

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-045-338461	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 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. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Date	
Office		Date	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 05/15/2025

Additional Operator Remarks

Location of Well

0. SHL: NWSW / 2417 FSL / 130 FWL / TWSP: 24N / RANGE: 8W / SECTION: 16 / LAT: 36.313578 / LONG: -107.695586 (TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 2535 FNL / 127 FEL / TWSP: 24N / RANGE: 8W / SECTION: 16 / LAT: 36.314312 / LONG: -107.69559 (TVD: 5547 feet, MD: 5942 feet)
PPP: NWNE / 1 FNL / 2428 FEL / TWSP: 24N / RANGE: 8W / SECTION: 21 / LAT: 36.306992 / LONG: -107.686599 (TVD: 5550 feet, MD: 12791 feet)
BHL: SENE / 2164 FNL / 330 FEL / TWSP: 24N / RANGE: 8W / SECTION: 21 / LAT: 36.301087 / LONG: -107.679346 (TVD: 5550 feet, MD: 12791 feet)

BLM Point of Contact

Name: JEFFREY J TAFOYA
Title: Assistant Field Manager
Phone: (505) 564-7672
Email: JTAFOYA@BLM.GOV

CONFIDENTIAL

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-045-38462	Pool Code 98194	Pool Name CROW CANYON MANCOS OIL POOL
Property Code 325183	Property Name CROW CANYON UNIT	Well Number 135H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6794'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	16	24N	8W		2417' SOUTH	130' WEST	36.313578° N	107.695586° W	SAN JUAN

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
H	21	24N	8W		2164' NORTH	330' EAST	36.301087° N	107.679346° W	SAN JUAN

Dedicated Acres PENETRATED SPACING UNIT; SEC 17: NE/SE (40 AC.); SEC 16: SW/NW, SW/4 & SW/SE (240 AC.); SEC 21: NE/NW & NE/4 (200 AC.) = 480 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code UNIT
Order Numbers: R-14090 R-14090A		Well Setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	16	24N	8W		2417' SOUTH	130' WEST	36.313578° N	107.695586° W	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	16	24N	8W		2535' NORTH	127' WEST	36.314312° N	107.695590° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
H	21	24N	8W		2164' NORTH	330' EAST	36.301087° N	107.679346° W	SAN JUAN

Unitized Area or Area of Uniform Interest CROW CANYON	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford
Signature

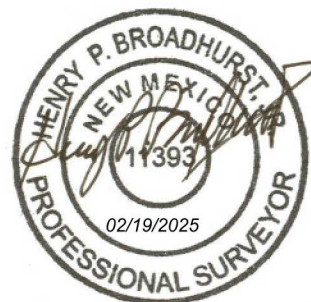
2/19/2025
Date

Shaw-Marie Ford
Printed Name

sford@enduringresources.com
E-mail Address

SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor:

Certificate Number

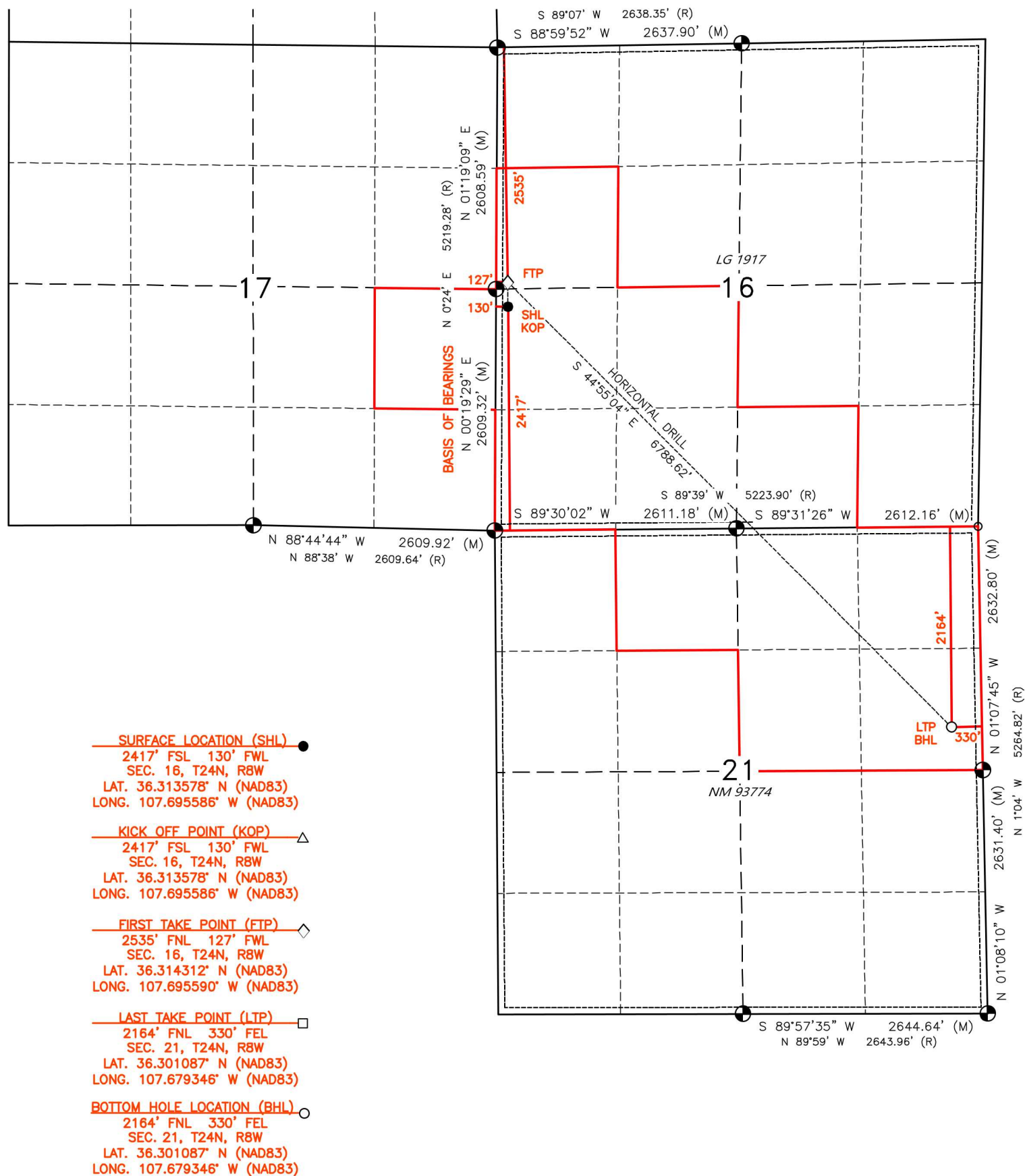
11393

Date of Survey

JUNE 18, 2021

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

FND 2 1/2" BC
 GLO 1947
 DP CALC



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 - Plan Description

Effective May 25, 2021

I. Operator: DJR Operating, LLC **OGRID:** 371838 **Date:** 2/14/2025

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
Crow Canyon Unit 130H	TBD	L-16-24N-8W	2413 FSL x 51 FWL	561	1273	196
Crow Canyon Unit 131H	TBD	L-16-24N-8W	2416 FSL x 110 FWL	850	1929	298
Crow Canyon Unit 134H	TBD	L-16-24N-8W	2415 FSL x 91 FWL	489	1109	171
Crow Canyon Unit 135H	TBD	L-16-24N-8W	2417 FSL x 130 FWL	302	685	106
Crow Canyon Unit 136H	TBD	L-16-24N-8W	2412 FSL x 31 FWL	651	1476	228
Crow Canyon Unit 137H	TBD	L-16-24N-8W	2414 FSL x 70 FWL	549	1244	192
				3-year Decline	3-year Decline	3-year Decline
Crow Canyon Unit 130H	TBD	L-16-24N-8W	2413 FSL x 51 FWL	127	507	44
Crow Canyon Unit 131H	TBD	L-16-24N-8W	2416 FSL x 110 FWL	192	768	67
Crow Canyon Unit 134H	TBD	L-16-24N-8W	2415 FSL x 91 FWL	110	442	39
Crow Canyon Unit 135H	TBD	L-16-24N-8W	2417 FSL x 130 FWL	68	273	24
Crow Canyon Unit 136H	TBD	L-16-24N-8W	2412 FSL x 31 FWL	147	588	51
Crow Canyon Unit 137H	TBD	L-16-24N-8W	2414 FSL x 70 FWL	124	496	43

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
Crow Canyon Unit 130H	TBD	7/18/2026	7/26/2026	8/2/2026	8/9/2026	8/11/2026
Crow Canyon Unit 131H	TBD	7/19/2026	7/27/2026	8/3/2026	8/10/2026	8/12/2026
Crow Canyon Unit 134H	TBD	7/20/2026	7/28/2026	8/4/2026	8/11/2026	8/13/2026
Crow Canyon Unit 135H	TBD	7/21/2026	7/29/2026	8/5/2026	8/12/2026	8/14/2026
Crow Canyon Unit 136H	TBD	7/22/2026	7/30/2026	8/6/2026	8/13/2026	8/15/2026
Crow Canyon Unit 137H	TBD	7/23/2026	7/31/2026	8/7/2026	8/14/2026	8/16/2026

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@enduringresources.com
Date: 2/14/2025
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
Crow Canyon Unit 130H, 131H, 134H, 135H, 136H and 137H

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
Crow Canyon Unit 130H, 131H, 134H, 135H, 136H and 137H

VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Crow Canyon Unit 130H, 131H, 134H, 135H, 136H and 137H

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Crow Canyon Unit 130H, 131H, 134H, 135H, 136H and 137H

BEST MANAGEMENT PRACTICES

DJR Operating, LLC (DJR) utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

DJR has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

DJR will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

DJR shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

DJR shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

DJR will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

DJR's measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

DJR shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.

Rev 0



DRILLING PLAN

Crow Canyon Unit 135H

San Juan County, New Mexico

Surface Location

130-ft FWL & 2417-ft FSL
 Sec 16 T24N R08W
 Graded Elevation 6794' MSL
 RKB Elevation 6808' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.3135780° N
 Longitude 107.6955860° W

Kick Off Point for Horizontal Build Curve

4871-ft MD
 4787-ft TVD

Local Coordinates (from SHL)

692-ft North
 466-ft West

Heel Location (Pay zone entry)

127-ft FEL & 2535-ft FNL
 Sec 17 T24N R08W

Heel Geographical Coordinates (NAD-83)

Latitude 36.31431196° N
 Longitude 107.69559043° W

Bottom Hole Location (TD)

330-ft FEL & 2164-ft FNL
 Sec 21 T24N R08W

BHL Geographical Coordinates (NAD-83)

Latitude 36.301087° N
 Longitude 107.6793460° W

Well objectives

This well is planned as a 6790-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 144°F. Bottom hole pressure in the Gallup C is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1183	1176	Sd	W	8.3	8.4 – 8.8
Kirtland	1315	1305	Sh	-	8.3	8.4 – 8.8
Fruitland	1712	1694	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1936	1913	Sd	W	8.3	9.0 - 9.5
Lewis	2012	1988	Sh	-		9.0 - 9.5
Chacra	2775	2735	Sd	-	8.3	9.0 - 9.5
Menefee	3454	3400	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4351	4279	Sd	-	8.3	9.0 - 9.5
Mancos	4566	4489	Sh	-		9.0 - 9.5
Mancos Silt	4938	4854	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5397	5287	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5448	5327	Sd	O/G	6.6	8.8 -9.0
Gallup C	5618	5440	Sd	O/G	6.6	8.8 -9.0
Target	6002	5550	Sd	O/G	6.6	8.8 -9.0

Casing Program

Casing OD	Hole Size	Weight (#/ft)	Grade	Coupling	MD Top	MD Bottom	TVD Top	TVD Bottom	Top of Cement
9-5/8"	12-1/4"	36	K-55	STC	surf	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5942	surf	5547	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5664	12791	5464	5499	5664

Note: all casing will be new

Rev 0

**Casing Design Load Cases**

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

Note #

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

Casing Design Factors

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

Cement Design9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	4371-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	425	251
Volume (bbls)	177	67
Volume (cu.ft.)	995	375
Excess %	55	55



Rev 0

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5664-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	599
Volume (bbls)	167
Volume (cu.ft)	936
Excess %	40

Wellhead & Pressure Control

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

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

Mud Program

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

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 5942	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5942 – 12791	8.8 – 9.2	34 – 38	6 – 8	6 – 8

Cores, tests and logs

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

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

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

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

Cuttings and drilling fluids management

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

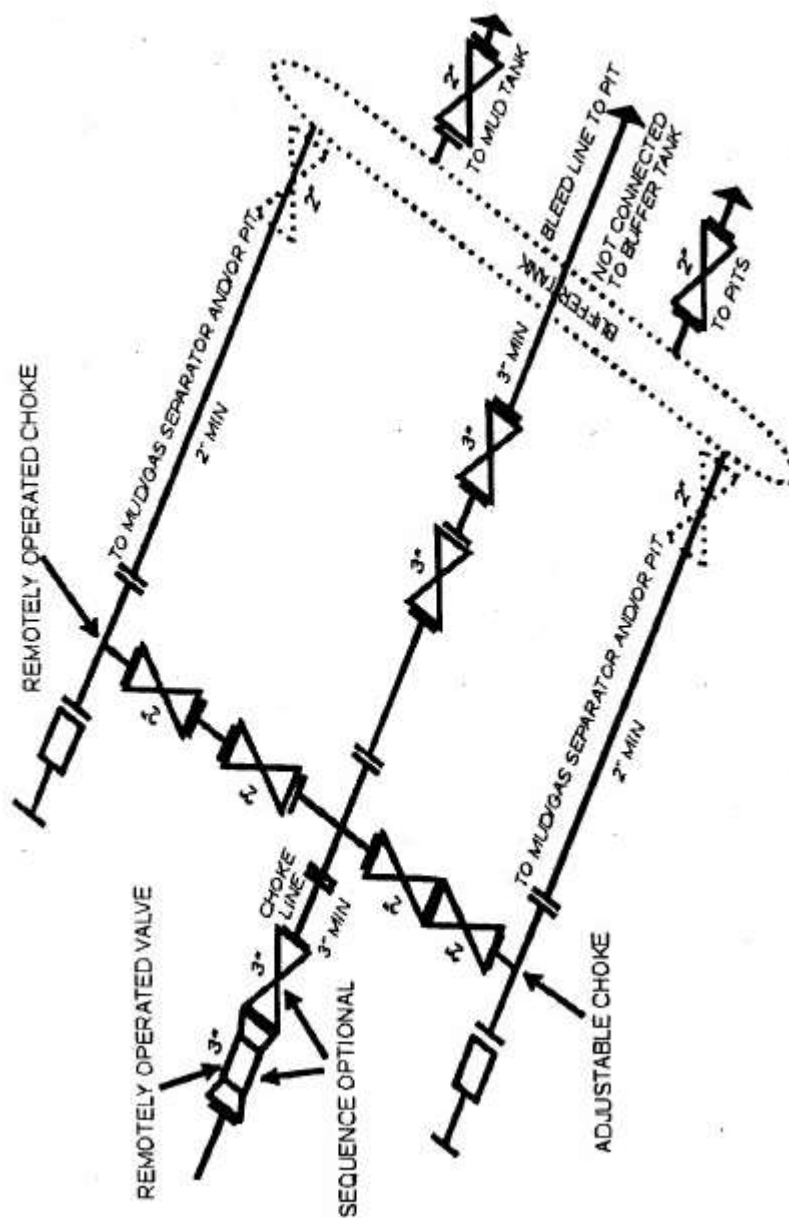
Completion

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



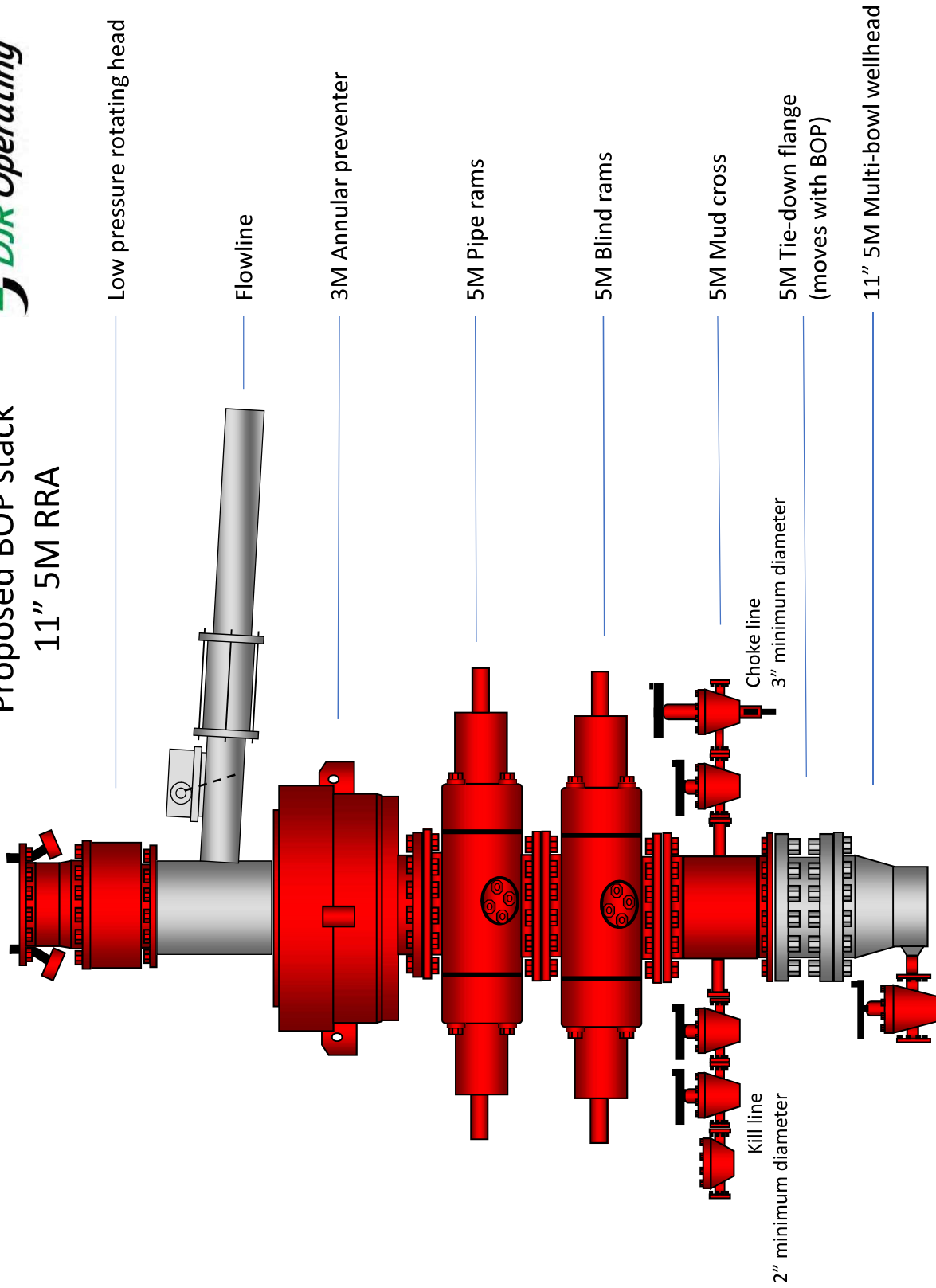
Choke Manifold

Actual system to conform with Onshore Order 2





Proposed BOP stack
11" 5M RRA





Company: DJR Operating
Project: Crow Canyon Unit
Site: L16 2408 Pad
Well: # 135H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: # 135H

+N/-S +E/-W Northing Easting Latitude Longitude
0 0 1933471.36 2763673.69 36.31357797 -107.69558600

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

Plan: APD (# 135H/Original Drilling)

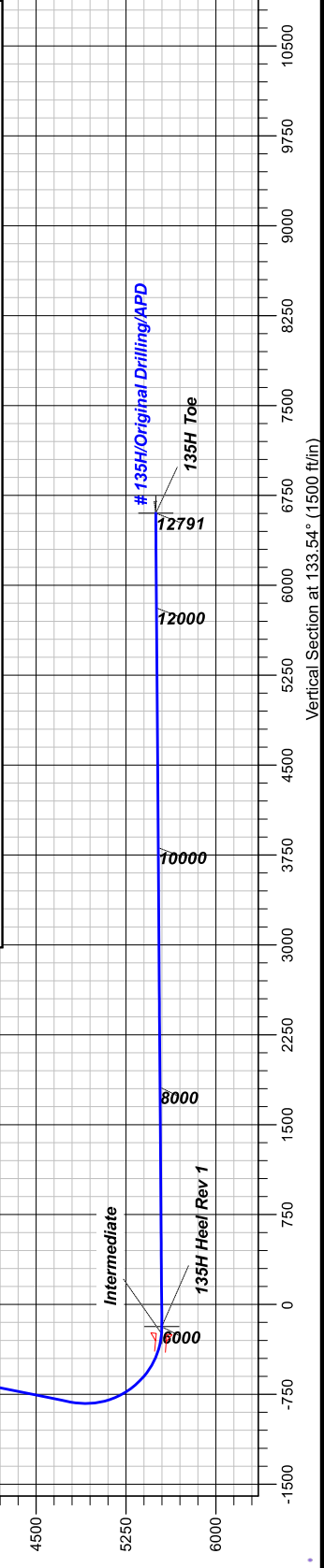
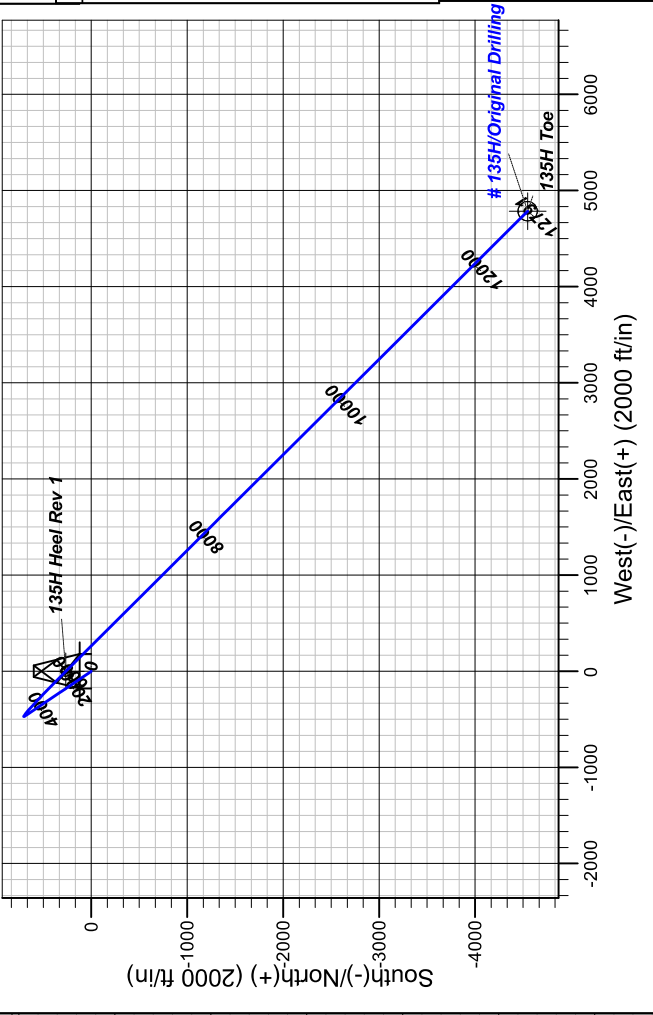
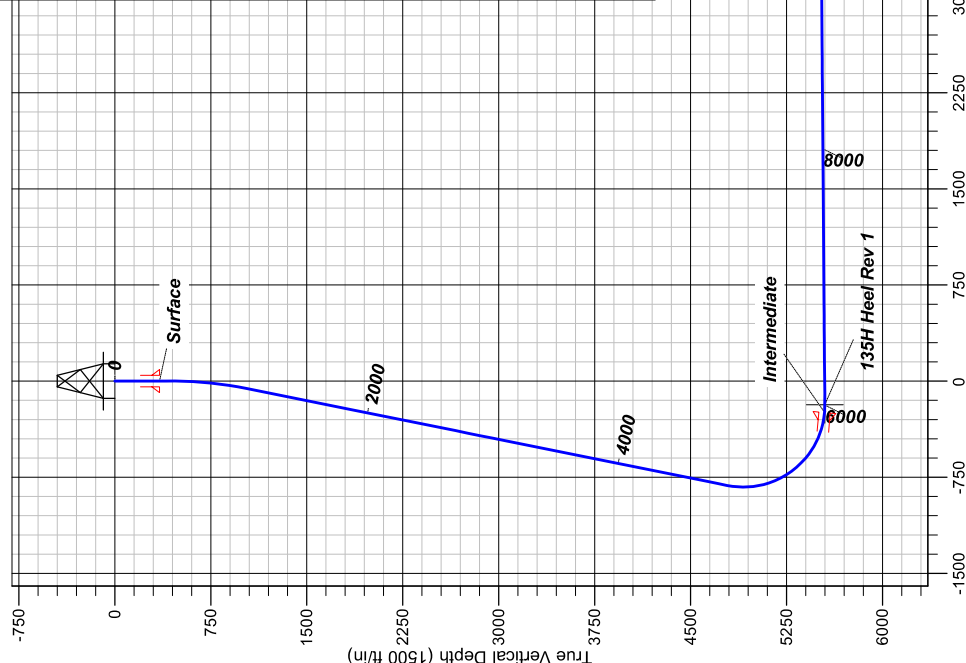
Created By: Janie Collins Date: 10:14, June 24 2021

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
135H Heel Rev 1	5550	267	-4547	1933738.55	2763672.00	36.31431196	-107.69559043
135H Toe	5499	-4547	4785	19328931.53	2768465.43	36.30108700	-107.67934600

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0	0.00	0.00	0	0	0	0.00	0.00	0	135H Heel Rev 1
450	0.00	0.00	450	0	0	0.00	0.00	0	135H Toe
1033	11.65	326.05	1029	49	-33	2.00	326.05	-58	
4871	11.65	326.05	4787	692	-466	0.00	0.00	-814	
6002	90.43	135.16	5550	267	-1	9.00	168.87	-185	
12791	90.43	135.16	5499	-4547	4785	0.00	0.00	6601	



Received by OCD: 6/26/2023 2:27 PM

CASING DETAILS

TVD	MD	Name
350	350	Surface
5547	5942	Intermediate

FORMATION DETAILS

MDPath	Formation
1176	Ojo Alamo
1305	Kirtland
1694	Fruitland
1913	Pictured Cliffs
1988	Lewis
2735	Chacra
3400	Menefee
4279	Point Lookout
4489	Mancos
4854	Mancos Silt
5287	Gallup A
5327	Gallup B
5440	Gallup C



DJR Operating

Crow Canyon Unit

L16 2408 Pad

135H - Slot 6

Original Drilling

Plan: APD

Standard Planning Report

24 June, 2021





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 135H - Slot 6
Company:	DJR Operating	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Project:	Crow Canyon Unit	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site:	L16 2408 Pad	North Reference:	True
Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Project	Crow Canyon Unit		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	L16 2408 Pad		
Site Position:		Northing:	1,933,466.49 usft
From:	Lat/Long	Easting:	2,763,573.83 usft
Position Uncertainty:	0 ft	Slot Radius:	13.20 in
		Latitude:	36.31356497
		Longitude:	-107.69592500
		Grid Convergence:	0.08 °

Well	# 135H - Slot 6		
Well Position	+N/-S	5 ft	Northing:
	+E/-W	100 ft	Easting:
Position Uncertainty	0 ft	Wellhead Elevation:	
		Latitude:	36.31357797
		Longitude:	-107.69558600
		Ground Level:	6794 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/11/2021	8.78	62.94	49,374.62292333

Design	APD			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	133.54

Plan Survey Tool Program	Date	6/23/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	12,791	APD (Original Drilling)	MWD+IGRF
				OWSG MWD + IGRF or WMM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
450	0.00	0.00	450	0	0	0.00	0.00	0.00	0.00	
1033	11.65	326.05	1029	49	-33	2.00	2.00	0.00	326.05	
4871	11.65	326.05	4787	692	-466	0.00	0.00	0.00	0.00	
6002	90.43	135.16	5550	267	-1	9.00	6.96	14.94	168.87	135H Heel Rev 1
12,791	90.43	135.16	5499	-4547	4785	0.00	0.00	0.00	0.00	135H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 135H - Slot 6
Company:	DJR Operating	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Project:	Crow Canyon Unit	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site:	L16 2408 Pad	North Reference:	True
Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
450	0.00	0.00	450	0	0	0	0.00	0.00	0.00
500	1.00	326.05	500	0	0	0	2.00	2.00	0.00
600	3.00	326.05	600	3	-2	-4	2.00	2.00	0.00
700	5.00	326.05	700	9	-6	-11	2.00	2.00	0.00
800	7.00	326.05	799	18	-12	-21	2.00	2.00	0.00
900	9.00	326.05	898	29	-20	-34	2.00	2.00	0.00
1000	11.00	326.05	997	44	-29	-51	2.00	2.00	0.00
1033	11.65	326.05	1029	49	-33	-58	2.00	2.00	0.00
1100	11.65	326.05	1095	60	-41	-71	0.00	0.00	0.00
1200	11.65	326.05	1193	77	-52	-91	0.00	0.00	0.00
1300	11.65	326.05	1290	94	-63	-110	0.00	0.00	0.00
1400	11.65	326.05	1388	111	-74	-130	0.00	0.00	0.00
1500	11.65	326.05	1486	127	-86	-150	0.00	0.00	0.00
1600	11.65	326.05	1584	144	-97	-170	0.00	0.00	0.00
1700	11.65	326.05	1682	161	-108	-189	0.00	0.00	0.00
1800	11.65	326.05	1780	178	-120	-209	0.00	0.00	0.00
1900	11.65	326.05	1878	194	-131	-229	0.00	0.00	0.00
2000	11.65	326.05	1976	211	-142	-248	0.00	0.00	0.00
2100	11.65	326.05	2074	228	-153	-268	0.00	0.00	0.00
2200	11.65	326.05	2172	245	-165	-288	0.00	0.00	0.00
2300	11.65	326.05	2270	261	-176	-308	0.00	0.00	0.00
2400	11.65	326.05	2368	278	-187	-327	0.00	0.00	0.00
2500	11.65	326.05	2466	295	-198	-347	0.00	0.00	0.00
2600	11.65	326.05	2564	312	-210	-367	0.00	0.00	0.00
2700	11.65	326.05	2662	328	-221	-386	0.00	0.00	0.00
2800	11.65	326.05	2760	345	-232	-406	0.00	0.00	0.00
2900	11.65	326.05	2858	362	-244	-426	0.00	0.00	0.00
3000	11.65	326.05	2955	379	-255	-446	0.00	0.00	0.00
3100	11.65	326.05	3053	395	-266	-465	0.00	0.00	0.00
3200	11.65	326.05	3151	412	-277	-485	0.00	0.00	0.00
3300	11.65	326.05	3249	429	-289	-505	0.00	0.00	0.00
3400	11.65	326.05	3347	446	-300	-524	0.00	0.00	0.00
3500	11.65	326.05	3445	462	-311	-544	0.00	0.00	0.00
3600	11.65	326.05	3543	479	-323	-564	0.00	0.00	0.00
3700	11.65	326.05	3641	496	-334	-584	0.00	0.00	0.00
3800	11.65	326.05	3739	513	-345	-603	0.00	0.00	0.00
3900	11.65	326.05	3837	529	-356	-623	0.00	0.00	0.00
4000	11.65	326.05	3935	546	-368	-643	0.00	0.00	0.00
4100	11.65	326.05	4033	563	-379	-662	0.00	0.00	0.00
4200	11.65	326.05	4131	580	-390	-682	0.00	0.00	0.00
4300	11.65	326.05	4229	596	-401	-702	0.00	0.00	0.00
4400	11.65	326.05	4327	613	-413	-722	0.00	0.00	0.00
4500	11.65	326.05	4425	630	-424	-741	0.00	0.00	0.00
4600	11.65	326.05	4522	647	-435	-761	0.00	0.00	0.00
4700	11.65	326.05	4620	663	-447	-781	0.00	0.00	0.00
4800	11.65	326.05	4718	680	-458	-800	0.00	0.00	0.00
4871	11.65	326.05	4787	692	-466	-814	0.00	0.00	0.00
4900	9.07	329.30	4816	696	-469	-819	9.00	-8.78	11.03
5000	2.24	50.55	4916	704	-471	-827	9.00	-6.82	81.25



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 135H - Slot 6
Company:	DJR Operating	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Project:	Crow Canyon Unit	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site:	L16 2408 Pad	North Reference:	True
Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5100	9.48	121.63	5015	701	-463	-819	9.00	7.23	71.09
5200	18.34	128.39	5112	687	-443	-795	9.00	8.87	6.76
5300	27.30	130.81	5205	662	-414	-756	9.00	8.95	2.42
5400	36.27	132.10	5289	628	-374	-703	9.00	8.97	1.29
5500	45.25	132.93	5365	583	-326	-638	9.00	8.98	0.83
5600	54.24	133.54	5430	531	-271	-562	9.00	8.99	0.61
5700	63.23	134.02	5481	472	-209	-477	9.00	8.99	0.48
5800	72.23	134.43	5519	408	-143	-384	9.00	8.99	0.41
5900	81.22	134.80	5542	339	-73	-287	9.00	8.99	0.37
6000	90.21	135.15	5550	269	-3	-187	9.00	8.99	0.35
6002	90.43	135.16	5550	267	-1	-185	9.00	8.99	0.35
6100	90.43	135.16	5549	198	67	-87	0.00	0.00	0.00
6200	90.43	135.16	5548	127	138	13	0.00	0.00	0.00
6300	90.43	135.16	5548	56	209	112	0.00	0.00	0.00
6400	90.43	135.16	5547	-15	279	212	0.00	0.00	0.00
6500	90.43	135.16	5546	-86	350	312	0.00	0.00	0.00
6600	90.43	135.16	5545	-157	420	412	0.00	0.00	0.00
6700	90.43	135.16	5545	-227	491	512	0.00	0.00	0.00
6800	90.43	135.16	5544	-298	561	612	0.00	0.00	0.00
6900	90.43	135.16	5543	-369	632	712	0.00	0.00	0.00
7000	90.43	135.16	5542	-440	702	812	0.00	0.00	0.00
7100	90.43	135.16	5542	-511	773	912	0.00	0.00	0.00
7200	90.43	135.16	5541	-582	843	1012	0.00	0.00	0.00
7300	90.43	135.16	5540	-653	914	1112	0.00	0.00	0.00
7400	90.43	135.16	5539	-724	984	1212	0.00	0.00	0.00
7500	90.43	135.16	5539	-795	1055	1312	0.00	0.00	0.00
7600	90.43	135.16	5538	-866	1125	1412	0.00	0.00	0.00
7700	90.43	135.16	5537	-937	1196	1512	0.00	0.00	0.00
7800	90.43	135.16	5536	-1007	1266	1612	0.00	0.00	0.00
7900	90.43	135.16	5536	-1078	1337	1712	0.00	0.00	0.00
8000	90.43	135.16	5535	-1149	1407	1812	0.00	0.00	0.00
8100	90.43	135.16	5534	-1220	1478	1912	0.00	0.00	0.00
8200	90.43	135.16	5533	-1291	1548	2012	0.00	0.00	0.00
8300	90.43	135.16	5533	-1362	1619	2112	0.00	0.00	0.00
8400	90.43	135.16	5532	-1433	1689	2212	0.00	0.00	0.00
8500	90.43	135.16	5531	-1504	1760	2312	0.00	0.00	0.00
8600	90.43	135.16	5530	-1575	1830	2411	0.00	0.00	0.00
8700	90.43	135.16	5530	-1646	1901	2511	0.00	0.00	0.00
8800	90.43	135.16	5529	-1717	1971	2611	0.00	0.00	0.00
8900	90.43	135.16	5528	-1787	2042	2711	0.00	0.00	0.00
9000	90.43	135.16	5527	-1858	2112	2811	0.00	0.00	0.00
9100	90.43	135.16	5527	-1929	2183	2911	0.00	0.00	0.00
9200	90.43	135.16	5526	-2000	2253	3011	0.00	0.00	0.00
9300	90.43	135.16	5525	-2071	2324	3111	0.00	0.00	0.00
9400	90.43	135.16	5524	-2142	2394	3211	0.00	0.00	0.00
9500	90.43	135.16	5524	-2213	2465	3311	0.00	0.00	0.00
9600	90.43	135.16	5523	-2284	2535	3411	0.00	0.00	0.00
9700	90.43	135.16	5522	-2355	2606	3511	0.00	0.00	0.00
9800	90.43	135.16	5521	-2426	2676	3611	0.00	0.00	0.00
9900	90.43	135.16	5521	-2497	2747	3711	0.00	0.00	0.00
10,000	90.43	135.16	5520	-2567	2817	3811	0.00	0.00	0.00
10,100	90.43	135.16	5519	-2638	2888	3911	0.00	0.00	0.00
10,200	90.43	135.16	5518	-2709	2958	4011	0.00	0.00	0.00
10,300	90.43	135.16	5518	-2780	3029	4111	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 135H - Slot 6
Company:	DJR Operating	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Project:	Crow Canyon Unit	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site:	L16 2408 Pad	North Reference:	True
Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,400	90.43	135.16	5517	-2851	3099	4211	0.00	0.00	0.00	
10,500	90.43	135.16	5516	-2922	3170	4311	0.00	0.00	0.00	
10,600	90.43	135.16	5515	-2993	3240	4411	0.00	0.00	0.00	
10,700	90.43	135.16	5515	-3064	3311	4511	0.00	0.00	0.00	
10,800	90.43	135.16	5514	-3135	3381	4611	0.00	0.00	0.00	
10,900	90.43	135.16	5513	-3206	3452	4710	0.00	0.00	0.00	
11,000	90.43	135.16	5512	-3277	3522	4810	0.00	0.00	0.00	
11,100	90.43	135.16	5512	-3347	3593	4910	0.00	0.00	0.00	
11,200	90.43	135.16	5511	-3418	3663	5010	0.00	0.00	0.00	
11,300	90.43	135.16	5510	-3489	3734	5110	0.00	0.00	0.00	
11,400	90.43	135.16	5509	-3560	3804	5210	0.00	0.00	0.00	
11,500	90.43	135.16	5509	-3631	3875	5310	0.00	0.00	0.00	
11,600	90.43	135.16	5508	-3702	3945	5410	0.00	0.00	0.00	
11,700	90.43	135.16	5507	-3773	4016	5510	0.00	0.00	0.00	
11,800	90.43	135.16	5506	-3844	4086	5610	0.00	0.00	0.00	
11,900	90.43	135.16	5506	-3915	4157	5710	0.00	0.00	0.00	
12,000	90.43	135.16	5505	-3986	4227	5810	0.00	0.00	0.00	
12,100	90.43	135.16	5504	-4057	4298	5910	0.00	0.00	0.00	
12,200	90.43	135.16	5503	-4127	4368	6010	0.00	0.00	0.00	
12,300	90.43	135.16	5503	-4198	4439	6110	0.00	0.00	0.00	
12,400	90.43	135.16	5502	-4269	4509	6210	0.00	0.00	0.00	
12,500	90.43	135.16	5501	-4340	4580	6310	0.00	0.00	0.00	
12,600	90.43	135.16	5500	-4411	4650	6410	0.00	0.00	0.00	
12,700	90.43	135.16	5500	-4482	4721	6510	0.00	0.00	0.00	
12,791	90.43	135.16	5499	-4547	4785	6601	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
135H Toe	0.00	0.00	5499	-4547	4785	1,928,931.53	2,768,465.43	36.30108700	-107.67934600
- plan hits target center									
- Circle (radius 100)									
135H Heel Rev 1	0.00	0.00	5550	267	-1	1,933,738.56	2,763,672.01	36.31431197	-107.69559044
- plan hits target center									
- Circle (radius 50)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.63	12.25	
5942	5547	Intermediate	7.00	8.75	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 135H - Slot 6
Company:	DJR Operating	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Project:	Crow Canyon Unit	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site:	L16 2408 Pad	North Reference:	True
Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1183	1176	Ojo Alamo		0.00	0.00	
1315	1305	Kirtland		0.00	0.00	
1712	1694	Fruitland		0.00	0.00	
1936	1913	Pictured Cliffs		0.00	0.00	
2012	1988	Lewis		0.00	0.00	
2775	2735	Chacra		0.00	0.00	
3454	3400	Menefee		0.00	0.00	
4351	4279	Point Lookout		0.00	0.00	
4566	4489	Mancos		0.00	0.00	
4938	4854	Mancos Silt		0.00	0.00	
5397	5287	Gallup A		0.00	0.00	
5448	5327	Gallup B		0.00	0.00	
5618	5440	Gallup C		0.00	0.00	



DJR Operating

Crow Canyon Unit

L16 2408 Pad

135H

Original Drilling

APD

Anticollision Report

24 June, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/24/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	12,791	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
L16 2408 Pad						
# 130H - Original Drilling - APD	450	450	80	77	28.372	CC
# 130H - Original Drilling - APD	500	499	80	77	25.316	ES
# 130H - Original Drilling - APD	900	884	102	96	17.155	SF
# 131H - Original Drilling - APD	450	450	20	17	7.115	CC
# 131H - Original Drilling - APD	500	500	20	17	6.386	ES
# 131H - Original Drilling - APD	12,791	12,423	1303	956	3.756	SF
# 134H - Original Drilling - APD	1043	1039	39	32	5.404	CC
# 134H - Original Drilling - APD	1100	1095	40	32	5.106	ES
# 134H - Original Drilling - APD	4871	4865	118	81	3.190	SF
# 136H - Original Drilling - APD	450	450	100	97	35.486	CC
# 136H - Original Drilling - APD	500	498	100	97	31.649	ES
# 136H - Original Drilling - APD	12,791	12,143	696	363	2.090	SF
# 137H - Original Drilling - APD	450	450	60	57	21.251	CC
# 137H - Original Drilling - APD	500	499	60	57	18.961	ES
# 137H - Original Drilling - APD	1100	1087	99	91	12.899	SF
Mesa #4 SWD - OH - OH	9589	4650	2084	1866	9.554	CC
Mesa #4 SWD - OH - OH	9600	4650	2084	1866	9.543	ES
Mesa #4 SWD - OH - OH	10,000	4650	2124	1897	9.371	SF

Offset Design: L16 2408 Pad - # 130H - Original Drilling - APD														Offset Site Error:		0 ft
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:		0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
0	0	0	0	0	0	-92.87	-4	-80	80							
100	100	100	100	0	0	-92.87	-4	-80	80	80	0.31	259.306				
200	200	200	200	1	1	-92.87	-4	-80	80	79	1.03	77.973				
300	300	300	300	1	1	-92.87	-4	-80	80	78	1.74	45.886				
400	400	400	400	1	1	-92.87	-4	-80	80	77	2.46	32.508				
450	450	450	450	1	1	-92.87	-4	-80	80	77	2.82	28.372	CC			
500	500	499	499	2	2	-59.26	-4	-80	80	77	3.17	25.316	ES			
600	600	596	596	2	2	-61.89	-5	-83	82	78	3.85	21.212				
700	700	693	693	2	2	-66.81	-7	-90	85	81	4.54	18.786				
800	799	789	788	3	3	-73.31	-10	-99	92	87	5.25	17.528				



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 130H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
900	898	884	883	3	3	-80.43	-15	-111	102	96	5.97	17.155 SF		
1000	997	979	976	4	3	-87.31	-20	-126	117	111	6.72	17.451		
1033	1029	1009	1006	4	4	-89.40	-21	-131	123	116	6.97	17.662		
1100	1095	1072	1067	4	4	-93.35	-26	-144	137	129	7.50	18.234		
1200	1193	1165	1157	4	4	-97.58	-32	-164	160	152	8.31	19.316		
1300	1290	1261	1251	5	5	-100.69	-40	-186	186	177	9.17	20.265		
1400	1388	1357	1344	5	5	-103.05	-47	-208	212	202	10.06	21.043		
1500	1486	1453	1437	6	6	-104.90	-55	-230	238	227	10.95	21.696		
1600	1584	1550	1531	6	6	-106.38	-62	-252	264	252	11.86	22.246		
1700	1682	1646	1624	7	7	-107.59	-70	-275	290	277	12.78	22.713		
1800	1780	1742	1718	7	7	-108.61	-77	-297	317	303	13.70	23.114		
1900	1878	1839	1811	8	8	-109.47	-85	-319	343	329	14.63	23.460		
2000	1976	1935	1905	8	9	-110.20	-92	-341	370	354	15.56	23.762		
2100	2074	2031	1998	9	9	-110.84	-100	-363	396	380	16.50	24.028		
2200	2172	2128	2091	9	10	-111.39	-107	-385	423	406	17.44	24.262		
2300	2270	2224	2185	10	10	-111.88	-115	-408	450	431	18.38	24.471		
2400	2368	2320	2278	10	11	-112.32	-122	-430	477	457	19.33	24.657		
2500	2466	2416	2372	11	11	-112.71	-130	-452	503	483	20.28	24.825		
2600	2564	2513	2465	11	12	-113.06	-137	-474	530	509	21.22	24.977		
2700	2662	2609	2558	12	12	-113.37	-145	-496	557	535	22.18	25.115		
2800	2760	2705	2652	13	13	-113.66	-152	-518	584	561	23.13	25.241		
2900	2858	2802	2745	13	14	-113.92	-160	-541	611	587	24.08	25.356		
3000	2955	2898	2839	14	14	-114.16	-167	-563	637	612	25.04	25.461		
3100	3053	2994	2932	14	15	-114.38	-175	-585	664	638	25.99	25.558		
3200	3151	3091	3025	15	15	-114.59	-182	-607	691	664	26.95	25.648		
3300	3249	3187	3119	15	16	-114.77	-190	-629	718	690	27.90	25.732		
3400	3347	3283	3212	16	16	-114.95	-197	-652	745	716	28.86	25.809		
3500	3445	3379	3306	16	17	-115.11	-205	-674	772	742	29.82	25.881		
3600	3543	3476	3399	17	18	-115.26	-212	-696	799	768	30.78	25.948		
3700	3641	3572	3493	17	18	-115.40	-220	-718	826	794	31.74	26.011		
3800	3739	3668	3586	18	19	-115.54	-227	-740	852	820	32.70	26.070		
3900	3837	3765	3679	18	19	-115.66	-235	-762	879	846	33.66	26.125		
4000	3935	3861	3773	19	20	-115.78	-242	-785	906	872	34.62	26.178		
4100	4033	3957	3866	19	20	-115.89	-250	-807	933	898	35.58	26.227		
4200	4131	4054	3960	20	21	-115.99	-257	-829	960	923	36.54	26.273		
4300	4229	4150	4053	20	22	-116.09	-265	-851	987	949	37.50	26.317		
4400	4327	4246	4146	21	22	-116.18	-272	-873	1014	975	38.46	26.358		
4500	4425	4342	4240	21	23	-116.27	-279	-895	1041	1001	39.43	26.398		
4600	4522	4439	4333	22	23	-116.36	-287	-918	1068	1027	40.39	26.435		
4700	4620	4535	4427	22	24	-116.44	-294	-940	1095	1053	41.35	26.470		
4800	4718	4631	4520	23	24	-116.51	-302	-962	1122	1079	42.31	26.504		
4871	4787	4699	4586	23	25	-116.56	-307	-977	1141	1098	42.99	26.527		
4900	4816	4728	4613	23	25	-120.44	-309	-984	1148	1105	43.27	26.538		
4950	4866	4776	4660	24	25	-134.59	-313	-995	1161	1117	43.69	26.565		
5000	4916	4824	4707	24	26	156.93	-317	-1006	1172	1128	44.05	26.601		
5050	4966	4872	4753	24	26	97.36	-321	-1017	1182	1138	44.35	26.648		
5100	5015	4919	4799	24	26	85.53	-324	-1028	1191	1146	44.60	26.703		
5150	5064	4965	4844	24	26	81.29	-328	-1039	1199	1154	44.80	26.767		
5200	5112	5010	4887	24	27	79.36	-331	-1049	1206	1161	44.94	26.843		
5250	5159	5053	4929	24	27	78.47	-335	-1059	1213	1168	45.03	26.935		
5300	5205	5094	4969	24	27	78.15	-338	-1068	1219	1174	45.06	27.043		
5350	5248	5148	5021	24	28	78.68	-341	-1082	1224	1179	45.19	27.082		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5400	5289	5197	5068	24	28	79.51	-341	-1096	1229	1183	45.26	27.143	
5450	5329	5234	5103	24	28	80.20	-339	-1109	1233	1188	45.22	27.273	
5500	5365	5262	5128	24	28	80.63	-337	-1120	1238	1193	45.07	27.475	
5550	5399	5281	5146	23	28	80.74	-335	-1128	1244	1199	44.85	27.740	
5600	5430	5294	5158	23	29	80.55	-333	-1133	1251	1206	44.57	28.064	
5650	5457	5302	5165	23	29	80.06	-332	-1136	1259	1214	44.27	28.431	
5700	5481	5305	5168	23	29	79.30	-332	-1138	1268	1224	43.97	28.829	
5750	5502	5305	5167	23	29	78.32	-332	-1137	1278	1234	43.68	29.245	
5800	5519	5300	5163	23	29	77.05	-332	-1135	1288	1245	43.41	29.682	
5850	5533	5300	5163	23	29	75.95	-332	-1135	1300	1257	43.25	30.057	
5900	5542	5289	5153	24	28	74.33	-334	-1131	1312	1269	43.07	30.475	
5950	5548	5280	5144	24	28	72.78	-335	-1127	1325	1282	42.97	30.841	
6002	5550	5269	5134	24	28	71.09	-336	-1122	1339	1296	42.94	31.189	
6100	5549	5250	5117	25	28	70.32	-338	-1115	1368	1325	43.09	31.755	
6200	5548	5231	5100	26	28	69.52	-340	-1108	1404	1361	43.45	32.318	
6300	5548	5216	5086	27	28	68.90	-340	-1103	1446	1402	44.00	32.860	
6400	5547	5200	5071	28	28	68.23	-341	-1097	1493	1448	44.64	33.436	
6500	5546	5200	5071	29	28	68.23	-341	-1097	1544	1499	45.48	33.957	
6600	5545	5182	5053	31	28	67.47	-341	-1092	1600	1554	46.19	34.650	
6700	5545	5173	5045	33	28	67.10	-341	-1089	1661	1614	46.97	35.349	
6800	5544	5150	5023	35	28	66.12	-341	-1082	1724	1677	47.63	36.207	
6900	5543	5150	5023	36	28	66.12	-341	-1082	1791	1743	48.43	36.985	
7000	5542	5150	5023	38	28	66.12	-341	-1082	1861	1812	49.19	37.832	
7100	5542	5150	5023	40	28	66.12	-341	-1082	1933	1884	49.91	38.743	
7200	5541	5150	5023	42	28	66.12	-341	-1082	2008	1958	50.57	39.713	
7300	5540	5150	5023	45	28	66.12	-341	-1082	2085	2034	51.19	40.737	
7400	5539	5132	5006	47	27	65.36	-340	-1077	2164	2112	51.63	41.907	
7500	5539	5128	5002	49	27	65.19	-340	-1076	2244	2192	52.13	43.044	
7600	5538	5124	4998	51	27	65.04	-340	-1076	2326	2273	52.60	44.220	
7700	5537	5105	4980	53	27	64.24	-339	-1071	2409	2356	52.92	45.529	
7800	5536	5105	4980	56	27	64.24	-339	-1071	2494	2440	53.34	46.750	
7900	5536	5105	4980	58	27	64.24	-339	-1071	2579	2525	53.73	48.001	
8000	5535	5105	4980	60	27	64.24	-339	-1071	2666	2612	54.09	49.279	
8100	5534	5105	4980	63	27	64.24	-339	-1071	2753	2699	54.43	50.582	
8200	5533	5105	4980	65	27	64.24	-339	-1071	2841	2787	54.74	51.906	
8300	5533	5102	4977	67	27	64.09	-339	-1070	2930	2875	55.00	53.274	
8400	5532	5090	4965	70	27	63.61	-338	-1068	3020	2965	55.19	54.714	
8500	5531	5079	4954	72	27	63.13	-337	-1065	3110	3055	55.37	56.173	
8600	5530	5068	4943	74	27	62.66	-336	-1062	3201	3145	55.52	57.648	
8700	5530	5056	4932	77	27	62.18	-335	-1060	3292	3236	55.67	59.140	
8800	5529	5045	4921	79	27	61.71	-334	-1057	3384	3328	55.80	60.647	
8900	5528	5033	4910	81	27	61.24	-333	-1054	3476	3420	55.91	62.167	
9000	5527	5022	4899	84	27	60.77	-332	-1052	3569	3513	56.02	63.701	
9100	5527	5010	4888	86	27	60.31	-331	-1049	3661	3605	56.12	65.246	
9200	5526	4999	4877	89	27	59.84	-331	-1046	3755	3698	56.20	66.803	
9300	5525	4987	4866	91	27	59.38	-330	-1044	3848	3792	56.28	68.371	
9400	5524	4976	4854	93	26	58.93	-329	-1041	3942	3886	56.35	69.949	
9500	5524	4965	4843	96	26	58.47	-328	-1039	4036	3980	56.42	71.537	
9600	5523	4953	4832	98	26	58.02	-327	-1036	4130	4074	56.48	73.133	
9700	5522	4942	4821	101	26	57.56	-326	-1033	4225	4168	56.53	74.738	
9800	5521	4930	4810	103	26	57.12	-325	-1031	4320	4263	56.58	76.352	
9900	5521	4919	4799	106	26	56.67	-324	-1028	4415	4358	56.62	77.973	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,000	5520	4907	4788	108	26	56.23	-323	-1025	4510	4453	56.65	79.601	
10,100	5519	4896	4777	110	26	55.79	-323	-1023	4605	4548	56.69	81.236	
10,200	5518	4885	4766	113	26	55.35	-322	-1020	4701	4644	56.72	82.877	
10,300	5518	4873	4755	115	26	54.91	-321	-1017	4796	4739	56.74	84.525	
10,400	5517	4862	4743	118	26	54.48	-320	-1015	4892	4835	56.77	86.179	
10,500	5516	4850	4732	120	26	54.05	-319	-1012	4988	4931	56.79	87.839	
10,600	5515	4839	4721	123	26	53.62	-318	-1010	5084	5027	56.80	89.503	
10,700	5515	4827	4710	125	26	53.20	-317	-1007	5180	5123	56.82	91.174	
10,800	5514	4816	4699	128	26	52.78	-316	-1004	5277	5220	56.83	92.848	
10,900	5513	4804	4688	130	25	52.36	-315	-1002	5373	5316	56.84	94.528	
11,000	5512	4793	4677	132	25	51.94	-315	-999	5469	5413	56.85	96.212	
11,100	5512	4782	4666	135	25	51.53	-314	-996	5566	5509	56.85	97.900	
11,200	5511	4770	4655	137	25	51.12	-313	-994	5663	5606	56.86	99.593	
11,300	5510	4759	4644	140	25	50.71	-312	-991	5760	5703	56.86	101.289	
11,400	5509	4747	4632	142	25	50.31	-311	-989	5857	5800	56.87	102.989	
11,500	5509	4736	4621	145	25	49.91	-310	-986	5953	5897	56.87	104.692	
11,600	5508	4724	4610	147	25	49.51	-309	-983	6051	5994	56.87	106.398	
11,700	5507	4713	4599	150	25	49.11	-308	-981	6148	6091	56.87	108.108	
11,800	5506	4701	4588	152	25	48.72	-307	-978	6245	6188	56.86	109.821	
11,900	5506	4690	4577	155	25	48.33	-307	-975	6342	6285	56.86	111.537	
12,000	5505	4679	4566	157	25	47.94	-306	-973	6439	6383	56.86	113.255	
12,100	5504	4667	4555	160	25	47.56	-305	-970	6537	6480	56.85	114.976	
12,200	5503	4656	4544	162	25	47.18	-304	-967	6634	6577	56.85	116.699	
12,300	5503	4644	4533	164	25	46.80	-303	-965	6732	6675	56.84	118.424	
12,400	5502	4633	4521	167	24	46.42	-302	-962	6829	6772	56.84	120.152	
12,500	5501	4621	4510	169	24	46.05	-301	-960	6927	6870	56.83	121.882	
12,600	5500	4610	4499	172	24	45.68	-300	-957	7025	6968	56.83	123.613	
12,700	5500	4598	4488	174	24	45.31	-299	-954	7122	7065	56.82	125.347	
12,791	5499	4588	4478	177	24	44.98	-299	-952	7211	7155	56.81	126.929	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 131H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:												
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S	+E/-W	Between Centres	Between Ellipses	(ft)			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0	0	0	0	0	0	-92.08	-1	-20	20					
100	100	100	100	0	0	-92.08	-1	-20	20	20	0.31	65.027		
200	200	200	200	1	1	-92.08	-1	-20	20	19	1.03	19.554		
300	300	300	300	1	1	-92.08	-1	-20	20	18	1.74	11.507		
400	400	400	400	1	1	-92.08	-1	-20	20	18	2.46	8.152		
450	450	450	450	1	1	-92.08	-1	-20	20	17	2.82	7.115 CC		
500	500	500	500	2	2	-59.57	-1	-20	20	17	3.17	6.386 ES		
600	600	599	599	2	2	-70.04	-2	-24	22	18	3.86	5.734		
700	700	698	697	2	2	-85.37	-5	-30	28	23	4.56	6.054		
800	799	796	795	3	3	-98.58	-8	-39	38	33	5.29	7.209		
900	898	893	891	3	3	-107.50	-13	-52	54	48	6.03	8.901		
1000	997	989	986	4	3	-113.11	-19	-67	74	67	6.81	10.876		
1033	1029	1020	1016	4	4	-114.44	-21	-73	82	75	7.07	11.548		
1100	1095	1083	1078	4	4	-116.55	-26	-85	98	91	7.61	12.940		
1200	1193	1177	1169	4	4	-117.80	-34	-106	126	117	8.42	14.899		
1300	1290	1273	1262	5	5	-118.29	-43	-128	154	144	9.29	16.526		
1400	1388	1369	1355	5	5	-118.63	-51	-150	182	171	10.18	17.841		
1500	1486	1465	1448	6	6	-118.88	-60	-172	210	199	11.08	18.928		
1600	1584	1561	1541	6	6	-119.07	-69	-194	238	226	11.98	19.835		
1700	1682	1657	1634	7	7	-119.22	-77	-216	266	253	12.90	20.603		
1800	1780	1753	1727	7	8	-119.34	-86	-239	294	280	13.82	21.260		
1900	1878	1849	1820	8	8	-119.44	-94	-261	322	307	14.75	21.826		
2000	1976	1945	1913	8	9	-119.53	-103	-283	350	334	15.68	22.321		
2100	2074	2041	2006	9	9	-119.60	-112	-305	378	361	16.61	22.754		
2200	2172	2137	2099	9	10	-119.66	-120	-327	406	389	17.55	23.138		
2300	2270	2233	2192	10	10	-119.71	-129	-349	434	416	18.49	23.480		
2400	2368	2329	2285	10	11	-119.76	-138	-372	462	443	19.43	23.787		
2500	2466	2425	2378	11	11	-119.80	-146	-394	490	470	20.38	24.062		
2600	2564	2521	2471	11	12	-119.84	-155	-416	518	497	21.32	24.312		
2700	2662	2617	2564	12	13	-119.87	-164	-438	546	524	22.27	24.539		
2800	2760	2713	2657	13	13	-119.90	-172	-460	574	551	23.22	24.746		
2900	2858	2809	2750	13	14	-119.93	-181	-482	603	578	24.16	24.935		
3000	2955	2905	2843	14	14	-119.96	-189	-505	631	606	25.11	25.110		
3100	3053	3001	2936	14	15	-119.98	-198	-527	659	633	26.07	25.270		
3200	3151	3097	3029	15	15	-120.00	-207	-549	687	660	27.02	25.419		
3300	3249	3193	3122	15	16	-120.02	-215	-571	715	687	27.97	25.557		
3400	3347	3289	3215	16	17	-120.04	-224	-593	743	714	28.92	25.685		
3500	3445	3385	3308	16	17	-120.05	-233	-615	771	741	29.88	25.805		
3600	3543	3481	3401	17	18	-120.07	-241	-638	799	768	30.83	25.917		
3700	3641	3577	3494	17	18	-120.08	-250	-660	827	795	31.78	26.022		
3800	3739	3673	3587	18	19	-120.10	-259	-682	855	822	32.74	26.120		
3900	3837	3769	3680	18	20	-120.11	-267	-704	883	850	33.70	26.212		
4000	3935	3865	3773	19	20	-120.12	-276	-726	911	877	34.65	26.299		
4100	4033	3961	3866	19	21	-120.13	-284	-748	939	904	35.61	26.381		
4200	4131	4057	3959	20	21	-120.14	-293	-771	967	931	36.56	26.458		
4300	4229	4153	4052	20	22	-120.15	-302	-793	995	958	37.52	26.532		
4400	4327	4249	4145	21	22	-120.16	-310	-815	1024	985	38.48	26.601		
4500	4425	4345	4238	21	23	-120.17	-319	-837	1052	1012	39.44	26.667		
4600	4522	4441	4331	22	24	-120.18	-328	-859	1080	1039	40.39	26.730		
4700	4620	4537	4424	22	24	-120.19	-336	-881	1108	1066	41.35	26.789		
4800	4718	4632	4517	23	25	-120.19	-345	-904	1136	1094	42.31	26.846		
4871	4787	4700	4582	23	25	-120.20	-351	-919	1156	1113	42.99	26.884		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 131H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4900	4816	4729	4610	23	25	-124.07	-354	-926	1164	1120	43.26	26.901	
4950	4866	4777	4657	24	26	-138.20	-358	-937	1176	1133	43.68	26.931	
5000	4916	4825	4703	24	26	153.34	-362	-948	1188	1144	44.04	26.965	
5050	4966	4873	4749	24	26	93.82	-367	-959	1198	1153	44.35	27.004	
5100	5015	4920	4795	24	26	82.04	-371	-970	1206	1162	44.61	27.045	
5150	5064	4966	4839	24	27	77.85	-375	-981	1214	1169	44.81	27.091	
5200	5112	5000	4873	24	27	75.74	-379	-988	1221	1176	44.85	27.215	
5250	5159	5023	4895	24	27	74.34	-382	-992	1227	1182	44.73	27.431	
5300	5205	5050	4922	24	27	73.55	-386	-996	1233	1188	44.61	27.633	
5350	5248	5080	4951	24	27	73.16	-392	-1000	1238	1194	44.48	27.835	
5400	5289	5109	4979	24	27	72.97	-399	-1003	1243	1199	44.32	28.049	
5450	5329	5138	5007	24	28	72.95	-407	-1004	1248	1204	44.14	28.264	
5500	5365	5168	5035	24	28	73.08	-415	-1005	1252	1208	43.97	28.473	
5550	5399	5200	5066	23	28	73.40	-426	-1005	1256	1212	43.83	28.653	
5600	5430	5228	5092	23	28	73.70	-436	-1004	1260	1216	43.67	28.841	
5650	5457	5259	5120	23	28	74.15	-448	-1001	1263	1219	43.57	28.985	
5700	5481	5290	5149	23	28	74.70	-461	-998	1266	1223	43.52	29.094	
5750	5502	5323	5177	23	28	75.32	-475	-993	1269	1226	43.52	29.161	
5800	5519	5356	5206	23	28	76.03	-491	-987	1272	1228	43.58	29.183	
5850	5533	5390	5234	23	28	76.81	-508	-979	1275	1231	43.72	29.158	
5900	5542	5425	5263	24	28	77.67	-526	-970	1277	1233	43.92	29.085	
5950	5548	5462	5291	24	28	78.61	-547	-959	1280	1236	44.19	28.968	
6002	5550	5502	5321	24	28	79.68	-570	-946	1283	1238	44.54	28.801	
6100	5549	5590	5380	25	29	82.41	-625	-911	1290	1244	45.44	28.381	
6200	5548	5708	5445	26	29	85.38	-705	-853	1298	1251	46.77	27.755	
6300	5548	5857	5500	27	29	87.88	-811	-766	1305	1257	48.69	26.806	
6400	5547	6028	5523	28	29	88.95	-935	-650	1308	1257	51.38	25.461	
6500	5546	6131	5522	29	29	88.96	-1009	-577	1308	1254	54.00	24.224	
6600	5545	6231	5521	31	30	88.96	-1079	-507	1308	1251	56.90	22.988	
6700	5545	6331	5521	33	30	88.96	-1150	-436	1308	1248	60.11	21.760	
6800	5544	6431	5520	35	32	88.96	-1221	-366	1308	1244	63.42	20.622	
6900	5543	6531	5519	36	33	88.96	-1292	-295	1308	1241	67.02	19.513	
7000	5542	6631	5519	38	35	88.96	-1363	-224	1308	1237	70.82	18.465	
7100	5542	6731	5518	40	36	88.97	-1434	-154	1308	1233	74.75	17.493	
7200	5541	6831	5517	42	38	88.97	-1504	-83	1308	1229	78.80	16.593	
7300	5540	6931	5517	45	40	88.97	-1575	-13	1307	1225	82.95	15.762	
7400	5539	7031	5516	47	42	88.97	-1646	58	1307	1220	87.19	14.994	
7500	5539	7131	5515	49	44	88.97	-1717	128	1307	1216	91.51	14.286	
7600	5538	7231	5514	51	46	88.97	-1788	199	1307	1211	95.90	13.632	
7700	5537	7331	5514	53	48	88.98	-1859	270	1307	1207	100.34	13.028	
7800	5536	7431	5513	56	51	88.98	-1930	340	1307	1202	104.83	12.469	
7900	5536	7531	5512	58	53	88.98	-2000	411	1307	1198	109.36	11.951	
8000	5535	7631	5512	60	55	88.98	-2071	481	1307	1193	113.93	11.471	
8100	5534	7731	5511	63	57	88.98	-2142	552	1307	1188	118.54	11.024	
8200	5533	7831	5510	65	60	88.98	-2213	622	1307	1184	123.18	10.608	
8300	5533	7931	5509	67	62	88.99	-2284	693	1307	1179	127.84	10.221	
8400	5532	8031	5509	70	64	88.99	-2355	763	1307	1174	132.53	9.859	
8500	5531	8131	5508	72	66	88.99	-2426	834	1306	1169	137.24	9.520	
8600	5530	8231	5507	74	69	88.99	-2496	905	1306	1164	141.97	9.202	
8700	5530	8331	5507	77	71	88.99	-2567	975	1306	1160	146.72	8.904	
8800	5529	8431	5506	79	73	88.99	-2638	1046	1306	1155	151.48	8.623	
8900	5528	8531	5505	81	76	89.00	-2709	1116	1306	1150	156.26	8.359	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 131H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF											Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
9000	5527	8631	5504	84	78	89.00	-2780	1187	1306	1145	161.05	8.110
9100	5527	8731	5504	86	81	89.00	-2851	1257	1306	1140	165.85	7.874
9200	5526	8831	5503	89	83	89.00	-2921	1328	1306	1135	170.66	7.652
9300	5525	8931	5502	91	85	89.00	-2992	1399	1306	1130	175.48	7.441
9400	5524	9031	5502	93	88	89.00	-3063	1469	1306	1125	180.32	7.241
9500	5524	9131	5501	96	90	89.01	-3134	1540	1306	1120	185.16	7.051
9600	5523	9231	5500	98	93	89.01	-3205	1610	1306	1116	190.01	6.871
9700	5522	9331	5500	101	95	89.01	-3276	1681	1305	1111	194.86	6.699
9800	5521	9431	5499	103	97	89.01	-3347	1751	1305	1106	199.72	6.536
9900	5521	9531	5498	106	100	89.01	-3417	1822	1305	1101	204.59	6.380
10,000	5520	9631	5497	108	102	89.01	-3488	1893	1305	1096	209.47	6.231
10,100	5519	9731	5497	110	105	89.02	-3559	1963	1305	1091	214.35	6.089
10,200	5518	9831	5496	113	107	89.02	-3630	2034	1305	1086	219.23	5.953
10,300	5518	9931	5495	115	110	89.02	-3701	2104	1305	1081	224.12	5.822
10,400	5517	10,031	5495	118	112	89.02	-3772	2175	1305	1076	229.02	5.698
10,500	5516	10,131	5494	120	114	89.02	-3843	2245	1305	1071	233.92	5.578
10,600	5515	10,231	5493	123	117	89.02	-3913	2316	1305	1066	238.82	5.463
10,700	5515	10,331	5492	125	119	89.03	-3984	2387	1305	1061	243.73	5.353
10,800	5514	10,431	5492	128	122	89.03	-4055	2457	1305	1056	248.64	5.247
10,900	5513	10,531	5491	130	124	89.03	-4126	2528	1304	1051	253.55	5.145
11,000	5512	10,631	5490	132	127	89.03	-4197	2598	1304	1046	258.47	5.047
11,100	5512	10,731	5490	135	129	89.03	-4268	2669	1304	1041	263.38	4.952
11,200	5511	10,831	5489	137	132	89.03	-4338	2739	1304	1036	268.31	4.861
11,300	5510	10,931	5488	140	134	89.04	-4409	2810	1304	1031	273.23	4.773
11,400	5509	11,031	5487	142	136	89.04	-4480	2881	1304	1026	278.16	4.688
11,500	5509	11,131	5487	145	139	89.04	-4551	2951	1304	1021	283.09	4.606
11,600	5508	11,231	5486	147	141	89.04	-4622	3022	1304	1016	288.02	4.527
11,700	5507	11,331	5485	150	144	89.04	-4693	3092	1304	1011	292.95	4.450
11,800	5506	11,431	5485	152	146	89.04	-4764	3163	1304	1006	297.89	4.376
11,900	5506	11,531	5484	155	149	89.05	-4834	3233	1304	1001	302.82	4.305
12,000	5505	11,631	5483	157	151	89.05	-4905	3304	1304	996	307.76	4.235
12,100	5504	11,731	5483	160	154	89.05	-4976	3374	1303	991	312.70	4.168
12,200	5503	11,831	5482	162	156	89.05	-5047	3445	1303	986	317.65	4.103
12,300	5503	11,931	5481	164	159	89.05	-5118	3516	1303	981	322.59	4.040
12,400	5502	12,031	5480	167	161	89.05	-5189	3586	1303	976	327.54	3.979
12,500	5501	12,131	5480	169	164	89.06	-5260	3657	1303	971	332.48	3.919
12,600	5500	12,231	5479	172	166	89.06	-5330	3727	1303	966	337.43	3.862
12,700	5500	12,331	5478	174	168	89.06	-5401	3798	1303	961	342.38	3.805
12,791	5499	12,423	5478	177	171	89.06	-5466	3862	1303	956	346.89	3.756 SF



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 134H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:			Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-92.62	-2	-40	40					
100	100	100	100	0	0	-92.62	-2	-40	40	40	0.31	129.147		
200	200	200	200	1	1	-92.62	-2	-40	40	39	1.03	38.835		
300	300	300	300	1	1	-92.62	-2	-40	40	38	1.74	22.853		
400	400	400	400	1	1	-92.62	-2	-40	40	37	2.46	16.191		
450	450	450	450	1	1	-92.62	-2	-40	40	37	2.82	14.131		
500	500	500	500	2	2	-58.67	-1	-40	40	37	3.17	12.546		
600	600	599	599	2	2	-58.69	1	-42	40	36	3.88	10.245		
700	700	698	698	2	2	-58.72	7	-46	40	35	4.60	8.633		
800	799	798	797	3	3	-58.76	16	-51	40	34	5.34	7.426		
900	898	897	895	3	3	-58.82	27	-59	39	33	6.10	6.476		
1000	997	996	993	4	3	-58.89	41	-68	39	32	6.90	5.698		
1033	1029	1028	1025	4	4	-58.92	47	-72	39	32	7.18	5.472		
1043	1039	1039	1035	4	4	-58.91	48	-73	39	32	7.27	5.404 CC		
1100	1095	1095	1090	4	4	-58.00	58	-80	40	32	7.75	5.106 ES		
1200	1193	1195	1187	4	4	-54.94	77	-92	41	32	8.61	4.741		
1300	1290	1295	1285	5	5	-52.06	96	-105	42	33	9.47	4.455		
1400	1388	1395	1382	5	5	-49.36	115	-117	44	33	10.32	4.229		
1500	1486	1495	1479	6	6	-46.84	134	-130	45	34	11.17	4.048		
1600	1584	1595	1577	6	6	-44.49	153	-142	47	35	12.01	3.903		
1700	1682	1695	1674	7	7	-42.31	172	-155	49	36	12.83	3.786		
1800	1780	1795	1772	7	8	-40.28	190	-167	50	37	13.64	3.690		
1900	1878	1895	1869	8	8	-38.39	209	-180	52	38	14.45	3.612		
2000	1976	1995	1966	8	9	-36.63	228	-192	54	39	15.25	3.547		
2100	2074	2095	2064	9	9	-34.99	247	-205	56	40	16.04	3.494		
2200	2172	2195	2161	9	10	-33.46	266	-217	58	41	16.82	3.449		
2300	2270	2295	2258	10	10	-32.03	285	-230	60	42	17.60	3.411		
2400	2368	2395	2356	10	11	-30.70	304	-243	62	44	18.37	3.379		
2500	2466	2495	2453	11	11	-29.45	322	-255	64	45	19.14	3.352		
2600	2564	2595	2551	11	12	-28.28	341	-268	66	46	19.91	3.330		
2700	2662	2695	2648	12	12	-27.19	360	-280	68	48	20.67	3.310		
2800	2760	2795	2745	13	13	-26.16	379	-293	71	49	21.44	3.293		
2900	2858	2895	2843	13	14	-25.19	398	-305	73	51	22.20	3.279		
3000	2955	2995	2940	14	14	-24.28	417	-318	75	52	22.96	3.267		
3100	3053	3095	3037	14	15	-23.42	435	-330	77	54	23.71	3.256		
3200	3151	3195	3135	15	15	-22.61	454	-343	79	55	24.47	3.247		
3300	3249	3295	3232	15	16	-21.85	473	-355	82	56	25.23	3.239		
3400	3347	3395	3330	16	16	-21.13	492	-368	84	58	25.99	3.232		
3500	3445	3495	3427	16	17	-20.44	511	-380	86	60	26.74	3.226		
3600	3543	3595	3524	17	17	-19.79	530	-393	89	61	27.50	3.221		
3700	3641	3695	3622	17	18	-19.17	549	-405	91	63	28.25	3.216		
3800	3739	3795	3719	18	19	-18.58	567	-418	93	64	29.01	3.212		
3900	3837	3894	3816	18	19	-18.03	586	-430	96	66	29.77	3.208		
4000	3935	3994	3914	19	20	-17.49	605	-443	98	67	30.52	3.205		
4100	4033	4094	4011	19	20	-16.99	624	-455	100	69	31.28	3.202		
4200	4131	4194	4109	20	21	-16.50	643	-468	103	70	32.04	3.200		
4300	4229	4294	4206	20	21	-16.04	662	-480	105	72	32.80	3.198		
4400	4327	4394	4303	21	22	-15.60	680	-493	107	74	33.55	3.196		
4500	4425	4494	4401	21	22	-15.18	699	-505	110	75	34.31	3.194		
4600	4522	4594	4498	22	23	-14.77	718	-518	112	77	35.07	3.193		
4700	4620	4694	4595	22	24	-14.38	737	-530	114	79	35.83	3.192		
4800	4718	4794	4693	23	24	-14.01	756	-543	117	80	36.59	3.190		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 134H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4871	4787	4865	4761	23	25	-13.76	769	-552	118	81	37.13	3.190 SF		
4900	4816	4894	4790	23	25	-16.84	775	-555	120	82	37.35	3.208		
4950	4866	4944	4839	24	25	-29.83	784	-562	125	88	37.71	3.322		
5000	4916	4993	4886	24	25	-97.42	793	-568	135	97	38.05	3.537		
5050	4966	5041	4933	24	25	-156.36	802	-574	148	109	38.37	3.851		
5100	5015	5088	4979	24	26	-167.82	811	-580	165	126	38.67	4.258		
5150	5064	5134	5023	24	26	-171.95	820	-585	185	146	38.96	4.754		
5200	5112	5176	5064	24	26	-174.01	828	-591	209	170	39.20	5.339		
5250	5159	5207	5095	24	26	-175.25	834	-595	238	198	39.32	6.048		
5300	5205	5234	5121	24	27	-176.07	841	-600	271	232	39.34	6.893		
5350	5248	5250	5136	24	27	-176.70	845	-603	309	270	39.14	7.888		
5400	5289	5276	5160	24	27	-177.12	852	-609	350	310	39.25	8.906		
5450	5329	5300	5182	24	27	-177.45	859	-615	393	354	39.38	9.991		
5500	5365	5300	5182	24	27	-177.90	859	-615	439	400	39.04	11.251		
5550	5399	5312	5193	23	27	-178.27	863	-618	487	448	39.05	12.465		
5600	5430	5318	5198	23	27	-178.85	865	-619	536	497	39.01	13.728		
5650	5457	5322	5202	23	27	179.86	866	-620	585	546	38.99	15.007		
5700	5481	5323	5203	23	27	164.29	867	-621	635	596	38.98	16.288		
5750	5502	5322	5202	23	27	5.78	867	-621	685	646	39.00	17.562		
5800	5519	5320	5200	23	27	3.82	866	-620	735	696	39.04	18.818		
5850	5533	5316	5196	23	27	3.22	865	-619	784	745	39.10	20.050		
5900	5542	5300	5182	24	27	2.91	859	-615	832	793	39.02	21.338		
5950	5548	5300	5182	24	27	2.76	859	-615	880	841	39.20	22.443		
6002	5550	5300	5182	24	27	2.65	859	-615	928	889	39.41	23.557		
6100	5549	5280	5164	25	27	2.65	853	-610	1018	978	39.56	25.734		
6200	5548	5266	5151	26	27	2.65	849	-607	1111	1071	39.73	27.958		
6300	5548	5250	5136	27	27	2.65	845	-603	1204	1164	39.84	30.227		
6400	5547	5250	5136	28	27	2.65	845	-603	1298	1258	40.04	32.429		
6500	5546	5232	5119	29	27	2.65	840	-599	1393	1353	40.09	34.750		
6600	5545	5223	5110	31	27	2.65	838	-598	1488	1448	40.17	37.045		
6700	5545	5200	5088	33	26	2.64	833	-594	1584	1544	40.18	39.424		
6800	5544	5200	5088	35	26	2.64	833	-594	1680	1639	40.28	41.701		
6900	5543	5200	5088	36	26	2.64	833	-594	1776	1736	40.36	43.998		
7000	5542	5200	5088	38	26	2.64	833	-594	1873	1832	40.44	46.311		
7100	5542	5186	5074	40	26	2.64	830	-592	1969	1929	40.45	48.683		
7200	5541	5176	5064	42	26	2.64	828	-591	2066	2026	40.48	51.049		
7300	5540	5171	5060	45	26	2.64	827	-590	2164	2123	40.52	53.399		
7400	5539	5149	5038	47	26	2.64	823	-587	2261	2221	40.51	55.812		
7500	5539	5126	5016	49	26	2.64	818	-584	2358	2318	40.51	58.223		
7600	5538	5103	4993	51	26	2.64	814	-582	2456	2415	40.50	60.632		
7700	5537	5080	4971	53	26	2.63	810	-579	2553	2513	40.50	63.037		
7800	5536	5057	4949	56	26	2.63	805	-576	2650	2610	40.50	65.440		
7900	5536	5034	4926	58	25	2.63	801	-573	2748	2707	40.50	67.839		
8000	5535	5011	4904	60	25	2.63	797	-570	2845	2805	40.51	70.234		
8100	5534	4988	4882	63	25	2.63	792	-567	2942	2902	40.51	72.625		
8200	5533	4965	4859	65	25	2.63	788	-564	3040	2999	40.52	75.012		
8300	5533	4942	4837	67	25	2.63	784	-561	3137	3097	40.53	77.395		
8400	5532	4919	4815	70	25	2.63	779	-559	3234	3194	40.55	79.772		
8500	5531	4896	4792	72	25	2.63	775	-556	3332	3291	40.56	82.144		
8600	5530	4873	4770	74	25	2.63	771	-553	3429	3389	40.58	84.511		
8700	5530	4851	4748	77	24	2.63	766	-550	3526	3486	40.59	86.872		
8800	5529	4828	4725	79	24	2.62	762	-547	3624	3583	40.61	89.227		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 134H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8900	5528	4805	4703	81	24	2.62	758	-544	3721	3680	40.63	91.576	
9000	5527	4782	4681	84	24	2.62	754	-541	3818	3778	40.66	93.918	
9100	5527	4759	4658	86	24	2.62	749	-539	3916	3875	40.68	96.254	
9200	5526	4736	4636	89	24	2.62	745	-536	4013	3972	40.71	98.582	
9300	5525	4713	4614	91	24	2.62	741	-533	4110	4070	40.74	100.904	
9400	5524	4690	4591	93	24	2.62	736	-530	4208	4167	40.77	103.218	
9500	5524	4667	4569	96	23	2.62	732	-527	4305	4264	40.80	105.525	
9600	5523	4644	4547	98	23	2.62	728	-524	4402	4362	40.83	107.825	
9700	5522	4621	4524	101	23	2.62	723	-521	4500	4459	40.86	110.116	
9800	5521	4598	4502	103	23	2.62	719	-518	4597	4556	40.90	112.399	
9900	5521	4575	4480	106	23	2.62	715	-516	4694	4654	40.94	114.675	
10,000	5520	4552	4457	108	23	2.62	710	-513	4792	4751	40.98	116.941	
10,100	5519	4530	4435	110	23	2.62	706	-510	4889	4848	41.02	119.200	
10,200	5518	4507	4413	113	23	2.62	702	-507	4986	4945	41.06	121.449	
10,300	5518	4484	4390	115	22	2.62	697	-504	5084	5043	41.10	123.690	
10,400	5517	4461	4368	118	22	2.62	693	-501	5181	5140	41.15	125.922	
10,500	5516	4438	4346	120	22	2.62	689	-498	5278	5237	41.19	128.145	
10,600	5515	4415	4323	123	22	2.62	684	-495	5376	5335	41.24	130.359	
10,700	5515	4392	4301	125	22	2.62	680	-493	5473	5432	41.29	132.564	
10,800	5514	4369	4279	128	22	2.62	676	-490	5570	5529	41.34	134.759	
10,900	5513	4346	4256	130	22	2.62	671	-487	5668	5626	41.39	136.945	
11,000	5512	4323	4234	132	21	2.62	667	-484	5765	5724	41.44	139.122	
11,100	5512	4300	4212	135	21	2.62	663	-481	5863	5821	41.49	141.288	
11,200	5511	4277	4189	137	21	2.61	658	-478	5960	5918	41.55	143.445	
11,300	5510	4254	4167	140	21	2.61	654	-475	6057	6016	41.60	145.592	
11,400	5509	4232	4145	142	21	2.61	650	-472	6155	6113	41.66	147.730	
11,500	5509	4209	4122	145	21	2.61	645	-470	6252	6210	41.72	149.857	
11,600	5508	4186	4100	147	21	2.61	641	-467	6349	6307	41.78	151.975	
11,700	5507	4163	4078	150	21	2.61	637	-464	6447	6405	41.84	154.082	
11,800	5506	4140	4055	152	20	2.61	632	-461	6544	6502	41.90	156.179	
11,900	5506	4117	4033	155	20	2.61	628	-458	6641	6599	41.96	158.267	
12,000	5505	4094	4011	157	20	2.61	624	-455	6739	6697	42.03	160.344	
12,100	5504	4071	3988	160	20	2.61	620	-452	6836	6794	42.09	162.411	
12,200	5503	4048	3966	162	20	2.61	615	-450	6933	6891	42.16	164.467	
12,300	5503	4025	3944	164	20	2.61	611	-447	7031	6988	42.22	166.513	
12,400	5502	4002	3921	167	20	2.61	607	-444	7128	7086	42.29	168.549	
12,500	5501	3979	3899	169	20	2.61	602	-441	7225	7183	42.36	170.575	
12,600	5500	3956	3877	172	19	2.61	598	-438	7323	7280	42.43	172.590	
12,700	5500	3933	3854	174	19	2.61	594	-435	7420	7377	42.50	174.595	
12,791	5499	3913	3834	177	19	2.61	590	-433	7509	7466	42.56	176.414	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 136H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (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	
0	0	0	0	0	0	-92.71	-5	-100	100					
100	100	100	100	0	0	-92.71	-5	-100	100	100	0.31	324.328		
200	200	200	200	1	1	-92.71	-5	-100	100	99	1.03	97.525		
300	300	300	300	1	1	-92.71	-5	-100	100	98	1.74	57.392		
400	400	400	400	1	1	-92.71	-5	-100	100	98	2.46	40.659		
450	450	450	450	1	1	-92.71	-5	-100	100	97	2.82	35.486 CC		
500	500	498	498	2	2	-58.94	-5	-100	100	97	3.17	31.649 ES		
600	600	595	595	2	2	-60.35	-5	-104	102	98	3.85	26.400		
700	700	691	691	2	2	-63.03	-4	-110	105	101	4.55	23.111		
800	799	787	787	3	3	-66.70	-4	-120	111	105	5.25	21.051		
900	898	886	884	3	3	-71.27	-3	-132	118	112	6.00	19.629		
1000	997	985	982	4	3	-76.82	-2	-145	125	118	6.79	18.395		
1033	1029	1017	1014	4	4	-78.81	-2	-149	127	120	7.05	18.039		
1100	1095	1083	1080	4	4	-82.94	-2	-157	133	125	7.62	17.415		
1200	1193	1182	1178	4	4	-88.44	-1	-169	142	133	8.48	16.737		
1300	1290	1281	1276	5	5	-93.24	0	-182	152	143	9.36	16.279		
1400	1388	1379	1374	5	5	-97.41	0	-194	164	153	10.24	15.977		
1500	1486	1478	1472	6	5	-101.03	1	-207	176	165	11.13	15.785		
1600	1584	1577	1570	6	6	-104.18	2	-219	188	176	12.02	15.671		
1700	1682	1675	1668	7	6	-106.93	2	-232	202	189	12.91	15.610		
1800	1780	1774	1765	7	7	-109.34	3	-244	215	201	13.80	15.588		
1900	1878	1873	1863	8	7	-111.46	4	-257	229	214	14.69	15.592		
2000	1976	1972	1961	8	8	-113.33	4	-269	243	228	15.58	15.615		
2100	2074	2070	2059	9	8	-115.01	5	-282	258	241	16.47	15.651		
2200	2172	2169	2157	9	8	-116.50	6	-294	272	255	17.35	15.696		
2300	2270	2268	2255	10	9	-117.84	6	-307	287	269	18.23	15.746		
2400	2368	2366	2353	10	9	-119.05	7	-319	302	283	19.11	15.800		
2500	2466	2465	2451	11	10	-120.14	8	-332	317	297	19.99	15.856		
2600	2564	2564	2549	11	10	-121.14	8	-344	332	311	20.87	15.914		
2700	2662	2662	2646	12	11	-122.05	9	-357	347	326	21.75	15.971		
2800	2760	2761	2744	13	11	-122.88	10	-369	363	340	22.63	16.028		
2900	2858	2860	2842	13	11	-123.65	10	-382	378	355	23.51	16.084		
3000	2955	2958	2940	14	12	-124.36	11	-394	394	369	24.38	16.139		
3100	3053	3057	3038	14	12	-125.01	12	-407	409	384	25.26	16.193		
3200	3151	3156	3136	15	13	-125.61	12	-419	425	398	26.13	16.245		
3300	3249	3254	3234	15	13	-126.18	13	-432	440	413	27.01	16.296		
3400	3347	3353	3332	16	13	-126.70	14	-444	456	428	27.88	16.346		
3500	3445	3452	3430	16	14	-127.19	14	-457	471	443	28.76	16.393		
3600	3543	3551	3528	17	14	-127.65	15	-469	487	457	29.63	16.439		
3700	3641	3649	3625	17	15	-128.08	16	-482	503	472	30.50	16.484		
3800	3739	3748	3723	18	15	-128.48	16	-494	519	487	31.38	16.527		
3900	3837	3847	3821	18	16	-128.86	17	-507	534	502	32.25	16.569		
4000	3935	3945	3919	19	16	-129.22	17	-519	550	517	33.12	16.609		
4100	4033	4044	4017	19	16	-129.56	18	-532	566	532	33.99	16.648		
4200	4131	4143	4115	20	17	-129.87	19	-544	582	547	34.87	16.685		
4300	4229	4241	4213	20	17	-130.18	19	-557	598	562	35.74	16.721		
4400	4327	4340	4311	21	18	-130.46	20	-569	613	577	36.61	16.756		
4500	4425	4439	4409	21	18	-130.74	21	-582	629	592	37.48	16.790		
4600	4522	4537	4506	22	19	-131.00	21	-594	645	607	38.35	16.823		
4700	4620	4636	4604	22	19	-131.24	22	-607	661	622	39.22	16.854		
4800	4718	4713	4680	23	19	-131.52	22	-615	678	638	39.87	17.004		
4871	4787	4750	4718	23	19	-131.85	20	-618	693	653	40.09	17.284		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 136H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4900	4816	4774	4742	23	20	-135.83	17	-618	699	659	40.23	17.386		
4950	4866	4800	4767	24	20	-150.11	14	-618	710	670	40.27	17.633		
5000	4916	4835	4802	24	20	141.06	9	-617	720	680	40.34	17.844		
5050	4966	4865	4831	24	20	81.06	3	-615	729	689	40.31	18.083		
5100	5015	4900	4865	24	20	68.68	-5	-611	737	697	40.29	18.294		
5150	5064	4925	4889	24	20	63.81	-11	-608	744	704	40.10	18.556		
5200	5112	4950	4913	24	20	61.17	-18	-604	750	711	39.88	18.819		
5250	5159	4985	4946	24	20	59.58	-29	-597	756	716	39.76	19.003		
5300	5205	5016	4973	24	20	58.56	-39	-590	760	720	39.56	19.207		
5350	5248	5050	5004	24	20	57.96	-52	-581	763	724	39.40	19.366		
5400	5289	5076	5026	24	20	57.57	-63	-573	765	726	39.12	19.562		
5450	5329	5100	5046	24	20	57.39	-73	-565	766	728	38.83	19.741		
5500	5365	5136	5076	24	20	57.56	-90	-552	767	728	38.73	19.797		
5550	5399	5167	5100	23	20	57.83	-104	-541	766	727	38.57	19.855		
5600	5430	5200	5125	23	20	58.32	-121	-527	764	726	38.50	19.847		
5650	5457	5228	5146	23	20	58.88	-136	-515	762	723	38.42	19.821		
5700	5481	5250	5161	23	20	59.45	-148	-505	758	720	38.33	19.778		
5750	5502	5290	5187	23	20	60.54	-171	-485	754	715	38.57	19.545		
5800	5519	5321	5207	23	20	61.60	-189	-469	749	710	38.78	19.307		
5850	5533	5350	5223	23	20	62.72	-207	-454	743	704	39.07	19.021		
5900	5542	5384	5242	24	20	64.13	-228	-435	737	697	39.53	18.638		
5950	5548	5416	5258	24	20	65.61	-249	-416	730	690	40.08	18.215		
6002	5550	5450	5273	24	20	67.30	-271	-396	723	682	40.76	17.727		
6100	5549	5517	5299	25	20	69.31	-317	-354	711	668	42.26	16.816		
6200	5548	5591	5319	26	21	70.96	-368	-305	703	659	44.09	15.943		
6300	5548	5669	5332	27	21	72.00	-424	-252	699	653	46.11	15.156		
6400	5547	5752	5335	28	22	72.30	-482	-193	698	649	48.31	14.443		
6500	5546	5852	5334	29	24	72.30	-553	-123	698	647	50.93	13.701		
6600	5545	5952	5333	31	25	72.30	-624	-52	698	644	53.84	12.960		
6700	5545	6052	5332	33	27	72.30	-695	18	698	641	57.00	12.239		
6800	5544	6152	5332	35	28	72.30	-766	89	698	637	60.38	11.554		
6900	5543	6252	5331	36	30	72.30	-837	159	698	634	63.94	10.910		
7000	5542	6352	5330	38	32	72.30	-908	230	698	630	67.66	10.311		
7100	5542	6452	5329	40	34	72.30	-979	300	698	626	71.50	9.756		
7200	5541	6552	5329	42	36	72.30	-1050	371	697	622	75.44	9.245		
7300	5540	6652	5328	45	38	72.30	-1120	441	697	618	79.48	8.775		
7400	5539	6752	5327	47	40	72.30	-1191	512	697	614	83.60	8.342		
7500	5539	6852	5326	49	43	72.30	-1262	583	697	610	87.79	7.944		
7600	5538	6952	5326	51	45	72.30	-1333	653	697	605	92.03	7.578		
7700	5537	7052	5325	53	47	72.30	-1404	724	697	601	96.32	7.239		
7800	5536	7152	5324	56	49	72.29	-1475	794	697	597	100.66	6.927		
7900	5536	7252	5324	58	52	72.29	-1546	865	697	592	105.04	6.638		
8000	5535	7352	5323	60	54	72.29	-1617	935	697	588	109.45	6.371		
8100	5534	7452	5322	63	56	72.29	-1688	1006	697	583	113.88	6.122		
8200	5533	7552	5321	65	59	72.29	-1758	1076	697	579	118.35	5.891		
8300	5533	7652	5321	67	61	72.29	-1829	1147	697	574	122.84	5.675		
8400	5532	7752	5320	70	63	72.29	-1900	1217	697	570	127.35	5.474		
8500	5531	7852	5319	72	66	72.29	-1971	1288	697	565	131.88	5.286		
8600	5530	7952	5318	74	68	72.29	-2042	1358	697	561	136.42	5.109		
8700	5530	8052	5318	77	71	72.29	-2113	1429	697	556	140.98	4.944		
8800	5529	8152	5317	79	73	72.29	-2184	1499	697	551	145.56	4.788		
8900	5528	8252	5316	81	75	72.29	-2255	1570	697	547	150.15	4.642		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 136H - Original Drilling - APD													Offset Site Error:	0 ft	
Survey Program:		0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0 ft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)		Between Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
9000	5527	8352	5315	84	78	72.29	-2325	1641		697	542	154.74	4.504		
9100	5527	8452	5315	86	80	72.29	-2396	1711		697	538	159.35	4.373		
9200	5526	8552	5314	89	83	72.29	-2467	1782		697	533	163.97	4.250		
9300	5525	8652	5313	91	85	72.29	-2538	1852		697	528	168.60	4.133		
9400	5524	8752	5312	93	87	72.29	-2609	1923		697	524	173.24	4.022		
9500	5524	8852	5312	96	90	72.29	-2680	1993		697	519	177.88	3.917		
9600	5523	8952	5311	98	92	72.29	-2751	2064		697	514	182.53	3.817		
9700	5522	9052	5310	101	95	72.29	-2822	2134		697	509	187.19	3.722		
9800	5521	9152	5309	103	97	72.28	-2893	2205		697	505	191.85	3.631		
9900	5521	9252	5309	106	100	72.28	-2963	2275		697	500	196.52	3.545		
10,000	5520	9352	5308	108	102	72.28	-3034	2346		697	495	201.19	3.462		
10,100	5519	9452	5307	110	105	72.28	-3105	2416		697	491	205.87	3.383		
10,200	5518	9552	5306	113	107	72.28	-3176	2487		697	486	210.55	3.308		
10,300	5518	9652	5306	115	109	72.28	-3247	2557		696	481	215.24	3.236		
10,400	5517	9752	5305	118	112	72.28	-3318	2628		696	477	219.93	3.167		
10,500	5516	9852	5304	120	114	72.28	-3389	2698		696	472	224.62	3.100		
10,600	5515	9952	5303	123	117	72.28	-3460	2769		696	467	229.32	3.037		
10,700	5515	10,052	5303	125	119	72.28	-3531	2840		696	462	234.02	2.976		
10,800	5514	10,152	5302	128	122	72.28	-3601	2910		696	458	238.72	2.917		
10,900	5513	10,252	5301	130	124	72.28	-3672	2981		696	453	243.43	2.860		
11,000	5512	10,352	5300	132	127	72.28	-3743	3051		696	448	248.14	2.806		
11,100	5512	10,452	5300	135	129	72.28	-3814	3122		696	443	252.85	2.753		
11,200	5511	10,552	5299	137	132	72.28	-3885	3192		696	439	257.57	2.703		
11,300	5510	10,652	5298	140	134	72.28	-3956	3263		696	434	262.28	2.654		
11,400	5509	10,752	5297	142	137	72.28	-4027	3333		696	429	267.00	2.607		
11,500	5509	10,852	5297	145	139	72.28	-4098	3404		696	424	271.72	2.562		
11,600	5508	10,952	5296	147	141	72.28	-4169	3474		696	420	276.44	2.518		
11,700	5507	11,052	5295	150	144	72.27	-4239	3545		696	415	281.17	2.475		
11,800	5506	11,152	5295	152	146	72.27	-4310	3615		696	410	285.89	2.434		
11,900	5506	11,252	5294	155	149	72.27	-4381	3686		696	405	290.62	2.395		
12,000	5505	11,352	5293	157	151	72.27	-4452	3756		696	401	295.35	2.356		
12,100	5504	11,452	5292	160	154	72.27	-4523	3827		696	396	300.08	2.319		
12,200	5503	11,552	5292	162	156	72.27	-4594	3898		696	391	304.81	2.283		
12,300	5503	11,652	5291	164	159	72.27	-4665	3968		696	386	309.55	2.248		
12,400	5502	11,752	5290	167	161	72.27	-4736	4039		696	382	314.28	2.214		
12,500	5501	11,852	5289	169	164	72.27	-4806	4109		696	377	319.02	2.181		
12,600	5500	11,952	5289	172	166	72.27	-4877	4180		696	372	323.75	2.149		
12,700	5500	12,052	5288	174	169	72.27	-4948	4250		696	367	328.49	2.118		
12,791	5499	12,143	5287	177	171	72.27	-5013	4314		696	363	332.81	2.090 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 137H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	-92.79	-3	-60	60					
100	100	100	100	0	0	-92.79	-3	-60	60	60	0.31	194.226		
200	200	200	200	1	1	-92.79	-3	-60	60	59	1.03	58.404		
300	300	300	300	1	1	-92.79	-3	-60	60	58	1.74	34.369		
400	400	400	400	1	1	-92.79	-3	-60	60	57	2.46	24.349		
450	450	450	450	1	1	-92.79	-3	-60	60	57	2.82	21.251 CC		
500	500	499	499	2	2	-59.10	-3	-60	60	57	3.17	18.961 ES		
600	600	597	597	2	2	-61.17	-2	-64	62	58	3.86	15.962		
700	700	695	694	2	2	-64.97	-1	-70	65	61	4.56	14.262		
800	799	792	791	3	3	-69.91	0	-80	71	65	5.28	13.398		
900	898	889	888	3	3	-75.31	2	-93	79	73	6.02	13.110		
1000	997	988	985	4	3	-81.28	4	-108	89	82	6.82	12.991		
1033	1029	1021	1017	4	4	-83.39	5	-113	92	85	7.10	12.950		
1100	1095	1087	1083	4	4	-87.65	7	-123	99	91	7.68	12.899 SF		
1200	1193	1186	1181	4	4	-92.92	9	-138	111	102	8.56	12.905		
1300	1290	1285	1279	5	5	-97.18	11	-153	123	113	9.46	12.966		
1400	1388	1384	1376	5	5	-100.66	14	-168	135	125	10.37	13.059		
1500	1486	1483	1474	6	6	-103.54	16	-183	149	137	11.29	13.166		
1600	1584	1582	1572	6	6	-105.94	18	-198	162	150	12.21	13.279		
1700	1682	1680	1669	7	6	-107.97	21	-214	176	163	13.13	13.392		
1800	1780	1779	1767	7	7	-109.71	23	-229	190	176	14.05	13.502		
1900	1878	1878	1865	8	7	-111.21	25	-244	204	189	14.97	13.607		
2000	1976	1977	1962	8	8	-112.52	27	-259	218	202	15.90	13.707		
2100	2074	2076	2060	9	8	-113.67	30	-274	232	215	16.82	13.802		
2200	2172	2175	2158	9	9	-114.68	32	-289	247	229	17.74	13.891		
2300	2270	2274	2256	10	9	-115.58	34	-304	261	242	18.67	13.975		
2400	2368	2373	2353	10	10	-116.39	37	-319	275	256	19.59	14.054		
2500	2466	2472	2451	11	10	-117.12	39	-334	290	269	20.52	14.128		
2600	2564	2570	2549	11	11	-117.78	41	-349	304	283	21.44	14.197		
2700	2662	2669	2646	12	11	-118.38	44	-364	319	297	22.37	14.263		
2800	2760	2768	2744	13	11	-118.92	46	-379	334	310	23.29	14.324		
2900	2858	2867	2842	13	12	-119.42	48	-394	348	324	24.22	14.382		
3000	2955	2966	2939	14	12	-119.88	50	-409	363	338	25.14	14.437		
3100	3053	3065	3037	14	13	-120.31	53	-424	378	352	26.07	14.488		
3200	3151	3164	3135	15	13	-120.70	55	-439	392	365	26.99	14.537		
3300	3249	3263	3232	15	14	-121.06	57	-454	407	379	27.92	14.583		
3400	3347	3361	3330	16	14	-121.40	60	-469	422	393	28.84	14.627		
3500	3445	3460	3428	16	15	-121.72	62	-485	437	407	29.77	14.668		
3600	3543	3559	3526	17	15	-122.01	64	-500	451	421	30.69	14.707		
3700	3641	3658	3623	17	16	-122.29	67	-515	466	435	31.62	14.744		
3800	3739	3757	3721	18	16	-122.55	69	-530	481	448	32.54	14.780		
3900	3837	3856	3819	18	17	-122.79	71	-545	496	462	33.46	14.814		
4000	3935	3955	3916	19	17	-123.02	73	-560	511	476	34.39	14.846		
4100	4033	4054	4014	19	17	-123.24	76	-575	525	490	35.31	14.877		
4200	4131	4152	4112	20	18	-123.44	78	-590	540	504	36.24	14.906		
4300	4229	4251	4209	20	18	-123.64	80	-605	555	518	37.16	14.934		
4400	4327	4350	4307	21	19	-123.82	83	-620	570	532	38.09	14.961		
4500	4425	4449	4405	21	19	-124.00	85	-635	585	546	39.01	14.986		
4600	4522	4548	4503	22	20	-124.16	87	-650	600	560	39.94	15.011		
4700	4620	4647	4600	22	20	-124.32	90	-665	614	574	40.86	15.035		
4800	4718	4746	4698	23	21	-124.47	92	-680	629	587	41.79	15.057		
4871	4787	4815	4767	23	21	-124.57	93	-691	640	597	42.44	15.073		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 137H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4900	4816	4848	4799	23	21	-128.08	94	-696	644	601	42.74	15.064		
4950	4866	4933	4882	24	22	-140.63	101	-713	648	604	43.52	14.889		
5000	4916	5013	4957	24	22	153.74	115	-737	648	604	44.27	14.641		
5050	4966	5083	5020	24	23	97.77	132	-762	646	601	44.97	14.354		
5100	5015	5141	5069	24	23	89.66	151	-787	641	596	45.61	14.063		
5150	5064	5187	5106	24	23	88.75	167	-809	637	591	46.16	13.808		
5200	5112	5223	5133	24	24	89.43	182	-826	635	588	46.57	13.627		
5238	5148	5243	5148	24	24	90.07	191	-837	634	587	46.74	13.560		
5250	5159	5249	5152	24	24	90.26	193	-840	634	587	46.78	13.553		
5300	5205	5267	5165	24	24	90.74	202	-850	636	589	46.77	13.601		
5350	5248	5280	5174	24	24	90.68	207	-857	642	595	46.54	13.788		
5400	5289	5287	5179	24	25	90.04	211	-861	651	604	46.09	14.115		
5450	5329	5290	5181	24	25	88.81	212	-863	663	617	45.46	14.578		
5500	5365	5289	5180	24	25	87.03	212	-862	678	633	44.72	15.166		
5550	5399	5286	5178	23	25	84.76	210	-861	696	653	43.90	15.865		
5600	5430	5280	5174	23	24	82.05	207	-857	717	674	43.07	16.655		
5650	5457	5272	5169	23	24	78.99	204	-853	740	698	42.26	17.514		
5700	5481	5263	5162	23	24	75.67	200	-848	765	723	41.51	18.420		
5750	5502	5250	5153	23	24	72.02	194	-841	790	749	40.80	19.369		
5800	5519	5250	5153	23	24	69.31	194	-841	817	777	40.46	20.192		
5850	5533	5227	5136	23	24	65.03	184	-829	844	804	39.83	21.192		
5900	5542	5213	5126	24	24	61.55	178	-822	871	832	39.48	22.070		
5950	5548	5200	5116	24	24	58.29	173	-815	899	859	39.26	22.887		
6002	5550	5182	5102	24	23	54.93	166	-806	927	888	39.08	23.710		
6100	5549	5150	5076	25	23	53.31	154	-791	981	942	38.94	25.195		
6200	5548	5128	5058	26	23	52.19	146	-781	1042	1003	39.09	26.651		
6300	5548	5100	5034	27	23	50.82	137	-769	1107	1068	39.24	28.215		
6400	5547	5084	5020	28	23	50.00	132	-763	1176	1137	39.57	29.727		
6500	5546	5050	4991	29	22	48.35	123	-750	1249	1209	39.71	31.457		
6600	5545	5050	4991	31	22	48.35	123	-750	1325	1284	40.20	32.944		
6700	5545	5033	4975	33	22	47.53	119	-744	1403	1362	40.50	34.636		
6800	5544	5019	4963	35	22	46.87	116	-739	1483	1442	40.79	36.355		
6900	5543	5000	4945	36	22	45.94	112	-733	1565	1524	41.02	38.162		
7000	5542	5000	4945	38	22	45.94	112	-733	1649	1608	41.35	39.878		
7100	5542	5000	4945	40	22	45.94	112	-733	1735	1693	41.65	41.647		
7200	5541	4975	4922	42	22	44.78	107	-725	1821	1779	41.78	43.590		
7300	5540	4950	4898	45	22	43.61	103	-718	1909	1867	41.89	45.578		
7400	5539	4950	4898	47	22	43.61	103	-718	1998	1956	42.12	47.432		
7500	5539	4950	4898	49	22	43.61	103	-718	2088	2045	42.33	49.318		
7600	5538	4950	4898	51	22	43.61	103	-718	2178	2136	42.52	51.233		
7700	5537	4950	4898	53	22	43.61	103	-718	2270	2227	42.68	53.172		
7800	5536	4950	4898	56	22	43.61	103	-718	2362	2319	42.84	55.133		
7900	5536	4925	4874	58	22	42.49	100	-711	2454	2411	42.88	57.218		
8000	5535	4900	4850	60	21	41.39	97	-706	2547	2504	42.93	59.337		
8100	5534	4900	4850	63	21	41.39	97	-706	2640	2597	43.05	61.330		
8200	5533	4900	4850	65	21	41.39	97	-706	2734	2691	43.17	63.337		
8300	5533	4900	4850	67	21	41.39	97	-706	2828	2785	43.27	65.356		
8400	5532	4900	4850	70	21	41.39	97	-706	2923	2879	43.37	67.386		
8500	5531	4900	4850	72	21	41.39	97	-706	3018	2974	43.47	69.425		
8600	5530	4900	4850	74	21	41.39	97	-706	3113	3069	43.55	71.473		
8700	5530	4900	4850	77	21	41.39	97	-706	3208	3165	43.63	73.527		
8800	5529	4900	4850	79	21	41.39	97	-706	3304	3260	43.71	75.588		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - # 137H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
8900	5528	4900	4850	81	21	41.39	97	-706	3400	3356	43.79	77.653	
9000	5527	4900	4850	84	21	41.39	97	-706	3496	3453	43.86	79.723	
9100	5527	4877	4827	86	21	40.40	96	-701	3592	3548	43.87	81.888	
9200	5526	4874	4825	89	21	40.28	95	-700	3689	3645	43.93	83.974	
9300	5525	4871	4822	91	21	40.17	95	-700	3786	3742	43.99	86.062	
9400	5524	4850	4801	93	21	39.28	94	-696	3883	3839	44.00	88.245	
9500	5524	4850	4801	96	21	39.28	94	-696	3980	3936	44.06	90.323	
9600	5523	4850	4801	98	21	39.28	94	-696	4077	4033	44.12	92.402	
9700	5522	4850	4801	101	21	39.28	94	-696	4174	4130	44.18	94.482	
9800	5521	4850	4801	103	21	39.28	94	-696	4271	4227	44.23	96.562	
9900	5521	4850	4801	106	21	39.28	94	-696	4369	4324	44.29	98.642	
10,000	5520	4850	4801	108	21	39.28	94	-696	4466	4422	44.34	100.723	
10,100	5519	4850	4801	110	21	39.28	94	-696	4564	4519	44.39	102.802	
10,200	5518	4850	4801	113	21	39.28	94	-696	4662	4617	44.45	104.881	
10,300	5518	4850	4801	115	21	39.28	94	-696	4759	4715	44.50	106.958	
10,400	5517	4850	4801	118	21	39.28	94	-696	4857	4813	44.55	109.034	
10,500	5516	4850	4801	120	21	39.28	94	-696	4955	4911	44.60	111.108	
10,600	5515	4845	4796	123	21	39.08	94	-695	5053	5009	44.64	113.204	
10,700	5515	4840	4791	125	21	38.87	94	-695	5152	5107	44.68	115.298	
10,800	5514	4840	4791	128	21	38.87	94	-695	5250	5205	44.73	117.365	
10,900	5513	4840	4791	130	21	38.87	94	-695	5348	5303	44.78	119.430	
11,000	5512	4832	4783	132	21	38.56	94	-693	5446	5402	44.82	121.530	
11,100	5512	4819	4770	135	21	38.04	94	-691	5545	5500	44.84	123.654	
11,200	5511	4806	4757	137	21	37.53	93	-689	5643	5598	44.87	125.775	
11,300	5510	4793	4744	140	21	37.02	93	-687	5742	5697	44.89	127.893	
11,400	5509	4780	4731	142	21	36.53	93	-685	5840	5795	44.92	130.007	
11,500	5509	4766	4719	145	21	36.05	92	-683	5939	5894	44.95	132.117	
11,600	5508	4753	4706	147	21	35.58	92	-681	6037	5992	44.98	134.224	
11,700	5507	4740	4693	150	21	35.11	92	-679	6136	6091	45.01	136.327	
11,800	5506	4727	4680	152	21	34.66	91	-677	6234	6189	45.04	138.426	
11,900	5506	4714	4667	155	20	34.21	91	-675	6333	6288	45.07	140.521	
12,000	5505	4701	4654	157	20	33.77	91	-673	6431	6386	45.10	142.612	
12,100	5504	4688	4641	160	20	33.34	91	-671	6530	6485	45.13	144.698	
12,200	5503	4675	4628	162	20	32.92	90	-669	6628	6583	45.16	146.780	
12,300	5503	4662	4615	164	20	32.50	90	-667	6727	6682	45.19	148.858	
12,400	5502	4648	4602	167	20	32.10	90	-665	6826	6780	45.22	150.931	
12,500	5501	4635	4589	169	20	31.70	89	-663	6924	6879	45.26	152.999	
12,600	5500	4622	4576	172	20	31.30	89	-661	7023	6978	45.29	155.062	
12,700	5500	4609	4563	174	20	30.92	89	-659	7122	7076	45.33	157.121	
12,791	5499	4597	4551	177	20	30.57	88	-658	7212	7166	45.36	158.993	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - Mesa #4 SWD - OH - OH													Offset Site Error: 0 ft		
Survey Program: Reference		190-INCLINOMETER Offset				Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0	0	11	11	0	0	103.70	-941	3861	3974						
100	100	111	111	0	3	103.70	-941	3861	3974	3971	3.53	1,127.347			
200	200	211	211	1	6	103.70	-941	3861	3974	3967	6.92	574.241			
300	300	311	311	1	9	103.70	-941	3861	3974	3964	10.32	385.241			
349	349	360	360	1	11	103.69	-941	3861	3974	3962	11.99	331.539			
400	400	409	409	1	12	103.69	-941	3861	3974	3960	13.66	290.982			
450	450	457	457	1	14	103.69	-941	3861	3974	3959	15.30	259.709			
500	500	506	506	2	15	137.65	-941	3861	3974	3957	16.95	234.536			
600	600	611	611	2	19	137.65	-941	3861	3977	3956	20.50	194.020			
700	700	711	711	2	22	137.65	-941	3861	3982	3958	23.89	166.699			
800	799	810	810	3	25	137.64	-941	3861	3990	3963	27.28	146.279			
900	898	909	909	3	28	137.64	-941	3861	4000	3970	30.66	130.470			
1000	997	1008	1008	4	31	137.63	-941	3861	4013	3979	34.04	117.889			
1033	1029	1040	1040	4	32	137.62	-941	3861	4018	3983	35.14	114.328			
1100	1095	1106	1106	4	34	137.75	-941	3861	4028	3991	37.42	107.644			
1200	1193	1204	1204	4	37	137.94	-941	3861	4043	4002	40.80	99.092			
1300	1290	1300	1300	5	39	138.11	-940	3861	4058	4014	44.13	91.954			
1400	1388	1394	1394	5	42	138.30	-940	3861	4073	4026	47.42	85.902			
1500	1486	1497	1497	6	45	138.51	-941	3861	4089	4038	50.98	80.202			
1600	1584	1595	1595	6	48	138.69	-941	3861	4104	4050	54.38	75.472			
1700	1682	1693	1693	7	51	138.87	-941	3861	4119	4062	57.78	71.296			
1800	1780	1790	1790	7	54	139.04	-940	3861	4134	4073	61.13	67.635			
1900	1878	1884	1884	8	57	139.22	-940	3861	4150	4086	64.42	64.424			
2000	1976	1978	1978	8	60	139.40	-941	3861	4166	4098	67.70	61.529			
2100	2074	2085	2085	9	63	139.60	-941	3861	4181	4110	71.39	58.570			
2200	2172	2183	2183	9	66	139.77	-941	3861	4197	4122	74.79	56.113			
2300	2270	2279	2279	10	69	139.94	-940	3861	4212	4134	78.12	53.917			
2400	2368	2373	2373	10	72	140.11	-941	3861	4228	4146	81.42	51.928			
2500	2466	2477	2477	11	75	140.30	-941	3861	4243	4158	85.00	49.924			
2600	2564	2575	2575	11	78	140.47	-941	3861	4259	4171	88.40	48.180			
2700	2662	2673	2673	12	81	140.64	-941	3861	4275	4183	91.80	46.566			
2800	2760	2767	2767	13	84	140.79	-940	3861	4290	4195	95.09	45.117			
2900	2858	2861	2861	13	87	140.96	-941	3861	4306	4208	98.37	43.778			
3000	2955	2967	2966	14	90	141.15	-941	3861	4322	4220	102.01	42.372			
3100	3053	3065	3064	14	93	141.31	-941	3861	4338	4233	105.41	41.156			
3200	3151	3163	3162	15	96	141.48	-941	3861	4354	4245	108.81	40.017			
3300	3249	3256	3256	15	99	141.62	-940	3861	4370	4258	112.07	38.991			
3400	3347	3349	3349	16	102	141.78	-941	3861	4386	4271	115.32	38.033			
3500	3445	3457	3456	16	105	141.96	-941	3861	4402	4283	119.00	36.990			
3600	3543	3554	3554	17	108	142.12	-941	3861	4418	4296	122.40	36.095			
3700	3641	3652	3651	17	111	142.27	-940	3861	4434	4308	125.78	35.250			
3800	3739	3745	3744	18	114	142.42	-940	3861	4450	4321	129.03	34.489			
3900	3837	3838	3837	18	117	142.58	-941	3861	4466	4334	132.27	33.767			
4000	3935	3946	3946	19	120	142.75	-941	3861	4483	4347	135.99	32.963			
4100	4033	4044	4044	19	123	142.91	-941	3861	4499	4359	139.38	32.276			
4200	4131	4142	4141	20	126	143.05	-940	3861	4515	4372	142.76	31.624			
4300	4229	4236	4235	20	129	143.20	-940	3861	4531	4385	146.04	31.026			
4400	4327	4330	4329	21	131	143.35	-941	3861	4548	4398	149.31	30.456			
4500	4425	4436	4436	21	135	143.51	-941	3861	4564	4411	152.96	29.838			
4600	4522	4534	4533	22	138	143.66	-941	3861	4580	4424	156.35	29.295			
4700	4620	4632	4631	22	141	143.81	-941	3861	4597	4437	159.74	28.776			
4800	4718	4650	4649	23	141	143.84	-941	3861	4614	4453	160.65	28.720			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - Mesa #4 SWD - OH - OH											Offset Site Error:	0 ft
Survey Program: 190-INCLINOMETER											Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4871	4787	4650	4649	23	141	143.84	-941	3861	4627	4466	160.86	28.766
4900	4816	4650	4649	23	141	140.85	-941	3861	4632	4472	160.93	28.786
4950	4866	4650	4649	24	141	127.87	-941	3861	4639	4478	161.02	28.810
5000	4916	4650	4649	24	141	60.16	-941	3861	4643	4481	161.07	28.823
5050	4966	4650	4649	24	141	0.97	-941	3861	4643	4482	161.08	28.824
5100	5015	4650	4649	24	141	-10.83	-941	3861	4640	4479	161.05	28.814
5150	5064	4650	4649	24	141	-15.39	-941	3861	4635	4474	160.99	28.791
5200	5112	4650	4649	24	141	-17.95	-941	3861	4626	4465	160.89	28.755
5250	5159	4650	4649	24	141	-19.75	-941	3861	4615	4454	160.76	28.707
5300	5205	4650	4649	24	141	-21.24	-941	3861	4600	4440	160.60	28.645
5350	5248	4650	4649	24	141	-22.61	-941	3861	4583	4423	160.41	28.571
5400	5289	4650	4649	24	141	-23.98	-941	3861	4563	4403	160.21	28.482
5450	5329	4650	4649	24	141	-25.43	-941	3861	4540	4380	159.98	28.380
5500	5365	4650	4649	24	141	-27.01	-941	3861	4515	4355	159.74	28.264
5550	5399	4650	4649	23	141	-28.78	-941	3861	4487	4328	159.49	28.134
5600	5430	4650	4649	23	141	-30.79	-941	3861	4457	4298	159.24	27.989
5650	5457	4650	4649	23	141	-33.10	-941	3861	4424	4265	158.99	27.829
5700	5481	4650	4649	23	141	-35.79	-941	3861	4390	4231	158.74	27.655
5750	5502	4650	4649	23	141	-38.93	-941	3861	4354	4195	158.51	27.465
5800	5519	4650	4649	23	141	-42.61	-941	3861	4316	4157	158.31	27.261
5850	5533	4650	4649	23	141	-46.93	-941	3861	4276	4118	158.12	27.042
5900	5542	4650	4649	24	141	-51.98	-941	3861	4235	4077	157.97	26.809
5950	5548	4650	4649	24	141	-57.85	-941	3861	4193	4035	157.86	26.563
6002	5550	4650	4649	24	141	-64.89	-941	3861	4148	3990	157.79	26.290
6100	5549	4650	4649	25	141	-64.89	-941	3861	4064	3906	157.72	25.768
6200	5548	4650	4649	26	141	-64.89	-941	3861	3979	3821	157.74	25.224
6300	5548	4650	4649	27	141	-64.89	-941	3861	3894	3736	157.83	24.670
6400	5547	4650	4649	28	141	-64.89	-941	3861	3810	3652	158.03	24.108
6500	5546	4650	4649	29	141	-64.89	-941	3861	3726	3568	158.32	23.537
6600	5545	4650	4649	31	141	-64.89	-941	3861	3644	3485	158.72	22.958
6700	5545	4650	4649	33	141	-64.89	-941	3861	3562	3403	159.24	22.372
6800	5544	4650	4649	35	141	-64.89	-941	3861	3482	3322	159.87	21.779
6900	5543	4650	4649	36	141	-64.89	-941	3861	3402	3242	160.62	21.182
7000	5542	4650	4649	38	141	-64.89	-941	3861	3324	3162	161.49	20.581
7100	5542	4650	4649	40	141	-64.89	-941	3861	3246	3084	162.49	19.979
7200	5541	4650	4649	42	141	-64.89	-941	3861	3170	3007	163.61	19.378
7300	5540	4650	4649	45	141	-64.89	-941	3861	3096	2931	164.85	18.779
7400	5539	4650	4649	47	141	-64.89	-941	3861	3022	2856	166.22	18.184
7500	5539	4650	4649	49	141	-64.89	-941	3861	2951	2783	167.71	17.595
7600	5538	4650	4649	51	141	-64.89	-941	3861	2881	2712	169.32	17.015
7700	5537	4650	4649	53	141	-64.89	-941	3861	2813	2642	171.05	16.444
7800	5536	4650	4649	56	141	-64.89	-941	3861	2747	2574	172.90	15.886
7900	5536	4650	4649	58	141	-64.89	-941	3861	2683	2508	174.87	15.341
8000	5535	4650	4649	60	141	-64.89	-941	3861	2621	2444	176.95	14.811
8100	5534	4650	4649	63	141	-64.89	-941	3861	2561	2382	179.14	14.298
8200	5533	4650	4649	65	141	-64.89	-941	3861	2505	2323	181.43	13.804
8300	5533	4650	4649	67	141	-64.89	-941	3861	2450	2267	183.82	13.331
8400	5532	4650	4649	70	141	-64.89	-941	3861	2399	2213	186.31	12.878
8500	5531	4650	4649	72	141	-64.89	-941	3861	2351	2163	188.88	12.449
8600	5530	4650	4649	74	141	-64.89	-941	3861	2307	2115	191.52	12.045
8700	5530	4650	4649	77	141	-64.89	-941	3861	2266	2071	194.22	11.666
8800	5529	4650	4649	79	141	-64.89	-941	3861	2228	2031	196.96	11.313



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: L16 2408 Pad - Mesa #4 SWD - OH - OH											Offset Site Error:	0 ft
Survey Program: 190-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
8900	5528	4650	4649	81	141	-64.89	-941	3861	2195	1995	199.74	10.989
9000	5527	4650	4649	84	141	-64.89	-941	3861	2166	1963	202.53	10.693
9100	5527	4650	4649	86	141	-64.89	-941	3861	2141	1935	205.31	10.426
9200	5526	4650	4649	89	141	-64.89	-941	3861	2120	1912	208.07	10.189
9300	5525	4650	4649	91	141	-64.89	-941	3861	2104	1893	210.77	9.982
9400	5524	4650	4649	93	141	-64.89	-941	3861	2092	1879	213.41	9.805
9500	5524	4650	4649	96	141	-64.89	-941	3861	2086	1870	215.95	9.659
9589	5523	4650	4649	98	141	-64.89	-941	3861	2084	1866	218.12	9.554 CC
9600	5523	4650	4649	98	141	-64.89	-941	3861	2084	1866	218.38	9.543 ES
9700	5522	4650	4649	101	141	-64.89	-941	3861	2087	1866	220.68	9.456
9800	5521	4650	4649	103	141	-64.89	-941	3861	2094	1872	222.83	9.400
9900	5521	4650	4649	106	141	-64.89	-941	3861	2107	1882	224.82	9.372
10,000	5520	4650	4649	108	141	-64.89	-941	3861	2124	1897	226.64	9.371 SF
10,100	5519	4650	4649	110	141	-64.89	-941	3861	2146	1917	228.29	9.399
10,200	5518	4650	4649	113	141	-64.89	-941	3861	2172	1942	229.75	9.452
10,300	5518	4650	4649	115	141	-64.89	-941	3861	2202	1971	231.04	9.530
10,400	5517	4650	4649	118	141	-64.89	-941	3861	2236	2004	232.15	9.632
10,500	5516	4650	4649	120	141	-64.89	-941	3861	2274	2041	233.09	9.757
10,600	5515	4650	4649	123	141	-64.89	-941	3861	2316	2082	233.87	9.903
10,700	5515	4650	4649	125	141	-64.89	-941	3861	2361	2127	234.49	10.070
10,800	5514	4650	4649	128	141	-64.89	-941	3861	2410	2175	234.98	10.257
10,900	5513	4650	4649	130	141	-64.89	-941	3861	2462	2226	235.33	10.461
11,000	5512	4650	4649	132	141	-64.89	-941	3861	2516	2281	235.57	10.682
11,100	5512	4650	4649	135	141	-64.89	-941	3861	2574	2338	235.70	10.920
11,200	5511	4650	4649	137	141	-64.89	-941	3861	2634	2398	235.74	11.172
11,300	5510	4650	4649	140	141	-64.89	-941	3861	2696	2460	235.70	11.439
11,400	5509	4650	4649	142	141	-64.89	-941	3861	2761	2525	235.58	11.719
11,500	5509	4650	4649	145	141	-64.89	-941	3861	2827	2592	235.40	12.011
11,600	5508	4650	4649	147	141	-64.89	-941	3861	2896	2661	235.16	12.314
11,700	5507	4650	4649	150	141	-64.89	-941	3861	2966	2731	234.88	12.628
11,800	5506	4650	4649	152	141	-64.89	-941	3861	3038	2804	234.55	12.953
11,900	5506	4650	4649	155	141	-64.89	-941	3861	3112	2877	234.20	13.286
12,000	5505	4650	4649	157	141	-64.89	-941	3861	3187	2953	233.82	13.629
12,100	5504	4650	4649	160	141	-64.89	-941	3861	3263	3029	233.41	13.979
12,200	5503	4650	4649	162	141	-64.89	-941	3861	3340	3107	232.99	14.337
12,300	5503	4650	4649	164	141	-64.89	-941	3861	3419	3187	232.55	14.703
12,400	5502	4650	4649	167	141	-64.89	-941	3861	3499	3267	232.11	15.075
12,500	5501	4650	4649	169	141	-64.89	-941	3861	3580	3348	231.66	15.453
12,600	5500	4650	4649	172	141	-64.89	-941	3861	3662	3430	231.20	15.837
12,700	5500	4650	4649	174	141	-64.89	-941	3861	3744	3513	230.74	16.227
12,791	5499	4650	4649	177	141	-64.89	-941	3861	3820	3590	230.32	16.587



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6794' & RKB 14' @ 6808ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 135H - Slot 6
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.08°





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 135H - Slot 6
Project:	Crow Canyon Unit	TVD Reference:	GL 6794' & RKB 14' @ 6808ft
Reference Site:	L16 2408 Pad	MD Reference:	GL 6794' & RKB 14' @ 6808ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 135H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6794' & RKB 14' @ 6808ft

Offset Depths are relative to Offset Datum

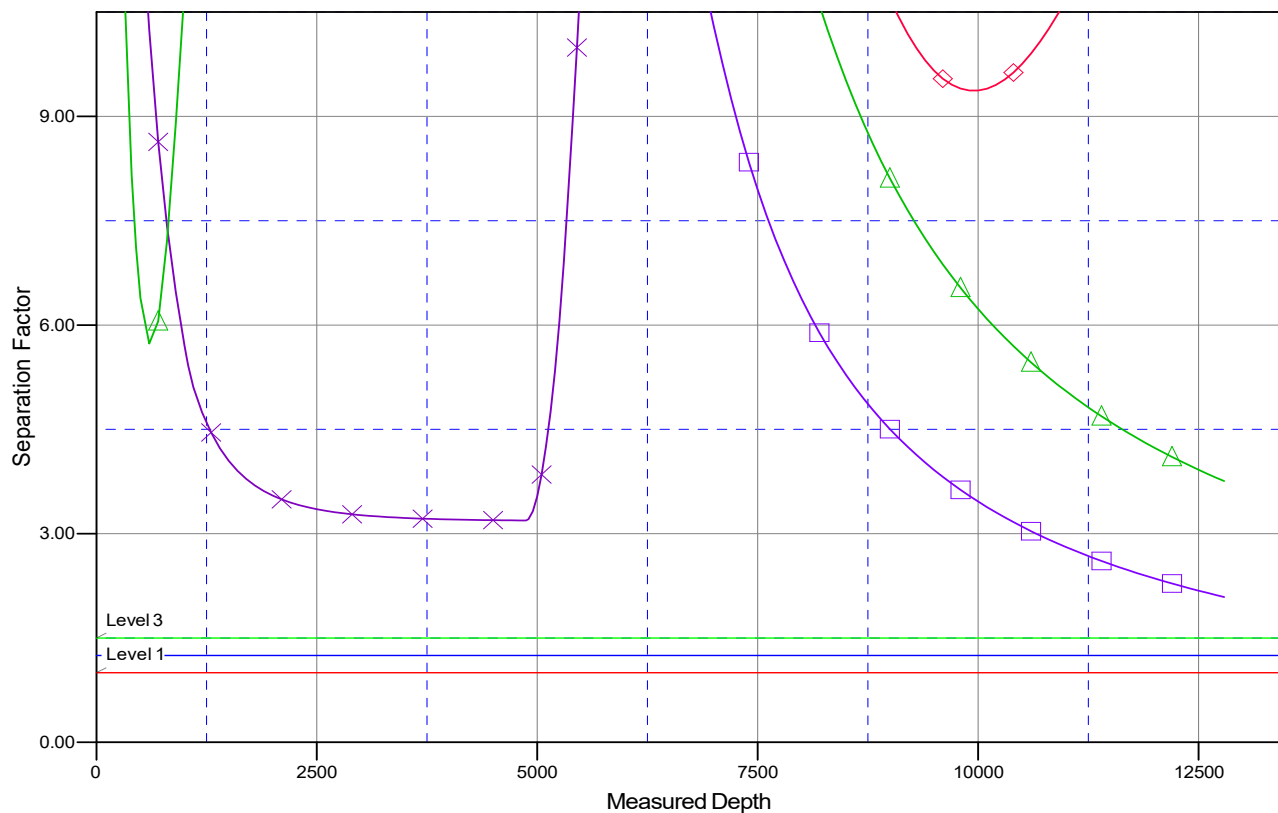
Central Meridian is -107.83333333

Coordinates are relative to: # 135H - Slot 6

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

- #136H, Original Drilling, APD V0
- #131H, Original Drilling, APD V0
- #130H, Original Drilling, APD V0
- #134H, Original Drilling, APD V0
- #137H, Original Drilling, APD V0
- Mesa #4 SWD, OH, OH V0



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

#135H CROW CANYON UNIT

Lease: NMNM093774 Unit: NMNM135203A
SH: NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16, T. 24 N., R. 8 W.
San Juan County, New Mexico
BH: SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21, T.24 N., R. 8 W.
San Juan County, New Mexico

***Above Data Required on Well Sign**

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

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

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☒ Test all casing strings below the conductor 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. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- D. ☐ 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.
- E. ☐ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. 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 sundry within three business days. **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 Virgil Lucero at 505-793-1836.**
- J. **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.**
- K. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

- L. 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 times, unless the well is secured with blowout preventers or cement plugs.
- M. 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.
- N. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

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 online through AFMSS 2 within 30 days after the work is completed.
 - 1. Provide 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 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 way 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 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.
- C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

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, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. 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 beginning of flowback following completion or recompletion.*

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 to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.I.
- 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.I. 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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 471671

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 471671
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
scrues76	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/6/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/6/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/18/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/18/2025
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.	7/18/2025
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.	7/18/2025