

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-045-38374
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
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)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 08/16/2024

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SENW / 2296 FNL / 1702 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.27142 / LONG: -107.833394 (TVD: 0 feet, MD: 0 feet)
PPP: NESW / 2317 FSL / 1430 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.26957 / LONG: -107.834314 (TVD: 4579 feet, MD: 4910 feet)
PPP: LOT 2 / 1 FNL / 1120 FWL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.263179 / LONG: -107.826368 (TVD: 4581 feet, MD: 13663 feet)
PPP: SWSE / 1113 FSL / 2647 FEL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.26623 / LONG: -107.830161 (TVD: 4581 feet, MD: 13663 feet)
PPP: NWSW / 2646 FSL / 1138 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.255926 / LONG: -107.817352 (TVD: 4581 feet, MD: 13663 feet)
PPP: SWNW / 1520 FNL / 1 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.259016 / LONG: -107.821193 (TVD: 4581 feet, MD: 13663 feet)
BHL: NESW / 1473 FSL / 2307 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.2527261 / LONG: -107.8133753 (TVD: 4581 feet, MD: 13663 feet)

BLM Point of Contact

Name: CHRISTOPHER P WENMAN
Title: Natural Resource Specialist
Phone: (505) 564-7727
Email: cwenman@blm.gov

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number 30-045-38374	Pool Code 5890	Pool Name BISTI LOWER-GALLOP (O)
Property Code 336268 334695	Property Name PONDEROSA F31 2409 FEDERAL COM	Well Number 144H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6830
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
F	31	24N	9W		2296' NORTH	1702' WEST	36.271420°N NAD83	107.833394°W NAD83	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	5	23N	9W		1473' SOUTH	2307' WEST	36.252726°N NAD83	107.813375°W NAD83	SAN JUAN

Dedicated Acres: SEC 31: LOT 3, E2/SW, S2/SE, NW/SE(240.60 AC.) SEC 6: LOT 1 & 2, SE/NE (121.09 AC.) SEC 5: LOT 4, S2/NW, N2/SW, SE/SW (240.77 AC.) = 602.46 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:	Well setbacks are under Common Ownwerships: ☐ Yes ☐ No			

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	31	24N	9W		2317' SOUTH	1430' WEST	36.269570°N NAD83	107.834314°W NAD83	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	31	24N	9W		2317' SOUTH	1430' WEST	36.269570°N NAD83	107.834314°W NAD83	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	5	23N	9W		1473' SOUTH	2307' WEST	36.252726°N NAD83	107.813375°W NAD83	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I futher certify that this organization has received the concent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool of formation) in which any part of the well's completed interval will be located of obtained a compulsory pooling order from the division. Shaw-Marie Ford9/5/2024 SignatureDate Shaw-Marie Ford Printed Name sford@enduringresources.com E-mail Address	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  GLEN W. RUSSELL Signature and Seal of Professional Surveyor: Certificate NumberDate of Survey 15703AUGUST 30, 2024
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Note: NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

DETAIL: DEDICATED ACRES

SEC. 31: LOT 3, E2/SW, S2/SE, NW/SE (240.60 ACRES)

SEC. 6: LOT 1, LOT 2, SE/NE (121.09 ACRES)

SEC. 5: LOT 4, S2/NW, N2/SW, SE/SW (240.77 ACRES)

TOTAL = 602.46 ACRES

LAST TAKE POINT (LTP)
1473' FSL, 2307' FWL
SEC. 5, T23N, R9W
LAT: 36.252726° N
LONG: 107.813375° W NAD83

DJR OPERATING, LLC
PONDEROSA F31 2409 FEDERAL COM #144H
P F31 2409 FC

SURFACE LOCATION NM 051000
2296' FNL, 1702' FWL
LOCATED IN THE SE/NW OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.271420° N LONG: 107.833394° W NAD83

PPP1(FIRST TAKE POINT) NM 091522
2317' FSL, 1430' FWL
LOCATED IN THE NE/SW OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.269570° N LONG: 107.834314° W NAD83

PPP2 NM 137056
1113' FSL, 2647' FEL
LOCATED IN THE SW/SE OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.266230° N LONG: 107.830161° W NAD83

PPP3 BIA NO-G-0502-1715
1' FNL, 1120' FWL
LOCATED IN LOT 2 OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263179° N LONG: 107.826368° W NAD83

PPP4 BIA NO-G-2227-2017
1520' FNL, 1' FWL
LOCATED IN SW/NW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.259016° N LONG: 107.821193° W NAD83

PPP5 BIA NO-G-2227-2015
2646' FSL, 1138' FWL
LOCATED IN THE NW/SW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.255926° N LONG: 107.817352° W NAD83

PPP6 (LAST TAKE POINT) BOTTOM HOLE LOCATION BIA NO-G-2227-2015
1473' FSL, 2307' FWL
LOCATED IN THE NE/SW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.252726° N LONG: 107.813375° W NAD83

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	² Pool Code 5890	³ Pool Name BISTI LOWER-GALLUP (O)
⁴ Property Code 334695	⁵ Property Name PONDEROSA F31 2409 FEDERAL COM	⁶ Well Number 144H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6830

¹⁰ Surface Location

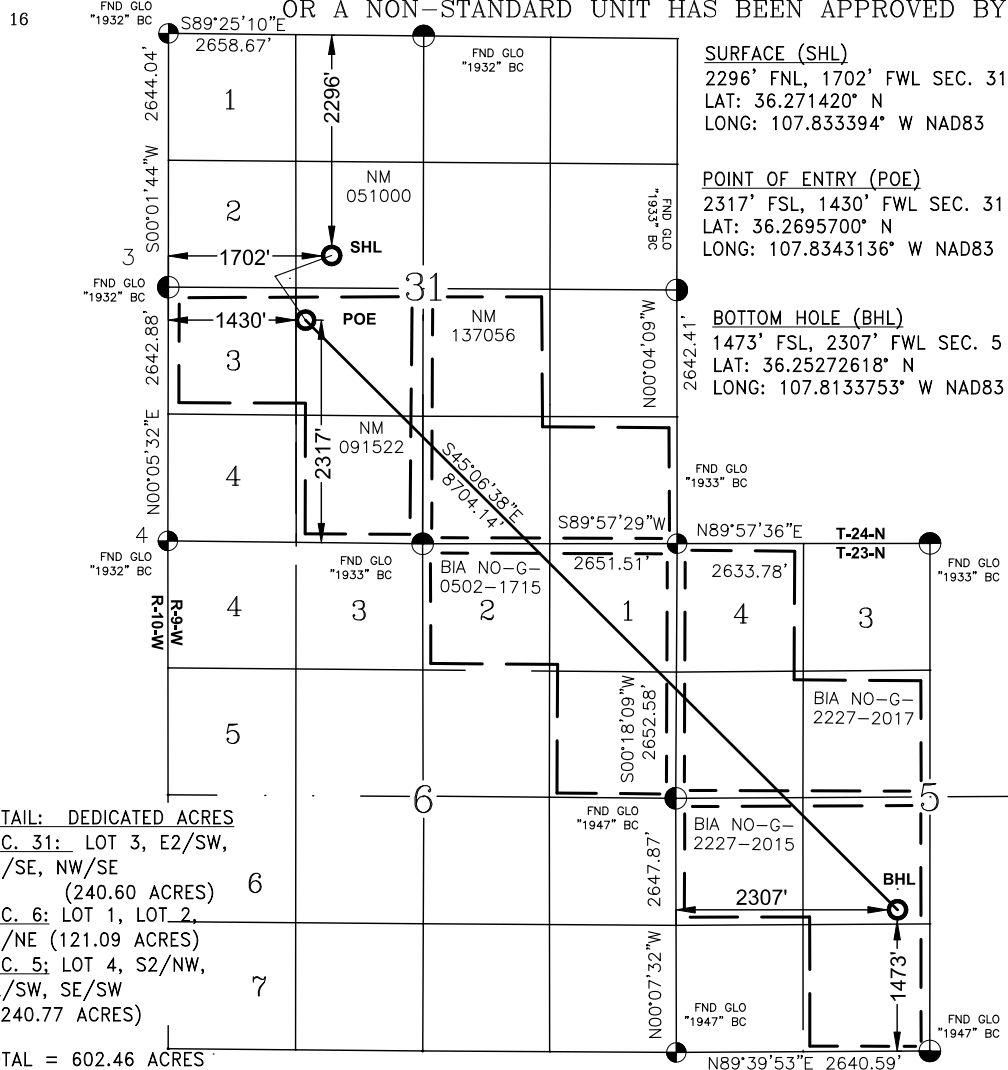
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	31	24-N	9-W		2296	NORTH	1702	WEST	SAN JUAN

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
K	5	23-N	9-W		1473	SOUTH	2307	WEST	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



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 12/04/23

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

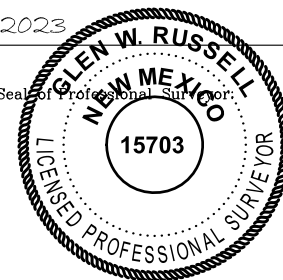
¹⁸ SURVEYOR CERTIFICATION

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.

JULY 25, 2023

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

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: (505) 748-1283 Fax: (505) 334-6178

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

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

ACREAGE DEDICATION AND UNIT BOUNDARY PLAT

DJR OPERATING, LLC

☐ AMENDED REPORT

PONDEROSA F31 2409 FEDERAL COM #144H

P F31 2409 FC

1) N/4 SEC. 31

LAT: 36.277703° N
LONG: 107.830157° W
NAD83

2) NW SEC. 31

LAT: 36.277766° N
LONG: 107.839173° W
NAD83

3) W/4 SEC. 31

LAT: 36.270505° N
LONG: 107.839163° W
NAD83

4) SW SEC. 31

LAT: 36.263248° N
LONG: 107.839164° W
NAD83

5) S/4 SEC. 31

LAT: 36.263175° N
LONG: 107.830167° W
NAD83

6) E/4 SEC. 31

LAT: 36.270447° N
LONG: 107.821200° W
NAD83

7) SE SEC. 31

LAT: 36.263191° N
LONG: 107.821176° W
NAD83

8) N/4 SEC. 5

LAT: 36.263206° N
LONG: 107.812246° W
NAD83

9) W/4 SEC. 5

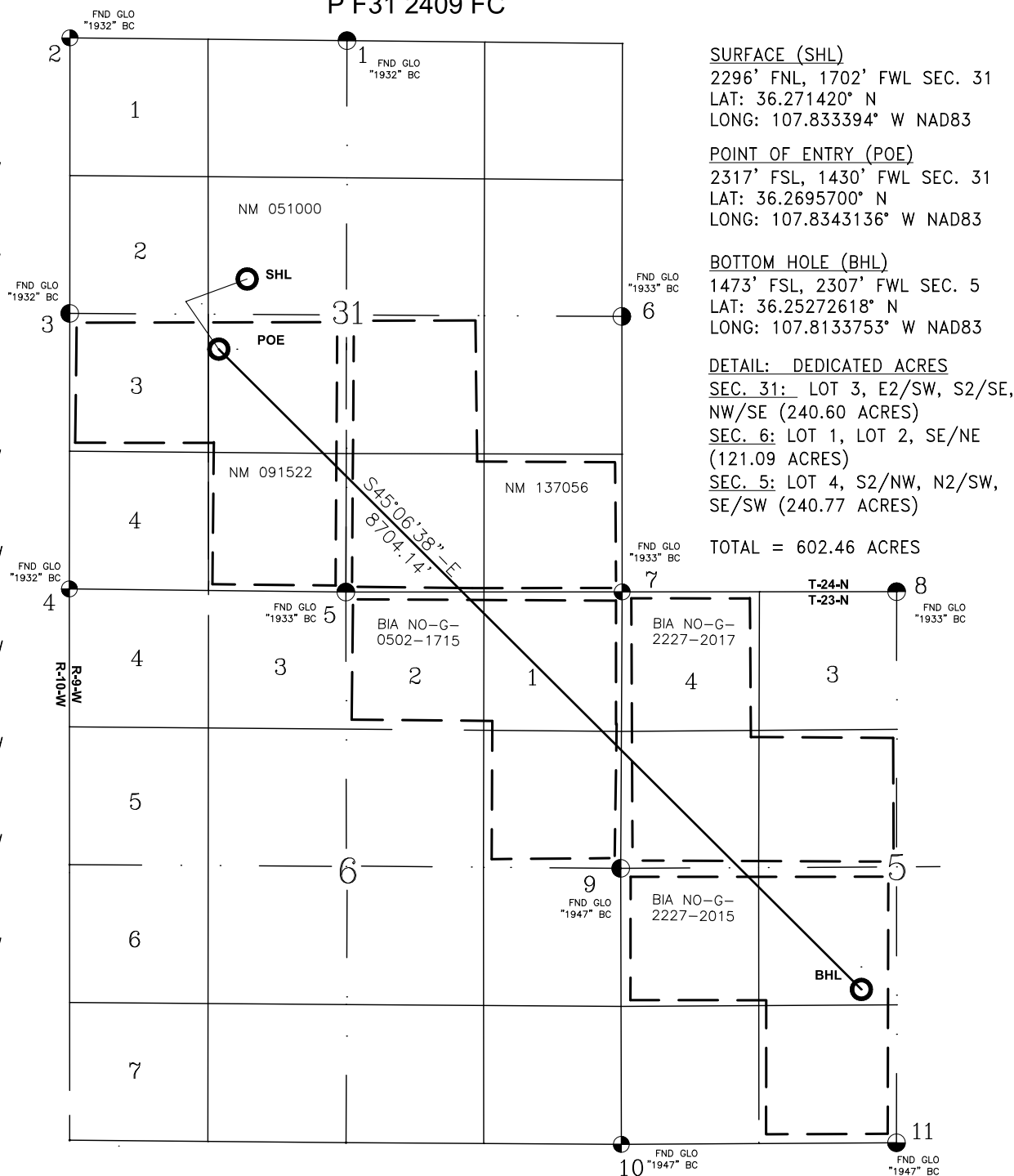
LAT: 36.255907° N
LONG: 107.821211° W
NAD83

10) SW SEC. 5

LAT: 36.248637° N
LONG: 107.821179° W
NAD83

11) S/4 SEC. 5

LAT: 36.248689° N
LONG: 107.812227° W
NAD83



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

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

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** DJR Operating, LLC **OGRID:** 371838 **Date:** 09 / 05 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Ponderosa F31 2409 FED COM 124H	TBD	F-31-24N-09W	2256' FNL x 1702' FWL	286	71	114
Ponderosa F31 2409 FED COM 129H	TBD	F-31-24N-09W	2317' FNL x 1702' FWL	218	54	87
Ponderosa F31 2409 FED COM 130H	TBD	F-31-24N-09W	2276' FNL x 1702' FWL	306	688	122
Ponderosa F31 2409 FED COM 144H	TBD	F-31-24N-09W	2296' FNL x 1702' FWL	424	954	170

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 F31 2409 FED COM 124H	TBD	5/31/2025	6/7/2025	8/5/2025	8/18/2025	8/21/2025
Ponderosa F31 2409 FED COM 129H	TBD	6/8/2025	6/17/2025	8/5/2025	8/23/2025	8/26/2025
Ponderosa F31 2409 FED COM 130H	TBD	6/18/2025	6/27/2025	8/5/2025	8/28/2025	8/31/2025
Ponderosa F31 2409 FED COM 144H	TBD	6/28/2025	7/7/2025	8/5/2025	9/2/2025	9/5/2025

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 09/05/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa F31 2409 FED COM 124H, 129H, 130H, 144H
SENW F-31-24N-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.



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VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



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OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



DJR OPERATING, LLC.
OGRID NO: 371838
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Ponderosa F31 2409 FED COM 124H, 129H, 130H, 144H
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BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 0



DRILLING PLAN

Ponderosa F31 2409 Federal COM #144H

San Juan County, New Mexico

Surface Location

1702-ft FWL & 2296-ft FNL
 Sec 31 T24 R9
 Graded Elevation 6830' MSL
 RKB Elevation 6844' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2714200° N
 Longitude 107.8333940° W

Kick Off Point for Horizontal Build Curve

4058-ft MD
 4001-ft TVD

Local Coordinates (from SHL)

216-ft South
 589-ft West

Heel Location (Pay zone entry)

1430-ft FWL & 2317-ft FSL
 Sec 31 T24 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.26957° N
 Longitude 107.83431364° W

Bottom Hole Location (TD)

2307-ft FWL & 1473-ft FSL
 Sec 5 T23 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.25272618° N
 Longitude 107.8133753° W

Well objectives

This well is planned as a 8700-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 131°F. Bottom hole pressure in the Mancos Silt is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	589	589	Sd	W	8.3	8.4 – 8.8
Kirtland	679	679	Sh	-	8.3	8.4 – 8.8
Fruitland	867	865	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1292	1283	Sd	W	8.3	9.0 - 9.5
Lewis	1425	1414	Sh	-		9.0 - 9.5
Chacra	2038	2016	Sd	-	8.3	9.0 - 9.5
Menefee	2754	2719	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3763	3711	Sd	-	8.3	9.0 - 9.5
Mancos	3918	3863	Sh	-		9.0 - 9.5
Mancos Silt	4295	4230	Slt	O/G	6.6	9.0 - 9.5
Gallup A	NP	NP	Slt	O/G	6.6	9.0 - 9.5
Gallup B	NP	NP	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	4962	4581	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	380	surf	380	surface
7"	8-3/4"	26	K-55	LTC	surf	4910	surf	4579	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4668	13663	4507	4519	4668

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 Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	3918-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	435	105
Volume (bbls)	180	28
Volume (cu.ft.)	1010	158
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4668-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	778
Volume (cu.ft)	211
Excess %	1183
	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 – 380	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	380 – 4910	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	4910 – 13663	8.8 – 9.2	34 – 38	6 – 8	6 – 8

Cores, tests and logs

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

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

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

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

Cuttings and drilling fluids management

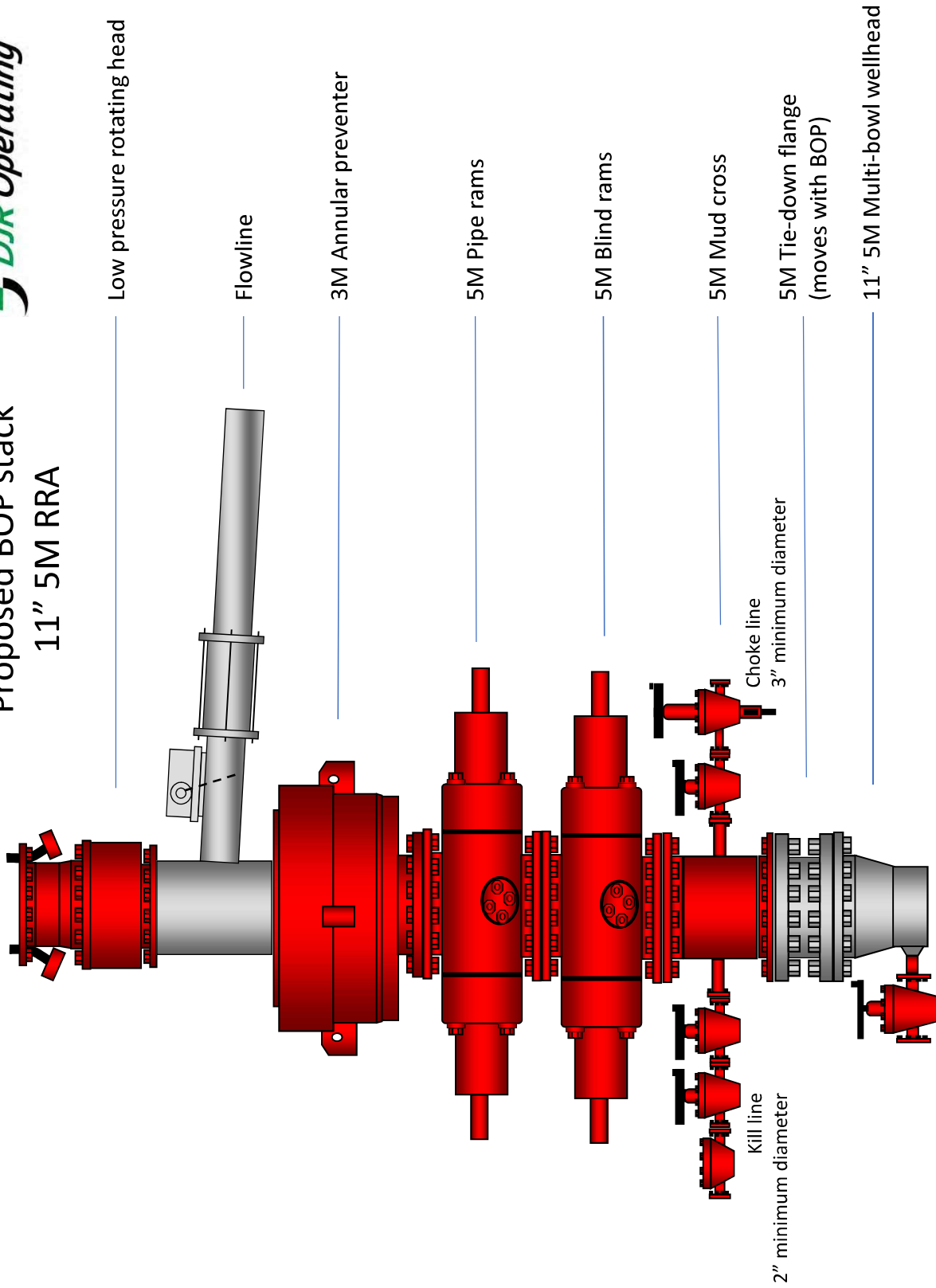
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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

Completion

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



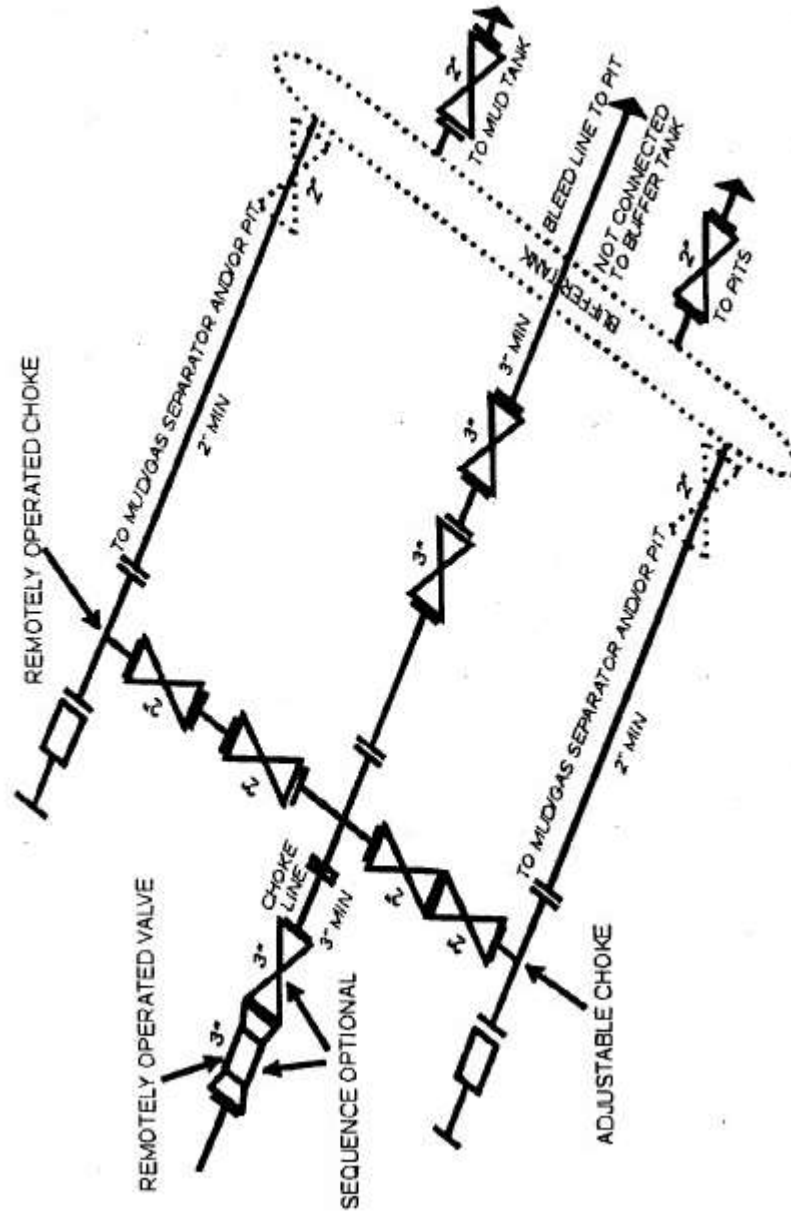
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Ponderosa Unit
Site: F31 2409
Well: 144H
Wellbore: Original Drilling
Design: APD

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



WELL DETAILS: 144H

GL 6830' & RKB 14' @ 6844ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1918095.90	2723073.78	36.27142000	-107.83339400

Plan: APD (144H/Original Drilling)

Created By: Janie Collins Date: 15:42, August 01 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
144H Heel	4581	-673	-271	1917422.45	2722802.69	36.26957000	-107.83431364
144H Toe	4519	-6804	5902	1911291.51	2728976.10	36.25272618	-107.81337532

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
425	0.00	0.00	425	0	0	0.00	0.00	0
962	10.74	249.85	959	-17	-47	2.00	249.85	-18
4058	10.74	249.85	4001	-216	-589	0.00	0.00	-223
4962	90.41	134.80	4581	-673	-271	10.50	-114.59	331
13663	90.41	134.80	4519	-6804	5902	0.00	0.00	9008



Azimuths to True North
Magnetic North: 10.06°

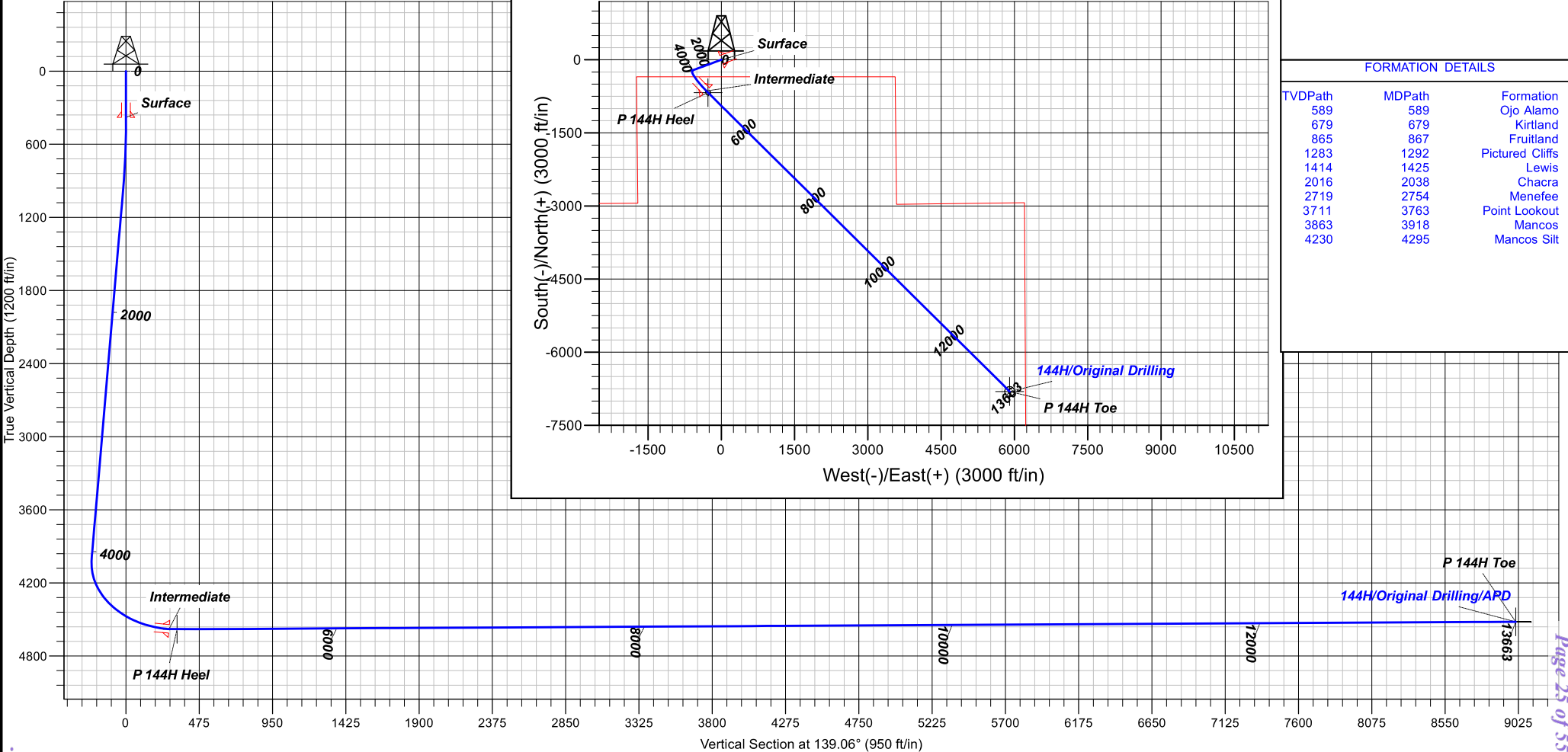
Magnetic Field
Strength: 50626.8 nT
Dip Angle: 63.09°
Date: 12/31/2019
Model: IGRF2005.10

CASING DETAILS

TVD	MD	Name
380	380	Surface
4579	4910	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
589	589	Ojo Alamo
679	679	Kirtland
865	867	Fruitland
1283	1292	Pictured Cliffs
1414	1425	Lewis
2016	2038	Chacra
2719	2754	Menefee
3711	3763	Point Lookout
3863	3918	Mancos
4230	4295	Mancos Silt





DJR Operating

Ponderosa Unit

F31 2409

144H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

01 August, 2022





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 144H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	144H	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	F31 2409				
Site Position:		Northing:	1,918,075.51 usft	Latitude:	36.27136400
From:	Lat/Long	Easting:	2,723,073.78 usft	Longitude:	-107.83339400
Position Uncertainty:	0 ft	Slot Radius:	13.20 in		

Well	144H - Slot 2					
Well Position	+N/-S	0 ft	Northing:	1,918,095.90 usft	Latitude:	36.27142000
	+E/-W	0 ft	Easting:	2,723,073.78 usft	Longitude:	-107.83339400
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6830 ft
Grid Convergence:		0.00 °				

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.03	63.09	50,626.79485912

Design	APD			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	139.06

Plan Survey Tool Program			Date	7/29/2022	
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0	13,663	APD (Original Drilling)	MWD+IGRF	
				OWSG MWD + IGRF or WMM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
425	0.00	0.00	425	0	0	0.00	0.00	0.00	0.00	
962	10.74	249.85	959	-17	-47	2.00	2.00	0.00	249.85	
4058	10.74	249.85	4001	-216	-589	0.00	0.00	0.00	0.00	
4962	90.41	134.80	4581	-673	-271	10.50	8.81	-12.73	-114.59	P 144H Heel
13,663	90.41	134.80	4519	-6804	5902	0.00	0.00	0.00	0.00	P 144H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 144H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	144H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
425	0.00	0.00	425	0	0	0	0.00	0.00	0.00
500	1.50	249.85	500	0	-1	0	2.00	2.00	0.00
600	3.50	249.85	600	-2	-5	-2	2.00	2.00	0.00
700	5.50	249.85	700	-5	-12	-5	2.00	2.00	0.00
800	7.50	249.85	799	-8	-23	-9	2.00	2.00	0.00
900	9.50	249.85	898	-14	-37	-14	2.00	2.00	0.00
962	10.74	249.85	959	-17	-47	-18	2.00	2.00	0.00
1000	10.74	249.85	996	-20	-54	-20	0.00	0.00	0.00
1100	10.74	249.85	1094	-26	-71	-27	0.00	0.00	0.00
1200	10.74	249.85	1193	-33	-89	-34	0.00	0.00	0.00
1300	10.74	249.85	1291	-39	-106	-40	0.00	0.00	0.00
1400	10.74	249.85	1389	-45	-124	-47	0.00	0.00	0.00
1500	10.74	249.85	1487	-52	-141	-53	0.00	0.00	0.00
1600	10.74	249.85	1586	-58	-159	-60	0.00	0.00	0.00
1700	10.74	249.85	1684	-65	-176	-67	0.00	0.00	0.00
1800	10.74	249.85	1782	-71	-194	-73	0.00	0.00	0.00
1900	10.74	249.85	1880	-78	-211	-80	0.00	0.00	0.00
2000	10.74	249.85	1979	-84	-229	-86	0.00	0.00	0.00
2100	10.74	249.85	2077	-90	-246	-93	0.00	0.00	0.00
2200	10.74	249.85	2175	-97	-264	-100	0.00	0.00	0.00
2300	10.74	249.85	2273	-103	-281	-106	0.00	0.00	0.00
2400	10.74	249.85	2372	-110	-299	-113	0.00	0.00	0.00
2500	10.74	249.85	2470	-116	-316	-120	0.00	0.00	0.00
2600	10.74	249.85	2568	-122	-334	-126	0.00	0.00	0.00
2700	10.74	249.85	2666	-129	-351	-133	0.00	0.00	0.00
2800	10.74	249.85	2765	-135	-369	-139	0.00	0.00	0.00
2900	10.74	249.85	2863	-142	-386	-146	0.00	0.00	0.00
3000	10.74	249.85	2961	-148	-404	-153	0.00	0.00	0.00
3100	10.74	249.85	3059	-155	-421	-159	0.00	0.00	0.00
3200	10.74	249.85	3158	-161	-439	-166	0.00	0.00	0.00
3300	10.74	249.85	3256	-167	-456	-172	0.00	0.00	0.00
3400	10.74	249.85	3354	-174	-474	-179	0.00	0.00	0.00
3500	10.74	249.85	3452	-180	-491	-186	0.00	0.00	0.00
3600	10.74	249.85	3551	-187	-509	-192	0.00	0.00	0.00
3700	10.74	249.85	3649	-193	-526	-199	0.00	0.00	0.00
3800	10.74	249.85	3747	-200	-544	-206	0.00	0.00	0.00
3900	10.74	249.85	3845	-206	-561	-212	0.00	0.00	0.00
4000	10.74	249.85	3944	-212	-579	-219	0.00	0.00	0.00
4058	10.74	249.85	4001	-216	-589	-223	0.00	0.00	0.00
4100	9.76	225.69	4042	-220	-595	-224	10.50	-2.36	-57.97
4200	14.20	177.71	4140	-238	-601	-214	10.50	4.44	-47.98
4300	22.94	158.85	4235	-269	-593	-186	10.50	8.74	-18.85
4400	32.70	150.42	4323	-310	-573	-141	10.50	9.76	-8.44
4500	42.78	145.59	4402	-362	-540	-80	10.50	10.08	-4.83
4600	53.00	142.32	4469	-422	-496	-7	10.50	10.22	-3.26
4700	63.29	139.84	4522	-488	-443	78	10.50	10.29	-2.48
4800	73.61	137.77	4558	-558	-382	171	10.50	10.32	-2.07
4900	83.95	135.92	4578	-629	-315	269	10.50	10.34	-1.86
4962	90.41	134.80	4581	-673	-271	331	10.50	10.35	-1.79



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 144H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	144H	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)
5000	90.41	134.80	4581	-700	-244	369	0.00	0.00	0.00
5100	90.41	134.80	4580	-770	-173	468	0.00	0.00	0.00
5200	90.41	134.80	4579	-841	-103	568	0.00	0.00	0.00
5300	90.41	134.80	4579	-911	-32	668	0.00	0.00	0.00
5400	90.41	134.80	4578	-982	39	767	0.00	0.00	0.00
5500	90.41	134.80	4577	-1052	110	867	0.00	0.00	0.00
5600	90.41	134.80	4576	-1123	181	967	0.00	0.00	0.00
5700	90.41	134.80	4576	-1193	252	1067	0.00	0.00	0.00
5800	90.41	134.80	4575	-1264	323	1166	0.00	0.00	0.00
5900	90.41	134.80	4574	-1334	394	1266	0.00	0.00	0.00
6000	90.41	134.80	4574	-1405	465	1366	0.00	0.00	0.00
6100	90.41	134.80	4573	-1475	536	1466	0.00	0.00	0.00
6200	90.41	134.80	4572	-1546	607	1565	0.00	0.00	0.00
6300	90.41	134.80	4571	-1616	678	1665	0.00	0.00	0.00
6400	90.41	134.80	4571	-1686	749	1765	0.00	0.00	0.00
6500	90.41	134.80	4570	-1757	820	1864	0.00	0.00	0.00
6600	90.41	134.80	4569	-1827	891	1964	0.00	0.00	0.00
6700	90.41	134.80	4569	-1898	962	2064	0.00	0.00	0.00
6800	90.41	134.80	4568	-1968	1033	2164	0.00	0.00	0.00
6900	90.41	134.80	4567	-2039	1104	2263	0.00	0.00	0.00
7000	90.41	134.80	4566	-2109	1175	2363	0.00	0.00	0.00
7100	90.41	134.80	4566	-2180	1246	2463	0.00	0.00	0.00
7200	90.41	134.80	4565	-2250	1317	2562	0.00	0.00	0.00
7300	90.41	134.80	4564	-2321	1387	2662	0.00	0.00	0.00
7400	90.41	134.80	4564	-2391	1458	2762	0.00	0.00	0.00
7500	90.41	134.80	4563	-2462	1529	2862	0.00	0.00	0.00
7600	90.41	134.80	4562	-2532	1600	2961	0.00	0.00	0.00
7700	90.41	134.80	4561	-2602	1671	3061	0.00	0.00	0.00
7800	90.41	134.80	4561	-2673	1742	3161	0.00	0.00	0.00
7900	90.41	134.80	4560	-2743	1813	3261	0.00	0.00	0.00
8000	90.41	134.80	4559	-2814	1884	3360	0.00	0.00	0.00
8100	90.41	134.80	4559	-2884	1955	3460	0.00	0.00	0.00
8200	90.41	134.80	4558	-2955	2026	3560	0.00	0.00	0.00
8300	90.41	134.80	4557	-3025	2097	3659	0.00	0.00	0.00
8400	90.41	134.80	4556	-3096	2168	3759	0.00	0.00	0.00
8500	90.41	134.80	4556	-3166	2239	3859	0.00	0.00	0.00
8600	90.41	134.80	4555	-3237	2310	3959	0.00	0.00	0.00
8700	90.41	134.80	4554	-3307	2381	4058	0.00	0.00	0.00
8800	90.41	134.80	4554	-3378	2452	4158	0.00	0.00	0.00
8900	90.41	134.80	4553	-3448	2523	4258	0.00	0.00	0.00
9000	90.41	134.80	4552	-3519	2594	4357	0.00	0.00	0.00
9100	90.41	134.80	4552	-3589	2665	4457	0.00	0.00	0.00
9200	90.41	134.80	4551	-3659	2736	4557	0.00	0.00	0.00
9300	90.41	134.80	4550	-3730	2807	4657	0.00	0.00	0.00
9400	90.41	134.80	4549	-3800	2877	4756	0.00	0.00	0.00
9500	90.41	134.80	4549	-3871	2948	4856	0.00	0.00	0.00
9600	90.41	134.80	4548	-3941	3019	4956	0.00	0.00	0.00
9700	90.41	134.80	4547	-4012	3090	5055	0.00	0.00	0.00
9800	90.41	134.80	4547	-4082	3161	5155	0.00	0.00	0.00
9900	90.41	134.80	4546	-4153	3232	5255	0.00	0.00	0.00
10,000	90.41	134.80	4545	-4223	3303	5355	0.00	0.00	0.00
10,100	90.41	134.80	4544	-4294	3374	5454	0.00	0.00	0.00
10,200	90.41	134.80	4544	-4364	3445	5554	0.00	0.00	0.00
10,300	90.41	134.80	4543	-4435	3516	5654	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 144H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	144H	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	90.41	134.80	4542	-4505	3587	5754	0.00	0.00	0.00	
10,500	90.41	134.80	4542	-4575	3658	5853	0.00	0.00	0.00	
10,600	90.41	134.80	4541	-4646	3729	5953	0.00	0.00	0.00	
10,700	90.41	134.80	4540	-4716	3800	6053	0.00	0.00	0.00	
10,800	90.41	134.80	4539	-4787	3871	6152	0.00	0.00	0.00	
10,900	90.41	134.80	4539	-4857	3942	6252	0.00	0.00	0.00	
11,000	90.41	134.80	4538	-4928	4013	6352	0.00	0.00	0.00	
11,100	90.41	134.80	4537	-4998	4084	6452	0.00	0.00	0.00	
11,200	90.41	134.80	4537	-5069	4155	6551	0.00	0.00	0.00	
11,300	90.41	134.80	4536	-5139	4226	6651	0.00	0.00	0.00	
11,400	90.41	134.80	4535	-5210	4297	6751	0.00	0.00	0.00	
11,500	90.41	134.80	4534	-5280	4368	6850	0.00	0.00	0.00	
11,600	90.41	134.80	4534	-5351	4438	6950	0.00	0.00	0.00	
11,700	90.41	134.80	4533	-5421	4509	7050	0.00	0.00	0.00	
11,800	90.41	134.80	4532	-5492	4580	7150	0.00	0.00	0.00	
11,900	90.41	134.80	4532	-5562	4651	7249	0.00	0.00	0.00	
12,000	90.41	134.80	4531	-5632	4722	7349	0.00	0.00	0.00	
12,100	90.41	134.80	4530	-5703	4793	7449	0.00	0.00	0.00	
12,200	90.41	134.80	4529	-5773	4864	7549	0.00	0.00	0.00	
12,300	90.41	134.80	4529	-5844	4935	7648	0.00	0.00	0.00	
12,400	90.41	134.80	4528	-5914	5006	7748	0.00	0.00	0.00	
12,500	90.41	134.80	4527	-5985	5077	7848	0.00	0.00	0.00	
12,600	90.41	134.80	4527	-6055	5148	7947	0.00	0.00	0.00	
12,700	90.41	134.80	4526	-6126	5219	8047	0.00	0.00	0.00	
12,800	90.41	134.80	4525	-6196	5290	8147	0.00	0.00	0.00	
12,900	90.41	134.80	4524	-6267	5361	8247	0.00	0.00	0.00	
13,000	90.41	134.80	4524	-6337	5432	8346	0.00	0.00	0.00	
13,100	90.41	134.80	4523	-6408	5503	8446	0.00	0.00	0.00	
13,200	90.41	134.80	4522	-6478	5574	8546	0.00	0.00	0.00	
13,300	90.41	134.80	4522	-6548	5645	8645	0.00	0.00	0.00	
13,400	90.41	134.80	4521	-6619	5716	8745	0.00	0.00	0.00	
13,500	90.41	134.80	4520	-6689	5787	8845	0.00	0.00	0.00	
13,600	90.41	134.80	4519	-6760	5858	8945	0.00	0.00	0.00	
13,663	90.41	134.80	4519	-6804	5902	9008	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
P 144H Toe	0.00	0.00	4519	-6804	5902	1,911,291.51	2,728,976.10	36.25272618	-107.81337532
- plan hits target center									
- Circle (radius 100)									
P 144H Heel	0.00	0.00	4581	-673	-271	1,917,422.46	2,722,802.69	36.26957000	-107.83431364
- plan hits target center									
- Circle (radius 50)									



Database:	Grand Junction	Local Co-ordinate Reference:	Well 144H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	144H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
380	380	Surface	9.63	12.25	
4910	4579	Intermediate	7.00	8.75	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
589	589	Ojo Alamo		0.00	0.00	
679	679	Kirtland		0.00	0.00	
867	865	Fruitland		0.00	0.00	
1292	1283	Pictured Cliffs		0.00	0.00	
1425	1414	Lewis		0.00	0.00	
2038	2016	Chacra		0.00	0.00	
2754	2719	Menefee		0.00	0.00	
3763	3711	Point Lookout		0.00	0.00	
3918	3863	Mancos		0.00	0.00	
4295	4230	Mancos Silt		0.00	0.00	



DJR Operating

Ponderosa Unit

F31 2409

144H

Original Drilling

APD

Anticollision Report

01 August, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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 8000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/29/2022		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	13,663	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
F31 2409						
124H - Original Drilling - APD	1282	1285	31	21	3.147	CC
124H - Original Drilling - APD	1300	1303	31	21	3.100	ES
124H - Original Drilling - APD	13,663	14,222	599	163	1.373	Level 3, SF
129H - Original Drilling - APD	425	425	20	18	7.300	CC
129H - Original Drilling - APD	600	599	21	17	5.232	ES
129H - Original Drilling - APD	13,504	13,723	400	186	1.872	SF
130H - Original Drilling - APD	537	537	19	16	5.414	CC, ES
130H - Original Drilling - APD	12,900	12,324	802	405	2.021	SF

Offset Design: F31 2409 - 124H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF								Rule Assigned:					Offset Well Error: 0 ft	
Reference	Offset	Semi Major Axis		Highside			Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Major Axis (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
0	0	0	0	0	0	0.42	40	0	40					
100	100	100	100	0	0	0.42	40	0	40	40	0.46	86.594		
200	200	200	200	1	1	0.42	40	0	40	39	1.18	33.954		
300	300	300	300	1	1	0.42	40	0	40	38	1.90	21.117		
400	400	400	400	1	1	0.42	40	0	40	37	2.61	15.323		
425	425	425	425	1	1	0.42	40	0	40	37	2.79	14.340		
500	500	500	500	2	2	110.59	40	-1	40	37	3.31	12.066		
600	600	601	601	2	2	110.69	38	-5	40	36	4.00	9.936		
700	700	702	701	2	2	110.86	35	-12	39	35	4.72	8.350		
800	799	802	801	3	3	111.11	30	-23	39	33	5.46	7.106		
900	898	903	900	3	3	111.44	24	-36	38	32	6.25	6.092		
962	959	965	962	3	3	111.70	20	-46	38	31	6.78	5.544		
1000	996	1003	999	4	4	111.51	17	-53	37	30	7.10	5.227		
1100	1094	1104	1097	4	4	107.35	9	-73	35	27	8.03	4.362		
1200	1193	1204	1194	5	5	96.72	-1	-96	32	23	9.06	3.571		
1282	1273	1285	1272	5	5	82.33	-10	-118	31	21	9.93	3.147	CC	
1300	1291	1303	1289	5	5	78.44	-12	-123	31	21	10.10	3.100	ES	
1400	1389	1402	1383	6	6	55.97	-25	-151	35	24	10.80	3.257		
1500	1487	1500	1476	6	6	37.71	-38	-182	45	34	11.22	4.014		
1600	1586	1599	1568	6	7	26.56	-51	-214	58	46	11.72	4.939		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 124H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
1700	1684	1698	1661	7	8	19.59	-64	-245	72	60	12.31	5.853	
1800	1782	1796	1754	7	8	14.95	-78	-276	87	74	12.98	6.703	
1900	1880	1895	1846	8	9	11.68	-91	-307	102	89	13.68	7.477	
2000	1979	1994	1939	8	10	9.27	-104	-338	118	103	14.41	8.177	
2100	2077	2092	2032	9	11	7.41	-117	-369	134	118	15.15	8.811	
2200	2175	2191	2125	9	11	5.95	-131	-400	149	133	15.91	9.385	
2300	2273	2290	2217	10	12	4.77	-144	-431	165	149	16.67	9.907	
2400	2372	2388	2310	10	13	3.80	-157	-462	181	164	17.45	10.382	
2500	2470	2487	2403	11	14	2.98	-170	-493	197	179	18.22	10.816	
2600	2568	2586	2495	11	14	2.29	-184	-525	213	194	19.00	11.215	
2700	2666	2685	2588	12	15	1.69	-197	-556	229	209	19.79	11.581	
2800	2765	2783	2681	12	16	1.17	-210	-587	245	225	20.57	11.919	
2900	2863	2882	2774	13	17	0.71	-223	-618	261	240	21.36	12.232	
3000	2961	2981	2866	13	17	0.31	-237	-649	277	255	22.15	12.522	
3100	3059	3079	2959	14	18	-0.05	-250	-680	293	271	22.94	12.791	
3200	3158	3178	3052	14	19	-0.37	-263	-711	310	286	23.74	13.043	
3300	3256	3277	3144	15	20	-0.66	-276	-742	326	301	24.53	13.278	
3400	3354	3375	3237	15	20	-0.92	-290	-773	342	317	25.33	13.497	
3500	3452	3474	3330	16	21	-1.16	-303	-805	358	332	26.12	13.704	
3600	3551	3573	3422	16	22	-1.37	-316	-836	374	347	26.92	13.897	
3700	3649	3671	3515	17	23	-1.57	-329	-867	390	363	27.72	14.080	
3800	3747	3770	3608	17	23	-1.76	-343	-898	406	378	28.52	14.252	
3900	3845	3869	3701	18	24	-1.93	-356	-929	423	393	29.32	14.415	
4000	3944	3967	3793	19	25	-2.09	-369	-960	439	409	30.12	14.568	
4058	4001	4025	3847	19	25	-2.17	-377	-978	448	418	30.58	14.654	
4100	4042	4066	3886	19	26	21.02	-382	-991	455	425	30.91	14.734	
4150	4091	4115	3932	19	26	48.81	-389	-1006	466	435	31.31	14.877	
4200	4140	4162	3976	19	26	67.59	-395	-1021	478	446	31.72	15.069	
4250	4188	4208	4020	20	27	78.81	-401	-1036	492	460	32.15	15.301	
4300	4235	4253	4062	20	27	85.81	-407	-1050	508	475	32.63	15.565	
4350	4280	4295	4101	20	27	90.43	-413	-1063	526	493	33.18	15.855	
4400	4323	4335	4139	20	28	93.55	-418	-1076	547	513	33.82	16.165	
4450	4364	4372	4174	20	28	95.57	-423	-1088	570	535	34.55	16.492	
4500	4402	4460	4257	20	29	100.01	-440	-1111	594	558	35.72	16.629	
4550	4437	4580	4369	20	29	104.77	-478	-1126	617	580	36.45	16.915	
4600	4469	4737	4507	20	30	108.92	-553	-1117	635	599	35.92	17.680	
4650	4497	4933	4646	20	30	111.14	-676	-1060	647	613	33.86	19.097	
4700	4522	5144	4739	20	30	110.24	-829	-951	649	616	32.39	20.026	
4750	4542	5315	4761	20	30	107.26	-953	-836	642	608	33.65	19.067	
4800	4558	5362	4761	20	30	107.09	-986	-803	633	598	34.81	18.195	
4850	4570	5410	4760	21	30	106.90	-1020	-768	627	591	35.96	17.445	
4900	4578	5459	4760	21	30	106.75	-1054	-733	624	586	37.18	16.772	
4913	4579	5472	4760	21	30	106.72	-1063	-724	623	585	37.49	16.617	
4950	4581	5509	4760	21	30	106.68	-1089	-698	622	584	38.36	16.212	
4953	4581	5512	4760	21	30	106.68	-1091	-696	622	583	38.43	16.182	
4962	4581	5522	4759	21	30	106.68	-1098	-689	622	583	38.67	16.080	
4970	4581	5530	4759	21	30	106.68	-1104	-683	622	583	38.88	15.993	
5000	4581	5559	4759	21	30	106.68	-1125	-662	622	582	39.61	15.695	
5021	4581	5581	4759	22	31	106.69	-1140	-647	622	581	40.27	15.436	
5100	4580	5659	4758	23	31	106.69	-1195	-591	621	579	42.38	14.665	
5121	4580	5681	4758	23	31	106.69	-1210	-576	621	578	42.98	14.458	
5200	4579	5759	4758	24	31	106.70	-1265	-520	621	576	45.49	13.656	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 124H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5221	4579	5781	4758	24	32	106.70	-1280	-504	621	575	46.17	13.454		
5300	4579	5859	4757	26	32	106.71	-1335	-449	621	572	48.90	12.697		
5321	4578	5881	4757	26	33	106.71	-1350	-433	621	571	49.62	12.511		
5400	4578	5959	4756	27	34	106.71	-1406	-377	621	568	52.25	11.880		
5421	4578	5981	4756	28	34	106.71	-1421	-362	621	568	53.06	11.697		
5500	4577	6059	4756	29	35	106.72	-1476	-306	620	564	56.15	11.049		
5521	4577	6081	4755	30	36	106.72	-1491	-291	620	563	56.99	10.885		
5600	4576	6159	4755	31	37	106.73	-1546	-235	620	560	60.09	10.320		
5621	4576	6181	4755	31	37	106.73	-1561	-220	620	559	60.95	10.173		
5700	4576	6259	4754	33	39	106.73	-1616	-164	620	556	64.14	9.664		
5721	4576	6281	4754	34	39	106.74	-1631	-149	620	555	65.02	9.533		
5800	4575	6359	4753	35	41	106.74	-1687	-93	620	551	68.28	9.075		
5821	4575	6381	4753	36	41	106.74	-1702	-78	620	550	69.17	8.956		
5900	4574	6459	4753	37	43	106.75	-1757	-22	619	547	72.49	8.543		
5921	4574	6481	4753	38	43	106.75	-1772	-6	619	546	73.41	8.436		
6000	4574	6559	4752	39	45	106.76	-1827	49	619	542	76.78	8.063		
6021	4573	6581	4752	40	45	106.76	-1842	65	619	541	77.70	7.967		
6100	4573	6659	4751	42	47	106.76	-1898	121	619	538	81.11	7.629		
6121	4573	6681	4751	42	48	106.76	-1913	136	619	537	82.05	7.541		
6200	4572	6759	4751	44	49	106.77	-1968	192	619	533	85.50	7.234		
6221	4572	6781	4750	44	50	106.77	-1983	207	618	532	86.44	7.155		
6300	4571	6859	4750	46	51	106.78	-2038	263	618	528	89.93	6.875		
6321	4571	6881	4750	47	52	106.78	-2053	278	618	527	90.88	6.803		
6400	4571	6959	4749	48	54	106.78	-2108	334	618	524	94.39	6.548		
6421	4571	6981	4749	49	54	106.79	-2123	349	618	523	95.34	6.481		
6500	4570	7059	4748	51	56	106.79	-2179	405	618	519	98.88	6.248		
6521	4570	7081	4748	51	56	106.79	-2194	420	618	518	99.84	6.187		
6600	4569	7159	4748	53	58	106.80	-2249	476	617	514	103.39	5.972		
6621	4569	7181	4748	54	59	106.80	-2264	492	617	513	104.36	5.916		
6700	4569	7259	4747	55	61	106.81	-2319	548	617	509	107.93	5.719		
6721	4568	7281	4747	56	61	106.81	-2334	563	617	508	108.90	5.667		
6800	4568	7359	4746	58	63	106.81	-2389	619	617	504	112.49	5.484		
6821	4568	7381	4746	58	63	106.82	-2404	634	617	503	113.47	5.437		
6900	4567	7459	4746	60	65	106.82	-2460	690	617	500	117.06	5.268		
6921	4567	7481	4745	61	66	106.82	-2475	705	617	499	118.05	5.224		
7000	4566	7559	4745	63	67	106.83	-2530	761	616	495	121.66	5.067		
7021	4566	7581	4745	63	68	106.83	-2545	776	616	494	122.64	5.026		
7100	4566	7659	4744	65	70	106.84	-2600	832	616	490	126.26	4.880		
7121	4566	7681	4744	65	70	106.84	-2615	847	616	489	127.25	4.842		
7200	4565	7759	4743	67	72	106.84	-2670	903	616	485	130.88	4.706		
7221	4565	7781	4743	68	73	106.84	-2685	918	616	484	131.87	4.670		
7300	4564	7859	4743	70	75	106.85	-2741	974	616	480	135.51	4.543		
7321	4564	7881	4743	70	75	106.85	-2756	990	616	479	136.50	4.510		
7400	4564	7959	4742	72	77	106.86	-2811	1046	615	475	140.15	4.391		
7421	4563	7981	4742	73	77	106.86	-2826	1061	615	474	141.14	4.359		
7500	4563	8059	4741	74	79	106.87	-2881	1117	615	470	144.79	4.248		
7521	4563	8081	4741	75	80	106.87	-2896	1132	615	469	145.79	4.219		
7600	4562	8159	4741	77	82	106.87	-2952	1188	615	465	149.45	4.114		
7621	4562	8181	4740	77	82	106.87	-2967	1203	615	464	150.45	4.086		
7700	4561	8259	4740	79	84	106.88	-3022	1259	615	460	154.11	3.988		
7721	4561	8281	4740	80	85	106.88	-3037	1274	614	459	155.11	3.962		
7800	4561	8359	4739	82	86	106.89	-3092	1330	614	456	158.78	3.869		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 124H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
7821	4561	8381	4739	82	87	106.89	-3107	1345	614	454	159.78	3.844	
7900	4560	8459	4738	84	89	106.89	-3162	1401	614	451	163.46	3.757	
7921	4560	8481	4738	85	89	106.90	-3177	1416	614	450	164.46	3.733	
8000	4559	8559	4738	87	91	106.90	-3233	1472	614	446	168.14	3.650	
8021	4559	8581	4738	87	92	106.90	-3248	1488	614	445	169.14	3.628	
8100	4559	8659	4737	89	94	106.91	-3303	1544	613	441	172.82	3.550	
8121	4558	8681	4737	90	94	106.91	-3318	1559	613	440	173.82	3.529	
8200	4558	8759	4736	91	96	106.92	-3373	1615	613	436	177.51	3.455	
8221	4558	8781	4736	92	97	106.92	-3388	1630	613	435	178.52	3.435	
8300	4557	8859	4736	94	98	106.92	-3443	1686	613	431	182.21	3.364	
8321	4557	8881	4735	94	99	106.93	-3458	1701	613	430	183.21	3.345	
8400	4556	8959	4735	96	101	106.93	-3514	1757	613	426	186.90	3.278	
8421	4556	8981	4735	97	101	106.93	-3529	1772	613	425	187.91	3.260	
8500	4556	9059	4734	99	103	106.94	-3584	1828	612	421	191.61	3.196	
8521	4556	9081	4734	99	104	106.94	-3599	1843	612	420	192.61	3.179	
8600	4555	9159	4733	101	106	106.95	-3654	1899	612	416	196.31	3.118	
8621	4555	9181	4733	102	106	106.95	-3669	1915	612	415	197.32	3.102	
8700	4554	9259	4733	104	108	106.95	-3724	1970	612	411	201.02	3.044	
8721	4554	9281	4733	104	109	106.96	-3739	1986	612	410	202.03	3.029	
8800	4554	9359	4732	106	111	106.96	-3795	2042	612	406	205.73	2.973	
8821	4553	9381	4732	107	111	106.96	-3810	2057	612	405	206.74	2.958	
8900	4553	9459	4731	109	113	106.97	-3865	2113	611	401	210.44	2.905	
8921	4553	9481	4731	109	114	106.97	-3880	2128	611	400	211.45	2.891	
9000	4552	9559	4731	111	115	106.98	-3935	2184	611	396	215.16	2.840	
9021	4552	9581	4730	111	116	106.98	-3950	2199	611	395	216.17	2.827	
9100	4552	9659	4730	113	118	106.98	-4006	2255	611	391	219.88	2.778	
9121	4551	9681	4730	114	118	106.98	-4021	2270	611	390	220.89	2.765	
9200	4551	9759	4729	116	120	106.99	-4076	2326	611	386	224.60	2.719	
9221	4551	9781	4729	116	121	106.99	-4091	2341	611	385	225.61	2.706	
9300	4550	9859	4728	118	123	107.00	-4146	2397	610	381	229.32	2.661	
9321	4550	9881	4728	119	123	107.00	-4161	2413	610	380	230.33	2.649	
9400	4549	9959	4728	121	125	107.01	-4216	2468	610	376	234.04	2.607	
9421	4549	9981	4728	121	126	107.01	-4231	2484	610	375	235.05	2.595	
9500	4549	10,059	4727	123	128	107.01	-4287	2540	610	371	238.77	2.554	
9521	4549	10,081	4727	124	128	107.01	-4302	2555	610	370	239.78	2.543	
9600	4548	10,159	4726	126	130	107.02	-4357	2611	610	366	243.49	2.503	
9621	4548	10,181	4726	126	131	107.02	-4372	2626	609	365	244.50	2.493	
9700	4547	10,259	4726	128	133	107.03	-4427	2682	609	361	248.22	2.454	
9721	4547	10,281	4725	129	133	107.03	-4442	2697	609	360	249.23	2.444	
9800	4547	10,359	4725	131	135	107.04	-4497	2753	609	356	252.95	2.408	
9821	4546	10,381	4725	131	136	107.04	-4512	2768	609	355	253.96	2.398	
9900	4546	10,459	4724	133	137	107.04	-4568	2824	609	351	257.68	2.362	
9921	4546	10,481	4724	134	138	107.04	-4583	2839	609	350	258.69	2.353	
10,000	4545	10,559	4723	136	140	107.05	-4638	2895	608	346	262.41	2.319	
10,021	4545	10,581	4723	136	140	107.05	-4653	2911	608	345	263.43	2.310	
10,100	4544	10,659	4723	138	142	107.06	-4708	2967	608	341	267.15	2.277	
10,121	4544	10,681	4723	139	143	107.06	-4723	2982	608	340	268.16	2.268	
10,200	4544	10,759	4722	140	145	107.07	-4778	3038	608	336	271.88	2.236	
10,221	4544	10,781	4722	141	145	107.07	-4793	3053	608	335	272.89	2.227	
10,300	4543	10,859	4721	143	147	107.07	-4849	3109	608	331	276.61	2.197	
10,321	4543	10,881	4721	143	148	107.07	-4864	3124	608	330	277.63	2.189	
10,400	4542	10,959	4721	145	150	107.08	-4919	3180	607	326	281.35	2.159	

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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 124H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,421	4542	10,981	4720	146	150	107.08	-4934	3195	607	325	282.36	2.151	
10,500	4542	11,059	4720	148	152	107.09	-4989	3251	607	321	286.09	2.122	
10,521	4541	11,081	4720	148	153	107.09	-5004	3266	607	320	287.10	2.114	
10,600	4541	11,159	4719	150	155	107.10	-5060	3322	607	316	290.82	2.087	
10,621	4541	11,181	4719	151	155	107.10	-5075	3337	607	315	291.84	2.079	
10,700	4540	11,259	4718	153	157	107.10	-5130	3393	607	311	295.56	2.052	
10,721	4540	11,281	4718	153	158	107.10	-5145	3409	607	310	296.57	2.045	
10,800	4539	11,359	4718	155	160	107.11	-5200	3465	606	306	300.30	2.019	
10,821	4539	11,381	4718	156	160	107.11	-5215	3480	606	305	301.31	2.012	
10,900	4539	11,459	4717	158	162	107.12	-5270	3536	606	301	305.04	1.987	
10,921	4539	11,481	4717	158	163	107.12	-5285	3551	606	300	306.05	1.980	
11,000	4538	11,559	4716	160	165	107.13	-5341	3607	606	296	309.78	1.956	
11,021	4538	11,581	4716	161	165	107.13	-5356	3622	606	295	310.79	1.949	
11,100	4537	11,659	4716	163	167	107.13	-5411	3678	606	291	314.52	1.925	
11,121	4537	11,681	4715	163	168	107.13	-5426	3693	605	290	315.53	1.919	
11,200	4537	11,759	4715	165	169	107.14	-5481	3749	605	286	319.26	1.896	
11,221	4536	11,781	4715	166	170	107.14	-5496	3764	605	285	320.27	1.890	
11,300	4536	11,859	4714	168	172	107.15	-5551	3820	605	281	324.00	1.867	
11,321	4536	11,881	4714	168	172	107.15	-5566	3835	605	280	325.01	1.861	
11,400	4535	11,959	4713	170	174	107.16	-5622	3891	605	276	328.74	1.840	
11,421	4535	11,981	4713	171	175	107.16	-5637	3907	605	275	329.75	1.834	
11,500	4534	12,059	4713	173	177	107.16	-5692	3963	604	271	333.48	1.813	
11,521	4534	12,081	4713	173	177	107.17	-5707	3978	604	270	334.50	1.807	
11,600	4534	12,159	4712	175	179	107.17	-5762	4034	604	266	338.22	1.786	
11,621	4534	12,181	4712	176	180	107.17	-5777	4049	604	265	339.24	1.781	
11,700	4533	12,259	4711	177	182	107.18	-5832	4105	604	261	342.97	1.761	
11,721	4533	12,281	4711	178	182	107.18	-5848	4120	604	260	343.98	1.756	
11,800	4532	12,359	4711	180	184	107.19	-5903	4176	604	256	347.71	1.736	
11,821	4532	12,381	4710	180	185	107.19	-5918	4191	604	255	348.72	1.731	
11,900	4532	12,459	4710	182	187	107.19	-5973	4247	603	251	352.45	1.712	
11,921	4531	12,481	4710	183	187	107.20	-5988	4262	603	250	353.46	1.707	
12,000	4531	12,559	4709	185	189	107.20	-6043	4318	603	246	357.19	1.689	
12,021	4531	12,581	4709	185	190	107.20	-6058	4334	603	245	358.21	1.684	
12,100	4530	12,659	4708	187	192	107.21	-6114	4389	603	241	361.94	1.666	
12,121	4530	12,681	4708	188	192	107.21	-6129	4405	603	240	362.95	1.661	
12,200	4529	12,759	4708	190	194	107.22	-6184	4461	603	236	366.68	1.643	
12,221	4529	12,781	4708	190	195	107.22	-6199	4476	603	235	367.69	1.639	
12,300	4529	12,859	4707	192	197	107.22	-6254	4532	602	231	371.42	1.622	
12,321	4529	12,881	4707	193	197	107.23	-6269	4547	602	230	372.44	1.617	
12,400	4528	12,959	4706	195	199	107.23	-6324	4603	602	226	376.17	1.601	
12,421	4528	12,981	4706	195	200	107.23	-6339	4618	602	225	377.18	1.596	
12,500	4527	13,059	4706	197	202	107.24	-6395	4674	602	221	380.91	1.580	
12,521	4527	13,081	4705	198	202	107.24	-6410	4689	602	220	381.92	1.576	
12,600	4527	13,159	4705	200	204	107.25	-6465	4745	602	216	385.65	1.560	
12,621	4526	13,181	4705	200	205	107.25	-6480	4760	602	215	386.67	1.556	
12,700	4526	13,259	4704	202	206	107.26	-6535	4816	601	211	390.40	1.540	
12,721	4526	13,281	4704	203	207	107.26	-6550	4832	601	210	391.41	1.536	
12,800	4525	13,359	4703	205	209	107.26	-6605	4887	601	206	395.14	1.521	
12,821	4525	13,381	4703	205	209	107.26	-6620	4903	601	205	396.15	1.517	
12,900	4524	13,459	4703	207	211	107.27	-6676	4959	601	201	399.88	1.502	
12,921	4524	13,481	4703	208	212	107.27	-6691	4974	601	200	400.90	1.498 Level 3	
13,000	4524	13,559	4702	210	214	107.28	-6746	5030	601	196	404.63	1.484 Level 3	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 124H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,021	4524	13,581	4702	210	214	107.28	-6761	5045	600	195	405.64	1.480	Level 3	
13,100	4523	13,659	4701	212	216	107.29	-6816	5101	600	191	409.37	1.466	Level 3	
13,121	4523	13,681	4701	213	217	107.29	-6831	5116	600	190	410.39	1.462	Level 3	
13,200	4522	13,759	4701	215	219	107.29	-6886	5172	600	186	414.12	1.449	Level 3	
13,221	4522	13,781	4700	215	219	107.30	-6902	5187	600	185	415.13	1.445	Level 3	
13,300	4522	13,859	4700	217	221	107.30	-6957	5243	600	181	418.86	1.432	Level 3	
13,321	4521	13,881	4700	218	222	107.30	-6972	5258	600	180	419.87	1.428	Level 3	
13,400	4521	13,959	4699	220	224	107.31	-7027	5314	599	176	423.60	1.415	Level 3	
13,421	4521	13,981	4699	220	224	107.31	-7042	5330	599	175	424.62	1.412	Level 3	
13,500	4520	14,059	4698	222	226	107.32	-7097	5385	599	171	428.35	1.399	Level 3	
13,521	4520	14,081	4698	223	227	107.32	-7112	5401	599	170	429.36	1.395	Level 3	
13,600	4519	14,159	4698	225	229	107.32	-7168	5457	599	166	433.09	1.383	Level 3	
13,614	4519	14,173	4698	225	229	107.33	-7177	5466	599	165	433.73	1.381	Level 3	
13,663	4519	14,222	4697	226	230	107.33	-7212	5502	599	163	436.09	1.373	Level 3, SF	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 129H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	180.00	-20	0	20						
100	100	100	100	0	0	180.00	-20	0	20	20	0.46	44.083			
200	200	200	200	1	1	180.00	-20	0	20	19	1.18	17.285			
300	300	300	300	1	1	180.00	-20	0	20	18	1.90	10.750			
400	400	400	400	1	1	180.00	-20	0	20	18	2.61	7.801			
425	425	425	425	1	1	180.00	-20	0	20	18	2.79	7.300 CC			
500	500	500	500	2	2	-69.97	-21	-1	20	17	3.31	6.184			
600	600	599	599	2	2	-70.51	-23	-5	21	17	4.00	5.232 ES			
700	700	699	699	2	2	-71.42	-26	-12	22	17	4.71	4.609			
800	799	799	798	3	3	-72.63	-31	-22	23	17	5.45	4.189			
900	898	899	897	3	3	-78.24	-37	-33	24	17	6.25	3.792			
962	959	961	958	3	3	-85.64	-41	-41	24	17	6.77	3.564			
1000	996	999	996	4	3	-90.92	-43	-45	25	18	7.10	3.467			
1100	1094	1098	1095	4	4	-103.61	-48	-56	27	19	7.95	3.367			
1200	1193	1198	1194	5	4	-113.99	-54	-68	30	21	8.77	3.422			
1300	1291	1298	1293	5	5	-122.14	-60	-79	34	24	9.56	3.560			
1400	1389	1398	1392	6	5	-128.46	-66	-91	39	28	10.34	3.735			
1500	1487	1498	1491	6	6	-133.41	-71	-102	44	32	11.10	3.923			
1600	1586	1598	1590	6	6	-137.32	-77	-114	49	37	11.86	4.110			
1700	1684	1697	1689	7	6	-140.47	-83	-125	54	42	12.62	4.290			
1800	1782	1797	1788	7	7	-143.04	-88	-137	60	46	13.37	4.459			
1900	1880	1897	1887	8	7	-145.18	-94	-148	65	51	14.13	4.618			
2000	1979	1997	1986	8	8	-146.97	-100	-160	71	56	14.89	4.765			
2100	2077	2097	2085	9	8	-148.50	-106	-172	77	61	15.64	4.902			
2200	2175	2196	2184	9	9	-149.81	-111	-183	82	66	16.40	5.029			
2300	2273	2296	2283	10	9	-150.96	-117	-195	88	71	17.16	5.146			
2400	2372	2396	2382	10	9	-151.95	-123	-206	94	76	17.92	5.255			
2500	2470	2496	2481	11	10	-152.84	-128	-218	100	81	18.68	5.356			
2600	2568	2596	2580	11	10	-153.62	-134	-229	106	87	19.44	5.451			
2700	2666	2695	2679	12	11	-154.32	-140	-241	112	92	20.20	5.538			
2800	2765	2795	2778	12	11	-154.95	-146	-252	118	97	20.97	5.621			
2900	2863	2895	2877	13	12	-155.52	-151	-264	124	102	21.73	5.697			
3000	2961	2995	2976	13	12	-156.04	-157	-275	130	107	22.49	5.769			
3100	3059	3095	3075	14	12	-156.51	-163	-287	136	112	23.26	5.837			
3200	3158	3195	3174	14	13	-156.94	-168	-298	142	118	24.02	5.900			
3300	3256	3294	3273	15	13	-157.34	-174	-310	148	123	24.78	5.960			
3400	3354	3394	3372	15	14	-157.70	-180	-321	154	128	25.55	6.017			
3500	3452	3494	3471	16	14	-158.04	-186	-333	160	133	26.31	6.070			
3600	3551	3594	3569	16	15	-158.36	-191	-344	166	139	27.08	6.120			
3700	3649	3694	3668	17	15	-158.65	-197	-356	172	144	27.84	6.168			
3800	3747	3793	3767	17	15	-158.92	-203	-367	178	149	28.61	6.213			
3900	3845	3893	3866	18	16	-159.18	-208	-379	184	154	29.37	6.257			
4000	3944	3993	3965	19	16	-159.41	-214	-390	190	160	30.14	6.297			
4058	4001	4051	4023	19	17	-159.55	-218	-397	193	163	30.59	6.320			
4100	4042	4093	4064	19	17	-136.08	-220	-402	195	164	30.88	6.305			
4150	4091	4143	4114	19	17	-109.37	-223	-408	193	162	31.17	6.207			
4200	4140	4192	4163	19	17	-93.19	-226	-413	189	158	31.38	6.034			
4250	4188	4240	4210	20	17	-86.14	-228	-419	183	151	31.52	5.800			
4300	4235	4287	4257	20	18	-84.90	-231	-424	175	143	31.60	5.527			
4350	4280	4332	4301	20	18	-87.56	-234	-429	166	134	31.67	5.241			
4400	4323	4374	4344	20	18	-92.90	-236	-434	159	127	31.87	4.977			
4450	4364	4415	4383	20	18	-99.82	-238	-439	155	122	32.37	4.780			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 129H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4461	4372	4423	4392	20	18	-101.39	-239	-440	155	122	32.53	4.751		
4500	4402	4453	4421	20	18	-107.09	-241	-443	157	123	32.26	4.707		
4550	4437	4493	4461	20	18	-114.34	-246	-444	165	131	34.35	4.800		
4600	4469	4535	4502	20	19	-121.17	-254	-444	179	144	35.31	5.073		
4650	4497	4580	4546	20	19	-127.40	-264	-441	198	162	35.89	5.523		
4700	4522	4628	4592	20	19	-132.99	-278	-435	221	185	35.98	6.140		
4750	4542	4681	4640	20	19	-138.02	-297	-425	246	211	35.55	6.923		
4800	4558	4739	4691	20	19	-142.60	-321	-409	273	238	34.58	7.892		
4850	4570	4805	4745	21	19	-146.84	-352	-387	300	267	33.02	9.094		
4900	4578	4881	4801	21	20	-150.83	-393	-356	327	297	30.81	10.626		
4902	4578	4885	4803	21	20	-151.00	-395	-354	329	298	30.69	10.705		
4950	4581	4970	4856	21	20	-154.56	-446	-311	353	325	27.95	12.631		
4951	4581	4971	4857	21	20	-154.60	-447	-311	353	325	27.91	12.656		
4962	4581	4995	4870	21	20	-155.44	-462	-298	359	332	27.16	13.215		
4964	4581	4998	4871	21	20	-155.61	-464	-296	360	333	27.05	13.298		
5000	4581	5078	4908	21	20	-158.73	-517	-249	375	350	24.73	15.150		
5004	4581	5089	4912	22	20	-159.04	-524	-242	376	352	24.47	15.380		
5100	4580	5318	4951	23	22	-161.76	-685	-86	390	367	23.22	16.820		
5104	4580	5323	4951	23	22	-161.76	-688	-83	390	367	23.27	16.779		
5200	4579	5418	4950	24	23	-161.72	-756	-15	391	366	24.54	15.914		
5204	4579	5423	4950	24	23	-161.72	-759	-11	391	366	24.61	15.873		
5300	4579	5518	4949	26	25	-161.67	-826	57	391	365	25.99	15.034		
5304	4579	5523	4949	26	25	-161.67	-829	60	391	365	26.05	14.995		
5400	4578	5618	4949	27	26	-161.63	-896	128	391	363	27.53	14.196		
5404	4578	5623	4949	27	26	-161.62	-899	131	391	363	27.60	14.159		
5500	4577	5718	4948	29	28	-161.58	-966	199	391	362	29.16	13.408		
5504	4577	5723	4948	29	28	-161.58	-969	202	391	362	29.23	13.374		
5600	4576	5818	4947	31	30	-161.53	-1036	270	391	360	30.85	12.673		
5604	4576	5823	4947	31	30	-161.53	-1040	273	391	360	30.93	12.641		
5700	4576	5918	4947	33	32	-161.49	-1107	341	391	358	32.61	11.992		
5704	4576	5923	4947	33	32	-161.48	-1110	345	391	358	32.69	11.963		
5800	4575	6018	4946	35	34	-161.44	-1177	413	391	357	34.43	11.364		
5804	4575	6023	4946	35	34	-161.44	-1180	416	391	357	34.51	11.337		
5900	4574	6118	4945	37	36	-161.39	-1247	484	391	355	36.29	10.784		
5904	4574	6123	4945	37	36	-161.39	-1250	487	391	355	36.37	10.759		
6000	4574	6218	4944	39	38	-161.35	-1317	555	391	353	38.19	10.250		
6004	4574	6223	4944	40	38	-161.34	-1320	558	391	353	38.27	10.227		
6100	4573	6318	4944	42	40	-161.30	-1388	626	392	351	40.12	9.758		
6104	4573	6323	4944	42	40	-161.30	-1391	629	392	351	40.21	9.737		
6200	4572	6418	4943	44	42	-161.25	-1458	697	392	350	42.09	9.305		
6204	4572	6423	4943	44	43	-161.25	-1461	700	392	349	42.18	9.285		
6300	4571	6518	4942	46	45	-161.21	-1528	768	392	348	44.09	8.886		
6304	4571	6523	4942	46	45	-161.21	-1531	772	392	348	44.18	8.868		
6400	4571	6618	4942	48	47	-161.16	-1598	840	392	346	46.11	8.499		
6404	4571	6623	4942	49	47	-161.16	-1601	843	392	346	46.20	8.483		
6500	4570	6718	4941	51	49	-161.12	-1668	911	392	344	48.15	8.141		
6504	4570	6723	4941	51	49	-161.11	-1672	914	392	344	48.24	8.126		
6600	4569	6818	4940	53	52	-161.07	-1739	982	392	342	50.21	7.809		
6604	4569	6823	4940	53	52	-161.07	-1742	985	392	342	50.30	7.794		
6700	4569	6918	4939	55	54	-161.02	-1809	1053	392	340	52.29	7.500		
6704	4569	6923	4939	56	54	-161.02	-1812	1056	392	340	52.39	7.487		
6800	4568	7018	4939	58	56	-160.98	-1879	1124	392	338	54.39	7.212		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 129H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
6804	4568	7023	4939	58	56	-160.98	-1882	1128	392	338	54.49	7.200		
6900	4567	7118	4938	60	59	-160.93	-1949	1196	392	336	56.51	6.944		
6904	4567	7123	4938	60	59	-160.93	-1952	1199	392	336	56.60	6.933		
7000	4566	7218	4937	63	61	-160.88	-2020	1267	393	334	58.64	6.694		
7004	4566	7223	4937	63	61	-160.88	-2023	1270	393	334	58.73	6.683		
7100	4566	7318	4937	65	63	-160.84	-2090	1338	393	332	60.78	6.460		
7104	4566	7323	4937	65	63	-160.84	-2093	1341	393	332	60.88	6.450		
7200	4565	7418	4936	67	66	-160.79	-2160	1409	393	330	62.94	6.240		
7204	4565	7423	4936	67	66	-160.79	-2163	1412	393	330	63.03	6.231		
7300	4564	7518	4935	70	68	-160.75	-2230	1480	393	328	65.10	6.034		
7304	4564	7523	4935	70	68	-160.74	-2233	1484	393	328	65.20	6.025		
7400	4564	7618	4934	72	70	-160.70	-2300	1552	393	326	67.28	5.840		
7404	4564	7623	4934	72	71	-160.70	-2304	1555	393	326	67.38	5.832		
7500	4563	7718	4934	74	73	-160.65	-2371	1623	393	324	69.47	5.658		
7504	4563	7723	4934	75	73	-160.65	-2374	1626	393	324	69.57	5.650		
7600	4562	7818	4933	77	75	-160.61	-2441	1694	393	322	71.67	5.486		
7604	4562	7823	4933	77	75	-160.61	-2444	1697	393	321	71.77	5.478		
7700	4561	7918	4932	79	78	-160.56	-2511	1765	393	319	73.88	5.323		
7704	4561	7923	4932	79	78	-160.56	-2514	1768	393	319	73.98	5.316		
7800	4561	8018	4932	82	80	-160.52	-2581	1836	393	317	76.10	5.169		
7804	4561	8023	4932	82	80	-160.52	-2585	1839	393	317	76.20	5.163		
7900	4560	8118	4931	84	82	-160.47	-2652	1907	394	315	78.33	5.024		
7904	4560	8123	4931	84	83	-160.47	-2655	1911	394	315	78.43	5.017		
8000	4559	8218	4930	87	85	-160.43	-2722	1979	394	313	80.57	4.885		
8004	4559	8223	4930	87	85	-160.42	-2725	1982	394	313	80.67	4.879		
8100	4559	8318	4930	89	87	-160.38	-2792	2050	394	311	82.82	4.754		
8104	4559	8323	4929	89	87	-160.38	-2795	2053	394	311	82.92	4.749		
8200	4558	8418	4929	91	90	-160.33	-2862	2121	394	309	85.07	4.630		
8204	4558	8423	4929	92	90	-160.33	-2865	2124	394	309	85.17	4.624		
8300	4557	8518	4928	94	92	-160.29	-2933	2192	394	307	87.34	4.511		
8304	4557	8523	4928	94	92	-160.29	-2936	2195	394	307	87.44	4.506		
8400	4556	8618	4927	96	95	-160.24	-3003	2263	394	304	89.61	4.398		
8404	4556	8623	4927	96	95	-160.24	-3006	2267	394	304	89.71	4.393		
8500	4556	8718	4927	99	97	-160.20	-3073	2335	394	302	91.88	4.290		
8504	4556	8723	4927	99	97	-160.19	-3076	2338	394	302	91.99	4.285		
8600	4555	8818	4926	101	100	-160.15	-3143	2406	394	300	94.17	4.187		
8604	4555	8823	4926	101	100	-160.15	-3146	2409	394	300	94.27	4.183		
8700	4554	8918	4925	104	102	-160.11	-3213	2477	394	298	96.46	4.089		
8704	4554	8923	4925	104	102	-160.10	-3217	2480	394	298	96.57	4.084		
8800	4554	9018	4925	106	104	-160.06	-3284	2548	395	296	98.76	3.995		
8804	4554	9023	4924	106	104	-160.06	-3287	2551	395	296	98.87	3.991		
8900	4553	9118	4924	109	107	-160.01	-3354	2619	395	294	101.07	3.905		
8904	4553	9123	4924	109	107	-160.01	-3357	2623	395	293	101.17	3.901		
9000	4552	9218	4923	111	109	-159.97	-3424	2691	395	291	103.38	3.818		
9004	4552	9223	4923	111	109	-159.97	-3427	2694	395	291	103.49	3.815		
9100	4552	9318	4922	113	112	-159.92	-3494	2762	395	289	105.70	3.736		
9104	4551	9323	4922	114	112	-159.92	-3497	2765	395	289	105.81	3.732		
9200	4551	9418	4922	116	114	-159.88	-3565	2833	395	287	108.03	3.656		
9204	4551	9423	4922	116	114	-159.88	-3568	2836	395	287	108.14	3.653		
9300	4550	9518	4921	118	117	-159.83	-3635	2904	395	285	110.37	3.580		
9304	4550	9523	4921	118	117	-159.83	-3638	2907	395	285	110.47	3.577		
9400	4549	9618	4920	121	119	-159.79	-3705	2975	395	283	112.71	3.507		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9404	4549	9623	4920	121	119	-159.78	-3708	2978	395	282	112.81	3.503	
9500	4549	9718	4920	123	122	-159.74	-3775	3046	395	280	115.05	3.436	
9504	4549	9723	4920	123	122	-159.74	-3778	3050	395	280	115.16	3.433	
9600	4548	9818	4919	126	124	-159.70	-3845	3118	395	278	117.41	3.368	
9604	4548	9823	4919	126	124	-159.69	-3849	3121	395	278	117.51	3.365	
9700	4547	9918	4918	128	126	-159.65	-3916	3189	396	276	119.77	3.303	
9704	4547	9923	4918	128	127	-159.65	-3919	3192	396	276	119.87	3.300	
9800	4547	10,018	4917	131	129	-159.61	-3986	3260	396	274	122.13	3.240	
9804	4546	10,023	4917	131	129	-159.60	-3989	3263	396	273	122.24	3.237	
9900	4546	10,118	4917	133	131	-159.56	-4056	3331	396	271	124.50	3.179	
9904	4546	10,123	4917	133	132	-159.56	-4059	3334	396	271	124.61	3.176	
10,000	4545	10,218	4916	136	134	-159.51	-4126	3402	396	269	126.88	3.120	
10,004	4545	10,223	4916	136	134	-159.51	-4130	3406	396	269	126.99	3.118	
10,100	4544	10,318	4915	138	136	-159.47	-4197	3474	396	267	129.26	3.064	
10,104	4544	10,323	4915	138	136	-159.47	-4200	3477	396	267	129.37	3.061	
10,200	4544	10,418	4915	140	139	-159.42	-4267	3545	396	265	131.65	3.009	
10,204	4544	10,423	4915	141	139	-159.42	-4270	3548	396	264	131.76	3.007	
10,300	4543	10,518	4914	143	141	-159.38	-4337	3616	396	262	134.05	2.956	
10,304	4543	10,523	4914	143	141	-159.38	-4340	3619	396	262	134.15	2.954	
10,400	4542	10,618	4913	145	144	-159.33	-4407	3687	396	260	136.45	2.905	
10,404	4542	10,623	4913	145	144	-159.33	-4410	3690	396	260	136.56	2.903	
10,500	4542	10,718	4912	148	146	-159.29	-4478	3758	397	258	138.86	2.856	
10,504	4542	10,723	4912	148	146	-159.29	-4481	3761	397	258	138.96	2.853	
10,600	4541	10,818	4912	150	149	-159.24	-4548	3830	397	255	141.27	2.808	
10,604	4541	10,823	4912	150	149	-159.24	-4551	3833	397	255	141.38	2.805	
10,700	4540	10,918	4911	153	151	-159.20	-4618	3901	397	253	143.69	2.761	
10,704	4540	10,923	4911	153	151	-159.20	-4621	3904	397	253	143.80	2.759	
10,800	4539	11,018	4910	155	154	-159.15	-4688	3972	397	251	146.11	2.716	
10,804	4539	11,023	4910	155	154	-159.15	-4691	3975	397	251	146.22	2.714	
10,900	4539	11,118	4910	158	156	-159.11	-4758	4043	397	248	148.54	2.673	
10,904	4539	11,123	4910	158	156	-159.11	-4762	4046	397	248	148.65	2.671	
11,000	4538	11,218	4909	160	159	-159.06	-4829	4114	397	246	150.98	2.630	
11,004	4538	11,223	4909	160	159	-159.06	-4832	4117	397	246	151.09	2.628	
11,100	4537	11,318	4908	163	161	-159.02	-4899	4185	397	244	153.42	2.589	
11,104	4537	11,323	4908	163	161	-159.02	-4902	4189	397	244	153.53	2.587	
11,200	4537	11,418	4907	165	163	-158.97	-4969	4257	397	241	155.87	2.549	
11,204	4537	11,423	4907	165	164	-158.97	-4972	4260	397	241	155.98	2.547	
11,300	4536	11,518	4907	168	166	-158.93	-5039	4328	397	239	158.32	2.510	
11,304	4536	11,523	4907	168	166	-158.93	-5042	4331	397	239	158.43	2.509	
11,400	4535	11,618	4906	170	168	-158.88	-5110	4399	398	237	160.78	2.473	
11,404	4535	11,623	4906	170	169	-158.88	-5113	4402	398	237	160.89	2.471	
11,500	4534	11,718	4905	173	171	-158.84	-5180	4470	398	234	163.24	2.436	
11,504	4534	11,723	4905	173	171	-158.84	-5183	4473	398	234	163.35	2.435	
11,600	4534	11,818	4905	175	173	-158.79	-5250	4541	398	232	165.71	2.401	
11,604	4534	11,823	4905	175	173	-158.79	-5253	4545	398	232	165.82	2.399	
11,700	4533	11,918	4904	177	176	-158.75	-5320	4613	398	230	168.19	2.366	
11,704	4533	11,923	4904	178	176	-158.75	-5323	4616	398	230	168.30	2.365	
11,800	4532	12,018	4903	180	178	-158.70	-5390	4684	398	227	170.67	2.332	
11,804	4532	12,023	4903	180	178	-158.70	-5394	4687	398	227	170.78	2.331	
11,900	4532	12,118	4902	182	181	-158.66	-5461	4755	398	225	173.15	2.300	
11,904	4532	12,123	4902	183	181	-158.66	-5464	4758	398	225	173.26	2.298	
12,000	4531	12,218	4902	185	183	-158.61	-5531	4826	398	223	175.64	2.268	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
12,004	4531	12,223	4902	185	183	-158.61	-5534	4829	398	223	175.76	2.266	
12,100	4530	12,318	4901	187	186	-158.57	-5601	4897	398	220	178.14	2.237	
12,104	4530	12,323	4901	187	186	-158.57	-5604	4900	398	220	178.25	2.235	
12,200	4529	12,418	4900	190	188	-158.53	-5671	4969	399	218	180.64	2.206	
12,204	4529	12,423	4900	190	188	-158.52	-5674	4972	399	218	180.75	2.205	
12,300	4529	12,518	4900	192	191	-158.48	-5742	5040	399	216	183.15	2.177	
12,304	4529	12,523	4900	192	191	-158.48	-5745	5043	399	215	183.26	2.175	
12,400	4528	12,618	4899	195	193	-158.44	-5812	5111	399	213	185.66	2.148	
12,404	4528	12,623	4899	195	193	-158.43	-5815	5114	399	213	185.78	2.147	
12,500	4527	12,718	4898	197	196	-158.39	-5882	5182	399	211	188.18	2.120	
12,504	4527	12,723	4898	197	196	-158.39	-5885	5185	399	211	188.29	2.119	
12,600	4527	12,818	4897	200	198	-158.35	-5952	5253	399	208	190.71	2.092	
12,604	4527	12,823	4897	200	198	-158.34	-5955	5256	399	208	190.82	2.091	
12,700	4526	12,918	4897	202	201	-158.30	-6022	5324	399	206	193.24	2.066	
12,704	4526	12,923	4897	202	201	-158.30	-6026	5328	399	206	193.35	2.065	
12,800	4525	13,018	4896	205	203	-158.26	-6093	5396	399	204	195.77	2.040	
12,804	4525	13,023	4896	205	203	-158.26	-6096	5399	399	203	195.88	2.038	
12,900	4524	13,118	4895	207	206	-158.21	-6163	5467	399	201	198.31	2.014	
12,904	4524	13,123	4895	207	206	-158.21	-6166	5470	399	201	198.42	2.013	
13,000	4524	13,218	4895	210	208	-158.17	-6233	5538	400	199	200.85	1.989	
13,004	4524	13,223	4895	210	208	-158.17	-6236	5541	400	199	200.97	1.988	
13,100	4523	13,318	4894	212	211	-158.12	-6303	5609	400	196	203.40	1.965	
13,104	4523	13,323	4894	212	211	-158.12	-6307	5612	400	196	203.52	1.964	
13,200	4522	13,418	4893	215	213	-158.08	-6374	5680	400	194	205.96	1.941	
13,204	4522	13,423	4893	215	213	-158.08	-6377	5684	400	194	206.07	1.940	
13,300	4522	13,518	4892	217	215	-158.04	-6444	5752	400	191	208.52	1.918	
13,304	4522	13,523	4892	217	216	-158.03	-6447	5755	400	191	208.64	1.917	
13,400	4521	13,618	4892	220	218	-157.99	-6514	5823	400	189	211.09	1.895	
13,404	4521	13,623	4892	220	218	-157.99	-6517	5826	400	189	211.20	1.894	
13,500	4520	13,718	4891	222	220	-157.95	-6584	5894	400	187	213.66	1.873	
13,504	4520	13,723	4891	222	221	-157.94	-6587	5897	400	186	213.77	1.872 SF	
13,600	4519	13,725	4891	225	221	-157.94	-6589	5899	411	204	206.85	1.987	
13,603	4519	13,725	4891	225	221	-157.94	-6589	5899	412	205	206.48	1.994	
13,663	4519	13,725	4891	226	221	-157.94	-6589	5899	430	233	197.19	2.180	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 130H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	0.86	20	0	20					
100	100	100	100	0	0	0.86	20	0	20	19	0.46	42.514		
200	200	200	200	1	1	0.86	20	0	20	18	1.18	16.670		
300	300	300	300	1	1	0.86	20	0	20	18	1.90	10.367		
400	400	400	400	1	1	0.86	20	0	20	17	2.61	7.523		
425	425	425	425	1	1	0.86	20	0	20	17	2.79	7.040		
500	500	500	500	2	2	115.88	19	1	19	16	3.31	5.860		
537	537	537	537	2	2	121.97	18	2	19	16	3.57	5.414 CC, ES		
600	600	600	600	2	2	137.46	16	4	20	16	4.00	5.015		
700	700	699	699	2	2	165.76	11	10	27	22	4.70	5.715		
800	799	797	796	3	3	-175.49	3	18	42	37	5.42	7.834		
900	898	895	893	3	3	-166.90	-5	26	64	58	6.14	10.447		
962	959	955	952	3	3	-164.29	-10	32	80	73	6.59	12.077		
1000	996	991	989	4	3	-163.26	-14	35	89	83	6.87	13.027		
1100	1094	1088	1084	4	4	-161.38	-22	44	116	108	7.60	15.224		
1200	1193	1184	1180	5	4	-160.20	-30	53	142	134	8.33	17.027		
1300	1291	1281	1276	5	5	-159.39	-38	61	168	159	9.08	18.526		
1400	1389	1377	1372	6	5	-158.79	-47	70	194	185	9.83	19.790		
1500	1487	1474	1467	6	5	-158.34	-55	79	221	210	10.58	20.867		
1600	1586	1570	1563	6	6	-157.99	-63	87	247	236	11.34	21.795		
1700	1684	1666	1659	7	6	-157.70	-71	96	273	261	12.10	22.603		
1800	1782	1763	1754	7	7	-157.46	-80	105	300	287	12.86	23.311		
1900	1880	1859	1850	8	7	-157.26	-88	113	326	312	13.62	23.937		
2000	1979	1956	1946	8	7	-157.09	-96	122	352	338	14.39	24.494		
2100	2077	2052	2042	9	8	-156.95	-104	131	379	364	15.16	24.992		
2200	2175	2149	2137	9	8	-156.82	-113	139	405	389	15.92	25.441		
2300	2273	2245	2233	10	9	-156.71	-121	148	431	415	16.69	25.846		
2400	2372	2342	2329	10	9	-156.61	-129	157	458	440	17.46	26.215		
2500	2470	2438	2424	11	9	-156.52	-138	165	484	466	18.23	26.552		
2600	2568	2535	2520	11	10	-156.45	-146	174	511	492	19.01	26.860		
2700	2666	2631	2616	12	10	-156.37	-154	183	537	517	19.78	27.143		
2800	2765	2728	2712	12	11	-156.31	-162	191	563	543	20.55	27.405		
2900	2863	2824	2807	13	11	-156.25	-171	200	590	568	21.32	27.647		
3000	2961	2920	2903	13	12	-156.20	-179	209	616	594	22.10	27.871		
3100	3059	3017	2999	14	12	-156.15	-187	217	642	619	22.87	28.080		
3200	3158	3113	3094	14	12	-156.10	-195	226	669	645	23.65	28.274		
3300	3256	3210	3190	15	13	-156.06	-204	235	695	671	24.42	28.456		
3400	3354	3306	3286	15	13	-156.02	-212	243	721	696	25.20	28.627		
3500	3452	3403	3382	16	14	-155.99	-220	252	748	722	25.97	28.786		
3600	3551	3499	3477	16	14	-155.95	-228	261	774	747	26.75	28.937		
3700	3649	3596	3573	17	14	-155.92	-237	269	800	773	27.53	29.078		
3800	3747	3692	3669	17	15	-155.89	-245	278	827	798	28.30	29.212		
3900	3845	3789	3764	18	15	-155.87	-253	287	853	824	29.08	29.338		
4000	3944	3885	3860	19	16	-155.84	-261	295	879	850	29.86	29.458		
4058	4001	3941	3916	19	16	-155.83	-266	300	895	865	30.31	29.524		
4100	4042	3982	3956	19	16	-131.40	-270	304	905	874	30.63	29.531		
4150	4091	4031	4005	19	16	-102.86	-274	308	913	882	31.03	29.434		
4200	4140	4080	4054	19	17	-84.03	-278	313	919	887	31.43	29.228		
4250	4188	4129	4102	20	17	-73.36	-282	317	920	889	31.82	28.922		
4300	4235	4178	4150	20	17	-67.42	-287	322	919	887	32.22	28.521		
4350	4280	4225	4197	20	17	-64.24	-291	326	914	882	32.61	28.033		
4400	4323	4271	4243	20	17	-62.84	-295	330	907	874	33.00	27.467		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4450	4364	4315	4286	20	18	-62.69	-298	334	896	863	33.40	26.830	
4500	4402	4336	4307	20	18	-62.73	-300	336	884	850	33.62	26.282	
4550	4437	4350	4321	20	18	-63.13	-302	338	870	836	33.79	25.745	
4600	4469	4375	4346	20	18	-64.42	-306	342	855	821	34.10	25.074	
4650	4497	4400	4370	20	18	-66.18	-310	346	839	805	34.46	24.356	
4700	4522	4413	4382	20	18	-67.74	-313	349	823	788	34.74	23.691	
4750	4542	4431	4400	20	18	-69.86	-317	353	806	771	35.15	22.934	
4800	4558	4450	4417	20	18	-72.25	-321	358	789	753	35.64	22.139	
4850	4570	4467	4433	21	18	-74.74	-325	362	772	736	36.21	21.327	
4900	4578	4483	4448	21	19	-77.37	-330	367	756	719	36.86	20.501	
4950	4581	4500	4463	21	19	-80.09	-335	372	740	702	37.60	19.680	
4962	4581	4500	4463	21	19	-80.47	-335	372	736	699	37.73	19.515	
5000	4581	4515	4476	21	19	-81.55	-340	377	726	687	38.39	18.905	
5100	4580	4550	4507	23	19	-84.03	-352	390	705	665	40.13	17.576	
5200	4579	4600	4548	24	19	-87.44	-371	410	695	653	42.15	16.501	
5252	4579	4630	4572	25	20	-89.40	-385	423	694	651	43.24	16.057	
5300	4579	4663	4596	26	20	-91.42	-400	439	695	651	44.31	15.691	
5400	4578	4746	4652	27	21	-96.01	-442	483	702	655	46.72	15.031	
5404	4578	4750	4654	27	21	-96.22	-445	485	703	656	46.83	15.003	
5500	4577	4854	4709	29	22	-100.69	-506	549	713	663	49.64	14.354	
5504	4577	4860	4712	29	23	-100.88	-510	552	713	663	49.79	14.320	
5600	4576	4990	4754	31	25	-104.23	-595	640	721	668	53.46	13.494	
5604	4576	4996	4755	31	25	-104.33	-600	645	722	668	53.66	13.450	
5700	4576	5130	4766	33	27	-105.20	-692	741	725	667	58.02	12.491	
5704	4576	5135	4766	33	27	-105.20	-696	744	725	667	58.19	12.455	
5800	4575	5230	4765	35	29	-105.18	-762	812	726	664	61.89	11.728	
5804	4575	5235	4765	35	29	-105.18	-765	815	726	664	62.06	11.696	
5900	4574	5330	4764	37	31	-105.16	-832	884	727	661	65.88	11.034	
5904	4574	5335	4764	37	31	-105.16	-835	887	727	661	66.06	11.005	
6000	4574	5430	4764	39	33	-105.14	-902	956	728	658	69.98	10.403	
6004	4574	5435	4764	40	33	-105.14	-905	959	728	658	70.16	10.376	
6100	4573	5530	4763	42	35	-105.11	-971	1027	729	655	74.17	9.830	
6104	4573	5535	4763	42	35	-105.11	-974	1031	729	655	74.35	9.805	
6200	4572	5630	4762	44	37	-105.09	-1041	1099	730	652	78.43	9.309	
6204	4572	5635	4762	44	37	-105.09	-1044	1102	730	652	78.62	9.286	
6300	4571	5730	4762	46	39	-105.07	-1111	1171	731	648	82.76	8.834	
6304	4571	5735	4762	46	39	-105.07	-1114	1174	731	648	82.96	8.814	
6400	4571	5830	4761	48	42	-105.05	-1180	1243	732	645	87.14	8.402	
6404	4571	5835	4761	49	42	-105.05	-1183	1246	732	645	87.34	8.384	
6500	4570	5930	4760	51	44	-105.03	-1250	1314	733	642	91.57	8.007	
6504	4570	5935	4760	51	44	-105.03	-1253	1318	733	642	91.77	7.991	
6600	4569	6030	4759	53	46	-105.00	-1320	1386	734	638	96.05	7.646	
6604	4569	6035	4759	53	46	-105.00	-1323	1389	734	638	96.25	7.630	
6700	4569	6130	4759	55	48	-104.98	-1389	1458	735	635	100.55	7.314	
6704	4569	6135	4759	56	48	-104.98	-1392	1461	735	635	100.75	7.300	
6800	4568	6230	4758	58	51	-104.96	-1459	1529	736	631	105.09	7.008	
6804	4568	6235	4758	58	51	-104.96	-1462	1533	737	631	105.29	6.995	
6900	4567	6330	4757	60	53	-104.94	-1529	1601	738	628	109.65	6.726	
6904	4567	6335	4757	60	53	-104.94	-1532	1604	738	628	109.85	6.714	
7000	4566	6430	4757	63	55	-104.92	-1598	1673	739	624	114.23	6.466	
7004	4566	6435	4757	63	55	-104.92	-1601	1676	739	624	114.44	6.454	
7100	4566	6530	4756	65	58	-104.90	-1668	1745	740	621	118.84	6.224	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 130H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
7104	4566	6535	4756	65	58	-104.90	-1671	1748	740	621	119.05	6.214		
7200	4565	6630	4755	67	60	-104.88	-1738	1816	741	617	123.47	5.999		
7204	4565	6635	4755	67	60	-104.87	-1741	1820	741	617	123.67	5.990		
7300	4564	6730	4755	70	62	-104.85	-1807	1888	742	614	128.11	5.790		
7304	4564	6735	4755	70	63	-104.85	-1810	1891	742	614	128.32	5.781		
7400	4564	6830	4754	72	65	-104.83	-1877	1960	743	610	132.77	5.595		
7404	4564	6835	4754	72	65	-104.83	-1880	1963	743	610	132.97	5.587		
7500	4563	6930	4753	74	67	-104.81	-1947	2032	744	606	137.44	5.413		
7504	4563	6935	4753	75	67	-104.81	-1950	2035	744	606	137.64	5.405		
7600	4562	7030	4752	77	70	-104.79	-2016	2103	745	603	142.12	5.242		
7604	4562	7035	4752	77	70	-104.79	-2019	2106	745	603	142.33	5.235		
7700	4561	7130	4752	79	72	-104.77	-2086	2175	746	599	146.81	5.082		
7704	4561	7135	4752	79	72	-104.77	-2089	2178	746	599	147.02	5.075		
7800	4561	7230	4751	82	74	-104.75	-2156	2247	747	596	151.52	4.931		
7804	4561	7235	4751	82	75	-104.75	-2159	2250	747	595	151.73	4.924		
7900	4560	7330	4750	84	77	-104.73	-2225	2318	748	592	156.23	4.789		
7904	4560	7335	4750	84	77	-104.73	-2228	2322	748	592	156.44	4.783		
8000	4559	7430	4750	87	79	-104.71	-2295	2390	749	588	160.95	4.655		
8004	4559	7435	4750	87	79	-104.70	-2298	2393	749	588	161.16	4.649		
8100	4559	7530	4749	89	82	-104.68	-2365	2462	750	585	165.68	4.529		
8104	4559	7535	4749	89	82	-104.68	-2368	2465	750	584	165.89	4.523		
8200	4558	7630	4748	91	84	-104.66	-2434	2534	751	581	170.42	4.409		
8204	4558	7635	4748	92	84	-104.66	-2437	2537	751	581	170.63	4.404		
8300	4557	7730	4747	94	87	-104.64	-2504	2605	752	577	175.16	4.296		
8304	4557	7735	4747	94	87	-104.64	-2507	2608	752	577	175.37	4.291		
8400	4556	7830	4747	96	89	-104.62	-2574	2677	754	574	179.91	4.188		
8404	4556	7835	4747	96	89	-104.62	-2577	2680	754	573	180.12	4.184		
8500	4556	7930	4746	99	91	-104.60	-2643	2749	755	570	184.66	4.086		
8504	4556	7935	4746	99	92	-104.60	-2646	2752	755	570	184.88	4.082		
8600	4555	8030	4745	101	94	-104.58	-2713	2820	756	566	189.43	3.989		
8604	4555	8035	4745	101	94	-104.58	-2716	2824	756	566	189.64	3.985		
8700	4554	8130	4745	104	96	-104.56	-2783	2892	757	563	194.19	3.897		
8704	4554	8135	4745	104	96	-104.56	-2786	2895	757	562	194.40	3.893		
8800	4554	8230	4744	106	99	-104.54	-2852	2964	758	559	198.96	3.809		
8804	4554	8235	4744	106	99	-104.54	-2856	2967	758	559	199.17	3.805		
8900	4553	8330	4743	109	101	-104.52	-2922	3036	759	555	203.74	3.725		
8904	4553	8334	4743	109	101	-104.52	-2925	3039	759	555	203.95	3.721		
9000	4552	8430	4743	111	104	-104.50	-2992	3107	760	551	208.52	3.644		
9004	4552	8434	4742	111	104	-104.50	-2995	3110	760	551	208.73	3.641		
9100	4552	8530	4742	113	106	-104.48	-3061	3179	761	548	213.30	3.568		
9104	4551	8534	4742	114	106	-104.48	-3065	3182	761	548	213.51	3.564		
9200	4551	8630	4741	116	109	-104.46	-3131	3251	762	544	218.09	3.494		
9204	4551	8634	4741	116	109	-104.46	-3134	3254	762	544	218.30	3.491		
9300	4550	8730	4740	118	111	-104.44	-3201	3322	763	540	222.88	3.424		
9304	4550	8734	4740	118	111	-104.44	-3204	3326	763	540	223.09	3.421		
9400	4549	8830	4740	121	114	-104.42	-3270	3394	764	537	227.67	3.356		
9404	4549	8834	4740	121	114	-104.42	-3274	3397	764	536	227.88	3.354		
9500	4549	8930	4739	123	116	-104.40	-3340	3466	765	533	232.47	3.292		
9504	4549	8934	4739	123	116	-104.40	-3343	3469	765	533	232.68	3.289		
9600	4548	9030	4738	126	118	-104.38	-3410	3538	766	529	237.27	3.230		
9604	4548	9034	4738	126	119	-104.38	-3413	3541	766	529	237.48	3.227		
9700	4547	9130	4738	128	121	-104.36	-3480	3609	767	525	242.07	3.170		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 130H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
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	
9704	4547	9134	4738	128	121	-104.36	-3483	3613	767	525	242.29	3.167		
9800	4547	9230	4737	131	123	-104.34	-3549	3681	768	522	246.88	3.113		
9804	4546	9234	4737	131	123	-104.34	-3552	3684	768	521	247.09	3.110		
9900	4546	9330	4736	133	126	-104.32	-3619	3753	770	518	251.69	3.057		
9904	4546	9334	4736	133	126	-104.32	-3622	3756	770	518	251.90	3.055		
10,000	4545	9430	4735	136	128	-104.30	-3689	3824	771	514	256.50	3.004		
10,004	4545	9434	4735	136	128	-104.30	-3692	3828	771	514	256.71	3.002		
10,100	4544	9530	4735	138	131	-104.28	-3758	3896	772	510	261.31	2.953		
10,104	4544	9534	4735	138	131	-104.28	-3761	3899	772	510	261.52	2.951		
10,200	4544	9630	4734	140	133	-104.26	-3828	3968	773	507	266.13	2.904		
10,204	4544	9634	4734	141	133	-104.26	-3831	3971	773	506	266.34	2.901		
10,300	4543	9730	4733	143	136	-104.24	-3898	4040	774	503	270.94	2.856		
10,304	4543	9734	4733	143	136	-104.24	-3901	4043	774	503	271.16	2.854		
10,400	4542	9830	4733	145	138	-104.22	-3967	4111	775	499	275.76	2.810		
10,404	4542	9834	4733	145	138	-104.22	-3970	4115	775	499	275.98	2.808		
10,500	4542	9930	4732	148	141	-104.20	-4037	4183	776	495	280.59	2.765		
10,504	4542	9934	4732	148	141	-104.20	-4040	4186	776	495	280.80	2.763		
10,600	4541	10,030	4731	150	143	-104.18	-4107	4255	777	492	285.41	2.722		
10,604	4541	10,034	4731	150	143	-104.18	-4110	4258	777	491	285.63	2.720		
10,700	4540	10,130	4730	153	146	-104.16	-4176	4327	778	488	290.24	2.681		
10,704	4540	10,134	4730	153	146	-104.16	-4179	4330	778	488	290.45	2.679		
10,800	4539	10,230	4730	155	148	-104.14	-4246	4398	779	484	295.06	2.640		
10,804	4539	10,234	4730	155	148	-104.14	-4249	4401	779	484	295.28	2.639		
10,900	4539	10,330	4729	158	151	-104.12	-4316	4470	780	480	299.89	2.602		
10,904	4539	10,334	4729	158	151	-104.12	-4319	4473	780	480	300.11	2.600		
11,000	4538	10,430	4728	160	153	-104.10	-4385	4542	781	477	304.73	2.564		
11,004	4538	10,434	4728	160	153	-104.10	-4388	4545	781	476	304.94	2.562		
11,100	4537	10,530	4728	163	155	-104.08	-4455	4613	782	473	309.56	2.527		
11,104	4537	10,534	4728	163	156	-104.08	-4458	4617	782	473	309.77	2.526		
11,200	4537	10,630	4727	165	158	-104.06	-4525	4685	783	469	314.39	2.492		
11,204	4537	10,634	4727	165	158	-104.06	-4528	4688	783	469	314.61	2.490		
11,300	4536	10,730	4726	168	160	-104.05	-4594	4757	784	465	319.23	2.457		
11,304	4536	10,734	4726	168	161	-104.04	-4597	4760	785	465	319.45	2.456		
11,400	4535	10,830	4726	170	163	-104.03	-4664	4829	786	461	324.07	2.424		
11,404	4535	10,834	4726	170	163	-104.03	-4667	4832	786	461	324.28	2.422		
11,500	4534	10,930	4725	173	165	-104.01	-4734	4900	787	458	328.91	2.392		
11,504	4534	10,934	4725	173	165	-104.01	-4737	4903	787	458	329.12	2.390		
11,600	4534	11,030	4724	175	168	-103.99	-4803	4972	788	454	333.75	2.360		
11,604	4534	11,034	4724	175	168	-103.99	-4806	4975	788	454	333.96	2.359		
11,700	4533	11,130	4723	177	170	-103.97	-4873	5044	789	450	338.59	2.329		
11,704	4533	11,134	4723	178	170	-103.97	-4876	5047	789	450	338.81	2.328		
11,800	4532	11,230	4723	180	173	-103.95	-4943	5115	790	446	343.44	2.300		
11,804	4532	11,234	4723	180	173	-103.95	-4946	5119	790	446	343.65	2.298		
11,900	4532	11,330	4722	182	175	-103.93	-5012	5187	791	443	348.28	2.271		
11,904	4532	11,334	4722	183	175	-103.93	-5015	5190	791	442	348.50	2.270		
12,000	4531	11,430	4721	185	178	-103.91	-5082	5259	792	439	353.13	2.243		
12,004	4531	11,434	4721	185	178	-103.91	-5085	5262	792	439	353.34	2.241		
12,100	4530	11,530	4721	187	180	-103.89	-5152	5331	793	435	357.97	2.215		
12,104	4530	11,534	4721	187	180	-103.89	-5155	5334	793	435	358.19	2.214		
12,200	4529	11,630	4720	190	183	-103.88	-5221	5402	794	431	362.82	2.189		
12,204	4529	11,634	4720	190	183	-103.87	-5224	5405	794	431	363.04	2.187		
12,300	4529	11,730	4719	192	185	-103.86	-5291	5474	795	427	367.67	2.163		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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: F31 2409 - 130H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF											Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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)	
12,304	4529	11,734	4719	192	185	-103.86	-5294	5477	795	427	367.89	2.162
12,400	4528	11,830	4718	195	188	-103.84	-5361	5546	796	424	372.52	2.137
12,404	4528	11,834	4718	195	188	-103.84	-5364	5549	796	424	372.74	2.136
12,500	4527	11,930	4718	197	190	-103.82	-5430	5617	797	420	377.38	2.113
12,504	4527	11,934	4718	197	190	-103.82	-5434	5621	797	420	377.59	2.112
12,600	4527	12,030	4717	200	193	-103.80	-5500	5689	798	416	382.23	2.089
12,604	4527	12,034	4717	200	193	-103.80	-5503	5692	798	416	382.45	2.088
12,700	4526	12,130	4716	202	195	-103.78	-5570	5761	799	412	387.09	2.065
12,704	4526	12,134	4716	202	195	-103.78	-5573	5764	799	412	387.30	2.064
12,800	4525	12,230	4716	205	198	-103.76	-5639	5833	800	409	391.94	2.042
12,804	4525	12,234	4716	205	198	-103.76	-5643	5836	801	408	392.16	2.041
12,900	4524	12,324	4715	207	200	-103.75	-5705	5900	802	405	396.56	2.021 SF
12,904	4524	12,324	4715	207	200	-103.75	-5705	5900	802	405	396.59	2.021
13,000	4524	12,324	4715	210	200	-103.75	-5705	5900	810	415	394.38	2.053
13,004	4524	12,324	4715	210	200	-103.75	-5705	5900	810	416	394.14	2.056
13,100	4523	12,324	4715	212	200	-103.75	-5705	5900	830	443	386.60	2.146
13,200	4522	12,324	4715	215	200	-103.75	-5705	5900	861	487	374.31	2.300
13,300	4522	12,324	4715	217	200	-103.75	-5705	5900	902	543	358.91	2.514
13,400	4521	12,324	4715	220	200	-103.75	-5705	5900	953	611	341.75	2.787
13,500	4520	12,324	4715	222	200	-103.75	-5705	5900	1010	686	323.95	3.118
13,600	4519	12,324	4715	225	200	-103.75	-5705	5900	1074	768	306.33	3.506
13,663	4519	12,324	4715	226	200	-103.75	-5705	5900	1117	821	295.54	3.779

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



Lonestar Consulting, LLC
Anticollision Report

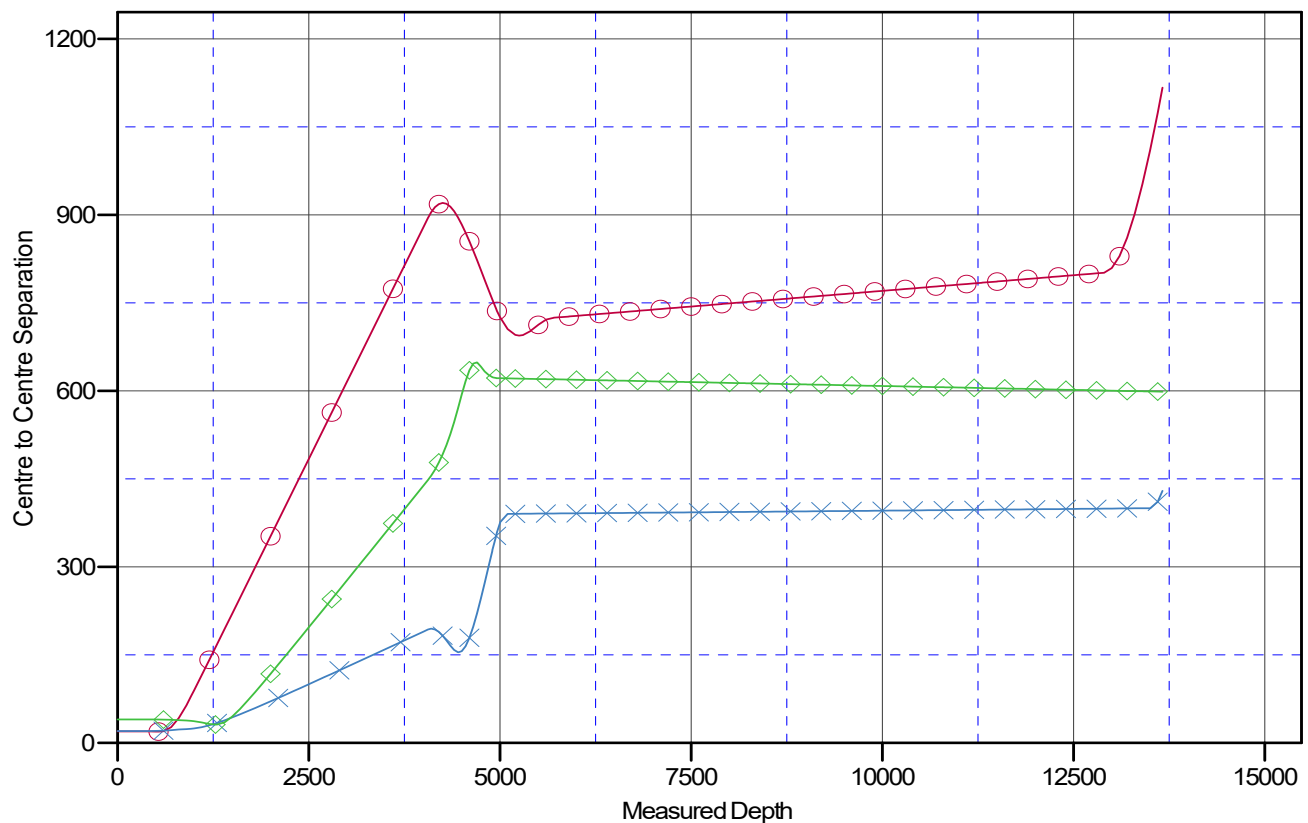


Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	Survey Calculation Method:	Minimum Curvature
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 6830' & RKB 14' @ 6844ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: 144H - Slot 2
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.00°

Ladder Plot



LEGEND

130H Original Drilling, APDVO 129H Original Drilling, APDVO 124H Original Drilling, APDVO



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 144H - Slot 2
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	144H	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 6830' & RKB 14' @ 6844ft

Offset Depths are relative to Offset Datum

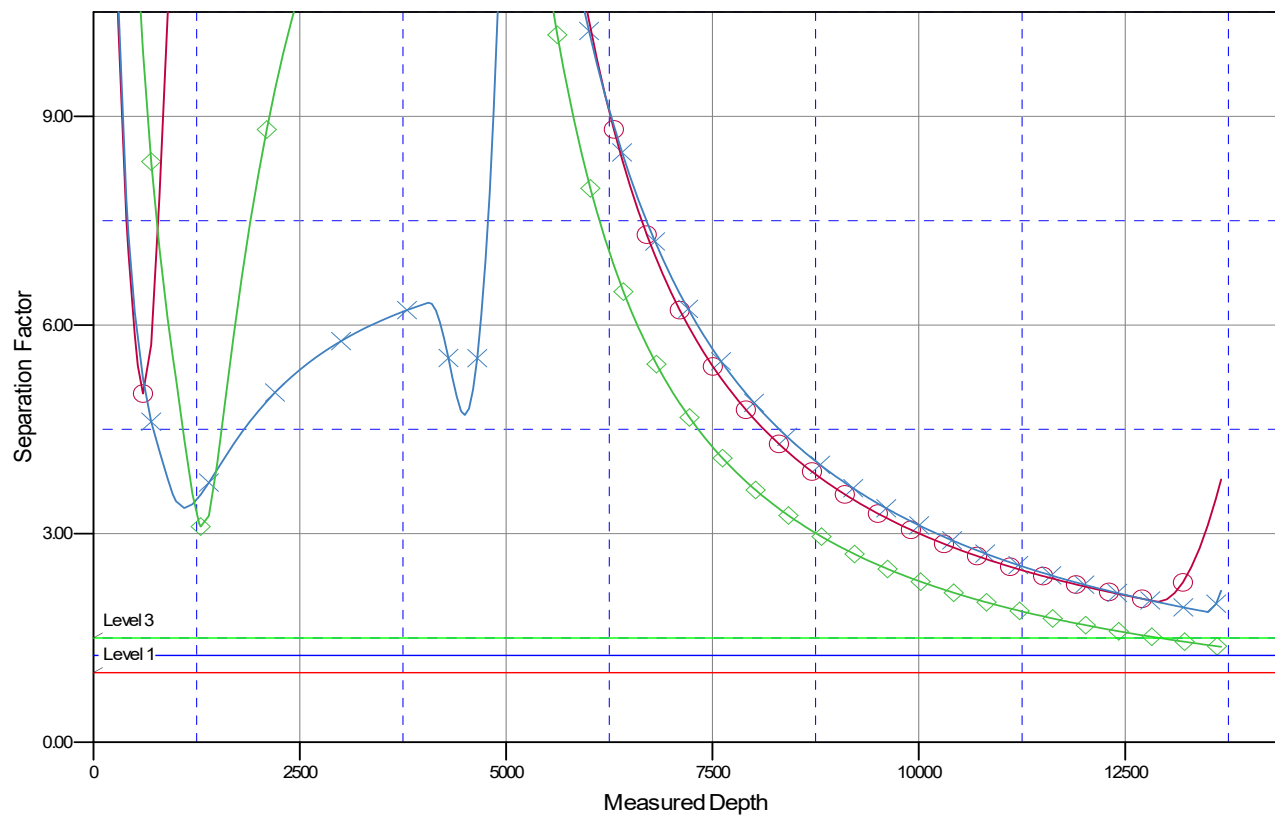
Central Meridian is -107.8333333

Coordinates are relative to: 144H - Slot 2

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

Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

130HOriginalDrilling, APDV0 129HOriginalDrilling, APDV0 124HOriginalDrilling, APDV0



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

#144H PONDEROSA F31 2409 FEDERAL COM

Lease: NMNM91522 Agreement: TBD
SH: SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 31, T. 24N., R. 9W.
San Juan County, New Mexico
BH: NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 5, T. 23N., R. 9W.
San Juan County, New Mexico

***Above Data Required on Well Sign**

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

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

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- D. ☒ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.
- E. ☐ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**
- K. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

- L. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- M. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- N. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.
 - 1. Provide complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

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

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

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 380917

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	380917
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	9/16/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/16/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/16/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/16/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/16/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/16/2024
ward.rikala	This well can not be produced until the operator is in compliance with Rule 5.9.	9/16/2024