

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. 30-045-38318	
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)

APPROVED WITH CONDITIONS

Approval Date: 08/18/2023

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38318	² Pool Code 5860	³ Pool Name BISTI, S-GALLUP (O)
⁴ Property Code 334695	⁵ Property Name PONDEROSA	⁶ Well Number 114H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6801

¹⁰ Surface Location

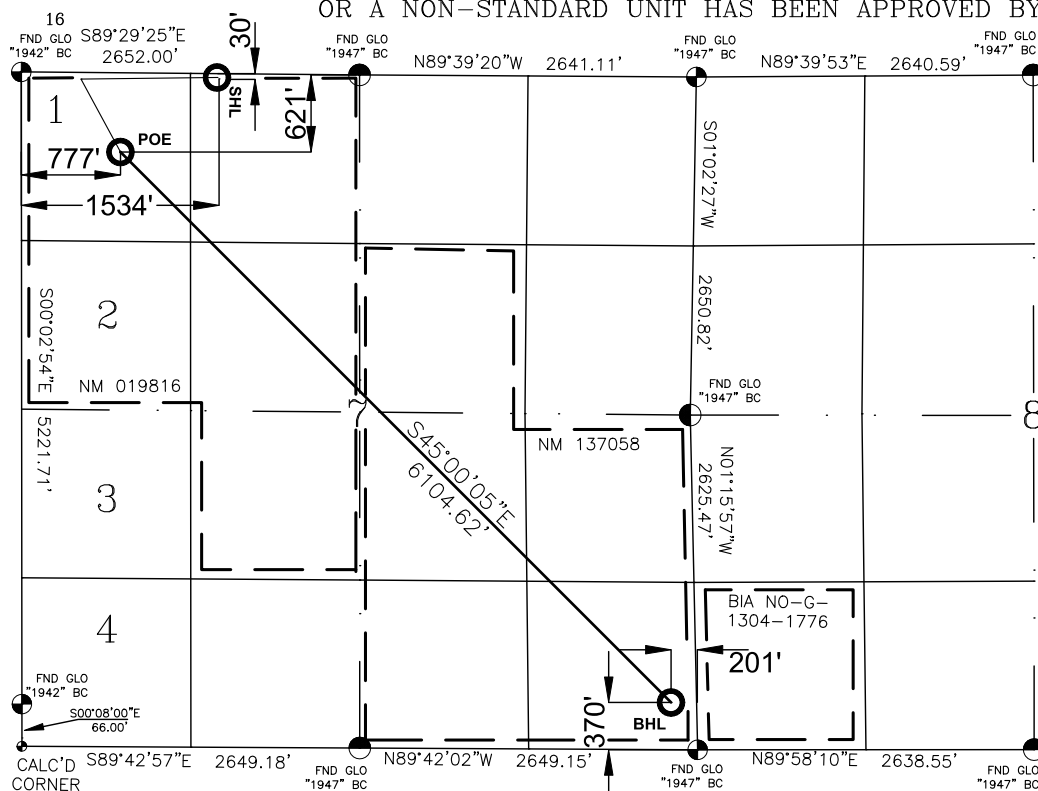
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	7	23-N	9-W		30	NORTH	1534	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	23-N	9-W		370	SOUTH	201	EAST	SAN JUAN

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



DETAIL: DEDICATED ACRES

SEC. 7: LOT 1, LOT 2, E2/NW, NE/SW
SW/NE, SE/4 (400.52 ACRES)

SEC. 8: SW/SW, (40 ACRES)

TOTAL = 440.52 ACRES

SURFACE (SHL)

30' FNL, 1534' FWL SEC. 7
LAT: 36.2486096° N
LONG: 107.8339218° W NAD83

POINT OF ENTRY (POE)

621' FNL, 777' FWL SEC. 7
LAT: 36.2470036° N
LONG: 107.8364850° W NAD83

BOTTOM HOLE (BHL)

370' FSL, 201' FEL SEC. 7
LAT: 36.2351682° N
LONG: 107.8218307° W NAD83

17 OPERATOR CERTIFICATION

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

Shaw-Marie Ford 03/18/22

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

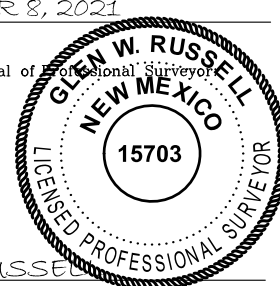
18 SURVEYOR CERTIFICATION

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

NOVEMBER 8, 2021

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: DJR Operating, LLC **OGRID:** 371838 **Date:** 09 / 06 / 2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Ponderosa 114H	TBD	C-07-23N-09W	30 FNL x 1534 FWL	383	488	136
Ponderosa 115H	TBD	N-06-23N-09W	4 FSL x 1485 FWL	407	519	145
Ponderosa 116H	TBD	C-07-23N-09W	7 FNL x 1502 FWL	420	535	149
Ponderosa 120H	TBD	C-07-23N-09W	19 FNL x 1518 FWL	371	472	132
Ponderosa 136H	TBD	C-07-23N-09W	41 FNL x 1550 FWL	337	430	120

IV. Central Delivery Point Name: Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Ponderosa 114H	TBD	07/01/2024	07/08/2024	08/15/2024	08/25/2024	08/27/2024
Ponderosa 115H	TBD	07/08/2024	07/15/2024	08/15/2024	08/27/2024	08/29/2024
Ponderosa 116H	TBD	07/15/2024	07/22/2024	08/15/2024	08/28/2024	08/30/2024
Ponderosa 120H	TBD	07/22/2024	07/29/2024	08/15/2024	08/29/2024	09/01/2024
Ponderosa 136H	TBD	07/29/2024	08/06/2024	08/15/2024	08/30/2024	09/02/2024

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

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

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

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrlc.com
Date: 09/06/2023
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa 114H, 115H, 116H, 120H and 136H
NENW C-07-23N-09W

SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa 114H, 115H, 116H, 120H and 136H
NENW C-07-23N-09W

VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa 114H, 115H, 116H, 120H and 136H
NENW C-07-23N-09W

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa 114H, 115H, 116H, 120H and 136H
NENW C-07-23N-09W

BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 0



DRILLING PLAN

Ponderosa #114H

San Juan County, New Mexico

Surface Location

1534-ft FWL & 30-ft FNL
 Sec 7 T23 R9
 Graded Elevation 6801' MSL
 RKB Elevation 6815' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2486096° N
 Longitude 107.8339218° W

Kick Off Point for Horizontal Build Curve

4209-ft MD
 4040-ft TVD

Local Coordinates (from SHL)

12-ft South
 1066-ft West

Heel Location (Pay zone entry)

777-ft FWL & 621-ft FNL
 Sec 7 T23 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.24700357° N
 Longitude 107.83648495° W

Bottom Hole Location (TD)

201-ft FEL & 370-ft FSL
 Sec 7 T23 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.2351682° N
 Longitude 107.8218307° W

Well objectives

This well is planned as a 6100-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 134°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	406	406	Sd	W	8.3	8.4 – 8.8
Kirtland	514	514	Sh	-	8.3	8.4 – 8.8
Fruitland	901	899	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1158	1151	Sd	W	8.3	9.0 - 9.5
Lewis	1329	1315	Sh	-		9.0 - 9.5
Chacra	1994	1945	Sd	-	8.3	9.0 - 9.5
Menefee	2653	2568	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3717	3575	Sd	-	8.3	9.0 - 9.5
Mancos	3880	3729	Sh	-		9.0 - 9.5
Mancos Silt	4202	4034	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4762	4550	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4835	4604	Sd	O/G	6.6	8.8 - 9.0
Gallup C	5006	4708	Sd	O/G	6.6	8.8 - 9.0
Target	5358	4798	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	5297	surf	4796	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5010	11460	4710	4764	5010

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	3709-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	359	254
Volume (bbls)	150	68
Volume (cu.ft.)	841	379
Excess %	55	55



Rev 0

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5010-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	541
Volume (bbls)	151
Volume (cu.ft)	846
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 – 5297	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5297 – 11460	8.8 – 9.2	34 – 38	6 – 8	6 – 8

Cores, tests and logs

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

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

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

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

Cuttings and drilling fluids management

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

Completion

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



Company: DJR Operating
Project: Ponderosa Unit
Site: C07 2309
Well: # 114H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: # 114H

	North	East	Lat	Long
GL 6801' & RKB 14' @ 6815ft				
+N/-S	0	1909792.38	36.24860960	-107.83392180
North	1909792.38	2722918.15	36.24860960	-107.83392180
East	2722918.15			

DESIGN TARGET DETAILS

	+N/-S	+E/-W	North	East	Lat	Long
114H Heel	4798	-766	1909207.76	2722162.37	36.24700357	-107.83648495
114H Toe	4764	-4893	1904899.61	2726483.87	36.23516820	-107.82183070

PROJECT DETAILS: Ponderosa Unit

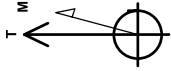
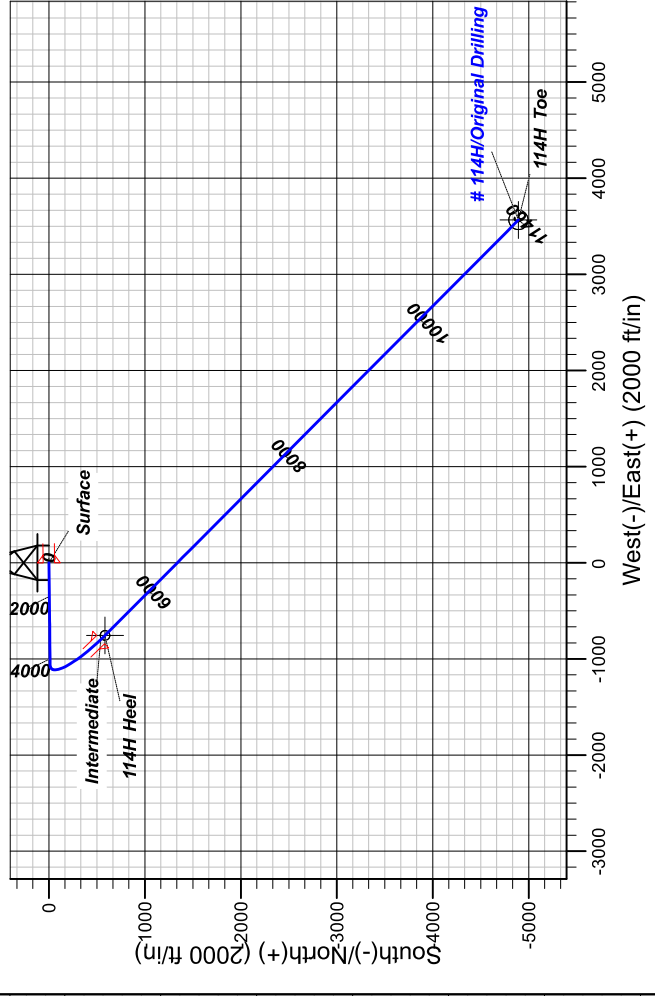
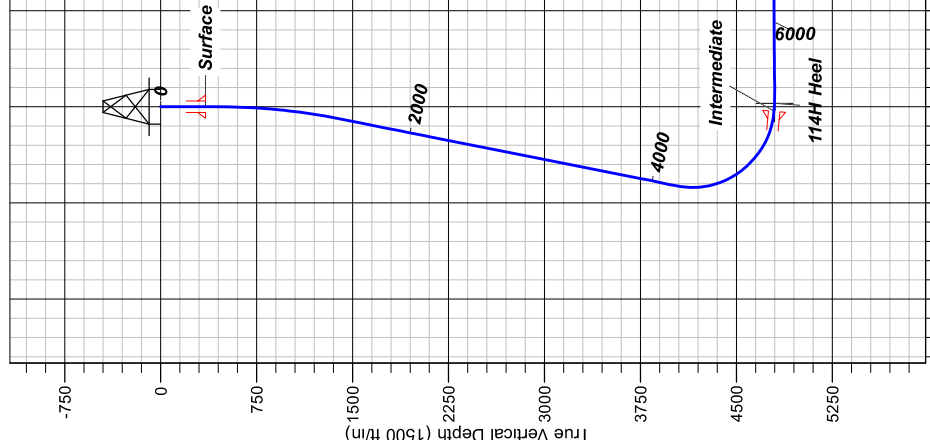
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: True

Plan: APD (# 114H/Original Drilling)

Created By: Janie Collins Date: 15:13, August 31 2021

SECTION DETAILS

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
114H Heel	450	0.00	0.00	450	0	0	0.00	0.00	0
114H Toe	1395	18.90	268.34	1378	-2	-154	2.00	269.34	-89
Intermediate	5359	16.40	268.34	4798	-12	-1966	9.00	-132.00	-629
Surface	5356	90.32	134.91	4798	-585	-3566	0.00	-132.00	-629
114H Toe	11460	90.32	134.91	4764	-4893	-3566	0.00	0.00	6054



Azimuths to True North
Magnetic North: 10.1°
Magnetic Field
Strength: 50613.37
Dip Angle: 63.16°
Date: 12/31/2019
Model: IGRF2008.10

CASING DETAILS

TVD	MD	Name
350	350	Surface
4796	5296	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
406	406	Ojo Alamo
514	514	Kirland
899	901	Fruitland
1151	1158	Pictured Cliffs
1315	1329	Lewis
1945	1994	Chacra
2568	2653	Menefee
3575	3717	Point Lookout
3729	3880	Mancos
4034	4202	Mancos Silt
4550	4762	Gallup A
4604	4835	Gallup B
4708	5006	Gallup C



DJR Operating

Ponderosa Unit

C07 2309

114H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

30 August, 2021





Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 114H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Project:	Ponderosa Unit	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site:	C07 2309	North Reference:	True
Well:	# 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Project	Ponderosa 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	C07 2309				
Site Position:		Northing:	1,909,781.02 usft	Latitude:	36.24857840
From:	Lat/Long	Easting:	2,722,934.49 usft	Longitude:	-107.83386640
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence:	0.00

Well	# 114H - Slot 2					
Well Position	+N/-S	11 ft	Northing:	1,909,792.38 usft	Latitude:	36.2486096
	+E/-W	-16 ft	Easting:	2,722,918.15 usft	Longitude:	-107.8339218
Position Uncertainty		0 ft	Wellhead Elevation:		Ground Level:	6801

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.02	63.07	50.613.69594783

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	143.92

Plan Survey Tool Program			Date	7/26/2021	
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0	11,460	APD (Original Drilling)	MWD+HDGM	
				OWSG MWD + HDGM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
450	0.00	0.00	450	0	0	0.00	0.00	0.00	0.00	
1395	18.90	269.34	1378	-2	-154	2.00	2.00	0.00	269.34	
4209	18.90	269.34	4040	-12	-1066	0.00	0.00	0.00	0.00	
5358	90.32	134.91	4798	-585	-756	9.00	6.22	-11.70	-132.76	114H Heel
11,460	90.32	134.91	4764	-4893	3566	0.00	0.00	0.00	0.00	114H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 114H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Project:	Ponderosa Unit	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site:	C07 2309	North Reference:	True
Well:	# 114H	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	269.34	500	0	0	0	2.00	2.00	0.00
600	3.00	269.34	600	0	-4	-2	2.00	2.00	0.00
700	5.00	269.34	700	0	-11	-6	2.00	2.00	0.00
800	7.00	269.34	799	0	-21	-12	2.00	2.00	0.00
900	9.00	269.34	898	0	-35	-20	2.00	2.00	0.00
1000	11.00	269.34	997	-1	-53	-31	2.00	2.00	0.00
1100	13.00	269.34	1094	-1	-73	-43	2.00	2.00	0.00
1200	15.00	269.34	1191	-1	-98	-57	2.00	2.00	0.00
1300	17.00	269.34	1288	-1	-125	-73	2.00	2.00	0.00
1395	18.90	269.34	1378	-2	-154	-89	2.00	2.00	0.00
1400	18.90	269.34	1383	-2	-156	-90	0.00	0.00	0.00
1500	18.90	269.34	1477	-2	-188	-109	0.00	0.00	0.00
1600	18.90	269.34	1572	-3	-221	-128	0.00	0.00	0.00
1700	18.90	269.34	1667	-3	-253	-147	0.00	0.00	0.00
1800	18.90	269.34	1761	-3	-286	-166	0.00	0.00	0.00
1900	18.90	269.34	1856	-4	-318	-184	0.00	0.00	0.00
2000	18.90	269.34	1950	-4	-350	-203	0.00	0.00	0.00
2100	18.90	269.34	2045	-4	-383	-222	0.00	0.00	0.00
2200	18.90	269.34	2140	-5	-415	-241	0.00	0.00	0.00
2300	18.90	269.34	2234	-5	-448	-259	0.00	0.00	0.00
2400	18.90	269.34	2329	-6	-480	-278	0.00	0.00	0.00
2500	18.90	269.34	2423	-6	-512	-297	0.00	0.00	0.00
2600	18.90	269.34	2518	-6	-545	-316	0.00	0.00	0.00
2700	18.90	269.34	2613	-7	-577	-334	0.00	0.00	0.00
2800	18.90	269.34	2707	-7	-609	-353	0.00	0.00	0.00
2900	18.90	269.34	2802	-7	-642	-372	0.00	0.00	0.00
3000	18.90	269.34	2896	-8	-674	-391	0.00	0.00	0.00
3100	18.90	269.34	2991	-8	-707	-410	0.00	0.00	0.00
3200	18.90	269.34	3086	-9	-739	-428	0.00	0.00	0.00
3300	18.90	269.34	3180	-9	-771	-447	0.00	0.00	0.00
3400	18.90	269.34	3275	-9	-804	-466	0.00	0.00	0.00
3500	18.90	269.34	3369	-10	-836	-485	0.00	0.00	0.00
3600	18.90	269.34	3464	-10	-869	-503	0.00	0.00	0.00
3700	18.90	269.34	3559	-10	-901	-522	0.00	0.00	0.00
3800	18.90	269.34	3653	-11	-933	-541	0.00	0.00	0.00
3900	18.90	269.34	3748	-11	-966	-560	0.00	0.00	0.00
4000	18.90	269.34	3843	-12	-998	-579	0.00	0.00	0.00
4100	18.90	269.34	3937	-12	-1030	-597	0.00	0.00	0.00
4200	18.90	269.34	4032	-12	-1063	-616	0.00	0.00	0.00
4209	18.90	269.34	4040	-12	-1066	-618	0.00	0.00	0.00
4300	14.58	244.73	4128	-17	-1091	-628	9.00	-4.74	-26.98
4400	14.35	208.12	4225	-34	-1108	-625	9.00	-0.23	-36.61
4500	18.92	180.55	4320	-61	-1114	-607	9.00	4.57	-27.57
4600	25.87	165.31	4413	-98	-1109	-574	9.00	6.94	-15.24
4700	33.75	156.49	4500	-145	-1092	-526	9.00	7.88	-8.83
4800	42.04	150.75	4579	-200	-1065	-466	9.00	8.29	-5.74
4900	50.53	146.62	4648	-261	-1027	-394	9.00	8.50	-4.13
5000	59.14	143.40	4705	-328	-980	-312	9.00	8.61	-3.22



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 114H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Project:	Ponderosa Unit	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site:	C07 2309	North Reference:	True
Well:	# 114H	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	67.82	140.72	4750	-399	-925	-223	9.00	8.68	-2.68
5200	76.53	138.35	4780	-471	-863	-128	9.00	8.71	-2.37
5300	85.26	136.15	4796	-543	-796	-30	9.00	8.73	-2.20
5358	90.32	134.91	4798	-585	-756	27	9.00	8.74	-2.14
5400	90.32	134.91	4798	-614	-726	69	0.00	0.00	0.00
5500	90.32	134.91	4798	-685	-655	168	0.00	0.00	0.00
5600	90.32	134.91	4797	-756	-584	266	0.00	0.00	0.00
5700	90.32	134.91	4797	-826	-513	365	0.00	0.00	0.00
5800	90.32	134.91	4796	-897	-443	464	0.00	0.00	0.00
5900	90.32	134.91	4795	-967	-372	563	0.00	0.00	0.00
6000	90.32	134.91	4795	-1038	-301	662	0.00	0.00	0.00
6100	90.32	134.91	4794	-1109	-230	760	0.00	0.00	0.00
6200	90.32	134.91	4794	-1179	-159	859	0.00	0.00	0.00
6300	90.32	134.91	4793	-1250	-89	958	0.00	0.00	0.00
6400	90.32	134.91	4793	-1320	-18	1057	0.00	0.00	0.00
6500	90.32	134.91	4792	-1391	53	1155	0.00	0.00	0.00
6600	90.32	134.91	4791	-1462	124	1254	0.00	0.00	0.00
6700	90.32	134.91	4791	-1532	195	1353	0.00	0.00	0.00
6800	90.32	134.91	4790	-1603	266	1452	0.00	0.00	0.00
6900	90.32	134.91	4790	-1673	336	1550	0.00	0.00	0.00
7000	90.32	134.91	4789	-1744	407	1649	0.00	0.00	0.00
7100	90.32	134.91	4789	-1815	478	1748	0.00	0.00	0.00
7200	90.32	134.91	4788	-1885	549	1847	0.00	0.00	0.00
7300	90.32	134.91	4787	-1956	620	1945	0.00	0.00	0.00
7400	90.32	134.91	4787	-2026	690	2044	0.00	0.00	0.00
7500	90.32	134.91	4786	-2097	761	2143	0.00	0.00	0.00
7600	90.32	134.91	4786	-2168	832	2242	0.00	0.00	0.00
7700	90.32	134.91	4785	-2238	903	2341	0.00	0.00	0.00
7800	90.32	134.91	4785	-2309	974	2439	0.00	0.00	0.00
7900	90.32	134.91	4784	-2379	1045	2538	0.00	0.00	0.00
8000	90.32	134.91	4784	-2450	1115	2637	0.00	0.00	0.00
8100	90.32	134.91	4783	-2521	1186	2736	0.00	0.00	0.00
8200	90.32	134.91	4782	-2591	1257	2834	0.00	0.00	0.00
8300	90.32	134.91	4782	-2662	1328	2933	0.00	0.00	0.00
8400	90.32	134.91	4781	-2732	1399	3032	0.00	0.00	0.00
8500	90.32	134.91	4781	-2803	1469	3131	0.00	0.00	0.00
8600	90.32	134.91	4780	-2874	1540	3229	0.00	0.00	0.00
8700	90.32	134.91	4780	-2944	1611	3328	0.00	0.00	0.00
8800	90.32	134.91	4779	-3015	1682	3427	0.00	0.00	0.00
8900	90.32	134.91	4778	-3085	1753	3526	0.00	0.00	0.00
9000	90.32	134.91	4778	-3156	1824	3625	0.00	0.00	0.00
9100	90.32	134.91	4777	-3227	1894	3723	0.00	0.00	0.00
9200	90.32	134.91	4777	-3297	1965	3822	0.00	0.00	0.00
9300	90.32	134.91	4776	-3368	2036	3921	0.00	0.00	0.00
9400	90.32	134.91	4776	-3438	2107	4020	0.00	0.00	0.00
9500	90.32	134.91	4775	-3509	2178	4118	0.00	0.00	0.00
9600	90.32	134.91	4775	-3580	2248	4217	0.00	0.00	0.00
9700	90.32	134.91	4774	-3650	2319	4316	0.00	0.00	0.00
9800	90.32	134.91	4773	-3721	2390	4415	0.00	0.00	0.00
9900	90.32	134.91	4773	-3791	2461	4513	0.00	0.00	0.00
10,000	90.32	134.91	4772	-3862	2532	4612	0.00	0.00	0.00
10,100	90.32	134.91	4772	-3933	2603	4711	0.00	0.00	0.00
10,200	90.32	134.91	4771	-4003	2673	4810	0.00	0.00	0.00
10,300	90.32	134.91	4771	-4074	2744	4908	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 114H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Project:	Ponderosa Unit	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site:	C07 2309	North Reference:	True
Well:	# 114H	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	90.32	134.91	4770	-4144	2815	5007	0.00	0.00	0.00	
10,500	90.32	134.91	4769	-4215	2886	5106	0.00	0.00	0.00	
10,600	90.32	134.91	4769	-4286	2957	5205	0.00	0.00	0.00	
10,700	90.32	134.91	4768	-4356	3027	5304	0.00	0.00	0.00	
10,800	90.32	134.91	4768	-4427	3098	5402	0.00	0.00	0.00	
10,900	90.32	134.91	4767	-4497	3169	5501	0.00	0.00	0.00	
11,000	90.32	134.91	4767	-4568	3240	5600	0.00	0.00	0.00	
11,100	90.32	134.91	4766	-4639	3311	5699	0.00	0.00	0.00	
11,200	90.32	134.91	4765	-4709	3382	5797	0.00	0.00	0.00	
11,300	90.32	134.91	4765	-4780	3452	5896	0.00	0.00	0.00	
11,400	90.32	134.91	4764	-4850	3523	5995	0.00	0.00	0.00	
11,460	90.32	134.91	4764	-4893	3566	6054	0.00	0.00	0.00	

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
114H Toe - plan hits target center - Circle (radius 100)	0.00	0.00	4764	-4893	3566	1,904,899.61	2,726,483.87	36.23516820	-107.82183070
114H Heel - plan hits target center - Circle (radius 50)	0.00	0.00	4798	-585	-756	1,909,207.76	2,722,162.37	36.24700357	-107.83648495

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.62	12.25	
5296	4796	Intermediate	7.00	8.75	



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 114H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Project:	Ponderosa Unit	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site:	C07 2309	North Reference:	True
Well:	# 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
406	406	Ojo Alamo		0.00	0.00	
514	514	Kirtland		0.00	0.00	
901	899	Fruitland		0.00	0.00	
1158	1151	Pictured Cliffs		0.00	0.00	
1329	1315	Lewis		0.00	0.00	
1994	1945	Chacra		0.00	0.00	
2653	2568	Menefee		0.00	0.00	
3717	3575	Point Lookout		0.00	0.00	
3880	3729	Mancos		0.00	0.00	
4202	4034	Mancos Silt		0.00	0.00	
4762	4550	Gallup A		0.00	0.00	
4835	4604	Gallup B		0.00	0.00	
5006	4708	Gallup C		0.00	0.00	



DJR Operating

Ponderosa Unit

C07 2309

114H

Original Drilling

APD

Anticollision Report

30 August, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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 2000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program			Date	7/26/2021	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	11,460	APD (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
C07 2309						
# 115H - Original Drilling - APD	450	450	60	57	21.265	CC
# 115H - Original Drilling - APD	600	597	61	57	15.723	ES
# 115H - Original Drilling - APD	11,460	10,962	746	417	2.265	SF
# 116H - Original Drilling - APD	599	598	40	36	10.237	CC
# 116H - Original Drilling - APD	600	598	40	36	10.227	ES
# 116H - Original Drilling - APD	11,460	10,921	1279	945	3.833	SF
# 120H - Original Drilling - APD	570	569	20	16	5.386	CC
# 120H - Original Drilling - APD	600	599	20	16	5.118	ES
# 120H - Original Drilling - APD	11,460	10,507	1415	1093	4.396	SF
# 136H - Original Drilling - APD	450	450	20	17	7.061	CC
# 136H - Original Drilling - APD	1000	1003	22	15	3.245	ES
# 136H - Original Drilling - APD	3800	3804	78	40	2.024	SF

Offset Design: C07 2309 - # 115H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM													Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0	0	0	0	0	0		-54.53	35	-49	60				
100	100	100	100	0	0	-54.53	35	-49	60	60	0.31	194.350		
200	200	200	200	1	1	-54.53	35	-49	60	59	1.03	58.441		
300	300	300	300	1	1	-54.53	35	-49	60	58	1.74	34.391		
400	400	400	400	1	1	-54.53	35	-49	60	57	2.46	24.365		
450	450	450	450	1	1	-54.53	35	-49	60	57	2.82	21.265	CC	
500	500	499	499	2	2	36.38	35	-49	60	57	3.17	18.946		
600	600	597	597	2	2	38.35	37	-52	61	57	3.86	15.723	ES	
700	700	695	694	2	2	42.16	41	-57	62	58	4.55	13.654		
800	799	792	792	3	3	47.48	47	-65	65	60	5.25	12.355		
900	898	890	888	3	3	53.79	55	-76	69	63	5.97	11.624		
1000	997	989	986	3	3	61.15	64	-88	75	68	6.73	11.075		
1100	1094	1088	1084	4	4	69.72	73	-100	80	72	7.54	10.556		
1200	1191	1187	1182	4	4	79.33	83	-112	86	77	8.39	10.188		
1300	1288	1285	1279	5	5	89.51	92	-124	93	84	9.29	10.064		
1395	1378	1378	1371	5	5	99.10	100	-136	104	94	10.16	10.227		



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Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 115H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1400	1383	1383	1376	5	5	99.62	101	-136	105	94	10.21	10.244		
1500	1477	1481	1472	6	5	108.49	110	-148	119	108	11.12	10.698		
1600	1572	1578	1568	6	6	115.37	119	-160	136	124	12.00	11.293		
1700	1667	1675	1664	7	6	120.72	128	-172	154	141	12.87	11.940		
1800	1761	1773	1761	8	7	124.94	137	-184	173	159	13.72	12.591		
1900	1856	1870	1857	8	7	128.31	146	-196	193	178	14.57	13.222		
2000	1950	1968	1953	9	7	131.04	155	-208	213	198	15.41	13.822		
2100	2045	2065	2049	9	8	133.30	164	-220	234	218	16.26	14.384		
2200	2140	2163	2146	10	8	135.19	173	-232	255	238	17.10	14.909		
2300	2234	2260	2242	11	9	136.80	182	-244	276	258	17.94	15.398		
2400	2329	2357	2338	11	9	138.17	191	-256	298	279	18.78	15.852		
2500	2423	2455	2434	12	9	139.36	200	-268	319	300	19.62	16.275		
2600	2518	2552	2531	13	10	140.40	209	-280	341	321	20.46	16.667		
2700	2613	2650	2627	13	10	141.31	218	-292	363	342	21.30	17.033		
2800	2707	2747	2723	14	11	142.12	227	-304	385	363	22.15	17.374		
2900	2802	2845	2820	14	11	142.84	236	-316	407	384	22.99	17.693		
3000	2896	2942	2916	15	11	143.49	245	-328	429	405	23.83	17.991		
3100	2991	3040	3012	16	12	144.08	254	-340	451	426	24.68	18.270		
3200	3086	3137	3108	16	12	144.61	263	-352	473	447	25.52	18.532		
3300	3180	3234	3205	17	13	145.09	272	-364	495	469	26.37	18.779		
3400	3275	3332	3301	18	13	145.53	281	-376	517	490	27.21	19.011		
3500	3369	3429	3397	18	13	145.94	290	-388	540	511	28.06	19.229		
3600	3464	3527	3493	19	14	146.31	299	-400	562	533	28.90	19.436		
3700	3559	3624	3590	19	14	146.66	308	-412	584	554	29.75	19.631		
3800	3653	3722	3686	20	15	146.98	317	-424	606	576	30.60	19.815		
3900	3748	3819	3782	21	15	147.27	326	-436	629	597	31.44	19.991		
4000	3843	3916	3879	21	15	147.55	335	-448	651	619	32.29	20.157		
4100	3937	4000	3961	22	16	148.00	341	-457	674	641	32.98	20.435		
4209	4040	4084	4045	23	16	149.28	339	-458	702	669	33.47	20.977		
4250	4079	4114	4075	23	16	160.02	337	-457	713	680	33.60	21.235		
4300	4128	4150	4111	23	16	176.36	333	-454	727	693	33.72	21.564		
4350	4176	4186	4146	23	16	-164.29	327	-449	741	707	33.82	21.903		
4400	4225	4222	4181	24	16	-144.78	319	-444	754	720	33.89	22.246		
4450	4273	4258	4215	24	16	-128.18	311	-436	767	733	33.95	22.588		
4500	4320	4293	4248	24	17	-115.48	301	-428	779	745	33.99	22.920		
4550	4367	4328	4280	24	17	-106.06	290	-419	791	757	34.04	23.235		
4600	4413	4363	4311	24	17	-99.04	278	-408	802	768	34.09	23.527		
4650	4457	4400	4342	24	17	-93.70	264	-395	813	778	34.17	23.781		
4700	4500	4433	4370	24	17	-89.56	250	-383	822	788	34.25	24.007		
4750	4540	4469	4398	24	17	-86.30	234	-369	831	797	34.37	24.178		
4800	4579	4500	4422	24	17	-83.71	219	-355	839	804	34.51	24.308		
4850	4614	4539	4450	24	17	-81.67	200	-337	846	811	34.76	24.336		
4900	4648	4574	4474	24	17	-80.05	181	-320	852	817	35.05	24.304		
4950	4678	4609	4497	24	17	-78.80	161	-301	857	822	35.43	24.190		
5000	4705	4650	4522	24	17	-77.90	137	-279	861	825	35.93	23.969		
5050	4729	4680	4538	25	18	-77.21	119	-262	864	828	36.48	23.690		
5100	4750	4716	4557	25	18	-76.81	97	-241	866	829	37.17	23.307		
5150	4767	4750	4572	25	18	-76.62	75	-220	867	829	37.96	22.850		
5200	4780	4788	4588	25	18	-76.69	50	-197	867	828	38.89	22.300		
5250	4790	4824	4601	25	19	-76.95	25	-173	866	826	39.94	21.694		
5300	4796	4861	4612	26	19	-77.42	0	-149	864	823	41.09	21.041		
5350	4798	4900	4622	26	20	-78.12	-28	-123	862	819	42.35	20.344		



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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 115H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
5358	4798	4900	4622	26	20	-78.16	-28	-123	861	819	42.52	20.253		
5400	4798	4935	4629	27	20	-78.60	-53	-99	858	815	43.67	19.657		
5500	4798	5012	4636	28	21	-79.13	-108	-46	854	808	46.47	18.385		
5600	4797	5103	4637	29	22	-79.15	-173	17	852	803	49.53	17.206		
5700	4797	5203	4636	31	24	-79.12	-245	86	850	797	52.96	16.059		
5800	4796	5303	4635	33	26	-79.09	-317	156	849	792	56.63	14.984		
5900	4795	5403	4635	35	28	-79.06	-389	225	847	786	60.51	13.993		
6000	4795	5503	4634	37	30	-79.03	-461	295	845	780	64.56	13.088		
6100	4794	5603	4633	39	32	-79.00	-533	364	843	774	68.74	12.266		
6200	4794	5703	4633	41	34	-78.97	-605	434	841	768	73.03	11.520		
6300	4793	5803	4632	43	36	-78.94	-676	503	839	762	77.42	10.844		
6400	4793	5903	4631	45	38	-78.91	-748	573	838	756	81.88	10.231		
6500	4792	6003	4631	48	41	-78.88	-820	642	836	749	86.41	9.674		
6600	4791	6103	4630	50	43	-78.85	-892	712	834	743	90.99	9.166		
6700	4791	6203	4629	52	45	-78.82	-964	781	832	737	95.62	8.704		
6800	4790	6303	4629	55	48	-78.79	-1036	851	830	730	100.29	8.280		
6900	4790	6403	4628	57	50	-78.76	-1108	920	829	724	104.99	7.892		
7000	4789	6503	4628	60	53	-78.73	-1180	990	827	717	109.73	7.535		
7100	4789	6603	4627	62	55	-78.70	-1252	1059	825	710	114.49	7.205		
7200	4788	6703	4626	65	57	-78.67	-1324	1128	823	704	119.28	6.901		
7300	4787	6803	4626	67	60	-78.64	-1395	1198	821	697	124.08	6.619		
7400	4787	6903	4625	69	62	-78.60	-1467	1267	820	691	128.90	6.358		
7500	4786	7003	4624	72	65	-78.57	-1539	1337	818	684	133.74	6.114		
7600	4786	7102	4624	74	67	-78.54	-1611	1406	816	677	138.59	5.887		
7700	4785	7202	4623	77	70	-78.51	-1683	1476	814	671	143.46	5.675		
7800	4785	7302	4622	79	72	-78.48	-1755	1545	812	664	148.33	5.476		
7900	4784	7402	4622	82	75	-78.44	-1827	1615	810	657	153.22	5.290		
8000	4784	7502	4621	84	77	-78.41	-1899	1684	809	651	158.11	5.114		
8100	4783	7602	4620	87	80	-78.38	-1971	1754	807	644	163.01	4.949		
8200	4782	7702	4620	89	82	-78.35	-2043	1823	805	637	167.92	4.794		
8300	4782	7802	4619	92	85	-78.31	-2114	1893	803	630	172.83	4.647		
8400	4781	7902	4618	94	87	-78.28	-2186	1962	801	624	177.75	4.508		
8500	4781	8002	4618	97	90	-78.25	-2258	2032	800	617	182.68	4.377		
8600	4780	8102	4617	99	92	-78.21	-2330	2101	798	610	187.61	4.252		
8700	4780	8202	4617	102	95	-78.18	-2402	2171	796	603	192.55	4.134		
8800	4779	8302	4616	105	97	-78.15	-2474	2240	794	597	197.48	4.021		
8900	4778	8402	4615	107	100	-78.11	-2546	2310	792	590	202.43	3.914		
9000	4778	8502	4615	110	102	-78.08	-2618	2379	790	583	207.37	3.812		
9100	4777	8602	4614	112	105	-78.05	-2690	2448	789	576	212.32	3.715		
9200	4777	8702	4613	115	107	-78.01	-2762	2518	787	570	217.27	3.622		
9300	4776	8802	4613	117	110	-77.98	-2833	2587	785	563	222.22	3.533		
9400	4776	8902	4612	120	113	-77.94	-2905	2657	783	556	227.17	3.448		
9500	4775	9002	4611	122	115	-77.91	-2977	2726	781	549	232.13	3.366		
9600	4775	9102	4611	125	118	-77.87	-3049	2796	780	543	237.08	3.288		
9700	4774	9202	4610	127	120	-77.84	-3121	2865	778	536	242.04	3.214		
9800	4773	9302	4609	130	123	-77.80	-3193	2935	776	529	247.00	3.142		
9900	4773	9402	4609	133	125	-77.77	-3265	3004	774	522	251.96	3.073		
10,000	4772	9502	4608	135	128	-77.73	-3337	3074	772	515	256.92	3.006		
10,100	4772	9602	4607	138	130	-77.70	-3409	3143	771	509	261.88	2.942		
10,200	4771	9702	4607	140	133	-77.66	-3481	3213	769	502	266.85	2.881		
10,300	4771	9802	4606	143	135	-77.62	-3552	3282	767	495	271.81	2.822		
10,400	4770	9902	4605	145	138	-77.59	-3624	3352	765	488	276.77	2.765		



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Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 115H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,500	4769	10,002	4605	148	140	-77.55	-3696	3421	763	482	281.74	2.709		
10,600	4769	10,102	4604	150	143	-77.52	-3768	3491	762	475	286.70	2.656		
10,700	4768	10,202	4604	153	146	-77.48	-3840	3560	760	468	291.66	2.605		
10,800	4768	10,302	4603	156	148	-77.44	-3912	3630	758	461	296.62	2.555		
10,900	4767	10,402	4602	158	151	-77.40	-3984	3699	756	455	301.59	2.507		
11,000	4767	10,502	4602	161	153	-77.37	-4056	3768	754	448	306.55	2.461		
11,100	4766	10,602	4601	163	156	-77.33	-4128	3838	753	441	311.51	2.416		
11,200	4765	10,702	4600	166	158	-77.29	-4199	3907	751	434	316.47	2.372		
11,300	4765	10,802	4600	168	161	-77.25	-4271	3977	749	427	321.43	2.330		
11,400	4764	10,902	4599	171	163	-77.22	-4343	4046	747	421	326.39	2.289		
11,460	4764	10,962	4599	172	165	-77.19	-4386	4088	746	417	329.37	2.265 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 116H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0	0	0	0	0	0	-54.62	23	-33	40					
100	100	100	100	0	0	-54.62	23	-33	40	40	0.31	129.505		
200	200	200	200	1	1	-54.62	23	-33	40	39	1.03	38.942		
300	300	300	300	1	1	-54.62	23	-33	40	38	1.74	22.917		
400	400	400	400	1	1	-54.62	23	-33	40	37	2.46	16.235		
450	450	450	450	1	1	-54.62	23	-33	40	37	2.82	14.170		
500	500	500	500	2	2	36.88	24	-33	40	37	3.17	12.571		
599	599	598	598	2	2	43.63	27	-33	40	36	3.87	10.237 CC		
600	600	598	598	2	2	43.69	27	-33	40	36	3.87	10.227 ES		
700	700	697	697	2	2	56.98	34	-33	41	36	4.57	8.901		
800	799	795	794	3	3	73.98	44	-34	46	41	5.28	8.731		
900	898	893	891	3	3	90.01	56	-35	57	51	6.01	9.427		
1000	997	991	988	3	3	103.08	68	-36	71	64	6.76	10.509		
1100	1094	1088	1085	4	4	113.41	80	-36	89	82	7.52	11.868		
1200	1191	1184	1180	4	4	121.50	92	-37	111	103	8.29	13.418		
1300	1288	1280	1275	5	4	127.88	104	-38	137	128	9.07	15.097		
1395	1378	1370	1364	5	5	132.74	115	-39	165	155	9.81	16.772		
1400	1383	1374	1369	5	5	132.99	115	-39	166	156	9.85	16.859		
1500	1477	1469	1463	6	5	137.21	127	-40	197	187	10.63	18.576		
1600	1572	1563	1556	6	6	140.27	138	-40	229	218	11.40	20.121		
1700	1667	1657	1649	7	6	142.59	150	-41	262	250	12.18	21.504		
1800	1761	1751	1743	8	6	144.40	162	-42	295	282	12.96	22.741		
1900	1856	1845	1836	8	7	145.85	173	-43	328	314	13.74	23.849		
2000	1950	1939	1930	9	7	147.03	185	-44	361	346	14.52	24.847		
2100	2045	2033	2023	9	7	148.02	196	-44	394	379	15.30	25.747		
2200	2140	2127	2116	10	8	148.85	208	-45	427	411	16.09	26.562		
2300	2234	2221	2210	11	8	149.56	219	-46	461	444	16.87	27.304		
2400	2329	2316	2303	11	9	150.18	231	-47	494	476	17.66	27.981		
2500	2423	2410	2397	12	9	150.72	243	-48	528	509	18.45	28.600		
2600	2518	2504	2490	13	9	151.19	254	-48	561	542	19.24	29.170		
2700	2613	2598	2583	13	10	151.61	266	-49	595	575	20.03	29.695		
2800	2707	2692	2677	14	10	151.99	277	-50	628	608	20.82	30.180		
2900	2802	2786	2770	14	10	152.33	289	-51	662	640	21.61	30.630		
3000	2896	2880	2863	15	11	152.63	301	-52	696	673	22.40	31.048		
3100	2991	2974	2957	16	11	152.91	312	-52	729	706	23.20	31.437		
3200	3086	3068	3050	16	11	153.16	324	-53	763	739	23.99	31.800		
3300	3180	3163	3144	17	12	153.39	335	-54	797	772	24.78	32.140		
3400	3275	3257	3237	18	12	153.60	347	-55	830	805	25.58	32.459		
3500	3369	3351	3330	18	13	153.80	359	-56	864	838	26.37	32.758		
3600	3464	3445	3424	19	13	153.98	370	-56	898	870	27.17	33.040		
3700	3559	3539	3517	19	13	154.15	382	-57	931	903	27.96	33.305		
3800	3653	3633	3611	20	14	154.30	393	-58	965	936	28.76	33.556		
3900	3748	3727	3704	21	14	154.45	405	-59	999	969	29.56	33.793		
4000	3843	3821	3797	21	14	154.59	416	-60	1032	1002	30.35	34.017		
4100	3937	3916	3891	22	15	154.71	428	-60	1066	1035	31.15	34.230		
4209	4040	4018	3992	23	15	154.84	441	-61	1103	1071	32.02	34.449		
4250	4079	4057	4031	23	15	165.16	445	-62	1116	1084	32.34	34.521		
4300	4128	4104	4078	23	16	-179.18	451	-62	1132	1099	32.72	34.584		
4350	4176	4150	4124	23	16	-160.71	457	-62	1146	1113	33.08	34.632		
4400	4225	4179	4153	24	16	-141.96	460	-62	1159	1126	33.29	34.810		
4450	4273	4200	4173	24	16	-125.99	462	-61	1172	1138	33.42	35.063		
4500	4320	4238	4211	24	16	-114.11	463	-59	1184	1150	33.66	35.166		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 116H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4550	4367	4267	4240	24	16	-105.37	463	-55	1195	1161	33.82	35.329	
4600	4413	4300	4273	24	16	-99.05	463	-51	1206	1172	34.02	35.444	
4650	4457	4326	4299	24	16	-94.28	461	-46	1216	1181	34.16	35.585	
4700	4500	4350	4322	24	16	-90.62	459	-41	1225	1191	34.30	35.709	
4750	4540	4386	4357	24	16	-88.04	455	-33	1233	1199	34.56	35.690	
4800	4579	4417	4386	24	17	-86.00	450	-25	1241	1206	34.80	35.665	
4850	4614	4450	4417	24	17	-84.51	443	-15	1248	1213	35.10	35.560	
4900	4648	4479	4443	24	17	-83.34	437	-5	1254	1219	35.42	35.414	
4950	4678	4511	4472	24	17	-82.55	429	6	1260	1224	35.81	35.177	
5000	4705	4543	4500	24	17	-82.06	420	19	1264	1228	36.28	34.856	
5050	4729	4575	4527	25	17	-81.83	409	32	1268	1232	36.82	34.452	
5100	4750	4609	4555	25	17	-81.83	397	48	1272	1234	37.44	33.968	
5150	4767	4643	4582	25	17	-82.04	384	64	1274	1236	38.14	33.409	
5200	4780	4678	4608	25	17	-82.45	369	82	1276	1237	38.93	32.781	
5250	4790	4714	4634	25	17	-83.06	353	101	1277	1238	39.80	32.097	
5300	4796	4750	4658	26	17	-83.82	336	121	1278	1237	40.74	31.373	
5350	4798	4789	4683	26	17	-84.82	316	144	1278	1236	41.76	30.605	
5358	4798	4795	4687	26	17	-84.99	313	147	1278	1236	41.93	30.483	
5376	4798	4810	4695	26	17	-85.38	305	156	1278	1236	42.33	30.194	
5400	4798	4830	4707	27	18	-85.89	294	168	1278	1235	42.85	29.826	
5500	4798	4922	4752	28	18	-87.97	240	228	1280	1234	45.27	28.270	
5600	4797	5030	4790	29	19	-89.70	172	301	1282	1234	48.08	26.661	
5700	4797	5149	4812	31	21	-90.70	90	385	1284	1232	51.38	24.983	
5800	4796	5261	4815	33	22	-90.84	11	464	1284	1229	54.94	23.364	
5900	4795	5361	4814	35	24	-90.83	-59	535	1284	1225	58.63	21.893	
6000	4795	5461	4813	37	26	-90.83	-130	606	1284	1221	62.54	20.524	
6100	4794	5561	4813	39	28	-90.82	-201	677	1283	1217	66.63	19.263	
6200	4794	5661	4812	41	30	-90.82	-271	747	1283	1212	70.86	18.110	
6300	4793	5761	4811	43	32	-90.82	-342	818	1283	1208	75.22	17.059	
6400	4793	5861	4811	45	34	-90.81	-413	889	1283	1203	79.69	16.103	
6500	4792	5961	4810	48	37	-90.81	-483	960	1283	1199	84.23	15.233	
6600	4791	6061	4809	50	39	-90.80	-554	1030	1283	1194	88.85	14.440	
6700	4791	6161	4809	52	41	-90.80	-625	1101	1283	1189	93.52	13.717	
6800	4790	6261	4808	55	43	-90.80	-695	1172	1283	1185	98.25	13.057	
6900	4790	6361	4807	57	46	-90.79	-766	1243	1283	1180	103.02	12.451	
7000	4789	6461	4807	60	48	-90.79	-836	1313	1283	1175	107.83	11.895	
7100	4789	6561	4806	62	51	-90.78	-907	1384	1283	1170	112.67	11.383	
7200	4788	6661	4805	65	53	-90.78	-978	1455	1282	1165	117.54	10.911	
7300	4787	6761	4805	67	56	-90.78	-1048	1526	1282	1160	122.44	10.474	
7400	4787	6861	4804	69	58	-90.77	-1119	1597	1282	1155	127.36	10.069	
7500	4786	6961	4804	72	60	-90.77	-1190	1667	1282	1150	132.30	9.692	
7600	4786	7061	4803	74	63	-90.76	-1260	1738	1282	1145	137.25	9.342	
7700	4785	7161	4802	77	65	-90.76	-1331	1809	1282	1140	142.22	9.015	
7800	4785	7261	4802	79	68	-90.75	-1402	1880	1282	1135	147.21	8.709	
7900	4784	7361	4801	82	70	-90.75	-1472	1950	1282	1130	152.20	8.422	
8000	4784	7461	4800	84	73	-90.75	-1543	2021	1282	1125	157.21	8.153	
8100	4783	7561	4800	87	75	-90.74	-1614	2092	1282	1119	162.23	7.900	
8200	4782	7661	4799	89	78	-90.74	-1684	2163	1282	1114	167.26	7.662	
8300	4782	7761	4798	92	80	-90.73	-1755	2233	1282	1109	172.30	7.438	
8400	4781	7861	4798	94	83	-90.73	-1826	2304	1281	1104	177.35	7.226	
8500	4781	7961	4797	97	86	-90.73	-1896	2375	1281	1099	182.40	7.025	
8600	4780	8061	4796	99	88	-90.72	-1967	2446	1281	1094	187.46	6.835	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 116H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:				Offset Well Error:	0 ft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
8700	4780	8161	4796	102	91	-90.72	-2038	2516	1281	1089	192.52	6.655		
8800	4779	8261	4795	105	93	-90.71	-2108	2587	1281	1084	197.59	6.484		
8900	4778	8361	4794	107	96	-90.71	-2179	2658	1281	1078	202.67	6.321		
9000	4778	8461	4794	110	98	-90.71	-2250	2729	1281	1073	207.75	6.166		
9100	4777	8561	4793	112	101	-90.70	-2320	2799	1281	1068	212.84	6.018		
9200	4777	8661	4792	115	103	-90.70	-2391	2870	1281	1063	217.93	5.877		
9300	4776	8761	4792	117	106	-90.69	-2462	2941	1281	1058	223.02	5.743		
9400	4776	8861	4791	120	108	-90.69	-2532	3012	1281	1053	228.12	5.614		
9500	4775	8961	4790	122	111	-90.68	-2603	3082	1281	1047	233.22	5.491		
9600	4775	9061	4790	125	113	-90.68	-2674	3153	1280	1042	238.32	5.373		
9700	4774	9161	4789	127	116	-90.68	-2744	3224	1280	1037	243.43	5.260		
9800	4773	9261	4788	130	119	-90.67	-2815	3295	1280	1032	248.54	5.151		
9900	4773	9361	4788	133	121	-90.67	-2886	3366	1280	1027	253.65	5.047		
10,000	4772	9461	4787	135	124	-90.66	-2956	3436	1280	1021	258.77	4.947		
10,100	4772	9561	4786	138	126	-90.66	-3027	3507	1280	1016	263.89	4.851		
10,200	4771	9661	4786	140	129	-90.66	-3098	3578	1280	1011	269.00	4.758		
10,300	4771	9761	4785	143	131	-90.65	-3168	3649	1280	1006	274.13	4.669		
10,400	4770	9861	4784	145	134	-90.65	-3239	3719	1280	1001	279.25	4.583		
10,500	4769	9961	4784	148	137	-90.64	-3310	3790	1280	995	284.37	4.500		
10,600	4769	10,061	4783	150	139	-90.64	-3380	3861	1280	990	289.50	4.420		
10,700	4768	10,161	4782	153	142	-90.64	-3451	3932	1280	985	294.63	4.343		
10,800	4768	10,261	4782	156	144	-90.63	-3522	4002	1279	980	299.76	4.268		
10,900	4767	10,361	4781	158	147	-90.63	-3592	4073	1279	974	304.89	4.196		
11,000	4767	10,461	4780	161	149	-90.62	-3663	4144	1279	969	310.03	4.126		
11,100	4766	10,561	4780	163	152	-90.62	-3733	4215	1279	964	315.16	4.059		
11,200	4765	10,661	4779	166	155	-90.61	-3804	4285	1279	959	320.30	3.993		
11,300	4765	10,761	4779	168	157	-90.61	-3875	4356	1279	954	325.43	3.930		
11,400	4764	10,861	4778	171	160	-90.61	-3945	4427	1279	948	330.57	3.869		
11,460	4764	10,921	4777	172	161	-90.60	-3988	4469	1279	945	333.66	3.833 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 120H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-54.46	12	-16	20					
100	100	100	100	0	0	-54.46	12	-16	20	20	0.31	65.002		
200	200	200	200	1	1	-54.46	12	-16	20	19	1.03	19.546		
300	300	300	300	1	1	-54.46	12	-16	20	18	1.74	11.502		
400	400	400	400	1	1	-54.46	12	-16	20	18	2.46	8.149		
450	450	450	450	1	1	-54.46	12	-16	20	17	2.82	7.112		
500	500	500	500	2	2	37.98	12	-16	20	17	3.17	6.287		
570	570	569	569	2	2	46.55	14	-16	20	16	3.66	5.386 CC		
600	600	599	599	2	2	52.47	16	-16	20	16	3.87	5.118 ES		
700	700	698	698	2	2	77.79	22	-16	23	19	4.58	5.051		
800	799	796	795	3	3	99.89	32	-15	34	28	5.29	6.331		
900	898	893	891	3	3	112.95	46	-15	51	45	6.01	8.472		
1000	997	990	987	3	3	121.04	60	-14	73	66	6.75	10.744		
1100	1094	1087	1083	4	4	126.89	75	-14	97	89	7.50	12.926		
1200	1191	1182	1177	4	4	131.43	89	-13	124	116	8.26	15.044		
1300	1288	1277	1271	5	5	135.10	103	-13	155	146	9.03	17.110		
1395	1378	1366	1359	5	5	138.01	117	-12	186	176	9.77	19.036		
1400	1383	1371	1364	5	5	138.17	117	-12	188	178	9.81	19.132		
1500	1477	1464	1456	6	5	140.91	131	-12	223	212	10.59	21.022		
1600	1572	1558	1548	6	6	142.91	145	-11	258	246	11.36	22.674		
1700	1667	1651	1641	7	6	144.43	159	-11	293	281	12.15	24.125		
1800	1761	1744	1733	8	6	145.63	173	-10	328	316	12.93	25.404		
1900	1856	1837	1825	8	7	146.59	187	-10	364	350	13.72	26.538		
2000	1950	1931	1917	9	7	147.38	201	-9	400	385	14.51	27.549		
2100	2045	2024	2010	9	8	148.05	215	-8	435	420	15.30	28.456		
2200	2140	2117	2102	10	8	148.61	229	-8	471	455	16.10	29.272		
2300	2234	2211	2194	11	8	149.09	243	-7	507	490	16.89	30.010		
2400	2329	2304	2286	11	9	149.51	257	-7	543	525	17.69	30.681		
2500	2423	2397	2378	12	9	149.88	271	-6	579	560	18.49	31.293		
2600	2518	2491	2471	13	9	150.20	285	-6	614	595	19.29	31.853		
2700	2613	2584	2563	13	10	150.49	299	-5	650	630	20.09	32.367		
2800	2707	2677	2655	14	10	150.75	313	-5	686	665	20.90	32.842		
2900	2802	2770	2747	14	11	150.98	327	-4	722	700	21.70	33.280		
3000	2896	2864	2840	15	11	151.19	341	-4	758	736	22.50	33.687		
3100	2991	2957	2932	16	11	151.39	355	-3	794	771	23.31	34.064		
3200	3086	3050	3024	16	12	151.56	369	-2	830	806	24.11	34.416		
3300	3180	3144	3116	17	12	151.72	383	-2	866	841	24.92	34.745		
3400	3275	3237	3209	18	12	151.87	397	-1	902	876	25.72	35.053		
3500	3369	3330	3301	18	13	152.01	411	-1	938	911	26.53	35.341		
3600	3464	3424	3393	19	13	152.13	425	0	974	946	27.34	35.612		
3700	3559	3517	3485	19	14	152.25	439	0	1010	981	28.15	35.867		
3800	3653	3610	3578	20	14	152.36	453	1	1045	1017	28.95	36.107		
3900	3748	3703	3670	21	14	152.46	467	1	1081	1052	29.76	36.334		
4000	3843	3785	3751	21	15	152.56	479	2	1118	1087	30.47	36.678		
4100	3937	3850	3815	22	15	152.90	485	6	1156	1125	30.98	37.307		
4209	4040	3900	3865	23	15	153.37	486	13	1201	1170	31.30	38.365		
4250	4079	3925	3889	23	15	164.42	486	17	1218	1187	31.44	38.752		
4300	4128	3950	3914	23	15	-178.92	484	22	1239	1208	31.55	39.284		
4350	4176	3978	3941	23	15	-159.28	482	28	1260	1228	31.65	39.803		
4400	4225	4000	3962	24	15	-139.51	480	34	1279	1248	31.68	40.382		
4450	4273	4031	3992	24	15	-122.66	476	42	1298	1267	31.77	40.866		
4500	4320	4050	4010	24	15	-109.74	473	48	1317	1285	31.76	41.456		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 120H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4550	4367	4084	4041	24	16	-100.15	467	60	1334	1302	31.86	41.860	
4600	4413	4111	4066	24	16	-92.98	461	69	1350	1318	31.90	42.306	
4650	4457	4138	4090	24	16	-87.52	455	80	1365	1333	31.96	42.702	
4700	4500	4165	4113	24	16	-83.27	447	91	1378	1346	32.03	43.036	
4750	4540	4200	4143	24	16	-80.00	437	106	1391	1359	32.18	43.221	
4800	4579	4219	4158	24	16	-77.30	430	115	1402	1370	32.26	43.462	
4850	4614	4250	4183	24	16	-75.24	419	130	1412	1379	32.46	43.495	
4900	4648	4274	4202	24	16	-73.57	410	142	1420	1387	32.67	43.463	
4950	4678	4300	4221	24	16	-72.28	399	156	1427	1394	32.96	43.294	
5000	4705	4330	4242	24	16	-71.38	387	172	1433	1399	33.37	42.933	
5050	4729	4350	4256	25	16	-70.64	377	184	1437	1403	33.79	42.533	
5100	4750	4387	4280	25	16	-70.37	360	205	1440	1405	34.40	41.848	
5150	4767	4415	4298	25	16	-70.25	346	222	1441	1406	35.09	41.066	
5200	4780	4450	4318	25	16	-70.46	327	244	1441	1405	35.91	40.123	
5250	4790	4473	4331	25	16	-70.71	315	259	1440	1403	36.76	39.163	
5300	4796	4500	4344	26	17	-71.22	299	276	1437	1399	37.72	38.089	
5350	4798	4532	4359	26	17	-72.04	281	297	1433	1394	38.82	36.903	
5358	4798	4537	4362	26	17	-72.18	278	300	1432	1393	39.00	36.715	
5400	4798	4562	4372	27	17	-72.61	262	318	1428	1388	39.98	35.715	
5500	4798	4627	4395	28	18	-73.55	222	362	1421	1378	42.51	33.425	
5600	4797	4700	4414	29	19	-74.31	173	414	1416	1371	45.31	31.257	
5700	4797	4769	4424	31	20	-74.74	126	463	1414	1365	48.24	29.304	
5785	4796	4833	4427	32	21	-74.86	81	508	1413	1362	50.89	27.768	
5800	4796	4847	4427	33	21	-74.86	71	518	1413	1362	51.39	27.495	
5900	4795	4947	4426	35	23	-74.86	1	589	1413	1358	55.00	25.691	
6000	4795	5047	4426	37	25	-74.85	-70	660	1413	1354	58.82	24.023	
6100	4794	5147	4425	39	27	-74.85	-141	731	1413	1350	62.82	22.495	
6200	4794	5247	4424	41	29	-74.85	-211	802	1413	1346	66.96	21.105	
6300	4793	5347	4424	43	31	-74.84	-282	873	1413	1342	71.22	19.844	
6400	4793	5447	4423	45	33	-74.84	-352	943	1413	1338	75.57	18.701	
6500	4792	5547	4422	48	35	-74.84	-423	1014	1413	1333	80.01	17.665	
6600	4791	5647	4422	50	38	-74.84	-494	1085	1413	1329	84.51	16.724	
6700	4791	5747	4421	52	40	-74.83	-564	1156	1413	1324	89.07	15.869	
6800	4790	5847	4420	55	42	-74.83	-635	1227	1413	1320	93.67	15.090	
6900	4790	5947	4420	57	45	-74.83	-705	1298	1414	1315	98.32	14.377	
7000	4789	6047	4419	60	47	-74.82	-776	1368	1414	1311	103.00	13.724	
7100	4789	6147	4418	62	50	-74.82	-846	1439	1414	1306	107.71	13.124	
7200	4788	6247	4418	65	52	-74.82	-917	1510	1414	1301	112.45	12.572	
7300	4787	6347	4417	67	54	-74.81	-988	1581	1414	1296	117.21	12.062	
7400	4787	6447	4416	69	57	-74.81	-1058	1652	1414	1292	121.99	11.589	
7500	4786	6547	4416	72	59	-74.81	-1129	1723	1414	1287	126.78	11.151	
7600	4786	6647	4415	74	62	-74.80	-1199	1793	1414	1282	131.60	10.743	
7700	4785	6747	4415	77	64	-74.80	-1270	1864	1414	1277	136.43	10.363	
7800	4785	6847	4414	79	67	-74.80	-1341	1935	1414	1273	141.27	10.009	
7900	4784	6947	4413	82	69	-74.79	-1411	2006	1414	1268	146.12	9.676	
8000	4784	7047	4413	84	72	-74.79	-1482	2077	1414	1263	150.98	9.365	
8100	4783	7147	4412	87	74	-74.79	-1552	2148	1414	1258	155.86	9.073	
8200	4782	7247	4411	89	77	-74.78	-1623	2218	1414	1253	160.74	8.797	
8300	4782	7347	4411	92	79	-74.78	-1694	2289	1414	1248	165.62	8.538	
8400	4781	7447	4410	94	82	-74.78	-1764	2360	1414	1244	170.52	8.293	
8500	4781	7547	4409	97	85	-74.77	-1835	2431	1414	1239	175.42	8.062	
8600	4780	7647	4409	99	87	-74.77	-1905	2502	1414	1234	180.33	7.842	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 120H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre		Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8700	4780	7747	4408	102	90	-74.77	-1976	2573	1414	1229	185.24	7.635		
8800	4779	7847	4407	105	92	-74.76	-2046	2643	1414	1224	190.16	7.437		
8900	4778	7947	4407	107	95	-74.76	-2117	2714	1414	1219	195.08	7.250		
9000	4778	8047	4406	110	97	-74.76	-2188	2785	1414	1214	200.01	7.072		
9100	4777	8147	4405	112	100	-74.75	-2258	2856	1414	1209	204.94	6.902		
9200	4777	8247	4405	115	102	-74.75	-2329	2927	1414	1205	209.87	6.740		
9300	4776	8347	4404	117	105	-74.75	-2399	2998	1415	1200	214.81	6.585		
9400	4776	8447	4403	120	107	-74.74	-2470	3068	1415	1195	219.75	6.437		
9500	4775	8547	4403	122	110	-74.74	-2541	3139	1415	1190	224.70	6.296		
9600	4775	8647	4402	125	113	-74.74	-2611	3210	1415	1185	229.64	6.160		
9700	4774	8747	4401	127	115	-74.73	-2682	3281	1415	1180	234.59	6.030		
9800	4773	8847	4401	130	118	-74.73	-2752	3352	1415	1175	239.54	5.906		
9900	4773	8947	4400	133	120	-74.73	-2823	3423	1415	1170	244.50	5.786		
10,000	4772	9047	4400	135	123	-74.73	-2893	3493	1415	1165	249.45	5.672		
10,100	4772	9147	4399	138	125	-74.72	-2964	3564	1415	1160	254.41	5.561		
10,200	4771	9247	4398	140	128	-74.72	-3035	3635	1415	1156	259.37	5.455		
10,300	4771	9347	4398	143	131	-74.72	-3105	3706	1415	1151	264.33	5.353		
10,400	4770	9447	4397	145	133	-74.71	-3176	3777	1415	1146	269.29	5.254		
10,500	4769	9547	4396	148	136	-74.71	-3246	3848	1415	1141	274.26	5.159		
10,600	4769	9647	4396	150	138	-74.71	-3317	3918	1415	1136	279.22	5.068		
10,700	4768	9747	4395	153	141	-74.70	-3388	3989	1415	1131	284.19	4.979		
10,800	4768	9847	4394	156	143	-74.70	-3458	4060	1415	1126	289.16	4.894		
10,900	4767	9947	4394	158	146	-74.70	-3529	4131	1415	1121	294.13	4.811		
11,000	4767	10,047	4393	161	149	-74.69	-3599	4202	1415	1116	299.10	4.732		
11,100	4766	10,147	4392	163	151	-74.69	-3670	4273	1415	1111	304.07	4.654		
11,200	4765	10,247	4392	166	154	-74.69	-3741	4343	1415	1106	309.04	4.580		
11,300	4765	10,347	4391	168	156	-74.68	-3811	4414	1415	1101	314.02	4.507		
11,400	4764	10,447	4390	171	159	-74.68	-3882	4485	1415	1096	318.99	4.437		
11,460	4764	10,507	4390	172	160	-74.68	-3924	4528	1415	1093	321.98	4.396 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 136H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:													
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning		
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0	0	0	0	0	0	124.81	-11	16	20						
100	100	100	100	0	0	124.81	-11	16	20	20	0.31	64.536			
200	200	200	200	1	1	124.81	-11	16	20	19	1.03	19.406			
300	300	300	300	1	1	124.81	-11	16	20	18	1.74	11.420			
400	400	400	400	1	1	124.81	-11	16	20	17	2.46	8.090			
450	450	450	450	1	1	124.81	-11	16	20	17	2.82	7.061 CC			
500	500	500	500	2	2	-144.46	-11	16	20	17	3.17	6.285			
600	600	601	601	2	2	-143.90	-12	12	20	16	3.86	5.192			
700	700	701	701	2	2	-142.81	-12	5	20	16	4.56	4.449			
800	799	802	801	3	3	-141.23	-13	-5	21	15	5.28	3.921			
900	898	902	901	3	3	-139.21	-14	-19	21	15	6.01	3.535			
1000	997	1003	1000	3	3	-136.84	-15	-37	22	15	6.77	3.245 ES			
1100	1094	1103	1098	4	4	-134.21	-17	-58	23	15	7.56	3.023			
1200	1191	1204	1195	4	4	-131.40	-19	-82	24	16	8.41	2.850			
1300	1288	1304	1292	5	5	-128.50	-21	-110	25	16	9.33	2.712			
1395	1378	1400	1382	5	5	-125.91	-23	-139	27	17	10.28	2.609			
1400	1383	1405	1387	5	5	-125.84	-23	-141	27	17	10.33	2.606			
1500	1477	1505	1482	6	6	-124.53	-26	-172	29	18	11.38	2.549			
1600	1572	1605	1577	6	6	-123.40	-28	-204	31	19	12.46	2.496			
1700	1667	1705	1672	7	7	-122.41	-31	-236	33	20	13.57	2.448			
1800	1761	1805	1766	8	8	-121.54	-33	-268	35	21	14.70	2.404			
1900	1856	1905	1861	8	8	-120.76	-36	-299	37	22	15.85	2.365			
2000	1950	2005	1956	9	9	-120.07	-38	-331	40	23	17.01	2.329			
2100	2045	2105	2051	9	9	-119.46	-41	-363	42	24	18.17	2.297			
2200	2140	2205	2146	10	10	-118.90	-43	-394	44	25	19.35	2.268			
2300	2234	2305	2240	11	11	-118.39	-45	-426	46	26	20.54	2.242			
2400	2329	2405	2335	11	11	-117.93	-48	-458	48	26	21.73	2.217			
2500	2423	2505	2430	12	12	-117.51	-50	-489	50	27	22.93	2.195			
2600	2518	2605	2525	13	12	-117.12	-53	-521	52	28	24.13	2.175			
2700	2613	2704	2619	13	13	-116.76	-55	-553	55	29	25.34	2.157			
2800	2707	2804	2714	14	14	-116.43	-58	-585	57	30	26.55	2.140			
2900	2802	2904	2809	14	14	-116.13	-60	-616	59	31	27.76	2.124			
3000	2896	3004	2904	15	15	-115.85	-63	-648	61	32	28.98	2.110			
3100	2991	3104	2999	16	16	-115.58	-65	-680	63	33	30.20	2.096			
3200	3086	3204	3093	16	16	-115.33	-67	-711	65	34	31.42	2.084			
3300	3180	3304	3188	17	17	-115.10	-70	-743	68	35	32.64	2.072			
3400	3275	3404	3283	18	17	-114.89	-72	-775	70	36	33.87	2.061			
3500	3369	3504	3378	18	18	-114.68	-75	-806	72	37	35.09	2.051			
3600	3464	3604	3473	19	19	-114.49	-77	-838	74	38	36.32	2.042			
3700	3559	3704	3567	19	19	-114.31	-80	-870	76	39	37.55	2.033			
3800	3653	3804	3662	20	20	-114.14	-82	-902	78	40	38.78	2.024 SF			
3900	3748	3893	3748	21	20	-115.21	-88	-926	87	47	39.47	2.199			
4000	3843	3979	3830	21	21	-117.89	-103	-941	108	69	39.22	2.757			
4100	3937	4057	3906	22	21	-120.63	-123	-948	142	103	38.30	3.702			
4209	4040	4135	3978	23	21	-122.95	-149	-948	191	154	36.89	5.172			
4250	4079	4162	4003	23	21	-114.82	-160	-947	211	175	36.28	5.820			
4300	4128	4200	4038	23	21	-101.34	-176	-943	235	199	35.98	6.530			
4350	4176	4227	4061	23	21	-84.36	-188	-939	257	223	34.62	7.434			
4400	4225	4258	4089	24	21	-67.03	-203	-934	279	245	33.68	8.271			
4450	4273	4290	4115	24	21	-52.38	-219	-927	299	266	32.68	9.135			
4500	4320	4321	4141	24	21	-41.40	-236	-920	317	286	31.62	10.033			
4550	4367	4350	4163	24	21	-33.51	-252	-912	335	304	30.30	11.041			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 136H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4600	4413	4383	4189	24	22	-27.85	-271	-902	350	321	29.32	11.949	
4650	4457	4414	4211	24	22	-23.68	-289	-892	365	337	28.11	12.979	
4700	4500	4450	4236	24	22	-20.57	-311	-879	378	351	27.30	13.842	
4750	4540	4475	4252	24	22	-18.16	-327	-869	389	364	25.60	15.209	
4800	4579	4500	4268	24	22	-16.27	-344	-858	399	375	23.92	16.692	
4850	4614	4535	4289	24	22	-14.78	-367	-842	408	385	23.05	17.688	
4900	4648	4565	4306	24	22	-13.58	-388	-828	415	393	21.81	19.014	
4950	4678	4600	4324	24	22	-12.60	-411	-811	420	399	20.93	20.076	
5000	4705	4626	4336	24	22	-11.80	-429	-797	424	404	19.49	21.753	
5050	4729	4650	4347	25	22	-11.15	-447	-784	426	408	18.12	23.524	
5100	4750	4686	4361	25	22	-10.61	-472	-763	427	409	17.57	24.294	
5150	4767	4715	4372	25	22	-10.16	-494	-746	426	409	16.84	25.301	
5200	4780	4750	4383	25	22	-9.80	-519	-725	424	407	16.52	25.640	
5250	4790	4775	4390	25	22	-9.53	-537	-708	420	404	16.04	26.154	
5300	4796	4800	4395	26	22	-9.32	-555	-693	414	398	15.89	26.070	
5350	4798	4836	4402	26	23	-9.16	-581	-669	407	391	16.22	25.097	
5358	4798	4850	4404	26	23	-9.12	-591	-659	406	390	16.39	24.770	
5400	4798	4866	4406	27	23	-9.09	-603	-649	400	383	16.68	23.966	
5500	4798	4928	4410	28	23	-9.03	-647	-606	392	374	18.28	21.452	
5530	4797	4947	4410	28	23	-9.03	-661	-592	392	373	18.89	20.741	
5600	4797	5017	4410	29	24	-9.03	-710	-543	392	372	19.77	19.818	
5700	4797	5117	4409	31	26	-9.02	-781	-472	392	371	21.09	18.582	
5800	4796	5217	4409	33	28	-9.02	-852	-401	392	369	22.47	17.445	
5900	4795	5317	4408	35	29	-9.02	-922	-330	392	368	23.89	16.404	
6000	4795	5417	4408	37	31	-9.02	-993	-259	392	367	25.36	15.456	
6100	4794	5517	4407	39	33	-9.02	-1063	-188	392	365	26.86	14.592	
6200	4794	5617	4406	41	36	-9.02	-1134	-118	392	364	28.40	13.806	
6300	4793	5717	4406	43	38	-9.02	-1205	-47	392	362	29.95	13.090	
6400	4793	5817	4405	45	40	-9.02	-1275	24	392	361	31.53	12.436	
6500	4792	5917	4405	48	42	-9.02	-1346	95	392	359	33.12	11.838	
6600	4791	6017	4404	50	45	-9.02	-1416	166	392	357	34.73	11.290	
6700	4791	6117	4404	52	47	-9.02	-1487	236	392	356	36.36	10.787	
6800	4790	6217	4403	55	50	-9.02	-1558	307	392	354	37.99	10.323	
6900	4790	6317	4402	57	52	-9.02	-1628	378	392	353	39.64	9.896	
7000	4789	6417	4402	60	54	-9.02	-1699	449	392	351	41.29	9.500	
7100	4789	6517	4401	62	57	-9.02	-1769	520	392	349	42.95	9.133	
7200	4788	6617	4401	65	59	-9.02	-1840	591	392	348	44.62	8.792	
7300	4787	6717	4400	67	62	-9.02	-1911	661	392	346	46.30	8.475	
7400	4787	6817	4399	69	64	-9.02	-1981	732	392	344	47.98	8.178	
7500	4786	6917	4399	72	67	-9.02	-2052	803	392	343	49.66	7.901	
7600	4786	7017	4398	74	69	-9.02	-2122	874	392	341	51.35	7.642	
7700	4785	7117	4398	77	72	-9.02	-2193	945	392	339	53.05	7.398	
7800	4785	7217	4397	79	74	-9.02	-2264	1016	392	338	54.75	7.169	
7900	4784	7317	4396	82	77	-9.02	-2334	1086	393	336	56.45	6.954	
8000	4784	7417	4396	84	79	-9.02	-2405	1157	393	334	58.15	6.750	
8100	4783	7517	4395	87	82	-9.02	-2475	1228	393	333	59.86	6.558	
8200	4782	7617	4395	89	84	-9.02	-2546	1299	393	331	61.57	6.377	
8300	4782	7717	4394	92	87	-9.02	-2617	1370	393	329	63.28	6.205	
8400	4781	7817	4393	94	89	-9.02	-2687	1440	393	328	64.99	6.041	
8500	4781	7917	4393	97	92	-9.02	-2758	1511	393	326	66.71	5.886	
8600	4780	8017	4392	99	94	-9.02	-2828	1582	393	324	68.43	5.739	
8700	4780	8117	4392	102	97	-9.02	-2899	1653	393	323	70.15	5.599	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 114H	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: C07 2309 - # 136H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM				Rule Assigned:									Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
8800	4779	8217	4391	105	99	-9.01	-2970	1724	393	321	71.87	5.465		
8900	4778	8317	4391	107	102	-9.01	-3040	1795	393	319	73.59	5.337		
9000	4778	8417	4390	110	105	-9.01	-3111	1865	393	317	75.32	5.216		
9100	4777	8517	4389	112	107	-9.01	-3181	1936	393	316	77.04	5.099		
9200	4777	8617	4389	115	110	-9.01	-3252	2007	393	314	78.77	4.988		
9300	4776	8717	4388	117	112	-9.01	-3323	2078	393	312	80.50	4.881		
9400	4776	8817	4388	120	115	-9.01	-3393	2149	393	311	82.22	4.779		
9500	4775	8917	4387	122	117	-9.01	-3464	2219	393	309	83.95	4.681		
9600	4775	9017	4386	125	120	-9.01	-3534	2290	393	307	85.68	4.586		
9700	4774	9117	4386	127	122	-9.01	-3605	2361	393	306	87.42	4.496		
9800	4773	9217	4385	130	125	-9.01	-3676	2432	393	304	89.15	4.409		
9900	4773	9317	4385	133	128	-9.01	-3746	2503	393	302	90.88	4.325		
10,000	4772	9417	4384	135	130	-9.01	-3817	2574	393	300	92.61	4.244		
10,100	4772	9517	4383	138	133	-9.01	-3887	2644	393	299	94.35	4.167		
10,200	4771	9617	4383	140	135	-9.01	-3958	2715	393	297	96.08	4.092		
10,300	4771	9717	4382	143	138	-9.01	-4029	2786	393	295	97.82	4.019		
10,400	4770	9817	4382	145	140	-9.01	-4099	2857	393	294	99.56	3.949		
10,500	4769	9917	4381	148	143	-9.01	-4170	2928	393	292	101.29	3.882		
10,600	4769	10,017	4380	150	145	-9.01	-4240	2998	393	290	103.03	3.817		
10,700	4768	10,117	4380	153	148	-9.01	-4311	3069	393	289	104.77	3.754		
10,800	4768	10,217	4379	156	151	-9.01	-4382	3140	393	287	106.51	3.693		
10,900	4767	10,317	4379	158	153	-9.01	-4452	3211	393	285	108.24	3.634		
11,000	4767	10,417	4378	161	156	-9.01	-4523	3282	393	283	109.98	3.576		
11,100	4766	10,517	4378	163	158	-9.01	-4593	3353	393	282	111.72	3.521		
11,200	4765	10,617	4377	166	161	-9.01	-4664	3423	393	280	113.46	3.467		
11,300	4765	10,717	4376	168	163	-9.01	-4734	3494	393	278	115.20	3.415		
11,400	4764	10,817	4376	171	166	-9.01	-4805	3565	393	277	116.94	3.365		
11,460	4764	10,877	4375	172	168	-9.01	-4848	3608	393	275	117.99	3.335		



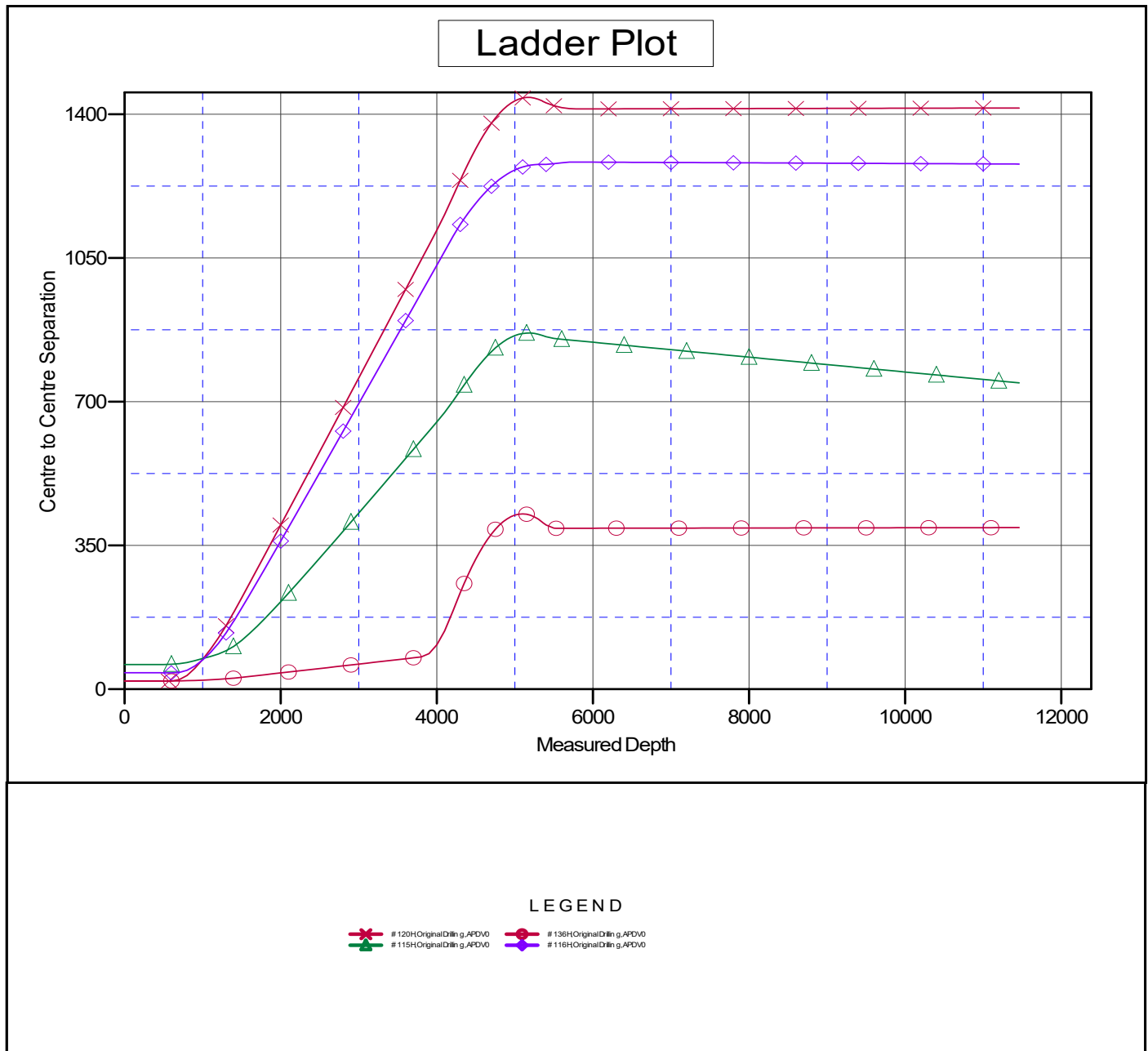
Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
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Reference Well:	# 114H	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 6801' & RKB 14' @ 6815ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333333

Coordinates are relative to: # 114H - Slot 2
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.00°





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 114H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815ft
Reference Site:	C07 2309	MD Reference:	GL 6801' & RKB 14' @ 6815ft
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Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6801' & RKB 14' @ 6815ft

Offset Depths are relative to Offset Datum

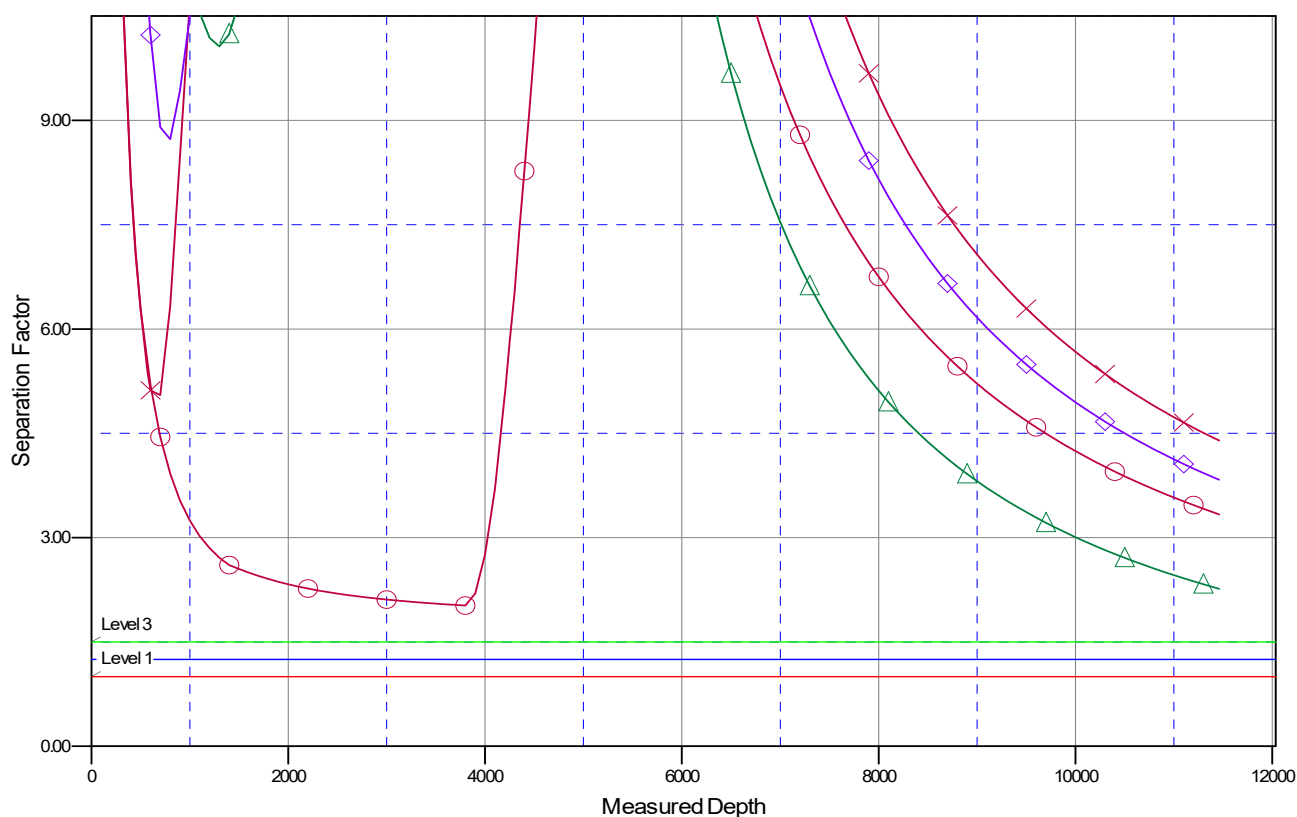
Central Meridian is -107.8333333

Coordinates are relative to: # 114H - Slot 2

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

Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

120H Original Drilling, APOVO
 # 136H Original Drilling, APOVO
 # 115H Original Drilling, APOVO
 # 116H Original Drilling, APOVO



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

PONDEROSA #114H

Lease: NMNM19816

SH: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 7, T.23 N., R.9 W.
San Juan County, New Mexico

BH: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 7, T.23 N., R.9 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 the surface casing to a minimum of _____ psi for 30 minutes.
- D. ☒ Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.
- E. ☒ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, 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.
- F. ☒ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to at Virgil Lucero at 505-793-1836.**
- G. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**
- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all time, unless the well is secured with blowout preventers or cement plugs.
- J. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

II. REPORTING REQUIREMENTS

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

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

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

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

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

District I

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

District II

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

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 262380

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 262380
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/13/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/13/2023
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	9/13/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/13/2023
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	9/13/2023