42.22	64.347	
9100	6181	5700	5655	84	22	16.84	580	-309	2815	2773	42.32	66.520	
9200	6181	5700	5655	86	22	16.84	580	-309	2913	2871	42.41	68.695	
9300	6182	5700	5655	89	22	16.84	580	-309	3012	2969	42.49	70.870	
9400	6182	5700	5655	91	22	16.84	580	-309	3110	3067	42.58	73.044	
9500	6182	5700	5655	94	22	16.84	580	-309	3209	3166	42.66	75.218	
9600	6183	5700	5655	96	22	16.84	580	-309	3307	3264	42.73	77.390	
9700	6183	5700	5655	99	22	16.84	580	-309	3406	3363	42.81	79.559	
9800	6183	5679	5634	101	22	16.15	582	-312	3504	3461	42.78	81.911	
9900	6184	5676	5632	104	22	16.08	583	-312	3603	3560	42.84	84.095	
10,000	6184	5674	5629	106	22	16.01	583	-312	3702	3659	42.91	86.275	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 2H - 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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100	6184	5672	5627	109	22	15.95	583	-313	3801	3758	42.97	88.451		
10,200	6185	5650	5605	111	22	15.29	585	-315	3900	3857	42.94	90.817		
10,300	6185	5650	5605	114	22	15.29	585	-315	3999	3956	43.01	92.966		
10,400	6185	5650	5605	116	22	15.29	585	-315	4098	4055	43.08	95.110		
10,500	6186	5650	5605	119	22	15.29	585	-315	4197	4154	43.15	97.251		
10,600	6186	5650	5605	121	22	15.29	585	-315	4296	4252	43.22	99.387		
10,700	6186	5650	5605	124	22	15.29	585	-315	4395	4351	43.29	101.519		
10,800	6187	5650	5605	126	22	15.29	585	-315	4494	4451	43.36	103.646		
10,900	6187	5650	5605	129	22	15.29	585	-315	4593	4550	43.43	105.768		
11,000	6187	5650	5605	131	22	15.29	585	-315	4692	4649	43.49	107.884		
11,100	6187	5650	5605	134	22	15.29	585	-315	4791	4748	43.56	109.996		
11,200	6188	5650	5605	136	22	15.29	585	-315	4891	4847	43.63	112.101		
11,300	6188	5650	5605	139	22	15.29	585	-315	4990	4946	43.70	114.201		
11,400	6188	5650	5605	141	22	15.29	585	-315	5089	5046	43.76	116.296		
11,500	6189	5650	5605	144	22	15.29	585	-315	5189	5145	43.83	118.384		
11,600	6189	5650	5605	147	22	15.29	585	-315	5288	5244	43.90	120.466		
11,700	6189	5650	5605	149	22	15.29	585	-315	5387	5343	43.96	122.542		
11,800	6190	5650	5605	152	22	15.29	585	-315	5487	5443	44.03	124.611		
11,900	6190	5650	5605	154	22	15.29	585	-315	5586	5542	44.10	126.674		
12,000	6190	5650	5605	157	22	15.29	585	-315	5686	5642	44.17	128.730		
12,100	6191	5650	5605	159	22	15.29	585	-315	5785	5741	44.24	130.780		
12,200	6191	5650	5605	162	22	15.29	585	-315	5885	5840	44.31	132.823		
12,300	6191	5650	5605	164	22	15.29	585	-315	5984	5940	44.37	134.859		
12,400	6192	5650	5605	167	22	15.29	585	-315	6084	6039	44.44	136.888		
12,500	6192	5650	5605	169	22	15.29	585	-315	6183	6139	44.51	138.909		
12,600	6192	5650	5605	172	22	15.29	585	-315	6283	6238	44.58	140.924		
12,700	6193	5650	5605	174	22	15.29	585	-315	6382	6338	44.65	142.931		
12,800	6193	5650	5605	177	22	15.29	585	-315	6482	6437	44.72	144.931		
12,900	6193	5650	5605	180	22	15.29	585	-315	6582	6537	44.80	146.924		
13,000	6194	5650	5605	182	22	15.29	585	-315	6681	6636	44.87	148.909		
13,100	6194	5650	5605	185	22	15.29	585	-315	6781	6736	44.94	150.887		
13,200	6194	5650	5605	187	22	15.29	585	-315	6880	6835	45.01	152.857		
13,300	6194	5650	5605	190	22	15.29	585	-315	6980	6935	45.09	154.819		
13,400	6195	5650	5605	192	22	15.29	585	-315	7080	7035	45.16	156.774		
13,500	6195	5650	5605	195	22	15.29	585	-315	7179	7134	45.23	158.721		
13,600	6195	5650	5605	197	22	15.29	585	-315	7279	7234	45.31	160.660		
13,700	6196	5650	5605	200	22	15.29	585	-315	7379	7333	45.38	162.591		
13,800	6196	5650	5605	202	22	15.29	585	-315	7478	7433	45.46	164.514		
13,900	6196	5650	5605	205	22	15.29	585	-315	7578	7533	45.53	166.430		
14,000	6197	5650	5605	208	22	15.29	585	-315	7678	7632	45.61	168.337		
14,100	6197	5650	5605	210	22	15.29	585	-315	7778	7732	45.69	170.237		
14,200	6197	5650	5605	213	22	15.29	585	-315	7877	7831	45.76	172.128		
14,300	6198	5650	5605	215	22	15.29	585	-315	7977	7931	45.84	174.011		
14,400	6198	5650	5605	218	22	15.29	585	-315	8077	8031	45.92	175.886		
14,500	6198	5650	5605	220	22	15.29	585	-315	8176	8130	46.00	177.753		
14,600	6199	5626	5582	223	22	14.64	586	-317	8276	8230	46.00	179.896		
14,700	6199	5626	5581	225	22	14.63	586	-317	8375	8329	46.08	181.754		
14,726	6199	5626	5581	226	22	14.62	586	-317	8401	8355	46.10	182.229		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning		
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
0	0	0	0	0	0	53.86	24	32	40						
100	100	100	100	0	0	53.86	24	32	40	40	0.31	130.155			
200	200	200	200	1	1	53.86	24	32	40	39	1.03	39.138			
300	300	300	300	1	1	53.86	24	32	40	38	1.74	23.032			
400	400	400	400	1	1	53.86	24	32	40	38	2.46	16.317 CC			
500	500	499	499	2	2	92.33	25	32	41	37	3.17	12.817 ES			
600	600	599	599	2	2	92.26	29	32	43	39	3.88	11.080			
700	700	698	697	2	2	88.93	37	31	47	43	4.60	10.283			
800	800	796	795	3	3	83.27	48	30	54	49	5.31	10.129 SF			
900	900	894	892	3	3	76.69	62	29	63	57	6.02	10.491			
1000	1000	991	988	3	3	70.31	79	28	76	69	6.73	11.280			
1100	1100	1087	1081	4	4	64.71	100	26	92	85	7.42	12.411			
1200	1199	1182	1173	4	4	60.07	123	24	112	104	8.10	13.811			
1300	1299	1278	1265	4	5	56.31	149	21	135	126	8.80	15.292			
1400	1399	1375	1359	5	5	53.58	175	19	158	148	9.52	16.580			
1500	1499	1472	1452	5	6	51.54	201	17	181	171	10.25	17.706			
1600	1599	1569	1545	6	6	49.98	228	15	205	194	10.98	18.692			
1700	1699	1666	1639	6	7	48.73	254	12	229	217	11.71	19.561			
1800	1799	1763	1732	6	7	47.73	281	10	253	240	12.44	20.331			
1900	1899	1860	1825	7	7	46.89	307	8	277	264	13.18	21.018			
2000	1999	1957	1919	7	8	46.19	334	5	301	287	13.91	21.633			
2100	2099	2054	2012	7	8	45.60	360	3	325	310	14.65	22.187			
2200	2199	2151	2105	8	9	45.08	386	1	349	334	15.39	22.688			
2300	2299	2248	2199	8	9	44.63	413	-2	373	357	16.13	23.143			
2400	2399	2345	2292	8	10	44.24	439	-4	397	381	16.87	23.558			
2500	2498	2442	2385	9	10	43.89	466	-6	422	404	17.61	23.939			
2600	2598	2539	2478	9	11	43.58	492	-9	446	427	18.35	24.288			
2700	2698	2636	2572	10	11	43.30	519	-11	470	451	19.09	24.610			
2800	2798	2733	2665	10	12	43.05	545	-13	494	474	19.84	24.909			
2900	2898	2830	2758	10	12	42.82	572	-16	518	498	20.58	25.185			
3000	2998	2927	2852	11	13	42.62	598	-18	543	521	21.32	25.442			
3100	3098	3024	2945	11	13	42.43	624	-20	567	545	22.07	25.682			
3200	3198	3121	3038	11	14	42.25	651	-22	591	568	22.81	25.905			
3300	3298	3218	3132	12	14	42.09	677	-25	615	592	23.56	26.115			
3400	3398	3315	3225	12	15	41.94	704	-27	639	615	24.30	26.312			
3500	3498	3412	3318	12	15	41.80	730	-29	664	639	25.05	26.496			
3600	3598	3509	3412	13	16	41.68	757	-32	688	662	25.79	26.670			
3700	3698	3606	3505	13	16	41.56	783	-34	712	686	26.54	26.834			
3800	3797	3703	3598	13	17	41.45	809	-36	736	709	27.28	26.989			
3900	3897	3800	3691	14	17	41.34	836	-39	761	733	28.03	27.136			
4000	3997	3897	3785	14	18	41.24	862	-41	785	756	28.78	27.275			
4100	4097	3994	3878	15	18	41.15	889	-43	809	780	29.52	27.407			
4200	4197	4091	3971	15	19	41.06	915	-46	833	803	30.27	27.532			
4300	4297	4188	4065	15	19	40.98	942	-48	858	827	31.02	27.651			
4400	4397	4285	4158	16	20	40.91	968	-50	882	850	31.76	27.765			
4500	4497	4382	4251	16	20	40.83	994	-53	906	874	32.51	27.873			
4600	4597	4479	4345	16	21	40.76	1021	-55	930	897	33.26	27.976			
4700	4697	4576	4438	17	21	40.70	1047	-57	955	921	34.00	28.075			
4800	4797	4673	4531	17	22	40.63	1074	-59	979	944	34.75	28.169			
4900	4897	4770	4625	17	22	40.58	1100	-62	1003	968	35.50	28.260			
5000	4997	4867	4718	18	23	40.52	1127	-64	1027	991	36.25	28.346			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Vertical	Offset	Semi	Major	Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Measured	Reference	Offset	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	Centres	Ellipses	(ft)		
5100	5096	4964	4811	18	23	40.46	1153	-66	1052	1015	36.99	28.429	
5200	5196	5061	4904	19	24	40.41	1179	-69	1076	1038	37.74	28.508	
5300	5296	5158	4998	19	24	40.36	1206	-71	1100	1062	38.49	28.585	
5400	5396	5255	5091	19	25	40.32	1232	-73	1124	1085	39.24	28.658	
5500	5496	6774	6057	20	30	85.63	822	571	1113	1071	41.95	26.539	
5600	5596	6769	6057	20	30	90.03	826	567	1066	1022	44.00	24.233	
5700	5694	6751	6057	20	30	94.21	839	554	1027	981	45.83	22.413	
5800	5789	6718	6057	21	29	95.51	863	531	997	950	47.28	21.090	
5900	5877	6670	6058	21	29	95.09	897	498	976	928	48.33	20.203	
6000	5957	6607	6058	22	28	93.33	942	454	964	915	48.97	19.686	
6100	6027	6503	6050	22	28	89.34	1014	381	957	908	49.10	19.492	
6200	6084	6415	6030	23	27	85.70	1073	318	954	904	49.45	19.287	
6243	6105	6380	6019	23	27	84.20	1096	294	953	904	49.67	19.197	
6300	6128	6336	6002	24	27	82.24	1123	263	954	904	49.96	19.094	
6400	6158	6264	5969	25	27	78.91	1164	214	957	906	50.63	18.902	
6500	6172	6195	5932	26	27	75.72	1200	170	962	911	51.46	18.700	
6600	6173	6132	5892	28	27	73.05	1230	131	970	917	52.43	18.496	
6700	6174	6078	5854	30	27	70.79	1252	99	983	929	53.46	18.381	
6800	6174	6032	5820	31	27	68.77	1269	74	1002	948	54.49	18.392	
6900	6174	6000	5794	33	27	67.27	1280	57	1028	973	55.54	18.518	
7000	6174	5961	5762	35	27	65.44	1291	38	1062	1005	56.32	18.848	
7100	6175	5933	5739	37	27	64.08	1298	25	1101	1044	57.07	19.300	
7200	6175	5900	5710	39	27	62.46	1306	11	1148	1090	57.55	19.940	
7300	6175	5900	5710	41	27	62.46	1306	11	1199	1141	58.37	20.550	
7400	6176	5870	5683	43	27	60.96	1312	-2	1256	1198	58.58	21.446	
7500	6176	5850	5665	46	27	60.00	1315	-9	1318	1259	58.82	22.404	
7600	6176	5850	5665	48	27	60.00	1315	-9	1384	1324	59.24	23.356	
7700	6177	5826	5643	50	27	58.81	1318	-18	1453	1393	59.22	24.530	
7800	6177	5800	5619	52	27	57.53	1321	-27	1525	1466	59.11	25.805	
7900	6177	5800	5619	55	27	57.53	1321	-27	1600	1541	59.31	26.982	
8000	6178	5800	5619	57	27	57.53	1321	-27	1678	1618	59.45	28.223	
8100	6178	5800	5619	60	27	57.53	1321	-27	1758	1698	59.55	29.518	
8200	6178	5778	5598	62	27	56.46	1323	-34	1839	1780	59.34	30.991	
8300	6179	5771	5591	64	27	56.11	1323	-36	1922	1863	59.30	32.415	
8400	6179	5750	5571	67	27	55.09	1324	-42	2007	1948	59.08	33.975	
8500	6179	5750	5571	69	27	55.09	1324	-42	2093	2034	59.10	35.416	
8600	6180	5750	5571	72	27	55.09	1324	-42	2180	2121	59.10	36.885	
8700	6180	5750	5571	74	27	55.09	1324	-42	2268	2209	59.10	38.380	
8800	6180	5750	5571	76	27	55.09	1324	-42	2357	2298	59.08	39.896	
8900	6181	5750	5571	79	27	55.09	1324	-42	2447	2388	59.06	41.432	
9000	6181	5750	5571	81	27	55.09	1324	-42	2538	2479	59.03	42.985	
9100	6181	5730	5552	84	27	54.13	1325	-48	2629	2570	58.80	44.702	
9200	6181	5726	5548	86	27	53.95	1325	-49	2720	2662	58.74	46.312	
9300	6182	5723	5545	89	27	53.78	1325	-50	2813	2754	58.68	47.933	
9400	6182	5700	5523	91	27	52.71	1325	-55	2906	2847	58.43	49.732	
9500	6182	5700	5523	94	27	52.71	1325	-55	2999	2941	58.41	51.344	
9600	6183	5700	5523	96	27	52.71	1325	-55	3093	3034	58.39	52.966	
9700	6183	5700	5523	99	27	52.71	1325	-55	3186	3128	58.37	54.595	
9800	6183	5700	5523	101	27	52.71	1325	-55	3281	3222	58.35	56.231	
9900	6184	5700	5523	104	27	52.71	1325	-55	3375	3317	58.33	57.873	
10,000	6184	5700	5523	106	27	52.71	1325	-55	3470	3412	58.31	59.520	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 4H - 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)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,100	6184	5700	5523	109	27	52.71	1325	-55	3566	3507	58.29	61.171	
10,200	6185	5700	5523	111	27	52.71	1325	-55	3661	3603	58.27	62.827	
10,300	6185	5700	5523	114	27	52.71	1325	-55	3757	3699	58.26	64.486	
10,400	6185	5700	5523	116	27	52.71	1325	-55	3853	3794	58.24	66.148	
10,500	6186	5700	5523	119	27	52.71	1325	-55	3949	3891	58.23	67.813	
10,600	6186	5700	5523	121	27	52.71	1325	-55	4045	3987	58.22	69.480	
10,700	6186	5700	5523	124	27	52.71	1325	-55	4142	4083	58.21	71.148	
10,800	6187	5700	5523	126	27	52.71	1325	-55	4238	4180	58.20	72.818	
10,900	6187	5700	5523	129	27	52.71	1325	-55	4335	4277	58.20	74.488	
11,000	6187	5700	5523	131	27	52.71	1325	-55	4432	4374	58.20	76.159	
11,100	6187	5700	5523	134	27	52.71	1325	-55	4529	4471	58.19	77.831	
11,200	6188	5700	5523	136	27	52.71	1325	-55	4626	4568	58.19	79.503	
11,300	6188	5700	5523	139	27	52.71	1325	-55	4724	4666	58.19	81.175	
11,400	6188	5700	5523	141	27	52.71	1325	-55	4821	4763	58.19	82.846	
11,500	6189	5678	5501	144	27	51.66	1324	-60	4918	4860	58.02	84.768	
11,600	6189	5676	5500	147	27	51.61	1324	-60	5016	4958	58.02	86.454	
11,700	6189	5675	5499	149	27	51.55	1324	-60	5114	5056	58.02	88.140	
11,800	6190	5674	5497	152	27	51.50	1324	-60	5211	5153	58.02	89.824	
11,900	6190	5673	5496	154	27	51.45	1324	-61	5309	5251	58.02	91.506	
12,000	6190	5650	5474	157	27	50.39	1323	-65	5407	5350	57.85	93.470	
12,100	6191	5650	5474	159	27	50.39	1323	-65	5505	5448	57.87	95.139	
12,200	6191	5650	5474	162	27	50.39	1323	-65	5603	5546	57.88	96.806	
12,300	6191	5650	5474	164	27	50.39	1323	-65	5702	5644	57.90	98.472	
12,400	6192	5650	5474	167	27	50.39	1323	-65	5800	5742	57.92	100.135	
12,500	6192	5650	5474	169	27	50.39	1323	-65	5898	5840	57.94	101.797	
12,600	6192	5650	5474	172	27	50.39	1323	-65	5996	5938	57.96	103.456	
12,700	6193	5650	5474	174	27	50.39	1323	-65	6095	6037	57.98	105.112	
12,800	6193	5650	5474	177	27	50.39	1323	-65	6193	6135	58.00	106.767	
12,900	6193	5650	5474	180	27	50.39	1323	-65	6291	6233	58.03	108.418	
13,000	6194	5650	5474	182	27	50.39	1323	-65	6390	6332	58.05	110.068	
13,100	6194	5650	5474	185	27	50.39	1323	-65	6488	6430	58.08	111.714	
13,200	6194	5650	5474	187	27	50.39	1323	-65	6587	6529	58.11	113.357	
13,300	6194	5650	5474	190	27	50.39	1323	-65	6686	6627	58.14	114.998	
13,400	6195	5650	5474	192	27	50.39	1323	-65	6784	6726	58.17	116.636	
13,500	6195	5650	5474	195	27	50.39	1323	-65	6883	6825	58.20	118.270	
13,600	6195	5650	5474	197	27	50.39	1323	-65	6982	6923	58.23	119.901	
13,700	6196	5650	5474	200	27	50.39	1323	-65	7080	7022	58.26	121.529	
13,800	6196	5650	5474	202	27	50.39	1323	-65	7179	7121	58.30	123.154	
13,900	6196	5650	5474	205	27	50.39	1323	-65	7278	7220	58.33	124.776	
14,000	6197	5650	5474	208	27	50.39	1323	-65	7377	7319	58.37	126.393	
14,100	6197	5650	5474	210	27	50.39	1323	-65	7476	7418	58.40	128.008	
14,200	6197	5650	5474	213	27	50.39	1323	-65	7575	7516	58.44	129.619	
14,300	6198	5650	5474	215	27	50.39	1323	-65	7674	7615	58.48	131.226	
14,400	6198	5650	5474	218	27	50.39	1323	-65	7773	7714	58.52	132.829	
14,500	6198	5650	5474	220	27	50.39	1323	-65	7872	7813	58.56	134.429	
14,600	6199	5650	5474	223	27	50.39	1323	-65	7971	7912	58.60	136.025	
14,700	6199	5650	5474	225	27	50.39	1323	-65	8070	8011	58.64	137.617	
14,726	6199	5650	5474	226	27	50.39	1323	-65	8095	8037	58.65	138.024	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1														Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning		
Measured Depth (ft)	Reference Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
0	0	0	0	0	0	54.00	35	49	60						
100	100	100	100	0	0	54.00	35	49	60	60	0.31	194.886			
200	200	200	200	1	1	54.00	35	49	60	59	1.03	58.602			
300	300	300	300	1	1	54.00	35	49	60	58	1.74	34.486			
400	400	400	400	1	1	54.00	35	49	60	58	2.46	24.432 CC			
500	500	499	499	2	2	92.43	36	49	61	57	3.17	19.127 ES			
600	600	598	598	2	2	92.50	41	48	63	59	3.88	16.288			
700	700	696	696	2	2	90.39	48	48	68	63	4.59	14.751			
800	800	795	794	3	3	86.50	59	48	75	69	5.31	14.046			
900	900	892	890	3	3	81.61	73	47	84	78	6.02	13.953			
1000	1000	990	987	3	3	76.68	90	47	96	89	6.74	14.225			
1100	1100	1089	1084	4	4	72.77	107	46	108	101	7.46	14.522			
1200	1199	1188	1182	4	4	69.69	124	46	121	113	8.19	14.814			
1300	1299	1287	1279	4	5	67.20	141	45	135	126	8.92	15.086			
1400	1399	1386	1377	5	5	65.16	158	45	148	138	9.65	15.338			
1500	1499	1485	1474	5	5	63.46	175	44	162	151	10.38	15.569			
1600	1599	1584	1572	6	6	62.02	193	43	175	164	11.11	15.779			
1700	1699	1683	1669	6	6	60.80	210	43	189	177	11.84	15.971			
1800	1799	1782	1767	6	7	59.74	227	42	203	190	12.57	16.145			
1900	1899	1881	1864	7	7	58.81	244	42	217	204	13.30	16.305			
2000	1999	1980	1962	7	7	58.00	261	41	231	217	14.03	16.451			
2100	2099	2079	2059	7	8	57.28	278	41	245	230	14.77	16.585			
2200	2199	2178	2157	8	8	56.64	295	40	259	243	15.50	16.709			
2300	2299	2277	2254	8	9	56.06	312	40	273	257	16.23	16.823			
2400	2399	2376	2352	8	9	55.54	329	39	287	270	16.96	16.928			
2500	2498	2475	2449	9	10	55.07	346	38	301	284	17.69	17.026			
2600	2598	2574	2547	9	10	54.64	363	38	315	297	18.43	17.117			
2700	2698	2673	2644	10	10	54.25	380	37	330	310	19.16	17.201			
2800	2798	2772	2742	10	11	53.89	397	37	344	324	19.89	17.280			
2900	2898	2871	2839	10	11	53.56	414	36	358	337	20.63	17.354			
3000	2998	2970	2937	11	12	53.26	431	36	372	351	21.36	17.423			
3100	3098	3069	3034	11	12	52.97	449	35	386	364	22.09	17.488			
3200	3198	3168	3132	11	12	52.71	466	34	401	378	22.83	17.549			
3300	3298	3267	3229	12	13	52.46	483	34	415	391	23.56	17.607			
3400	3398	3366	3327	12	13	52.24	500	33	429	405	24.29	17.661			
3500	3498	3465	3424	12	14	52.02	517	33	443	418	25.03	17.713			
3600	3598	3564	3522	13	14	51.82	534	32	458	432	25.76	17.761			
3700	3698	3663	3619	13	15	51.63	551	32	472	445	26.49	17.807			
3800	3797	3762	3717	13	15	51.45	568	31	486	459	27.23	17.851			
3900	3897	3861	3814	14	15	51.29	585	31	500	472	27.96	17.892			
4000	3997	3960	3911	14	16	51.13	602	30	515	486	28.69	17.932			
4100	4097	4058	4009	15	16	50.98	619	29	529	499	29.43	17.970			
4200	4197	4157	4106	15	17	50.84	636	29	543	513	30.16	18.005			
4300	4297	4256	4204	15	17	50.70	653	28	557	526	30.89	18.040			
4400	4397	4355	4301	16	18	50.57	670	28	572	540	31.63	18.072			
4500	4497	4454	4399	16	18	50.45	687	27	586	554	32.36	18.104			
4600	4597	4553	4496	16	18	50.34	705	27	600	567	33.10	18.134			
4700	4697	4652	4594	17	19	50.23	722	26	614	581	33.83	18.162			
4800	4797	4751	4691	17	19	50.12	739	25	629	594	34.56	18.190			
4900	4897	4850	4789	17	20	50.02	756	25	643	608	35.30	18.216			
5000	4997	4949	4886	18	20	49.92	773	24	657	621	36.03	18.242			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Vertical	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
5100	5096	5048	4984	18	20	49.83	790	24	672	635	36.77	18.266		
5200	5196	5147	5081	19	21	49.74	807	23	686	648	37.50	18.290		
5300	5296	5246	5179	19	21	49.66	824	23	700	662	38.24	18.312		
5400	5396	5345	5276	19	22	49.58	841	22	714	676	38.97	18.334		
5500	5496	5444	5374	20	22	49.50	858	22	729	689	39.70	18.355		
5600	5596	5543	5471	20	23	52.32	875	21	743	702	40.44	18.360		
5700	5694	5618	5545	20	23	53.62	889	20	750	709	41.01	18.290		
5800	5789	5678	5603	21	23	54.32	904	15	754	712	41.44	18.186		
5900	5877	5738	5659	21	24	55.33	922	7	754	712	41.88	17.995		
6000	5957	5800	5715	22	24	56.78	945	-6	750	708	42.41	17.689		
6100	6027	5860	5767	22	24	58.64	971	-22	744	701	43.07	17.265		
6200	6084	5922	5817	23	25	60.99	1001	-43	735	690	44.04	16.680		
6300	6128	5985	5865	24	25	63.80	1034	-67	724	678	45.40	15.936		
6400	6158	6050	5909	25	26	67.08	1072	-96	711	664	47.26	15.053		
6500	6172	6115	5948	26	26	70.71	1113	-128	699	649	49.59	14.094		
6600	6173	6185	5984	28	27	74.00	1159	-166	688	636	52.34	13.148		
6700	6174	6263	6017	30	28	76.70	1213	-212	682	627	55.33	12.325		
6800	6174	6350	6043	31	29	78.86	1275	-268	679	621	58.50	11.607		
6900	6174	6441	6057	33	30	80.08	1341	-328	678	616	61.80	10.972		
6935	6174	6474	6060	34	30	80.26	1365	-351	678	615	62.98	10.766		
7000	6174	6538	6060	35	31	80.30	1411	-395	678	613	65.24	10.395		
7100	6175	6638	6061	37	33	80.32	1484	-464	678	610	68.87	9.850		
7200	6175	6738	6061	39	35	80.34	1556	-532	679	606	72.67	9.337		
7300	6175	6838	6062	41	37	80.36	1629	-601	679	602	76.62	8.858		
7400	6176	6938	6062	43	38	80.38	1701	-670	679	598	80.70	8.413		
7500	6176	7038	6063	46	40	80.40	1773	-739	679	594	84.88	8.001		
7600	6176	7138	6063	48	42	80.42	1846	-808	679	590	89.16	7.619		
7700	6177	7238	6064	50	45	80.44	1918	-877	680	586	93.51	7.266		
7800	6177	7338	6064	52	47	80.46	1991	-946	680	582	97.94	6.940		
7900	6177	7438	6065	55	49	80.48	2063	-1015	680	577	102.42	6.638		
8000	6178	7538	6065	57	51	80.50	2136	-1084	680	573	106.96	6.358		
8100	6178	7638	6066	60	53	80.52	2208	-1153	680	569	111.54	6.099		
8200	6178	7738	6066	62	56	80.54	2281	-1222	680	564	116.17	5.857		
8300	6179	7838	6067	64	58	80.55	2353	-1291	681	560	120.83	5.633		
8400	6179	7938	6067	67	60	80.57	2426	-1359	681	555	125.52	5.424		
8500	6179	8038	6068	69	63	80.59	2498	-1428	681	551	130.24	5.229		
8600	6180	8138	6068	72	65	80.61	2570	-1497	681	546	134.99	5.046		
8700	6180	8238	6069	74	67	80.63	2643	-1566	681	542	139.76	4.876		
8800	6180	8338	6069	76	70	80.65	2715	-1635	682	537	144.55	4.715		
8900	6181	8438	6070	79	72	80.67	2788	-1704	682	532	149.36	4.565		
9000	6181	8538	6071	81	75	80.69	2860	-1773	682	528	154.19	4.423		
9100	6181	8638	6071	84	77	80.71	2933	-1842	682	523	159.03	4.290		
9200	6181	8738	6072	86	79	80.73	3005	-1911	682	518	163.89	4.164		
9300	6182	8838	6072	89	82	80.75	3078	-1980	683	514	168.76	4.045		
9400	6182	8938	6073	91	84	80.77	3150	-2049	683	509	173.64	3.932		
9500	6182	9038	6073	94	87	80.79	3223	-2118	683	504	178.53	3.825		
9600	6183	9138	6074	96	89	80.81	3295	-2186	683	500	183.43	3.724		
9700	6183	9238	6074	99	92	80.83	3368	-2255	683	495	188.35	3.628		
9800	6183	9338	6075	101	94	80.84	3440	-2324	683	490	193.27	3.537		
9900	6184	9438	6075	104	97	80.86	3512	-2393	684	485	198.20	3.450		
10,000	6184	9538	6076	106	99	80.88	3585	-2462	684	481	203.13	3.367		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Offset Design C17 2407 Pad - # 5H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100	6184	9638	6076	109	102	80.90	3657	-2531	684	476	208.08	3.288		
10,200	6185	9738	6077	111	104	80.92	3730	-2600	684	471	213.03	3.212		
10,300	6185	9838	6077	114	107	80.94	3802	-2669	684	466	217.98	3.140		
10,400	6185	9938	6078	116	109	80.96	3875	-2738	685	462	222.95	3.071		
10,500	6186	10,038	6078	119	112	80.98	3947	-2807	685	457	227.91	3.005		
10,600	6186	10,138	6079	121	114	81.00	4020	-2876	685	452	232.89	2.941		
10,700	6186	10,238	6079	124	117	81.02	4092	-2945	685	447	237.86	2.881		
10,800	6187	10,338	6080	126	119	81.04	4165	-3013	685	443	242.85	2.822		
10,900	6187	10,438	6080	129	122	81.06	4237	-3082	686	438	247.83	2.766		
11,000	6187	10,538	6081	131	124	81.08	4309	-3151	686	433	252.82	2.713		
11,100	6187	10,638	6081	134	127	81.09	4382	-3220	686	428	257.82	2.661		
11,200	6188	10,738	6082	136	129	81.11	4454	-3289	686	423	262.82	2.611		
11,300	6188	10,838	6082	139	132	81.13	4527	-3358	686	419	267.82	2.563		
11,400	6188	10,938	6083	141	134	81.15	4599	-3427	687	414	272.82	2.517		
11,500	6189	11,038	6083	144	137	81.17	4672	-3496	687	409	277.83	2.472		
11,600	6189	11,138	6084	147	139	81.19	4744	-3565	687	404	282.84	2.429		
11,700	6189	11,238	6084	149	142	81.21	4817	-3634	687	399	287.85	2.387		
11,800	6190	11,338	6085	152	144	81.23	4889	-3703	687	394	292.87	2.347		
11,900	6190	11,438	6085	154	147	81.25	4962	-3772	688	390	297.89	2.308		
12,000	6190	11,538	6086	157	149	81.27	5034	-3840	688	385	302.91	2.270		
12,100	6191	11,638	6086	159	152	81.29	5106	-3909	688	380	307.93	2.234		
12,200	6191	11,738	6087	162	154	81.30	5179	-3978	688	375	312.96	2.199		
12,300	6191	11,838	6087	164	157	81.32	5251	-4047	688	370	317.99	2.165		
12,400	6192	11,938	6088	167	159	81.34	5324	-4116	688	365	323.02	2.131		
12,500	6192	12,038	6088	169	162	81.36	5396	-4185	689	361	328.05	2.099		
12,600	6192	12,138	6089	172	164	81.38	5469	-4254	689	356	333.09	2.068		
12,700	6193	12,238	6090	174	167	81.40	5541	-4323	689	351	338.12	2.038		
12,800	6193	12,338	6090	177	169	81.42	5614	-4392	689	346	343.16	2.009		
12,900	6193	12,438	6091	180	172	81.44	5686	-4461	689	341	348.20	1.980		
13,000	6194	12,538	6091	182	175	81.46	5759	-4530	690	336	353.24	1.952		
13,100	6194	12,638	6092	185	177	81.47	5831	-4599	690	332	358.29	1.925		
13,200	6194	12,738	6092	187	180	81.49	5904	-4667	690	327	363.33	1.899		
13,300	6194	12,838	6093	190	182	81.51	5976	-4736	690	322	368.38	1.874		
13,400	6195	12,938	6093	192	185	81.53	6048	-4805	690	317	373.43	1.849		
13,500	6195	13,038	6094	195	187	81.55	6121	-4874	691	312	378.48	1.825		
13,600	6195	13,138	6094	197	190	81.57	6193	-4943	691	307	383.53	1.801		
13,700	6196	13,238	6095	200	192	81.59	6266	-5012	691	302	388.58	1.778		
13,800	6196	13,338	6095	202	195	81.61	6338	-5081	691	298	393.63	1.756		
13,900	6196	13,438	6096	205	197	81.63	6411	-5150	691	293	398.69	1.734		
14,000	6197	13,538	6096	208	200	81.64	6483	-5219	692	288	403.75	1.713		
14,100	6197	13,638	6097	210	202	81.66	6556	-5288	692	283	408.80	1.692		
14,200	6197	13,738	6097	213	205	81.68	6628	-5357	692	278	413.86	1.672		
14,300	6198	13,838	6098	215	208	81.70	6701	-5426	692	273	418.92	1.652		
14,400	6198	13,938	6098	218	210	81.72	6773	-5494	692	268	423.98	1.633		
14,500	6198	14,038	6099	220	213	81.74	6845	-5563	693	264	429.04	1.614		
14,600	6199	14,138	6099	223	215	81.76	6918	-5632	693	259	434.11	1.596		
14,700	6199	14,238	6100	225	218	81.78	6990	-5701	693	254	439.17	1.578		
14,726	6199	14,263	6100	226	218	81.78	7009	-5719	693	253	440.47	1.573 SF		

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Lonestar Consulting, LLC

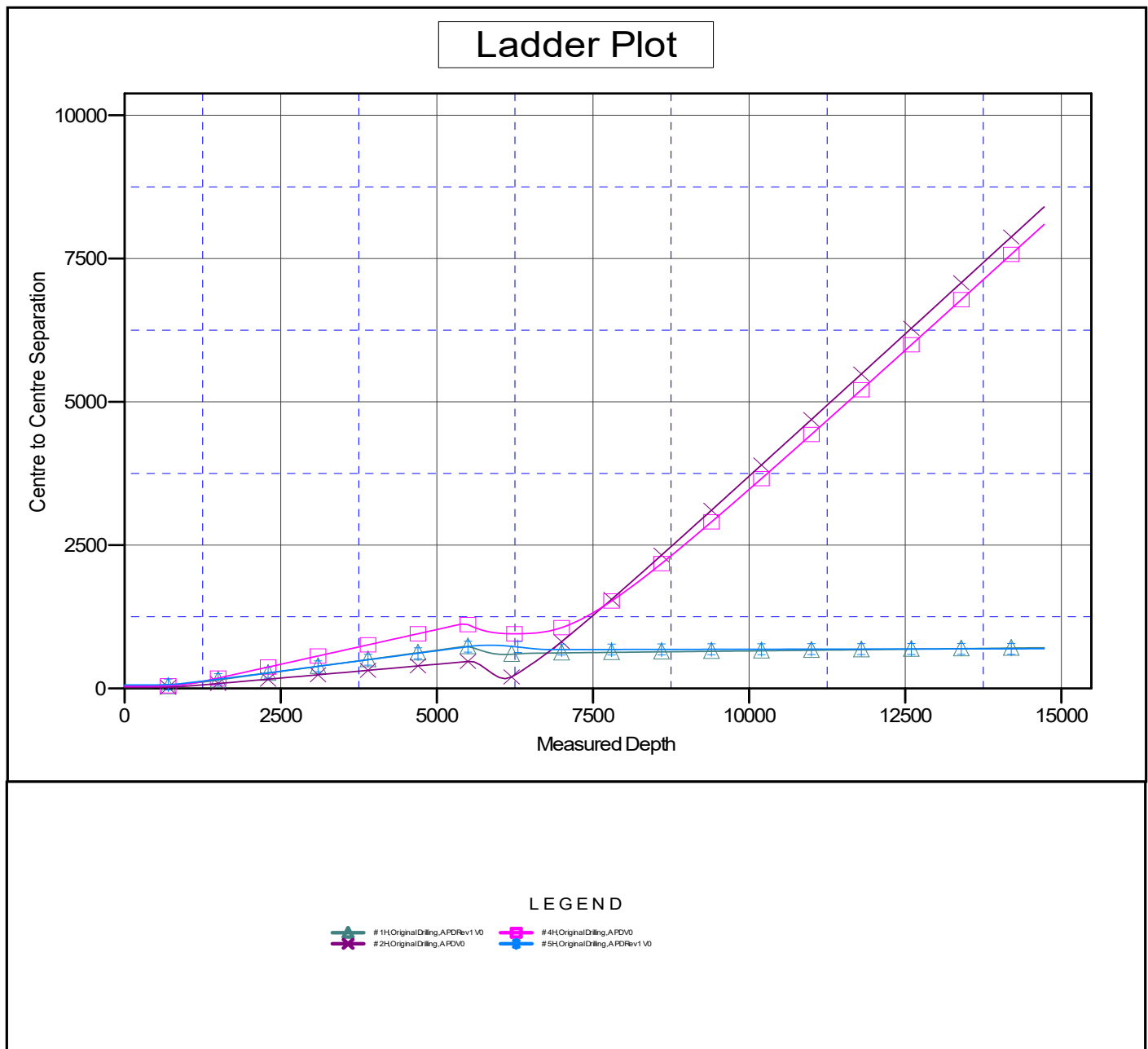
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
Project:	Escrito Area	TVD Reference:	GL 7284' & RKB 14' @ 7298ft
Reference Site:	C17 2407 Pad	MD Reference:	GL 7284' & RKB 14' @ 7298ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 3H	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 Rev 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GL 7284' & RKB 14' @ 7298ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 3H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.14°



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



Lonestar Consulting, LLC

Anticollision Report

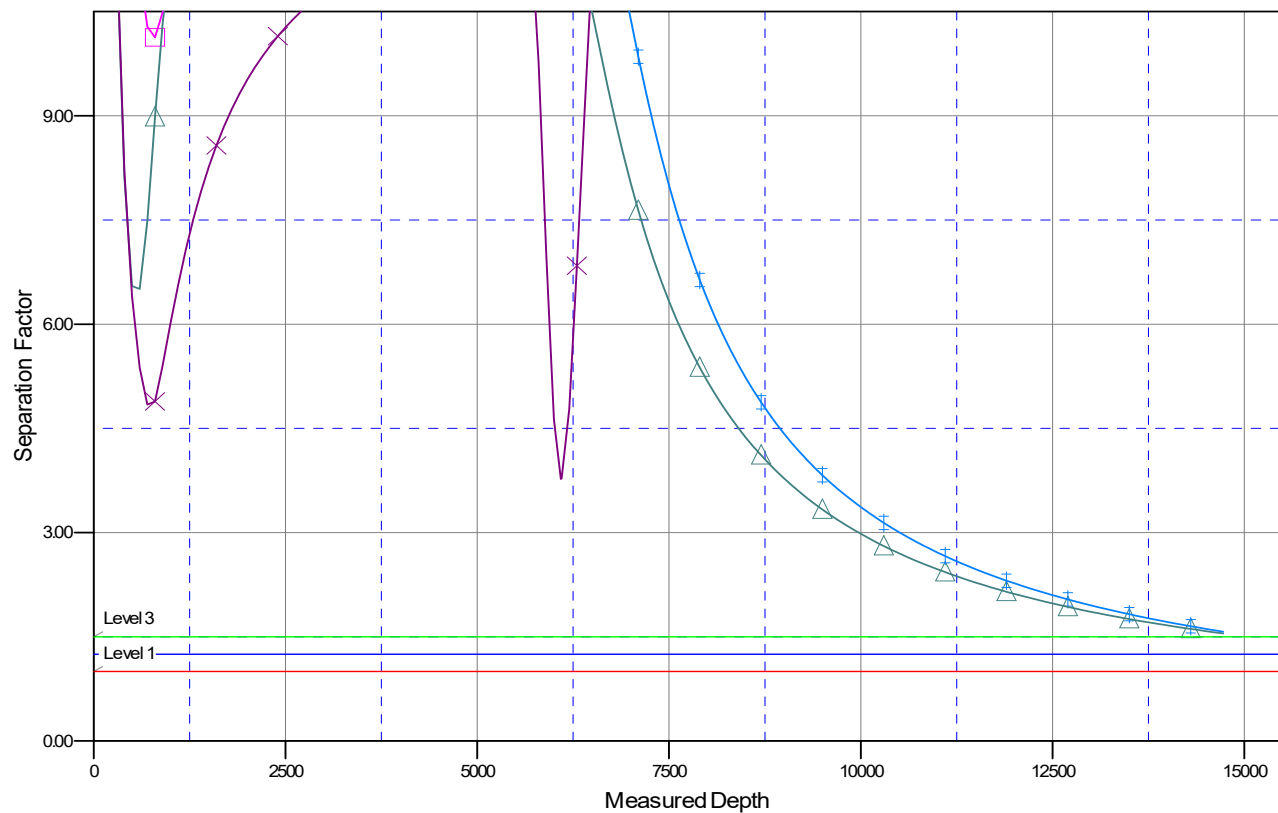


Company:	DJR Operating	Local Co-ordinate Reference	Well # 3H - Slot 4
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Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GL 7284' & RKB 14' @ 7298ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.83333333

Coordinates are relative to: # 3H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.14°

Separation Factor Plot



LEGEND

#1H Original Drilling APD Rev 1 V0 #4H Original Drilling APD V0
 #2H Original Drilling APD V0 #5H Original Drilling APD Rev 1 V0

Conditions of Approval

Operator: DJR Operating, LLC
Well Names: Escrito A12 2408 01H, 02H, 03H, 04H and 05H
Escrito C17 2407 01H, 03H, 05H and Escrito Gallup Unit 02H, 04H
Legal Location: Sec 12, T24N, R08W, San Juan County, NM and Sec 17, T24N R07W, Rio Arriba County, NM
NEPA Log Number: DOI-BLM-NM-F010-2022-0061-EA
Inspection Date: April 20, 2021
Lease Numbers: NMNM-03595 and NMNM-0557389

The following conditions of approval will apply to DJR Operating's Escrito A12-2408 and C17-2407 Cluster Oil and Natural Gas Wells Project, and other associated facilities, unless a particular Surface Managing Agency or private surface owner has supplied to Bureau of Land Management and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in an assessment or civil penalties pursuant to 43 CFR 3163.1 or 3163.2.

Disclaimers: BLM's approval of the APD does not relieve the lessee and operator from obtaining any other authorizations that may be required by the BIA, Navajo Tribe, State, or other jurisdictional entities.

Copy of Plans: A complete copy of the APD package, including Surface Use Plan of Operations, Bare Soil Reclamation Plan, Plan of Development (if required), Conditions of Approval, Cultural Resource Record of Review, Cultural Resources Compliance Form (if required), and Project Stipulations (if required) shall be at the project area at all times and available to all persons.

Review of NEPA documents: It is the responsibility of the operator to follow all the design features, best management practices, and mitigation measures as contained in the Environmental Assessment DOI-BLM-NM-F010-2022-0061-EA, which contains additional design features and best management practices that must be followed. Copies of the EA, Decision Record, and Finding of No Significant Impact may be obtained from the BLM FFO public room, or online at: [EplanningUi \(blm.gov\)](https://eplanningui.blm.gov).

Best Management Practices (BMPs): Farmington Field Office established environmental Best Management Practices (BMP's) will be followed during construction and reclamation of well site pads, access roads, pipeline ties, facility placement or any other surface disturbing activity associated with this project. Bureau wide standard BMP's are found in the Gold Book, Fourth Edition-Revised 2007 and at

http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/best_management_practices.html.

Farmington Field Office BMPs are integrated into the Environmental Assessment, Surface Use Plan of Operations, Bare Soil Reclamation Plan, and COAs.

Construction, Production, Facilities, Reclamation & Maintenance

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

Production Facilities: design and layout of facilities will be deferred until an onsite with BLM-FFO surface protection staff is conducted to determine the best location. The Operator or their contractor will contact the Bureau of Land Management, Farmington Field Office, Surface and Environmental Protection Staff (505) 564-7600 to schedule a facility layout onsite.

Staking: The holder shall place slope stakes, culvert location and grade stakes, and other construction control stakes as deemed necessary by the authorized officer to ensure construction in accordance with the plan of development. If stakes are disturbed, they shall be replaced before proceeding with construction.

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

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

Painting of Equipment: Within 90 days of installation, all above ground structures not subject to safety requirements shall be painted by the Holder to blend with the natural color of the landscape. A reflective material may be used to reduce hazards that may occur when such structures are near roads. Otherwise, the paint use shall be a non-glare, non-reflective, non-chalking color of: Federal 595a-34127 (Juniper Green).

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

Compressors: Compressor units on this well location not equipped with a drip pan for containment of fluids shall be lined with an impervious material at least 8 mils thick and a 12-inch berm. The compressor will be painted to match the well facilities. Any variance to this will be approved by the Authorized Officer (AO). Noise mitigation may be required at the time of compressor installation.

Culverts: Silt Traps/Bell Holes will be built upstream of all culvert locations.

Driving Surface Area: All activities associated within the construction, operation, maintenance, and abandonment of the well location is limited to areas approved in the APD or ROW permit. During the production of the well, vehicular traffic is limited to the daily driving surface area established during interim reclamation construction operations. This area typically forms a keyhole or teardrop driving surface from which all production facilities may be serviced or inspected. A v-type ditch will be constructed on the outside of the driving surface to further define the driving surface and to deter vehicular traffic from entering onto the interim reclamation areas.

Contouring of Cut and Fill Slopes: The interim cut and fill slope grade shall be as close to the original contour as possible. To obtain this ratio, pits and slopes shall be back sloped into the pad

during interim reclamation. Only subsurface soil and material shall be utilized in the contouring of the cut and fill slopes. Under no circumstances shall topsoil be utilized as substrate material for contouring of cut and fill slopes.

Maintenance: In order to perform subsequent well operations, right-of-way (ROW) operations, or install new/additional equipment, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is promptly repaired and reclaimed following use. Where vehicular travel has occurred as a “convenience” and interim reclamation/vegetation has been compromised, immediate remediation of the affected areas is required. Additionally, where erosion has occurred and compromised the reclamation of the well location, the affected area must be promptly remediated so that future erosion is prevented, and the landform is stabilized.

Layflat Lines: Layflat lines used for development of the wells may be on the ground for a maximum of 6 months and shall be retrieved immediately following completion operations. If the layflat lines are needed for longer than 6 months a Sundry NOI shall be submitted to the BLM FFO for review and decision that includes a rationale for the time extension.

The holder or its contractors will notify the BLM of any fires and comply with all rules and regulations administered by the BLM concerning the use, prevention and suppression of fires on federal lands, including any fire prevention orders that may be in effect at the time of the permitted activity. The holder or its contractors may be held liable for the cost of fire suppression, stabilization and rehabilitation. In the event of a fire, personal safety will be the first priority of the holder or its contractors.

“Hotwork” and Construction Affecting Fire Safety: The holder or its contractors shall:

1. Operate all internal and external combustion engines (including off-highway vehicles, chainsaws, generators, heavy equipment, etc.) with a qualified spark arrester. Qualified spark arresters are maintained and not modified, and meet the Society of Automotive Engineers (SAE) Recommended Practices J335 or J350. Refer to 43 CFR §8343.1.
 - a. *Refueling of any combustible engine equipment must be minimum of 3 meters away from any ignition source (open flame, smoking, etc.).*
2. Maintain and clean all equipment regularly to remove flammable debris buildup and prevent fluid leaks that can lead to ignitions.
3. Carry at least one shovel or wildland fire hand tool (combi, Pulaski, McLeod) per person working, minimum 5 gallons of water, and a fire extinguisher rated at a minimum as ABC - 10 pound on each piece of equipment and each vehicle.
4. When conducting “hotwork” such as, but not limited to welding, grinding, cutting, spark-producing work with metal, work that creates hot material or slag; choose an area large enough to contain all hot material that is naturally free of all flammable vegetation or remove the flammable vegetation in a manner compliant with the permitted activity. If adequate clearance cannot be made, wet an area large enough to contain all hot material prior to the activity and periodically throughout the activity to reduce the risk of wildfire ignition. Regardless of clearance, maintain readiness to respond to an ignition at all times. In addition, keep one hand tool per person and at least one fire extinguisher ready, minimum, as specified earlier (#3) during this activity.
5. Keep apprised of current and forecasted weather at <https://www.weather.gov/abq/forecasts-fireweather-links> and fire conditions at www.wfas.net and take additional fire precautions when fire danger is rated High or greater. Red Flag Warnings are issued by the National Weather Service when fire conditions are most dangerous, and ignitions escape control

quickly. Extra precautions are required during these warnings such as additional water, designate a fire watch/patrol and tools. If work is being conducted in an area that is not clear of vegetation within 50 feet of work area; then, when fire danger is rated High or greater and 1. There is a predicted Red Flag warning for your area or 2. If winds are predicted to be greater than 10 mph, stop all hotwork activities for the day at 10 am.

6. In the event of an ignition, initiate fire suppression actions in the work area to prevent fire spread to or on federally administered lands. If a fire spreads beyond the capability of workers with the stipulated tools, all will cease fire suppression action and leave the area immediately via pre-identified escape routes.
7. Call **911** or the **Taos Interagency Fire Dispatch Center (575-758-6208)** immediately of the location and status of any fire.

AND

Notify the respective BLM field office for which the permit or contract was issued immediately of the incident.

Farmington Field Office at 505-564-7600

Taos Field Office at 575-758-8851

Noxious Weeds

Inventory the proposed site for the presence of noxious and invasive weeds. Noxious weeds are those listed on the New Mexico Noxious Weed List and USDA's Federal Noxious Weed List. The New Mexico Noxious Weed List or USDA's Noxious Weed List can be updated at any time and should be regularly check for any changes. Invasive species may or may not be listed as a noxious weed but have been identified to likely cause economic or environmental harm or harm to human health. The following noxious weeds have been identified as occurring on lands within the boundaries of the Farmington Field Office (FFO). There are numerous invasive species on the FFO such as Russian thistle (*Salsola spp.*) and field bindweed (*Convolvulus arvensis*).

Russian Knapweed (<i>Centaurea repens</i>)	Musk Thistle (<i>Carduus nutans</i>)
Bull Thistle (<i>Cirsium vulgare</i>)	Canada Thistle (<i>Cirsium arvense</i>)
Scotch Thistle (<i>Onopordum acanthium</i>)	Hoary Cress (<i>Cardaria draba</i>)
Perennial Pepperweed (<i>Lepidium latifolium</i>)	Halogeton (<i>Halogeton glomeratus</i>)
Spotted Knapweed (<i>Centaurea maculosa</i>)	Dalmation Toadflax (<i>Linaria genistifolia</i>)
Yellow Toadflax (<i>Linaria vulgaris</i>)	Camelthorn (<i>Alhagi pseudalhagi</i>)
African Rue (<i>Peganum harmala</i>)	Salt Cedar (<i>Tamarix spp.</i>)
Diffuse Knapweed (<i>Centaurea diffusa</i>)	Leafy Spurge (<i>Euphorbia esula</i>)

- a. Identified weeds will be treated prior to new surface disturbance if determined by the FFO Noxious Weed Coordinator. A Pesticide Use Proposal (PUP) must be submitted to and approved by the FFO Noxious Weed Coordinator prior to application of pesticide. The FFO Noxious Weeds Coordinator (505-564-7600) can provide assistance in the development of the PUP.

- b. Vehicles and equipment should be inspected and cleaned prior to coming onto the work site. This is especially important on vehicles from out of state or if coming from a weed-infested site.
- c. Fill dirt or gravel may be needed for excavation, road construction/repair, or for spill remediation. If fill dirt or gravel will be required, the source shall be noxious weed free and approved by the FFO Noxious Weed Coordinator.
- d. The site shall be monitored for the life of the project for the presence of noxious weeds (includes maintenance and construction activities). If weeds are found the FFO Coordinator shall be notified at (505) 564-7600 and provided with a Weed Management Plan and if necessary, a Pesticide Use Proposal (PUP). The FFO Coordinator can provide assistance developing the Weed Management Plan and/or the Pesticide Use Proposal.
- e. Only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and used only in accordance with their registered use and limitations. DJR's weed-control contractor would contact the BLM-FFO prior to using these chemicals.
- f. Noxious/invasive weed treatments must be reported to the FFO Noxious Weed Coordinator. A Pesticide Use Report (PUR) is required to report any mechanical, chemical, biological, or cultural treatments used to eradicate, and/or control noxious or invasive species. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Coordinator.

Bare ground vegetation trim-out: If bare ground vegetation treatment (trim-out) is desired around facility structures, the operator will submit a bare ground/trim-out design included in their Surface Use Plan of Operations (SUPO). The design will address vegetation safety concerns of the operator and BLM while minimizing impacts to interim reclamation efforts. The design must include what structures to be treated and buffer distances of trim-out. Pesticide use for vegetation control around anchor structures is not approved. If pesticides are used for bare ground trim-out, the trim-out will not exceed three feet from the edge of any eligible permanent structure (i.e., well heads, fences, tanks). Additional distance/areas may be requested and must be approved by the FFO authorized officer. The additional information below must also be provided to the FFO:

- a. Pesticide use for trim out will require a Pesticide Use Proposal (PUP). A PUP is required *prior* to any treatment and must be approved by the FFO Noxious Weed Coordinator. Only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and used only in accordance with their registered use and limitations. Enduring's

weed-control contractor would contact the BLM-FFO prior to using these chemicals and provide Pesticide Use Reports (PURs) post treatment.

- b. A Pesticide Use Report (PUR) or a Biological Use Report (BUR) is required to report any chemical, or biological treatments used to eradicate, or control vegetation on site. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Coordinator.

Paleontology

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

Visual Resources

Dark Sky COAs need to be applied to existing lighting, which is not dark sky friendly and to any additional lights added as part of pad expansion. All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source). All permanent lighting will be pointed straight down at the ground in order to prevent light spill to the sides. All permanent lighting will be 4000° Kelvin or less with 3000° Kelvin preferred. Warmer light colors are less noticeable by humans and cause less impact to wildlife. All permanent lighting will be controlled by a switch and/or timer which allows the lights to be turned on when workers are on location during dark periods but will keep the lights off the majority of the time.

Wildlife Resources

Crow Mesa Wildlife SDA: F-4 Timing Limitation Stipulation - Important Seasonal Wildlife Habitat. No surface use for is allowed during the following time period: December 1 - March 31.

Wildlife Improvements: Two stock ponds will be constructed to BLM specifications as mitigation for the removal of the HSP project North Crow Mesa Harrow #1 (mule deer and elk habitat) by the construction of the Escrito C17-2407 well pad as stated in the EA.

Hazards: Wildlife hazards associated with the proposed project would be fenced, covered, and/or contained in storage tanks, as necessary.

Migratory Bird: The BLM FFO migratory bird policy requires a bird nest survey between May 15-July 31 for any projects that would remove 4.0 or more acres of vegetation. The proposed project will disturb more than 4.0 acres of vegetation and a survey is required if construction occurs within the specified time frame. Once drilling and completion activities are complete, any open water that could be harmful to birds and wildlife. must be covered, screened, or netted to prevent entry.

Threatened, Endangered or Sensitive Species: If, in operations the operator/holder discovers any Threatened, Endangered, or Sensitive species, work in the vicinity of the discovery will be suspended and the discovery promptly reported to the BLM-FFO T&E specialist at (505) 564-7600. The BLM-FFO will then specify what action is to be taken. Failure to notify the BLM-FFO about a discovery may result in civil or criminal penalties in accordance with The Endangered Species Act (as amended).

Nesting: If a bird nest containing eggs or young is encountered in the path of construction the operator will cease construction and consult with BLM to determine appropriate actions.

Livestock Grazing: Livestock grazing operators in the vicinity of the proposed project area would be contacted by the Operator at least 10 business days prior to construction. The operator is not obligated to cease or delay construction unless directed by the AO. Any range improvement (fences, pipelines, ponds, etc.) disturbed by construction activities will be repaired immediately following construction and will be repaired to the condition the improvement was in prior to disturbance. Cattle guards will be installed to replace any livestock fencing or gates removed for road construction. No holes would be left open overnight. Open holes would be barricaded to ensure the safety of livestock. If livestock are present, providing monitors or barriers to ensure livestock do not come into contact with hazards (i.e., fencing of exposed ditch-type holes and covering smaller holes is required during each active bore hole construction during periods when personnel are not present on the site). Safety meetings or briefs to employees to increase awareness about livestock (i.e., open range and driving speeds to avoid livestock collisions). Containment of any contaminants, fluid leaks, or hazards that could cause injury to livestock (i.e antifreeze for compressors, drilling pits, equipment, pump jacks).

Soil, Air, Water

Land Farming: No excavation, remediation or closure activities will be authorized without prior approval, on any federal or Indian mineral estate, federal surface, or federal ROW. A Sundry Notice (DOI, BLM Form 3160-5) must be submitted with an explanation of the remediation or closure plan for on-lease actions.

Emission Control Standard: Compressor engines 300 horsepower or less used during well production must be rated by the manufacturer as emitting NOx at 2 grams per horsepower hour or less to comply with the New Mexico Environmental Department, Air Quality Bureau's guidance.

Waste Disposal: All fluids (i.e., scrubber cleaners) used during washing of production equipment, including compressors, will be properly disposed of to avoid ground contamination, or hazard to livestock or wildlife.

Cultural Resources

Non-Permitted Disturbance: Construction, construction maintenance or any other activity outside the areas permitted by the APD will require additional approval and may require a new cultural survey and clearance.

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

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

Discovery of Cultural Resources during Monitoring: If monitoring confirms the presence of previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. **If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, or in accordance with an approved program alternative.** Minor recordation, stabilization, or data recovery may be performed by BLM

or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive archaeological or alternative mitigation, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any mitigations determined appropriate through the agency's Section 106 consultation are completed.

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

See below additional cultural stipulations.



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

DJR Operating LLC
#03H Escrito C17 2407
Lease: NMNM003595 Agreement: TBD
SH: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 17, T.24 N., R.7 W.
BH: Lot 14 Section 6, T.24 N., R.7 W.
Rio Arriba County, New Mexico

***Above Data Required on Well Sign**

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

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

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☐ Test the surface casing to a minimum of _____ psi for 30 minutes.
- D. ☐ Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

- E. ☒ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales. Surface commingling with Unit production is not allowed. The well will only report production to the assigned Communitization Agreement. Allocation will determine how much production is allocated to outside the Unit area and allocated to the existing tracts within the Unit area.
- F. ☐ The use of co-flex hose is authorized contingent upon the following:
1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to at Virgil Lucero at 505-793-1836.**
- G. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**

- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all time, unless the well is secured with blowout preventers or cement plugs.
- J. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

II. REPORTING REQUIREMENTS

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

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout

prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

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

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

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.
- B. Emergency program changes after hours contact: **Virgil Lucero (505) 793-1836**

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 300425

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID:
	371838
	Action Number:
	300425
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	1/30/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/30/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	1/30/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	1/30/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	1/30/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	1/30/2024