

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. 30-045-38372
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 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 a new 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 / 2317 FNL / 1702 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.271364 / LONG: -107.833394 (TVD: 0 feet, MD: 0 feet)
PPP: NESW / 2318 FSL / 1604 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.269569 / LONG: -107.8337245 (TVD: 4949 feet, MD: 5250 feet)
PPP: LOT 1 / 1 FNL / 1342 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.26318 / LONG: -107.825728 (TVD: 4951 feet, MD: 13725 feet)
PPP: SWSE / 1292 FSL / 2646 FEL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.266722 / LONG: -107.830161 (TVD: 4951 feet, MD: 13725 feet)
PPP: LOT 4 / 1325 FNL / 1 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.259554 / LONG: -107.82119 (TVD: 4951 feet, MD: 13725 feet)
BHL: NESW / 1688 FSL / 2304 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.2533179 / LONG: -107.8133875 (TVD: 4951 feet, MD: 13725 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 30-045-38372	Pool Code 5890	Pool Name BISTI LOWER-GALLOP (O)
Property Code 336268 334695	Property Name PONDEROSA F31 2409 FEDERAL COM	Well Number 129H
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 from E/W	Latitude	Longitude	County
F	31	24N	9W		2317' NORTH	1702' WEST	36.271364°N NAD83	107.833394°W NAD83	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
K	5	23N	9W		1688' SOUTH	2304' WEST	36.253318°N NAD83	107.813388°W NAD83	SAN JUAN

Dedicated Acres: SEC 31: E2/SW, W2/SE & SE/SE(200 AC.) SEC 6: LOT 2 & 1, & SE/NE (121.09 AC.) SEC 5: LOT 4, S2/NW, N2/SW (200.77 AC.) = 521.86 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 from E/W	Latitude	Longitude	County
K	31	24N	9W		2318' SOUTH	1604' WEST	36.269569°N NAD83	107.833725°W NAD83	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
K	31	24N	9W		2318' SOUTH	1604' WEST	36.269569°N NAD83	107.833725°W NAD83	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
K	5	23N	9W		1688' SOUTH	2304' WEST	36.253318°N NAD83	107.813388°W NAD83	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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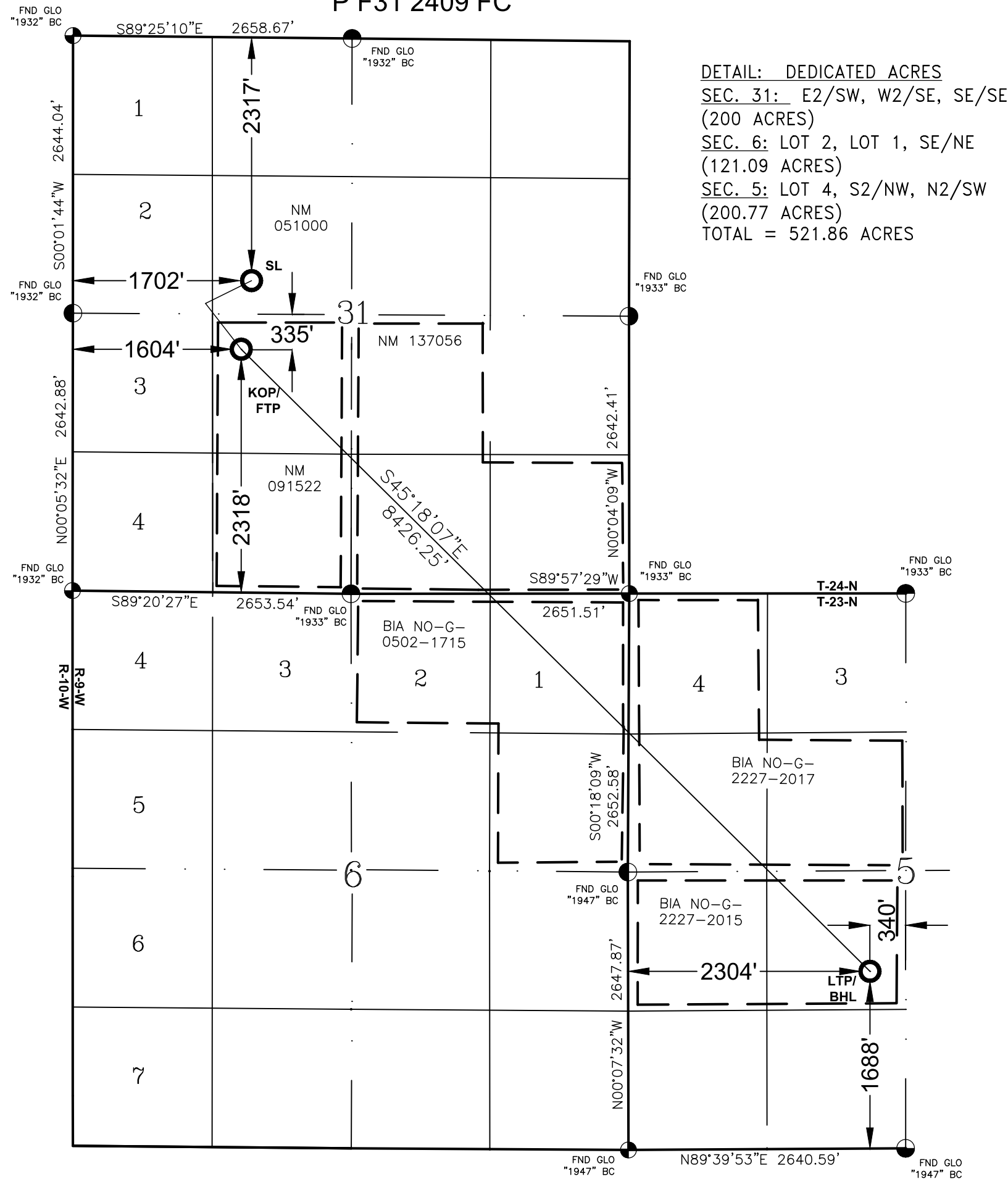
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.</i> <i>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.</i> Shaw-Marie Ford Signature 9/5/2024 Date Shaw-Marie Ford Printed Name sford@enduringresources.com E-mail Address	SURVEYOR CERTIFICATION <i>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.</i>  GLEN W. RUSSELL Signature and Seal of Professional Surveyor: Certificate Number 15703 Date of Survey AUGUST 29, 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.

DJR OPERATING , LLC

PONDEROSA F31 2409 FEDERAL COM #129H

P F31 2409 FC



SURFACE LOCATION (SL)
2317' FNL, 1702' FWL
SEC. 31, T24N, R9W
LAT: 36.271364° N
LONG: 107.833394° W NAD83

FIRST TAKE POINT (FTP)
2318' FSL, 1604' FWL
SEC. 31, T24N, R9W
LAT: 36.269569° N
LONG: 107.833725° W NAD83

BOTTOM HOLE LOCATION (BHL)
1688' FSL, 2304' FWL
SEC. 5, T23N, R9W
LAT: 36.253318° N
LONG: 107.813388° W NAD83

KICK OFF POINT (KOP)
2318' FSL, 1604' FWL
SEC. 31, T24N, R9W
LAT: 36.269569° N
LONG: 107.833725° W NAD83

LAST TAKE POINT (LTP)
1688' FSL, 2304' FWL
SEC. 5, T23N, R9W
LAT: 36.253318° N
LONG: 107.813388° W NAD83

**DJR OPERATING, LLC
PONDEROSA F31 2409 FEDERAL COM #129H
P F31 2409 FC**

SURFACE LOCATION NM 051000
2317' 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: 36.271364° N LONG: 107.833394° W NAD83

PPP1(FIRST TAKE POINT) NM 091522
2318' FSL, 1604' 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: 36.269569° N LONG: 107.833725° W NAD83

PPP2 NM 137056
1292' FSL, 2646' 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: 36.266722° N LONG: 107.830161° W NAD83

PPP3 BIA NO-G-0502-1715
1' FNL, 1342' FEL
LOCATED IN LOT 1 OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263180° N LONG: 107.825728° W NAD83

PPP4 BIA NO-G-2227-2017
1325' FNL, 1' FWL
LOCATED IN LOT 4 OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.259554° N LONG: 107.821190° W NAD83

PPP5 BIA NO-G-2227-2015
2046' FSL, 1344' 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: 36.255930° N LONG: 107.816655° W NAD83

PPP6 (LAST TAKE POINT) BOTTOM HOLE LOCATION BIA NO-G-2227-2015
1688' FSL, 2304' 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: 36.253318° N LONG: 107.813388° 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 (0)
⁴ Property Code 334695	⁵ Property Name PONDEROSA F31 2409 FEDERAL COM	⁶ Well Number 129H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6830

¹⁰ Surface Location

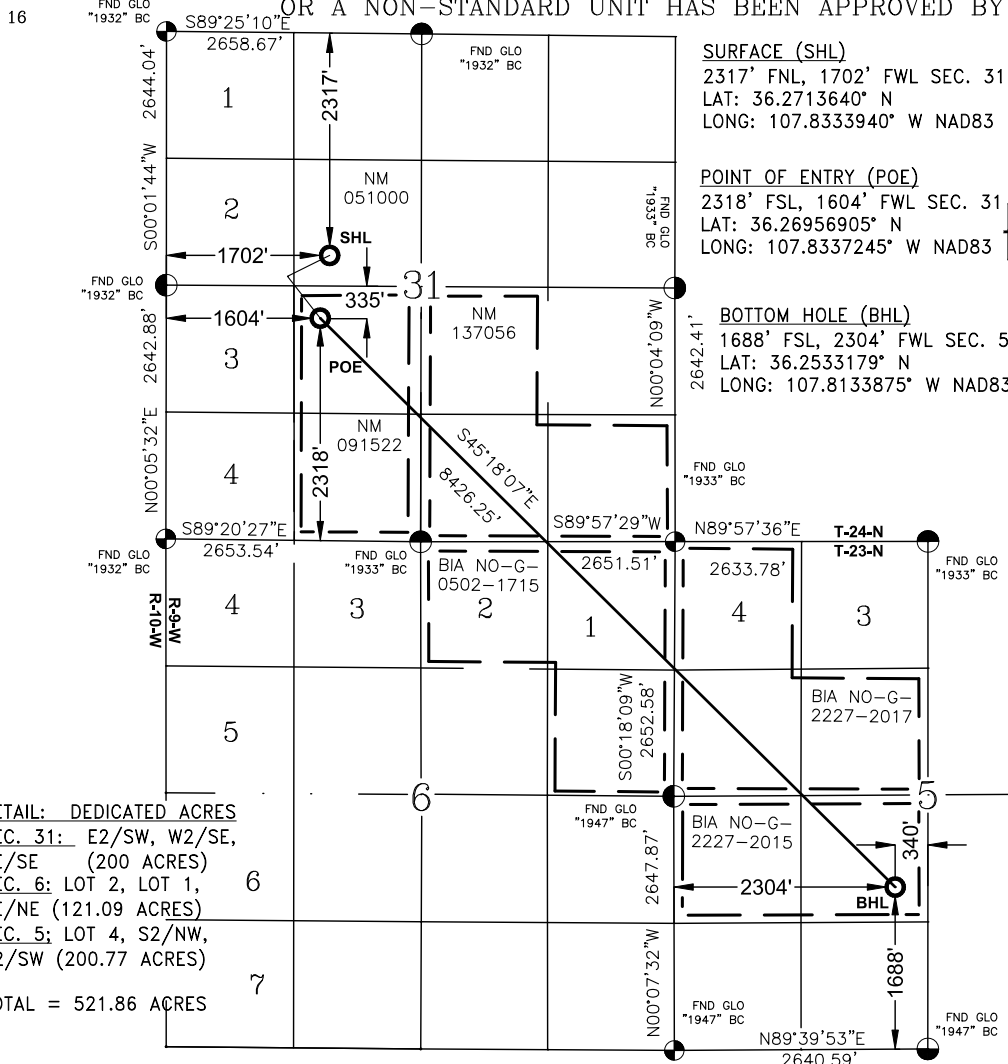
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	31	24-N	9-W		2317	NORTH	1702	WEST	SAN JUAN

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		1688	SOUTH	2304	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 12/14/23

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

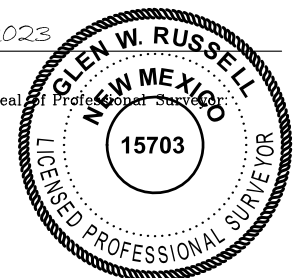
¹⁸ SURVEYOR CERTIFICATION

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 23, 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) 334-6170

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

ACREAGE DEDICATION AND UNIT BOUNDARY PLAT

DJR OPERATING, LLC

PONDEROSA F31 2409 FEDERAL COM #129H

P F31 2409 FC

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

☐ AMENDED REPORT

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

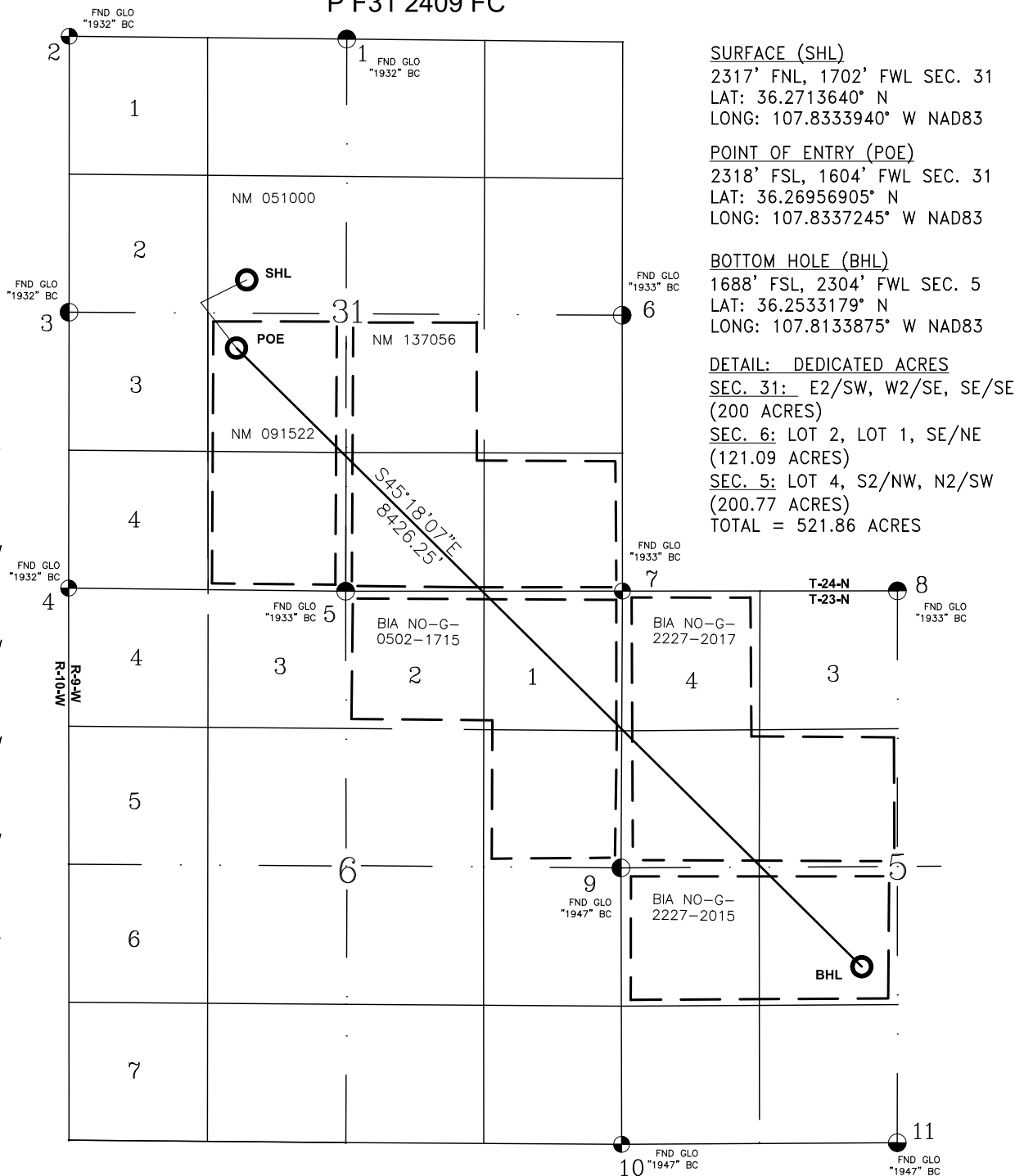
LAT: 36.255907° N
LONG: 107.821211° W
NAD83

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.



DJR OPERATING, LLC.
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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



DJR OPERATING, LLC.
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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
NATURAL GAS MANAGEMENT PLAN
Ponderosa F31 2409 FED COM 124H, 129H, 130H, 144H
SENW F-31-24N-09W

BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 0



DRILLING PLAN

Ponderosa F31 2409 Federal COM #129H

San Juan County, New Mexico

Surface Location

1702-ft FWL & 2317-ft FNL
 Sec 31 T24 R9
 Graded Elevation 6830' MSL
 RKB Elevation 6844' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2713640° N
 Longitude 107.8333940° W

Kick Off Point for Horizontal Build Curve

4418-ft MD
 4387-ft TVD

Local Coordinates (from SHL)

218-ft South
 439-ft West

Heel Location (Pay zone entry)

1604-ft FWL & 2318-ft FSL
 Sec 31 T24 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.26956905° N
 Longitude 107.83372448° W

Bottom Hole Location (TD)

2304-ft FWL & 1688-ft FSL
 Sec 5 T23 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.2533179° N
 Longitude 107.8133875° W

Well objectives

This well is planned as a 8420-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

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

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	590	590	Sd	W	8.3	8.4 – 8.8
Kirtland	680	680	Sh	-	8.3	8.4 – 8.8
Fruitland	868	866	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1289	1284	Sd	W	8.3	9.0 - 9.5
Lewis	1421	1415	Sh	-		9.0 - 9.5
Chacra	2028	2017	Sd	-	8.3	9.0 - 9.5
Menefee	2737	2720	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3738	3712	Sd	-	8.3	9.0 - 9.5
Mancos	3891	3864	Sh	-		9.0 - 9.5
Mancos Silt	4261	4231	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4740	4692	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4799	4740	Sd	O/G	6.6	8.8 -9.0
Gallup C	4970	4856	Sd	O/G	6.6	8.8 -9.0
Target	5302	4951	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	5250	surf	4949	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5010	13725	4877	4891	5010

Note: all casing will be new

Rev 0



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement 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	3891-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	432	141
Volume (bbls)	179	38
Volume (cu.ft.)	1003	213
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5010-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	754
Volume (cu.ft)	204
Excess %	1146
	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 – 5250	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5250 – 13725	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

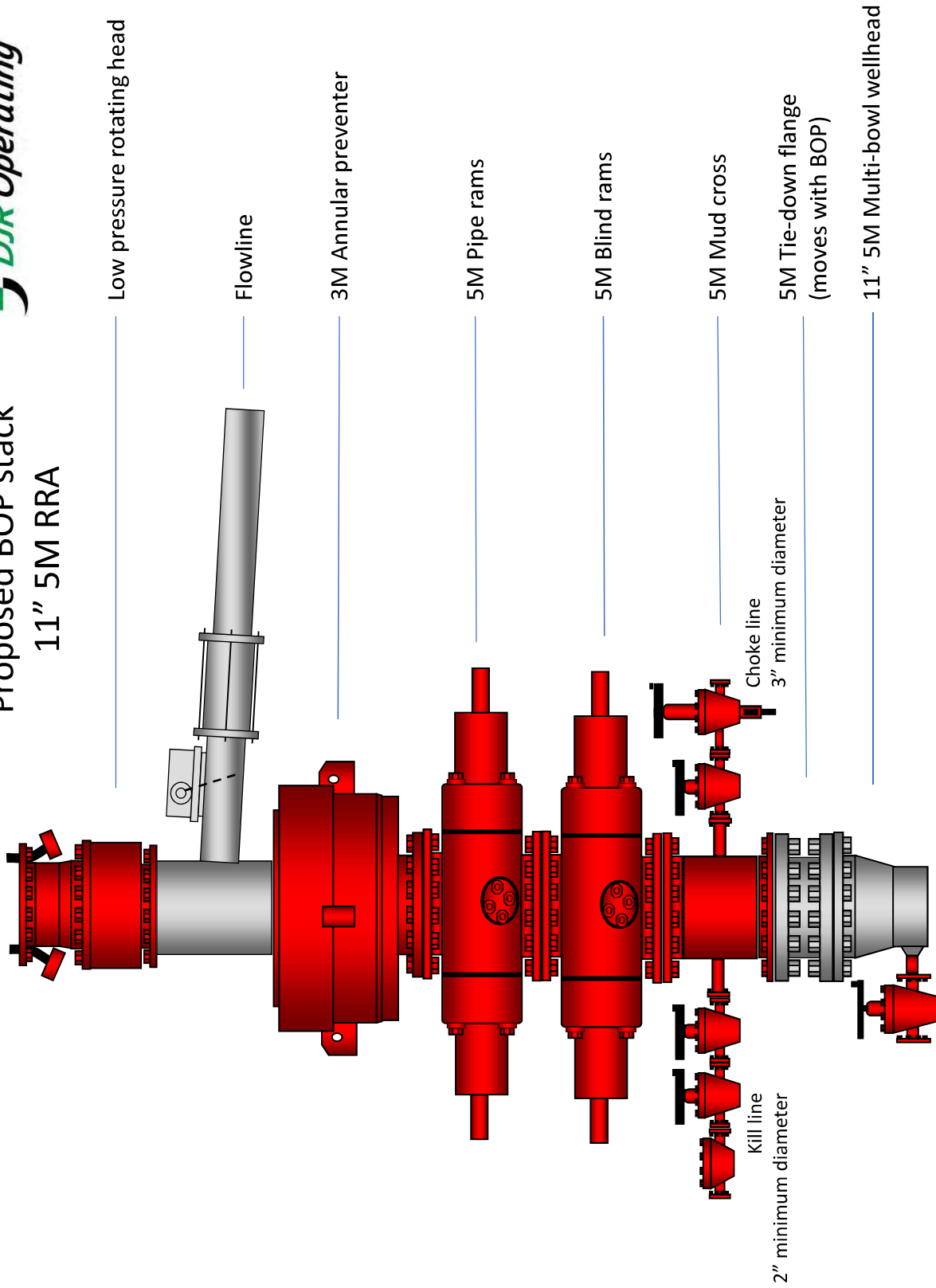
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports 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.



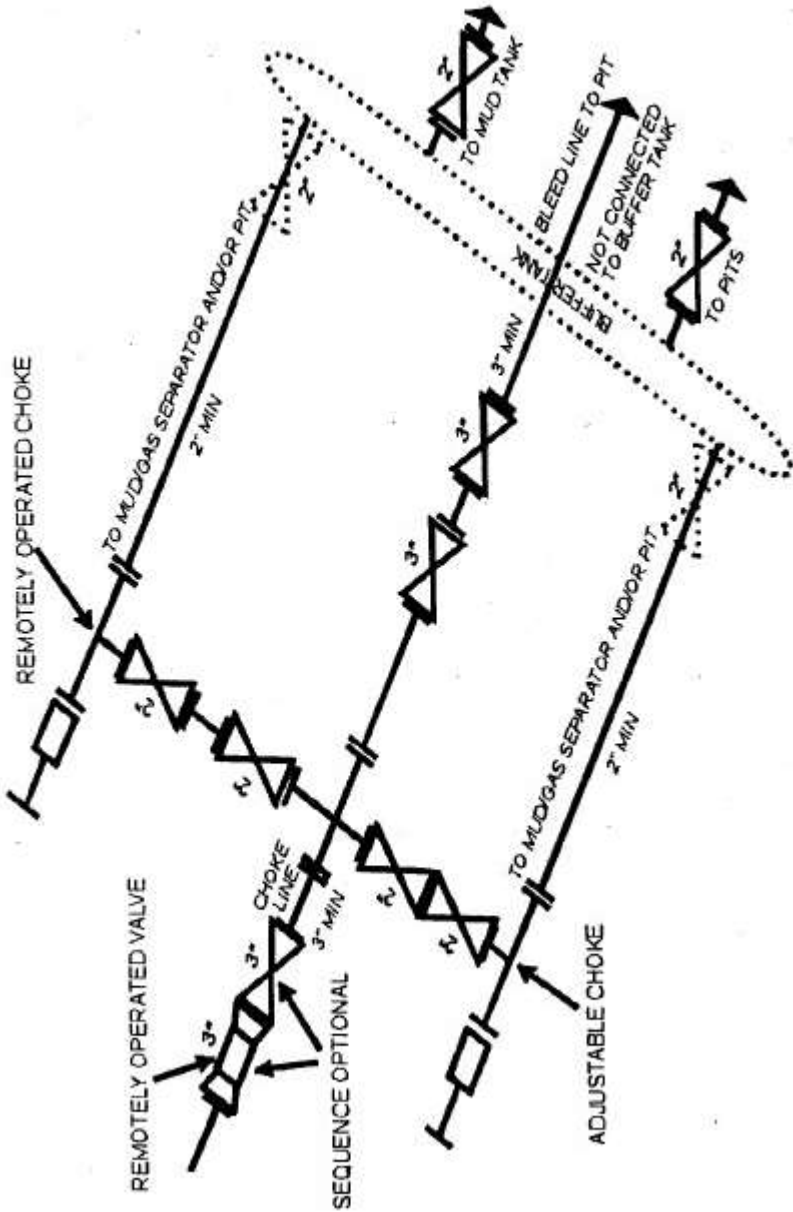
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Ponderosa Unit
Site: F31 2409
Well: 129H
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: 129H

GL 6830' 7 RKB 14' @ 6844ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1918075.51	2723073.78	36.27136400	-107.83339400

Plan: APD (129H/Original Drilling)

Created By: Janie Collins Date: 15:22, August 01 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
P 129H Heel	4951	-653	-97	1917422.11	2722976.37	36.26956905	-107.83372448
P 129H Toe	4891	-6569	5899	1911506.91	2728972.46	36.25331790	-107.81338751

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
795	7.40	243.59	794	-11	-21	2.00	243.59	-6
4418	7.40	243.59	4387	-218	-439	0.00	0.00	-131
5302	90.41	134.61	4951	-653	-97	10.50	-108.78	421
13725	90.41	134.61	4891	-6569	5899	0.00	0.00	8828



Azimuths to True North
Magnetic North: 10.08°

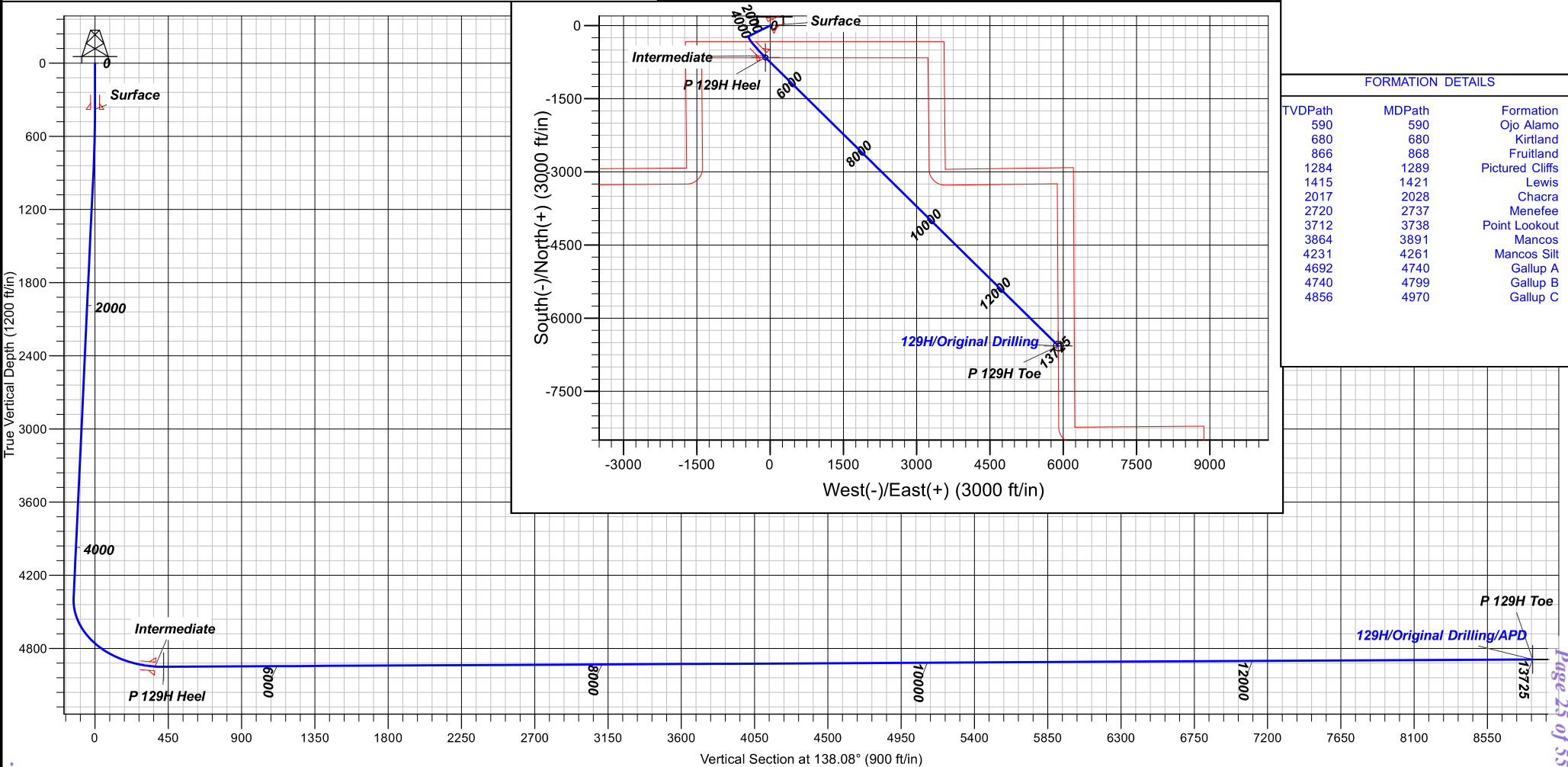
Magnetic Field
Strength: 50626 nT
Dip Angle: 63.09°
Date: 12/31/2019
Model: IGRF2005-10

CASING DETAILS

TVD	MD	Name
380	380	Surface
4949	5250	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
590	590	Ojo Alamo
680	680	Kirtland
866	868	Fruitland
1284	1289	Pictured Cliffs
1415	1421	Lewis
2017	2028	Chacra
2720	2737	Menefee
3712	3738	Point Lookout
3864	3891	Mancos
4231	4261	Mancos Silt
4692	4740	Gallup A
4740	4799	Gallup B
4856	4970	Gallup C





DJR Operating

Ponderosa Unit

F31 2409

129H - Slot 1

Original Drilling

Plan: APD

Standard Planning Report

01 August, 2022





Lonestar Consulting, LLC Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 129H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	129H	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	129H - Slot 1					
Well Position	+N/-S	0 ft	Northing:	1,918,075.51 usft	Latitude:	36.27136400
	+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	50,626.73118927

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	138.08

Plan Survey Tool Program	Date	7/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	13,725 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	
795	7.40	243.59	794	-11	-21	2.00	2.00	0.00	243.59	
4418	7.40	243.59	4387	-218	-439	0.00	0.00	0.00	0.00	
5302	90.41	134.61	4951	-653	-97	10.50	9.39	-12.33	-108.78	P 129H Heel
13,725	90.41	134.61	4891	-6569	5899	0.00	0.00	0.00	0.00	P 129H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 129H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	129H	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	243.59	500	0	-1	0	2.00	2.00	0.00
600	3.50	243.59	600	-2	-5	-1	2.00	2.00	0.00
700	5.50	243.59	700	-6	-12	-4	2.00	2.00	0.00
795	7.40	243.59	794	-11	-21	-6	2.00	2.00	0.00
800	7.40	243.59	799	-11	-22	-7	0.00	0.00	0.00
900	7.40	243.59	898	-17	-33	-10	0.00	0.00	0.00
1000	7.40	243.59	997	-22	-45	-13	0.00	0.00	0.00
1100	7.40	243.59	1096	-28	-57	-17	0.00	0.00	0.00
1200	7.40	243.59	1196	-34	-68	-20	0.00	0.00	0.00
1300	7.40	243.59	1295	-40	-80	-24	0.00	0.00	0.00
1400	7.40	243.59	1394	-45	-91	-27	0.00	0.00	0.00
1500	7.40	243.59	1493	-51	-103	-31	0.00	0.00	0.00
1600	7.40	243.59	1592	-57	-114	-34	0.00	0.00	0.00
1700	7.40	243.59	1691	-62	-126	-38	0.00	0.00	0.00
1800	7.40	243.59	1791	-68	-137	-41	0.00	0.00	0.00
1900	7.40	243.59	1890	-74	-149	-44	0.00	0.00	0.00
2000	7.40	243.59	1989	-80	-160	-48	0.00	0.00	0.00
2100	7.40	243.59	2088	-85	-172	-51	0.00	0.00	0.00
2200	7.40	243.59	2187	-91	-183	-55	0.00	0.00	0.00
2300	7.40	243.59	2286	-97	-195	-58	0.00	0.00	0.00
2400	7.40	243.59	2386	-103	-207	-62	0.00	0.00	0.00
2500	7.40	243.59	2485	-108	-218	-65	0.00	0.00	0.00
2600	7.40	243.59	2584	-114	-230	-69	0.00	0.00	0.00
2700	7.40	243.59	2683	-120	-241	-72	0.00	0.00	0.00
2800	7.40	243.59	2782	-125	-253	-75	0.00	0.00	0.00
2900	7.40	243.59	2881	-131	-264	-79	0.00	0.00	0.00
3000	7.40	243.59	2981	-137	-276	-82	0.00	0.00	0.00
3100	7.40	243.59	3080	-143	-287	-86	0.00	0.00	0.00
3200	7.40	243.59	3179	-148	-299	-89	0.00	0.00	0.00
3300	7.40	243.59	3278	-154	-310	-93	0.00	0.00	0.00
3400	7.40	243.59	3377	-160	-322	-96	0.00	0.00	0.00
3500	7.40	243.59	3476	-166	-333	-100	0.00	0.00	0.00
3600	7.40	243.59	3576	-171	-345	-103	0.00	0.00	0.00
3700	7.40	243.59	3675	-177	-356	-106	0.00	0.00	0.00
3800	7.40	243.59	3774	-183	-368	-110	0.00	0.00	0.00
3900	7.40	243.59	3873	-188	-380	-113	0.00	0.00	0.00
4000	7.40	243.59	3972	-194	-391	-117	0.00	0.00	0.00
4100	7.40	243.59	4071	-200	-403	-120	0.00	0.00	0.00
4200	7.40	243.59	4171	-206	-414	-124	0.00	0.00	0.00
4300	7.40	243.59	4270	-211	-426	-127	0.00	0.00	0.00
4400	7.40	243.59	4369	-217	-437	-131	0.00	0.00	0.00
4418	7.40	243.59	4387	-218	-439	-131	0.00	0.00	0.00
4500	9.36	182.88	4468	-227	-444	-128	10.50	2.38	-74.02
4600	18.09	156.75	4565	-250	-439	-107	10.50	8.73	-26.12
4700	28.04	148.00	4657	-284	-420	-69	10.50	9.95	-8.76
4800	38.27	143.62	4741	-329	-389	-15	10.50	10.23	-4.38
4900	48.60	140.88	4813	-383	-347	53	10.50	10.33	-2.74
5000	58.98	138.90	4872	-445	-295	134	10.50	10.38	-1.98



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 129H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	129H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5100	69.38	137.31	4916	-511	-235	224	10.50	10.40	-1.59
5200	79.80	135.93	4942	-581	-169	320	10.50	10.42	-1.38
5300	90.22	134.63	4951	-652	-99	419	10.50	10.42	-1.29
5302	90.41	134.61	4951	-653	-97	421	10.50	10.42	-1.28
5400	90.41	134.61	4950	-722	-28	519	0.00	0.00	0.00
5500	90.41	134.61	4950	-793	44	619	0.00	0.00	0.00
5600	90.41	134.61	4949	-863	115	719	0.00	0.00	0.00
5700	90.41	134.61	4948	-933	186	818	0.00	0.00	0.00
5800	90.41	134.61	4947	-1003	257	918	0.00	0.00	0.00
5900	90.41	134.61	4947	-1073	328	1018	0.00	0.00	0.00
6000	90.41	134.61	4946	-1144	400	1118	0.00	0.00	0.00
6100	90.41	134.61	4945	-1214	471	1218	0.00	0.00	0.00
6200	90.41	134.61	4945	-1284	542	1318	0.00	0.00	0.00
6300	90.41	134.61	4944	-1354	613	1417	0.00	0.00	0.00
6400	90.41	134.61	4943	-1425	684	1517	0.00	0.00	0.00
6500	90.41	134.61	4942	-1495	756	1617	0.00	0.00	0.00
6600	90.41	134.61	4942	-1565	827	1717	0.00	0.00	0.00
6700	90.41	134.61	4941	-1635	898	1817	0.00	0.00	0.00
6800	90.41	134.61	4940	-1706	969	1916	0.00	0.00	0.00
6900	90.41	134.61	4940	-1776	1040	2016	0.00	0.00	0.00
7000	90.41	134.61	4939	-1846	1111	2116	0.00	0.00	0.00
7100	90.41	134.61	4938	-1916	1183	2216	0.00	0.00	0.00
7200	90.41	134.61	4937	-1986	1254	2316	0.00	0.00	0.00
7300	90.41	134.61	4937	-2057	1325	2416	0.00	0.00	0.00
7400	90.41	134.61	4936	-2127	1396	2515	0.00	0.00	0.00
7500	90.41	134.61	4935	-2197	1467	2615	0.00	0.00	0.00
7600	90.41	134.61	4935	-2267	1539	2715	0.00	0.00	0.00
7700	90.41	134.61	4934	-2338	1610	2815	0.00	0.00	0.00
7800	90.41	134.61	4933	-2408	1681	2915	0.00	0.00	0.00
7900	90.41	134.61	4932	-2478	1752	3014	0.00	0.00	0.00
8000	90.41	134.61	4932	-2548	1823	3114	0.00	0.00	0.00
8100	90.41	134.61	4931	-2618	1895	3214	0.00	0.00	0.00
8200	90.41	134.61	4930	-2689	1966	3314	0.00	0.00	0.00
8300	90.41	134.61	4930	-2759	2037	3414	0.00	0.00	0.00
8400	90.41	134.61	4929	-2829	2108	3513	0.00	0.00	0.00
8500	90.41	134.61	4928	-2899	2179	3613	0.00	0.00	0.00
8600	90.41	134.61	4927	-2970	2250	3713	0.00	0.00	0.00
8700	90.41	134.61	4927	-3040	2322	3813	0.00	0.00	0.00
8800	90.41	134.61	4926	-3110	2393	3913	0.00	0.00	0.00
8900	90.41	134.61	4925	-3180	2464	4013	0.00	0.00	0.00
9000	90.41	134.61	4925	-3251	2535	4112	0.00	0.00	0.00
9100	90.41	134.61	4924	-3321	2606	4212	0.00	0.00	0.00
9200	90.41	134.61	4923	-3391	2678	4312	0.00	0.00	0.00
9300	90.41	134.61	4923	-3461	2749	4412	0.00	0.00	0.00
9400	90.41	134.61	4922	-3531	2820	4512	0.00	0.00	0.00
9500	90.41	134.61	4921	-3602	2891	4611	0.00	0.00	0.00
9600	90.41	134.61	4920	-3672	2962	4711	0.00	0.00	0.00
9700	90.41	134.61	4920	-3742	3034	4811	0.00	0.00	0.00
9800	90.41	134.61	4919	-3812	3105	4911	0.00	0.00	0.00
9900	90.41	134.61	4918	-3883	3176	5011	0.00	0.00	0.00
10,000	90.41	134.61	4918	-3953	3247	5111	0.00	0.00	0.00
10,100	90.41	134.61	4917	-4023	3318	5210	0.00	0.00	0.00
10,200	90.41	134.61	4916	-4093	3389	5310	0.00	0.00	0.00
10,300	90.41	134.61	4915	-4163	3461	5410	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 129H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	129H	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	134.61	4915	-4234	3532	5510	0.00	0.00	0.00	
10,500	90.41	134.61	4914	-4304	3603	5610	0.00	0.00	0.00	
10,600	90.41	134.61	4913	-4374	3674	5709	0.00	0.00	0.00	
10,700	90.41	134.61	4913	-4444	3745	5809	0.00	0.00	0.00	
10,800	90.41	134.61	4912	-4515	3817	5909	0.00	0.00	0.00	
10,900	90.41	134.61	4911	-4585	3888	6009	0.00	0.00	0.00	
11,000	90.41	134.61	4910	-4655	3959	6109	0.00	0.00	0.00	
11,100	90.41	134.61	4910	-4725	4030	6208	0.00	0.00	0.00	
11,200	90.41	134.61	4909	-4796	4101	6308	0.00	0.00	0.00	
11,300	90.41	134.61	4908	-4866	4173	6408	0.00	0.00	0.00	
11,400	90.41	134.61	4908	-4936	4244	6508	0.00	0.00	0.00	
11,500	90.41	134.61	4907	-5006	4315	6608	0.00	0.00	0.00	
11,600	90.41	134.61	4906	-5076	4386	6708	0.00	0.00	0.00	
11,700	90.41	134.61	4905	-5147	4457	6807	0.00	0.00	0.00	
11,800	90.41	134.61	4905	-5217	4528	6907	0.00	0.00	0.00	
11,900	90.41	134.61	4904	-5287	4600	7007	0.00	0.00	0.00	
12,000	90.41	134.61	4903	-5357	4671	7107	0.00	0.00	0.00	
12,100	90.41	134.61	4903	-5428	4742	7207	0.00	0.00	0.00	
12,200	90.41	134.61	4902	-5498	4813	7306	0.00	0.00	0.00	
12,300	90.41	134.61	4901	-5568	4884	7406	0.00	0.00	0.00	
12,400	90.41	134.61	4900	-5638	4956	7506	0.00	0.00	0.00	
12,500	90.41	134.61	4900	-5708	5027	7606	0.00	0.00	0.00	
12,600	90.41	134.61	4899	-5779	5098	7706	0.00	0.00	0.00	
12,700	90.41	134.61	4898	-5849	5169	7806	0.00	0.00	0.00	
12,800	90.41	134.61	4898	-5919	5240	7905	0.00	0.00	0.00	
12,900	90.41	134.61	4897	-5989	5312	8005	0.00	0.00	0.00	
13,000	90.41	134.61	4896	-6060	5383	8105	0.00	0.00	0.00	
13,100	90.41	134.61	4895	-6130	5454	8205	0.00	0.00	0.00	
13,200	90.41	134.61	4895	-6200	5525	8305	0.00	0.00	0.00	
13,300	90.41	134.61	4894	-6270	5596	8404	0.00	0.00	0.00	
13,400	90.41	134.61	4893	-6341	5667	8504	0.00	0.00	0.00	
13,500	90.41	134.61	4893	-6411	5739	8604	0.00	0.00	0.00	
13,600	90.41	134.61	4892	-6481	5810	8704	0.00	0.00	0.00	
13,700	90.41	134.61	4891	-6551	5881	8804	0.00	0.00	0.00	
13,725	90.41	134.61	4891	-6569	5899	8828	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 129H Toe	0.00	0.00	4891	-6569	5899	1,911,506.91	2,728,972.46	36.25331790	-107.81338751	
- plan hits target center										
- Circle (radius 100)										
P 129H Heel	0.00	0.00	4951	-653	-97	1,917,422.11	2,722,976.37	36.26956905	-107.83372447	
- plan hits target center										
- Circle (radius 50)										



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 129H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	129H	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	
5250	4949	Intermediate	7.00	8.75	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
590	590	Ojo Alamo		0.00	0.00	
680	680	Kirtland		0.00	0.00	
868	866	Fruitland		0.00	0.00	
1289	1284	Pictured Cliffs		0.00	0.00	
1421	1415	Lewis		0.00	0.00	
2028	2017	Chacra		0.00	0.00	
2737	2720	Menefee		0.00	0.00	
3738	3712	Point Lookout		0.00	0.00	
3891	3864	Mancos		0.00	0.00	
4261	4231	Mancos Silt		0.00	0.00	
4740	4692	Gallup A		0.00	0.00	
4799	4740	Gallup B		0.00	0.00	
4970	4856	Gallup C		0.00	0.00	



DJR Operating

Ponderosa Unit

F31 2409

129H

Original Drilling

APD

Anticollision Report

01 August, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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	13,725	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference	Offset	Distance		Separation	Warning
	Measured	Measured	Between	Between		
	Depth	Depth	Centres	Ellipses		
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	(ft)	Factor	
F31 2409						
124H - Original Drilling - APD	1129	1133	59	51	7.187	CC
124H - Original Drilling - APD	1200	1204	60	51	6.724	ES
124H - Original Drilling - APD	13,725	14,066	747	313	1.722	SF
130H - Original Drilling - APD	567	568	40	36	10.507	CC
130H - Original Drilling - APD	600	601	40	36	9.945	ES
130H - Original Drilling - APD	13,100	12,313	656	265	1.679	SF
144H - Original Drilling - APD	425	425	20	18	7.300	CC
144H - Original Drilling - APD	600	600	21	17	5.228	ES
144H - Original Drilling - APD	13,725	13,506	400	186	1.871	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)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor			
0	0	0	0	0	0	0.28	60	0	60					
100	100	100	100	0	0	0.28	60	0	60	60	0.46	130.677		
200	200	200	200	1	1	0.28	60	0	60	59	1.18	51.238		
300	300	300	300	1	1	0.28	60	0	60	59	1.90	31.866		
400	400	400	400	1	1	0.28	60	0	60	58	2.61	23.124		
425	425	425	425	1	1	0.28	60	0	60	58	2.79	21.640		
500	500	501	501	2	2	116.66	60	-1	60	57	3.31	18.245		
600	600	601	601	2	2	116.52	58	-5	61	57	4.00	15.161		
700	700	702	702	2	2	116.27	55	-12	61	56	4.72	12.950		
795	794	798	797	3	3	115.94	51	-22	62	56	5.42	11.357		
800	799	803	802	3	3	115.92	51	-23	62	56	5.46	11.282		
900	898	904	902	3	3	113.86	45	-36	62	55	6.25	9.848		
1000	997	1004	1000	4	4	108.64	38	-53	61	53	7.10	8.535		
1100	1096	1104	1098	4	4	100.01	29	-73	60	52	8.00	7.442		
1129	1125	1133	1126	4	4	96.91	26	-80	59	51	8.28	7.187 CC		
1200	1196	1204	1194	4	5	88.08	19	-96	60	51	8.95	6.724 ES		
1300	1295	1302	1288	5	5	74.08	8	-122	64	54	9.83	6.541		
1400	1394	1399	1380	5	6	60.29	-4	-151	74	63	10.58	6.966		

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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
1500	1493	1496	1472	6	6	48.79	-17	-181	88	77	11.23	7.852	
1600	1592	1594	1563	6	7	40.60	-30	-212	105	93	11.87	8.869	
1700	1691	1691	1655	7	8	34.76	-43	-243	124	111	12.53	9.888	
1800	1791	1789	1747	7	8	30.46	-56	-273	143	130	13.21	10.858	
1900	1890	1886	1838	7	9	27.20	-69	-304	164	150	13.91	11.760	
2000	1989	1984	1930	8	10	24.65	-82	-335	184	170	14.63	12.591	
2100	2088	2082	2022	8	11	22.62	-95	-366	205	190	15.36	13.352	
2200	2187	2179	2113	9	11	20.96	-109	-396	226	210	16.09	14.049	
2300	2286	2277	2205	9	12	19.58	-122	-427	247	230	16.83	14.688	
2400	2386	2374	2297	10	13	18.43	-135	-458	269	251	17.58	15.275	
2500	2485	2472	2388	10	13	17.44	-148	-489	290	272	18.34	15.815	
2600	2584	2569	2480	10	14	16.58	-161	-519	311	292	19.09	16.312	
2700	2683	2667	2572	11	15	15.84	-174	-550	333	313	19.85	16.772	
2800	2782	2765	2663	11	16	15.19	-187	-581	355	334	20.62	17.198	
2900	2881	2862	2755	12	16	14.61	-200	-612	376	355	21.38	17.593	
3000	2981	2960	2847	12	17	14.10	-213	-642	398	376	22.15	17.961	
3100	3080	3057	2938	13	18	13.63	-226	-673	419	397	22.92	18.304	
3200	3179	3155	3030	13	19	13.22	-240	-704	441	418	23.69	18.624	
3300	3278	3252	3122	13	19	12.84	-253	-735	463	438	24.46	18.924	
3400	3377	3350	3213	14	20	12.50	-266	-765	485	459	25.23	19.206	
3500	3476	3448	3305	14	21	12.18	-279	-796	506	480	26.01	19.471	
3600	3576	3545	3397	15	22	11.89	-292	-827	528	501	26.78	19.720	
3700	3675	3643	3488	15	22	11.63	-305	-858	550	522	27.56	19.955	
3800	3774	3740	3580	16	23	11.38	-318	-888	572	543	28.34	20.177	
3900	3873	3838	3672	16	24	11.16	-331	-919	594	564	29.11	20.387	
4000	3972	3935	3763	16	25	10.94	-344	-950	615	585	29.89	20.586	
4100	4071	4033	3855	17	25	10.75	-358	-981	637	606	30.67	20.774	
4200	4171	4131	3947	17	26	10.56	-371	-1011	659	628	31.45	20.954	
4300	4270	4228	4038	18	27	10.39	-384	-1042	681	649	32.23	21.124	
4400	4369	4326	4130	18	28	10.23	-397	-1073	703	670	33.01	21.286	
4418	4387	4343	4146	18	28	10.20	-399	-1079	707	673	33.15	21.314	
4450	4419	4374	4176	18	28	36.14	-403	-1088	714	681	33.40	21.374	
4500	4468	4498	4293	19	29	68.46	-430	-1118	725	691	34.35	21.102	
4550	4517	4625	4410	19	29	83.20	-477	-1127	733	698	34.87	21.010	
4600	4565	4747	4515	19	30	88.92	-538	-1115	737	702	35.05	21.030	
4650	4612	4859	4599	19	30	90.58	-606	-1087	739	704	35.19	21.009	
4700	4657	4960	4661	19	30	90.31	-674	-1049	740	704	35.49	20.844	
4750	4700	5048	4705	19	30	89.10	-738	-1005	739	703	36.04	20.513	
4800	4741	5127	4734	19	30	87.43	-796	-961	738	701	36.77	20.072	
4850	4779	5197	4751	20	30	85.55	-848	-917	737	699	37.61	19.596	
4896	4811	5256	4759	20	30	83.73	-890	-877	736	698	38.42	19.159	
4900	4813	5260	4759	20	30	83.58	-894	-874	736	697	38.48	19.128	
4940	4839	5307	4761	20	30	81.97	-927	-842	735	696	39.19	18.767	
4950	4845	5315	4761	20	30	81.70	-932	-836	735	696	39.34	18.692	
4959	4850	5322	4761	20	30	81.47	-938	-831	735	696	39.49	18.622	
5000	4872	5356	4761	20	30	80.37	-961	-807	736	696	40.12	18.338	
5050	4896	5400	4760	20	30	79.00	-992	-775	737	696	40.91	18.014	
5100	4916	5446	4760	20	30	77.70	-1024	-743	738	697	41.83	17.652	
5150	4931	5493	4760	21	30	76.59	-1058	-709	740	697	42.80	17.294	
5200	4942	5542	4759	21	30	75.73	-1092	-675	741	698	43.91	16.888	
5210	4944	5551	4759	21	30	75.60	-1099	-668	742	698	44.16	16.796	
5250	4949	5591	4759	21	31	75.19	-1127	-639	742	697	45.07	16.472	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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		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	
5261	4950	5602	4759	21	31	75.11	-1135	-631	743	697	45.33	16.383	
5302	4951	5643	4759	22	31	74.99	-1163	-603	743	696	46.44	15.996	
5325	4951	5666	4758	22	31	74.99	-1179	-586	743	696	47.04	15.789	
5400	4950	5741	4758	23	31	74.99	-1232	-533	743	694	49.24	15.086	
5423	4950	5764	4758	23	32	74.99	-1248	-516	743	693	49.94	14.874	
5500	4950	5841	4757	24	32	74.99	-1302	-462	743	690	52.42	14.172	
5523	4949	5864	4757	25	33	74.99	-1318	-445	743	690	53.18	13.969	
5600	4949	5941	4756	26	34	74.99	-1372	-390	743	687	55.68	13.344	
5623	4949	5964	4756	26	34	74.99	-1389	-374	743	687	56.38	13.177	
5700	4948	6041	4756	28	35	74.99	-1443	-319	743	684	59.28	12.535	
5723	4948	6064	4756	28	35	74.99	-1459	-303	743	683	60.14	12.355	
5800	4947	6141	4755	30	37	74.99	-1513	-248	743	680	63.05	11.785	
5823	4947	6164	4755	30	37	74.99	-1529	-232	743	679	63.95	11.619	
5900	4947	6241	4754	32	39	74.99	-1583	-177	743	676	66.95	11.099	
5923	4947	6264	4754	32	39	74.99	-1600	-160	743	675	67.88	10.948	
6000	4946	6341	4754	34	40	75.00	-1653	-106	743	672	70.97	10.472	
6023	4946	6364	4753	34	41	75.00	-1670	-89	743	671	71.92	10.334	
6100	4945	6441	4753	36	43	75.00	-1724	-35	743	668	75.08	9.900	
6123	4945	6464	4753	36	43	75.00	-1740	-18	743	667	76.05	9.774	
6200	4945	6541	4752	38	45	75.00	-1794	36	743	664	79.27	9.377	
6223	4944	6564	4752	38	45	75.00	-1810	53	743	663	80.25	9.262	
6300	4944	6641	4751	40	47	75.00	-1864	108	743	660	83.52	8.900	
6323	4944	6664	4751	40	47	75.00	-1881	124	743	659	84.52	8.795	
6400	4943	6741	4751	42	49	75.00	-1935	179	743	656	87.84	8.463	
6423	4943	6764	4751	43	49	75.00	-1951	195	743	655	88.85	8.367	
6500	4942	6841	4750	44	51	75.00	-2005	250	743	651	92.21	8.063	
6523	4942	6864	4750	45	52	75.00	-2021	266	743	650	93.23	7.975	
6600	4942	6941	4749	47	53	75.00	-2075	321	744	647	96.62	7.696	
6623	4942	6964	4749	47	54	75.00	-2091	338	744	646	97.65	7.614	
6700	4941	7041	4749	49	56	75.00	-2145	392	744	643	101.06	7.357	
6723	4941	7064	4748	49	56	75.00	-2162	409	744	641	102.10	7.283	
6800	4940	7141	4748	51	58	75.00	-2216	463	744	638	105.54	7.046	
6823	4940	7164	4748	52	58	75.00	-2232	480	744	637	106.59	6.977	
6900	4940	7241	4747	53	60	75.00	-2286	535	744	634	110.05	6.757	
6923	4939	7264	4747	54	61	75.00	-2302	551	744	633	111.11	6.693	
7000	4939	7341	4746	56	62	75.01	-2356	606	744	629	114.59	6.490	
7023	4939	7364	4746	56	63	75.01	-2372	622	744	628	115.65	6.431	
7100	4938	7441	4746	58	65	75.01	-2426	677	744	625	119.15	6.243	
7123	4938	7464	4746	59	65	75.01	-2443	693	744	624	120.21	6.187	
7200	4937	7541	4745	61	67	75.01	-2497	748	744	620	123.73	6.012	
7223	4937	7564	4745	61	68	75.01	-2513	764	744	619	124.79	5.961	
7300	4937	7641	4744	63	69	75.01	-2567	819	744	616	128.32	5.797	
7323	4937	7664	4744	63	70	75.01	-2583	836	744	615	129.39	5.749	
7400	4936	7741	4744	65	72	75.01	-2637	890	744	611	132.94	5.596	
7423	4936	7764	4743	66	72	75.01	-2654	907	744	610	134.01	5.552	
7500	4935	7841	4743	68	74	75.01	-2707	961	744	606	137.56	5.409	
7523	4935	7864	4743	68	75	75.01	-2724	978	744	605	138.64	5.367	
7600	4935	7941	4742	70	76	75.01	-2778	1033	744	602	142.20	5.233	
7623	4934	7964	4742	71	77	75.01	-2794	1049	744	601	143.28	5.193	
7700	4934	8041	4741	72	79	75.01	-2848	1104	744	597	146.85	5.067	
7723	4934	8064	4741	73	79	75.01	-2864	1120	744	596	147.94	5.030	
7800	4933	8141	4741	75	81	75.01	-2918	1175	744	593	151.52	4.912	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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		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	
7823	4933	8164	4741	75	82	75.01	-2935	1191	744	592	152.60	4.877	
7900	4932	8241	4740	77	84	75.01	-2989	1246	744	588	156.19	4.765	
7923	4932	8264	4740	78	84	75.01	-3005	1263	744	587	157.28	4.732	
8000	4932	8341	4739	80	86	75.02	-3059	1317	744	583	160.87	4.627	
8023	4932	8364	4739	80	87	75.02	-3075	1334	744	582	161.96	4.596	
8100	4931	8441	4739	82	88	75.02	-3129	1388	744	579	165.56	4.496	
8123	4931	8464	4738	83	89	75.02	-3145	1405	744	578	166.65	4.467	
8200	4930	8541	4738	84	91	75.02	-3199	1459	744	574	170.25	4.372	
8223	4930	8564	4738	85	91	75.02	-3216	1476	744	573	171.35	4.345	
8300	4930	8641	4737	87	93	75.02	-3270	1531	744	570	174.96	4.255	
8323	4929	8664	4737	87	94	75.02	-3286	1547	744	568	176.05	4.229	
8400	4929	8741	4736	89	96	75.02	-3340	1602	745	565	179.67	4.144	
8423	4929	8764	4736	90	96	75.02	-3356	1618	745	564	180.76	4.119	
8500	4928	8841	4736	92	98	75.02	-3410	1673	745	560	184.38	4.038	
8523	4928	8864	4736	92	99	75.02	-3427	1689	745	559	185.48	4.014	
8600	4927	8941	4735	94	100	75.02	-3480	1744	745	556	189.11	3.938	
8623	4927	8964	4735	95	101	75.02	-3497	1761	745	554	190.20	3.915	
8700	4927	9041	4734	97	103	75.02	-3551	1815	745	551	193.83	3.842	
8723	4927	9064	4734	97	103	75.02	-3567	1832	745	550	194.93	3.820	
8800	4926	9141	4734	99	105	75.02	-3621	1886	745	546	198.56	3.751	
8823	4926	9164	4733	100	106	75.02	-3637	1903	745	545	199.66	3.730	
8900	4925	9241	4733	102	108	75.02	-3691	1957	745	542	203.30	3.664	
8923	4925	9264	4733	102	108	75.02	-3708	1974	745	540	204.40	3.644	
9000	4925	9341	4732	104	110	75.03	-3762	2029	745	537	208.04	3.580	
9023	4924	9364	4732	105	111	75.03	-3778	2045	745	536	209.14	3.562	
9100	4924	9441	4731	106	113	75.03	-3832	2100	745	532	212.78	3.501	
9123	4924	9464	4731	107	113	75.03	-3848	2116	745	531	213.88	3.483	
9200	4923	9541	4731	109	115	75.03	-3902	2171	745	527	217.53	3.425	
9223	4923	9564	4731	109	116	75.03	-3918	2187	745	526	218.63	3.407	
9300	4923	9641	4730	111	117	75.03	-3972	2242	745	523	222.28	3.352	
9323	4922	9664	4730	112	118	75.03	-3989	2259	745	522	223.38	3.335	
9400	4922	9741	4729	114	120	75.03	-4043	2313	745	518	227.03	3.282	
9423	4922	9764	4729	114	120	75.03	-4059	2330	745	517	228.14	3.266	
9500	4921	9841	4729	116	122	75.03	-4113	2384	745	513	231.79	3.215	
9523	4921	9864	4728	117	123	75.03	-4129	2401	745	512	232.89	3.200	
9600	4920	9941	4728	119	125	75.03	-4183	2455	745	509	236.55	3.150	
9623	4920	9964	4728	119	125	75.03	-4199	2472	745	508	237.65	3.136	
9700	4920	10,041	4727	121	127	75.03	-4253	2527	745	504	241.31	3.088	
9723	4919	10,064	4727	122	128	75.03	-4270	2543	745	503	242.42	3.074	
9800	4919	10,141	4726	124	130	75.03	-4324	2598	745	499	246.07	3.029	
9823	4919	10,164	4726	124	130	75.03	-4340	2614	745	498	247.18	3.015	
9900	4918	10,241	4726	126	132	75.03	-4394	2669	745	495	250.84	2.971	
9923	4918	10,264	4726	127	133	75.03	-4410	2685	745	493	251.95	2.958	
10,000	4918	10,341	4725	129	135	75.04	-4464	2740	745	490	255.61	2.916	
10,023	4917	10,364	4725	129	135	75.04	-4481	2757	745	489	256.72	2.904	
10,100	4917	10,441	4724	131	137	75.04	-4534	2811	745	485	260.38	2.863	
10,123	4917	10,464	4724	132	138	75.04	-4551	2828	745	484	261.49	2.851	
10,200	4916	10,541	4724	133	139	75.04	-4605	2882	746	480	265.15	2.812	
10,223	4916	10,564	4723	134	140	75.04	-4621	2899	746	479	266.26	2.800	
10,300	4915	10,641	4723	136	142	75.04	-4675	2954	746	476	269.92	2.762	
10,323	4915	10,664	4723	136	143	75.04	-4691	2970	746	475	271.04	2.751	
10,400	4915	10,741	4722	138	144	75.04	-4745	3025	746	471	274.70	2.714	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,423	4915	10,764	4722	139	145	75.04	-4762	3041	746	470	275.81	2.703	
10,500	4914	10,841	4721	141	147	75.04	-4816	3096	746	466	279.48	2.668	
10,523	4914	10,864	4721	141	147	75.04	-4832	3112	746	465	280.59	2.658	
10,600	4913	10,941	4721	143	149	75.04	-4886	3167	746	461	284.26	2.624	
10,623	4913	10,964	4721	144	150	75.04	-4902	3184	746	460	285.37	2.613	
10,700	4913	11,041	4720	146	152	75.04	-4956	3238	746	457	289.04	2.580	
10,723	4912	11,064	4720	146	152	75.04	-4972	3255	746	456	290.15	2.570	
10,800	4912	11,141	4719	148	154	75.04	-5026	3309	746	452	293.82	2.539	
10,823	4912	11,164	4719	149	155	75.04	-5043	3326	746	451	294.93	2.529	
10,900	4911	11,241	4719	151	157	75.04	-5097	3380	746	447	298.61	2.498	
10,923	4911	11,264	4718	151	157	75.04	-5113	3397	746	446	299.72	2.489	
11,000	4910	11,341	4718	153	159	75.04	-5167	3452	746	443	303.39	2.459	
11,023	4910	11,364	4718	154	160	75.05	-5183	3468	746	441	304.50	2.450	
11,100	4910	11,441	4717	156	162	75.05	-5237	3523	746	438	308.18	2.421	
11,123	4910	11,464	4717	156	162	75.05	-5253	3539	746	437	309.29	2.412	
11,200	4909	11,541	4716	158	164	75.05	-5307	3594	746	433	312.96	2.384	
11,223	4909	11,564	4716	159	165	75.05	-5324	3610	746	432	314.08	2.376	
11,300	4908	11,641	4716	161	167	75.05	-5378	3665	746	428	317.75	2.348	
11,323	4908	11,664	4716	161	167	75.05	-5394	3682	746	427	318.87	2.340	
11,400	4908	11,741	4715	163	169	75.05	-5448	3736	746	424	322.54	2.313	
11,423	4907	11,764	4715	164	170	75.05	-5464	3753	746	423	323.66	2.306	
11,500	4907	11,841	4714	166	171	75.05	-5518	3807	746	419	327.33	2.280	
11,523	4907	11,864	4714	166	172	75.05	-5535	3824	746	418	328.45	2.272	
11,600	4906	11,941	4714	168	174	75.05	-5588	3878	746	414	332.13	2.247	
11,623	4906	11,964	4713	169	174	75.05	-5605	3895	746	413	333.24	2.240	
11,700	4905	12,041	4713	170	176	75.05	-5659	3950	746	409	336.92	2.215	
11,723	4905	12,064	4713	171	177	75.05	-5675	3966	746	408	338.03	2.208	
11,800	4905	12,141	4712	173	179	75.05	-5729	4021	746	405	341.71	2.184	
11,823	4905	12,164	4712	174	179	75.05	-5745	4037	746	404	342.83	2.177	
11,900	4904	12,241	4711	175	181	75.05	-5799	4092	746	400	346.51	2.154	
11,923	4904	12,264	4711	176	182	75.05	-5816	4108	746	399	347.62	2.147	
12,000	4903	12,341	4711	178	184	75.05	-5870	4163	747	395	351.30	2.125	
12,023	4903	12,364	4711	178	184	75.06	-5886	4180	747	394	352.42	2.118	
12,100	4903	12,441	4710	180	186	75.06	-5940	4234	747	390	356.10	2.097	
12,123	4902	12,464	4710	181	187	75.06	-5956	4251	747	389	357.21	2.090	
12,200	4902	12,541	4709	183	189	75.06	-6010	4305	747	386	360.90	2.069	
12,223	4902	12,564	4709	183	189	75.06	-6026	4322	747	385	362.01	2.063	
12,300	4901	12,641	4709	185	191	75.06	-6080	4376	747	381	365.69	2.042	
12,323	4901	12,664	4708	186	192	75.06	-6097	4393	747	380	366.81	2.036	
12,400	4900	12,741	4708	188	194	75.06	-6151	4448	747	376	370.49	2.016	
12,423	4900	12,764	4708	188	194	75.06	-6167	4464	747	375	371.61	2.010	
12,500	4900	12,841	4707	190	196	75.06	-6221	4519	747	372	375.29	1.990	
12,523	4900	12,864	4707	191	197	75.06	-6237	4535	747	370	376.41	1.984	
12,600	4899	12,941	4706	193	199	75.06	-6291	4590	747	367	380.09	1.965	
12,623	4899	12,964	4706	193	199	75.06	-6307	4606	747	366	381.21	1.959	
12,700	4898	13,041	4706	195	201	75.06	-6361	4661	747	362	384.89	1.941	
12,723	4898	13,064	4706	196	202	75.06	-6378	4678	747	361	386.01	1.935	
12,800	4898	13,141	4705	198	204	75.06	-6432	4732	747	357	389.69	1.917	
12,823	4897	13,164	4705	198	204	75.06	-6448	4749	747	356	390.81	1.911	
12,900	4897	13,241	4704	200	206	75.06	-6502	4803	747	353	394.49	1.894	
12,923	4897	13,264	4704	201	207	75.06	-6518	4820	747	351	395.61	1.888	
13,000	4896	13,341	4704	203	208	75.06	-6572	4874	747	348	399.30	1.871	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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		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		
13,023	4896	13,364	4703	203	209	75.07	-6589	4891	747	347	400.41	1.866		
13,100	4895	13,441	4703	205	211	75.07	-6642	4946	747	343	404.10	1.849		
13,123	4895	13,464	4703	206	212	75.07	-6659	4962	747	342	405.22	1.844		
13,200	4895	13,541	4702	208	213	75.07	-6713	5017	747	338	408.90	1.827		
13,223	4895	13,564	4702	208	214	75.07	-6729	5033	747	337	410.02	1.822		
13,300	4894	13,641	4701	210	216	75.07	-6783	5088	747	334	413.71	1.806		
13,323	4894	13,664	4701	211	216	75.07	-6799	5104	747	332	414.82	1.801		
13,400	4893	13,741	4701	213	218	75.07	-6853	5159	747	329	418.51	1.786		
13,423	4893	13,764	4701	213	219	75.07	-6870	5176	747	328	419.63	1.781		
13,500	4893	13,841	4700	215	221	75.07	-6924	5230	747	324	423.32	1.766		
13,523	4892	13,864	4700	216	221	75.07	-6940	5247	747	323	424.43	1.761		
13,600	4892	13,941	4699	218	223	75.07	-6994	5301	747	319	428.12	1.746		
13,623	4892	13,964	4699	218	224	75.07	-7010	5318	747	318	429.24	1.741		
13,700	4891	14,041	4699	220	226	75.07	-7064	5373	747	315	432.93	1.727		
13,706	4891	14,047	4699	220	226	75.07	-7068	5377	747	314	433.21	1.725		
13,725	4891	14,066	4698	221	226	75.07	-7082	5390	747	313	434.12	1.722 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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	0.42	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	501	501	2	2	119.15	39	1	40	37	3.31	12.025		
567	567	568	568	2	2	125.21	38	3	40	36	3.77	10.507 CC		
600	600	601	601	2	2	129.54	36	4	40	36	4.00	9.945 ES		
700	700	701	701	2	2	146.94	31	10	43	38	4.70	9.083		
795	794	794	793	3	3	164.86	24	17	52	46	5.39	9.610		
800	799	799	798	3	3	165.71	23	18	52	47	5.43	9.665		
900	898	897	895	3	3	178.79	15	27	68	62	6.16	11.045		
1000	997	995	992	4	3	-173.18	6	36	86	79	6.88	12.447		
1100	1096	1093	1090	4	4	-167.94	-2	44	104	97	7.62	13.711		
1200	1196	1191	1187	4	4	-164.30	-10	53	124	115	8.36	14.814		
1300	1295	1289	1284	5	5	-161.65	-19	62	143	134	9.10	15.767		
1400	1394	1386	1381	5	5	-159.65	-27	71	163	154	9.85	16.592		
1500	1493	1484	1478	6	5	-158.08	-35	80	183	173	10.60	17.310		
1600	1592	1582	1575	6	6	-156.82	-44	88	204	192	11.35	17.938		
1700	1691	1680	1672	7	6	-155.78	-52	97	224	212	12.11	18.490		
1800	1791	1778	1769	7	7	-154.92	-61	106	244	231	12.87	18.980		
1900	1890	1876	1866	7	7	-154.19	-69	115	265	251	13.63	19.417		
2000	1989	1974	1963	8	8	-153.57	-77	123	285	271	14.39	19.808		
2100	2088	2071	2061	8	8	-153.02	-86	132	305	290	15.15	20.160		
2200	2187	2169	2158	9	8	-152.55	-94	141	326	310	15.91	20.479		
2300	2286	2267	2255	9	9	-152.13	-103	150	346	330	16.68	20.769		
2400	2386	2365	2352	10	9	-151.76	-111	159	367	349	17.44	21.033		
2500	2485	2463	2449	10	10	-151.43	-119	167	387	369	18.21	21.276		
2600	2584	2561	2546	10	10	-151.13	-128	176	408	389	18.97	21.499		
2700	2683	2659	2643	11	10	-150.86	-136	185	428	409	19.74	21.704		
2800	2782	2756	2740	11	11	-150.62	-144	194	449	428	20.50	21.894		
2900	2881	2854	2837	12	11	-150.39	-153	203	469	448	21.27	22.070		
3000	2981	2952	2934	12	12	-150.19	-161	211	490	468	22.04	22.234		
3100	3080	3050	3031	13	12	-150.00	-170	220	511	488	22.80	22.387		
3200	3179	3148	3129	13	13	-149.82	-178	229	531	507	23.57	22.530		
3300	3278	3246	3226	13	13	-149.66	-186	238	552	527	24.34	22.664		
3400	3377	3344	3323	14	13	-149.51	-195	247	572	547	25.11	22.790		
3500	3476	3441	3420	14	14	-149.37	-203	255	593	567	25.88	22.908		
3600	3576	3539	3517	15	14	-149.24	-211	264	613	587	26.64	23.019		
3700	3675	3637	3614	15	15	-149.12	-220	273	634	606	27.41	23.124		
3800	3774	3735	3711	16	15	-149.01	-228	282	654	626	28.18	23.223		
3900	3873	3833	3808	16	15	-148.90	-237	291	675	646	28.95	23.317		
4000	3972	3931	3905	16	16	-148.80	-245	299	696	666	29.72	23.405		
4100	4071	4028	4002	17	16	-148.71	-253	308	716	686	30.49	23.490		
4200	4171	4126	4100	17	17	-148.62	-262	317	737	705	31.26	23.570		
4300	4270	4224	4197	18	17	-148.53	-270	326	757	725	32.03	23.646		
4400	4369	4316	4288	18	18	-148.46	-278	334	778	745	32.75	23.752		
4418	4387	4327	4299	18	18	-148.44	-279	335	782	749	32.84	23.807		
4450	4419	4350	4321	18	18	-121.35	-282	338	789	756	33.01	23.885		
4500	4468	4365	4336	19	18	-87.21	-284	340	797	764	33.09	24.095		
4550	4517	4400	4370	19	18	-69.98	-290	346	805	771	33.35	24.125		

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4600	4565	4400	4370	19	18	-61.06	-290	346	810	777	33.16	24.415
4650	4612	4435	4403	19	18	-56.16	-297	354	813	779	33.42	24.318
4700	4657	4450	4417	19	18	-53.07	-301	358	814	781	33.36	24.395
4747	4697	4480	4445	19	18	-51.42	-309	366	813	780	33.57	24.223
4750	4700	4481	4446	19	19	-51.32	-309	366	813	779	33.57	24.217
4799	4740	4500	4463	19	19	-50.23	-315	372	810	777	33.57	24.139
4800	4741	4500	4463	19	19	-50.21	-315	372	810	777	33.57	24.142
4850	4779	4528	4488	20	19	-49.80	-324	381	806	772	33.75	23.874
4900	4813	4550	4507	20	19	-49.78	-332	390	799	765	33.85	23.614
4950	4845	4574	4527	20	19	-50.17	-341	399	791	757	34.04	23.244
5000	4872	4600	4548	20	19	-50.97	-351	410	781	747	34.32	22.765
5050	4896	4620	4564	20	20	-51.96	-360	419	770	735	34.55	22.281
5100	4916	4650	4587	20	20	-53.55	-373	433	757	722	35.10	21.565
5100	4916	4650	4587	20	20	-53.55	-373	433	757	722	35.10	21.565
5149	4931	4666	4598	21	20	-54.99	-381	440	743	707	35.42	20.975
5150	4931	4666	4598	21	20	-55.02	-381	440	743	707	35.43	20.962
5199	4942	4688	4614	21	20	-56.98	-392	452	727	691	36.03	20.188
5200	4942	4700	4622	21	21	-57.45	-398	458	727	691	36.33	20.021
5248	4949	4700	4622	21	21	-58.74	-398	458	711	675	36.47	19.506
5250	4949	4712	4630	21	21	-59.30	-404	464	711	674	36.79	19.318
5300	4951	4734	4644	22	21	-61.89	-416	476	693	656	37.67	18.407
5302	4951	4735	4645	22	21	-61.99	-416	477	693	655	37.72	18.366
5394	4950	4779	4671	23	21	-64.12	-441	502	663	624	39.70	16.708
5400	4950	4782	4673	23	22	-64.26	-443	504	662	622	39.84	16.611
5492	4950	4832	4699	24	22	-66.43	-472	535	639	597	42.17	15.161
5500	4950	4837	4701	24	22	-66.63	-475	538	638	595	42.39	15.041
5589	4949	4891	4724	26	23	-68.66	-509	573	622	577	44.95	13.841
5600	4949	4900	4728	26	23	-68.97	-515	579	621	575	45.32	13.692
5686	4948	4950	4744	28	24	-70.43	-548	613	611	563	47.75	12.794
5700	4948	4965	4748	28	24	-70.81	-558	623	610	561	48.34	12.612
5783	4948	5025	4760	29	25	-71.93	-599	665	605	554	50.96	11.867
5800	4947	5037	4762	30	25	-72.10	-608	674	604	553	51.49	11.731
5875	4947	5094	4766	31	26	-72.52	-647	714	603	549	53.83	11.198
5900	4947	5113	4766	32	27	-72.55	-660	728	603	548	54.58	11.044
5923	4947	5136	4766	32	27	-72.55	-676	744	603	548	55.43	10.879
6000	4946	5213	4765	34	29	-72.57	-730	800	604	545	58.34	10.346
6023	4946	5236	4765	34	29	-72.57	-746	816	604	545	59.22	10.195
6100	4945	5313	4765	36	31	-72.59	-799	872	604	542	62.24	9.710
6123	4945	5336	4764	36	31	-72.60	-815	888	604	541	63.14	9.573
6200	4945	5413	4764	38	33	-72.61	-869	943	605	539	66.25	9.132
6223	4944	5436	4764	38	33	-72.62	-885	960	605	538	67.18	9.009
6300	4944	5513	4763	40	35	-72.64	-939	1015	606	535	70.36	8.609
6323	4944	5536	4763	40	35	-72.64	-955	1031	606	535	71.31	8.497
6400	4943	5613	4762	42	37	-72.66	-1008	1087	606	532	74.56	8.134
6423	4943	5636	4762	43	37	-72.66	-1024	1103	607	531	75.52	8.033
6500	4942	5713	4762	44	39	-72.68	-1078	1159	607	528	78.82	7.703
6523	4942	5736	4762	45	39	-72.68	-1094	1175	607	528	79.80	7.611
6600	4942	5813	4761	47	41	-72.70	-1148	1230	608	525	83.15	7.311
6623	4942	5836	4761	47	42	-72.71	-1164	1246	608	524	84.14	7.228
6700	4941	5913	4760	49	43	-72.72	-1218	1302	609	521	87.52	6.954
6723	4941	5936	4760	49	44	-72.73	-1233	1318	609	520	88.52	6.878
6800	4940	6013	4760	51	46	-72.75	-1287	1374	609	517	91.94	6.628

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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		Semi Major Axis			Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
6823	4940	6036	4759	52	46	-72.75	-1303	1390	610	517	92.94	6.558			
6900	4940	6113	4759	53	48	-72.77	-1357	1445	610	514	96.39	6.330			
6923	4939	6136	4759	54	48	-72.77	-1373	1462	610	513	97.41	6.265			
7000	4939	6213	4758	56	50	-72.79	-1427	1517	611	510	100.88	6.055			
7023	4939	6236	4758	56	51	-72.79	-1442	1533	611	509	101.90	5.996			
7100	4938	6313	4757	58	53	-72.81	-1496	1589	612	506	105.39	5.803			
7123	4938	6336	4757	59	53	-72.82	-1512	1605	612	505	106.42	5.749			
7200	4937	6413	4757	61	55	-72.83	-1566	1661	612	502	109.93	5.570			
7223	4937	6436	4757	61	55	-72.84	-1582	1677	612	502	110.96	5.520			
7300	4937	6513	4756	63	57	-72.85	-1636	1732	613	499	114.49	5.355			
7323	4937	6536	4756	63	58	-72.86	-1651	1749	613	498	115.53	5.308			
7400	4936	6613	4755	65	60	-72.88	-1705	1804	614	495	119.07	5.155			
7423	4936	6636	4755	66	60	-72.88	-1721	1820	614	494	120.11	5.111			
7500	4935	6713	4755	68	62	-72.90	-1775	1876	615	491	123.67	4.969			
7523	4935	6736	4754	68	63	-72.90	-1791	1892	615	490	124.71	4.929			
7600	4935	6813	4754	70	64	-72.92	-1845	1947	615	487	128.28	4.796			
7623	4934	6836	4754	71	65	-72.92	-1860	1964	615	486	129.33	4.758			
7700	4934	6913	4753	72	67	-72.94	-1914	2019	616	483	132.91	4.634			
7723	4934	6936	4753	73	67	-72.94	-1930	2035	616	482	133.96	4.599			
7800	4933	7013	4753	75	69	-72.96	-1984	2091	617	479	137.55	4.483			
7823	4933	7036	4752	75	70	-72.97	-2000	2107	617	478	138.60	4.451			
7900	4932	7113	4752	77	72	-72.98	-2054	2163	617	475	142.20	4.342			
7923	4932	7136	4752	78	72	-72.99	-2069	2179	618	474	143.26	4.311			
8000	4932	7213	4751	80	74	-73.00	-2123	2234	618	471	146.87	4.209			
8023	4932	7236	4751	80	75	-73.01	-2139	2251	618	470	147.92	4.180			
8100	4931	7313	4750	82	76	-73.03	-2193	2306	619	467	151.54	4.084			
8123	4931	7336	4750	83	77	-73.03	-2209	2322	619	466	152.60	4.057			
8200	4930	7413	4750	84	79	-73.05	-2263	2378	620	463	156.22	3.966			
8223	4930	7436	4750	85	79	-73.05	-2278	2394	620	463	157.28	3.941			
8300	4930	7513	4749	87	81	-73.07	-2332	2450	620	459	160.91	3.855			
8323	4929	7536	4749	87	82	-73.07	-2348	2466	621	459	161.97	3.831			
8400	4929	7613	4748	89	84	-73.09	-2402	2521	621	455	165.61	3.750			
8423	4929	7636	4748	90	84	-73.09	-2418	2537	621	455	166.67	3.727			
8500	4928	7713	4748	92	86	-73.11	-2472	2593	622	452	170.31	3.651			
8523	4928	7736	4747	92	87	-73.11	-2487	2609	622	451	171.38	3.629			
8600	4927	7813	4747	94	89	-73.13	-2541	2665	623	448	175.02	3.557			
8623	4927	7836	4747	95	89	-73.14	-2557	2681	623	447	176.09	3.536			
8700	4927	7913	4746	97	91	-73.15	-2611	2736	623	444	179.74	3.468			
8723	4927	7936	4746	97	92	-73.16	-2627	2753	623	443	180.81	3.448			
8800	4926	8013	4745	99	93	-73.17	-2681	2808	624	440	184.46	3.383			
8823	4926	8036	4745	100	94	-73.18	-2697	2824	624	439	185.53	3.364			
8900	4925	8113	4745	102	96	-73.19	-2750	2880	625	436	189.19	3.302			
8923	4925	8136	4745	102	96	-73.20	-2766	2896	625	435	190.26	3.285			
9000	4925	8213	4744	104	98	-73.21	-2820	2952	625	432	193.92	3.225			
9023	4924	8236	4744	105	99	-73.22	-2836	2968	626	431	194.99	3.209			
9100	4924	8313	4743	106	101	-73.23	-2890	3023	626	428	198.66	3.152			
9123	4924	8336	4743	107	101	-73.24	-2906	3040	626	427	199.73	3.136			
9200	4923	8413	4743	109	103	-73.26	-2959	3095	627	424	203.40	3.082			
9223	4923	8436	4742	109	104	-73.26	-2975	3111	627	423	204.47	3.067			
9300	4923	8513	4742	111	106	-73.28	-3029	3167	628	420	208.15	3.015			
9323	4922	8536	4742	112	106	-73.28	-3045	3183	628	419	209.22	3.001			
9400	4922	8613	4741	114	108	-73.30	-3099	3238	628	416	212.90	2.952			

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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	
9423	4922	8636	4741	114	109	-73.30	-3115	3255	629	415	213.97	2.938	
9500	4921	8713	4741	116	111	-73.32	-3168	3310	629	411	217.65	2.891	
9523	4921	8736	4740	117	111	-73.32	-3184	3326	629	411	218.73	2.877	
9600	4920	8813	4740	119	113	-73.34	-3238	3382	630	407	222.41	2.832	
9623	4920	8836	4740	119	114	-73.34	-3254	3398	630	407	223.49	2.819	
9700	4920	8913	4739	121	116	-73.36	-3308	3454	631	403	227.17	2.776	
9723	4920	8936	4739	122	116	-73.36	-3324	3470	631	403	228.25	2.764	
9800	4919	9013	4738	124	118	-73.38	-3378	3525	631	399	231.93	2.722	
9823	4919	9036	4738	124	119	-73.38	-3393	3542	631	398	233.01	2.710	
9900	4918	9113	4738	126	120	-73.40	-3447	3597	632	395	236.70	2.670	
9923	4918	9136	4738	127	121	-73.40	-3463	3613	632	394	237.78	2.659	
10,000	4918	9213	4737	129	123	-73.42	-3517	3669	633	391	241.47	2.621	
10,023	4917	9235	4737	129	123	-73.42	-3533	3685	633	390	242.55	2.610	
10,100	4917	9313	4736	131	125	-73.44	-3587	3741	634	387	246.24	2.573	
10,123	4917	9335	4736	132	126	-73.44	-3602	3757	634	386	247.32	2.562	
10,200	4916	9413	4736	133	128	-73.46	-3656	3812	634	383	251.02	2.527	
10,223	4916	9435	4735	134	128	-73.46	-3672	3828	634	382	252.10	2.517	
10,300	4915	9513	4735	136	130	-73.48	-3726	3884	635	379	255.80	2.482	
10,323	4915	9535	4735	136	131	-73.48	-3742	3900	635	378	256.88	2.473	
10,400	4915	9613	4734	138	133	-73.50	-3796	3956	636	375	260.58	2.440	
10,423	4915	9635	4734	139	133	-73.50	-3811	3972	636	374	261.66	2.430	
10,500	4914	9713	4733	141	135	-73.52	-3865	4027	636	371	265.36	2.398	
10,523	4914	9735	4733	141	136	-73.52	-3881	4044	637	370	266.44	2.389	
10,600	4913	9813	4733	143	138	-73.54	-3935	4099	637	367	270.14	2.359	
10,623	4913	9835	4733	144	138	-73.54	-3951	4115	637	366	271.23	2.350	
10,700	4913	9913	4732	146	140	-73.56	-4005	4171	638	363	274.93	2.320	
10,723	4912	9935	4732	146	141	-73.56	-4020	4187	638	362	276.01	2.312	
10,800	4912	10,013	4731	148	143	-73.58	-4074	4243	639	359	279.72	2.283	
10,823	4912	10,035	4731	149	143	-73.58	-4090	4259	639	358	280.80	2.275	
10,900	4911	10,113	4731	151	145	-73.60	-4144	4314	639	355	284.51	2.247	
10,923	4911	10,135	4730	151	146	-73.60	-4160	4330	640	354	285.59	2.239	
11,000	4910	10,213	4730	153	148	-73.62	-4214	4386	640	351	289.31	2.213	
11,023	4910	10,235	4730	154	148	-73.62	-4229	4402	640	350	290.39	2.205	
11,100	4910	10,313	4729	156	150	-73.64	-4283	4458	641	347	294.10	2.179	
11,123	4910	10,335	4729	156	151	-73.64	-4299	4474	641	346	295.18	2.172	
11,200	4909	10,413	4728	158	153	-73.66	-4353	4529	642	343	298.90	2.147	
11,223	4909	10,435	4728	159	153	-73.66	-4369	4546	642	342	299.98	2.139	
11,300	4908	10,513	4728	161	155	-73.68	-4423	4601	642	339	303.70	2.115	
11,323	4908	10,535	4728	161	156	-73.68	-4438	4617	642	338	304.78	2.108	
11,400	4908	10,613	4727	163	158	-73.70	-4492	4673	643	335	308.50	2.084	
11,423	4907	10,635	4727	164	158	-73.70	-4508	4689	643	334	309.58	2.078	
11,500	4907	10,713	4726	166	160	-73.72	-4562	4745	644	330	313.30	2.055	
11,523	4907	10,735	4726	166	161	-73.72	-4578	4761	644	330	314.39	2.048	
11,600	4906	10,813	4726	168	162	-73.74	-4632	4816	645	326	318.10	2.026	
11,623	4906	10,835	4726	169	163	-73.74	-4647	4833	645	326	319.19	2.020	
11,700	4905	10,913	4725	170	165	-73.76	-4701	4888	645	322	322.91	1.998	
11,723	4905	10,935	4725	171	166	-73.76	-4717	4904	645	321	324.00	1.992	
11,800	4905	11,013	4724	173	167	-73.78	-4771	4960	646	318	327.72	1.971	
11,823	4905	11,035	4724	173	168	-73.78	-4787	4976	646	317	328.80	1.965	
11,900	4904	11,113	4724	175	170	-73.80	-4841	5031	647	314	332.53	1.945	
11,923	4904	11,135	4723	176	170	-73.80	-4856	5048	647	313	333.61	1.939	
12,000	4903	11,213	4723	178	172	-73.81	-4910	5103	647	310	337.34	1.919	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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						Rule Assigned:						Offset Well Error:	0 ft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	(ft)				
12,023	4903	11,235	4723	178	173	-73.82	-4926	5119	648	309	338.42	1.914			
12,100	4903	11,313	4722	180	175	-73.83	-4980	5175	648	306	342.15	1.894			
12,123	4902	11,335	4722	181	175	-73.84	-4996	5191	648	305	343.23	1.889			
12,200	4902	11,413	4721	183	177	-73.85	-5050	5247	649	302	346.96	1.870			
12,223	4902	11,435	4721	183	178	-73.86	-5066	5263	649	301	348.05	1.865			
12,300	4901	11,513	4721	185	180	-73.87	-5119	5318	650	298	351.78	1.847			
12,323	4901	11,535	4721	186	180	-73.88	-5135	5335	650	297	352.86	1.842			
12,400	4900	11,613	4720	188	182	-73.89	-5189	5390	650	294	356.59	1.824			
12,423	4900	11,635	4720	188	183	-73.90	-5205	5406	651	293	357.68	1.819			
12,500	4900	11,713	4719	190	185	-73.91	-5259	5462	651	290	361.41	1.802			
12,523	4900	11,735	4719	191	185	-73.92	-5275	5478	651	289	362.50	1.797			
12,600	4899	11,813	4719	193	187	-73.93	-5329	5534	652	286	366.23	1.780			
12,623	4899	11,835	4718	193	188	-73.93	-5344	5550	652	285	367.32	1.775			
12,700	4898	11,913	4718	195	190	-73.95	-5398	5605	653	282	371.05	1.759			
12,723	4898	11,935	4718	196	190	-73.95	-5414	5621	653	281	372.14	1.754			
12,800	4898	12,013	4717	198	192	-73.97	-5468	5677	653	277	375.87	1.738			
12,823	4897	12,035	4717	198	193	-73.97	-5484	5693	654	277	376.96	1.734			
12,900	4897	12,113	4716	200	195	-73.99	-5538	5749	654	273	380.69	1.718			
12,923	4897	12,135	4716	201	195	-73.99	-5553	5765	654	272	381.78	1.714			
13,000	4896	12,213	4716	203	197	-74.01	-5607	5820	655	269	385.52	1.699			
13,023	4896	12,235	4716	203	198	-74.01	-5623	5837	655	268	386.60	1.694			
13,100	4895	12,313	4715	205	200	-74.03	-5677	5892	656	265	390.34	1.679 SF			
13,200	4895	12,324	4715	208	200	-74.03	-5684	5900	662	274	388.30	1.706			
13,300	4894	12,324	4715	210	200	-74.03	-5684	5900	684	306	377.76	1.810			
13,400	4893	12,324	4715	213	200	-74.03	-5684	5900	719	357	361.08	1.990			
13,500	4893	12,324	4715	215	200	-74.03	-5684	5900	765	424	340.81	2.244			
13,600	4892	12,324	4715	218	200	-74.03	-5684	5900	821	502	319.15	2.572			
13,700	4891	12,324	4715	220	200	-74.03	-5684	5900	885	587	297.69	2.972			
13,725	4891	12,324	4715	221	200	-74.03	-5684	5900	902	609	292.52	3.082			

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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 - 144H - 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	0.00	20	0	20					
100	100	100	100	0	0	0.00	20	0	20	20	0.46	44.083		
200	200	200	200	1	1	0.00	20	0	20	19	1.18	17.285		
300	300	300	300	1	1	0.00	20	0	20	18	1.90	10.750		
400	400	400	400	1	1	0.00	20	0	20	18	2.61	7.801		
425	425	425	425	1	1	0.00	20	0	20	18	2.79	7.300 CC		
500	500	500	500	2	2	116.28	20	-1	20	17	3.31	6.182		
600	600	600	600	2	2	115.73	19	-5	21	17	4.00	5.228 ES		
700	700	701	700	2	2	114.80	16	-12	22	17	4.71	4.605		
795	794	796	795	3	3	113.63	12	-23	23	17	5.42	4.201		
800	799	801	800	3	3	113.56	12	-23	23	17	5.46	4.183		
900	898	901	899	3	3	107.84	7	-37	24	17	6.26	3.787		
1000	997	1001	997	4	4	95.10	1	-54	25	18	7.11	3.464		
1100	1096	1101	1095	4	4	82.43	-6	-71	27	19	7.96	3.367		
1200	1196	1201	1193	4	4	72.08	-12	-89	30	21	8.77	3.425		
1300	1295	1300	1291	5	5	63.96	-19	-106	34	25	9.56	3.565		
1400	1394	1400	1389	5	5	57.65	-25	-124	39	28	10.33	3.742		
1500	1493	1500	1488	6	6	52.72	-31	-141	44	33	11.10	3.930		
1600	1592	1600	1586	6	6	48.82	-38	-159	49	37	11.85	4.118		
1700	1691	1700	1684	7	7	45.68	-44	-176	54	42	12.61	4.298		
1800	1791	1800	1782	7	7	43.11	-51	-194	60	46	13.36	4.468		
1900	1890	1899	1880	7	8	40.98	-57	-211	65	51	14.12	4.627		
2000	1989	1999	1978	8	8	39.19	-64	-229	71	56	14.87	4.774		
2100	2088	2099	2076	8	9	37.66	-70	-246	77	61	15.63	4.911		
2200	2187	2199	2174	9	9	36.35	-76	-264	83	66	16.39	5.037		
2300	2286	2299	2272	9	10	35.21	-83	-281	88	71	17.15	5.155		
2400	2386	2398	2370	10	10	34.21	-89	-298	94	76	17.91	5.264		
2500	2485	2498	2468	10	11	33.33	-96	-316	100	81	18.67	5.365		
2600	2584	2598	2566	10	11	32.55	-102	-333	106	87	19.43	5.459		
2700	2683	2698	2664	11	12	31.85	-108	-351	112	92	20.19	5.547		
2800	2782	2798	2762	11	12	31.22	-115	-368	118	97	20.95	5.628		
2900	2881	2897	2860	12	13	30.65	-121	-386	124	102	21.71	5.705		
3000	2981	2997	2958	12	13	30.14	-128	-403	130	107	22.47	5.777		
3100	3080	3097	3057	13	14	29.66	-134	-421	136	113	23.24	5.844		
3200	3179	3197	3155	13	14	29.23	-140	-438	142	118	24.00	5.908		
3300	3278	3297	3253	13	15	28.84	-147	-456	148	123	24.77	5.967		
3400	3377	3397	3351	14	15	28.47	-153	-473	154	128	25.53	6.024		
3500	3476	3496	3449	14	16	28.13	-160	-491	160	133	26.29	6.077		
3600	3576	3596	3547	15	16	27.82	-166	-508	166	139	27.06	6.127		
3700	3675	3696	3645	15	17	27.53	-172	-526	172	144	27.82	6.175		
3800	3774	3796	3743	16	17	27.26	-179	-543	178	149	28.59	6.220		
3900	3873	3896	3841	16	18	27.00	-185	-561	184	154	29.35	6.263		
4000	3972	3995	3939	16	18	26.76	-192	-578	190	160	30.12	6.304		
4100	4071	4108	4050	17	19	26.05	-201	-596	195	164	30.93	6.295		
4200	4171	4237	4175	17	19	19.87	-228	-600	187	156	31.06	6.013		
4300	4270	4350	4280	18	20	6.97	-268	-585	169	138	31.04	5.444		
4400	4369	4443	4358	18	20	-10.89	-311	-560	155	123	32.18	4.824		
4418	4387	4457	4369	18	20	-14.26	-318	-556	155	122	32.46	4.762		
4423	4392	4461	4372	18	20	-11.36	-320	-554	155	122	32.54	4.751		
4450	4419	4482	4389	18	20	6.39	-332	-547	156	123	32.88	4.730		
4500	4468	4520	4416	19	20	30.85	-353	-532	162	129	33.11	4.894		
4550	4517	4556	4441	19	20	39.19	-374	-517	174	141	32.73	5.302		

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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 - 144H - 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	
4600	4565	4592	4464	19	20	40.11	-396	-501	189	157	31.86	5.921	
4650	4612	4626	4484	19	20	38.38	-418	-483	206	175	30.69	6.713	
4700	4657	4660	4502	19	20	35.82	-440	-466	225	195	29.37	7.650	
4750	4700	4693	4519	19	20	33.15	-463	-447	244	216	28.02	8.704	
4800	4741	4726	4533	19	20	30.65	-485	-428	263	236	26.70	9.851	
4850	4779	4758	4545	20	20	28.41	-507	-409	282	256	25.47	11.061	
4900	4813	4790	4555	20	20	26.44	-530	-389	300	275	24.36	12.297	
4950	4845	4821	4564	20	20	24.73	-552	-368	317	293	23.43	13.513	
5000	4872	4850	4570	20	20	23.32	-573	-349	332	310	22.62	14.695	
5050	4896	4883	4576	20	21	21.98	-597	-327	347	325	22.17	15.651	
5100	4916	4914	4579	20	21	20.89	-618	-305	360	338	21.89	16.450	
5150	4931	4950	4581	21	21	19.85	-644	-280	372	350	21.89	16.988	
5200	4942	4982	4581	21	21	19.07	-667	-257	382	360	22.09	17.287	
5210	4944	4992	4581	21	21	18.91	-674	-250	383	361	22.15	17.308	
5250	4949	5031	4580	21	22	18.43	-702	-222	388	366	22.48	17.267	
5262	4950	5043	4580	21	22	18.35	-710	-214	389	366	22.58	17.230	
5302	4951	5083	4580	22	22	18.23	-738	-185	390	367	23.01	16.971	
5325	4951	5106	4580	22	23	18.24	-754	-169	390	367	23.30	16.758	
5400	4950	5181	4579	23	24	18.27	-807	-116	391	366	24.29	16.077	
5423	4950	5205	4579	23	24	18.28	-824	-99	391	366	24.62	15.865	
5500	4950	5281	4579	24	25	18.32	-878	-45	391	365	25.72	15.190	
5523	4949	5305	4579	25	26	18.33	-894	-28	391	365	26.07	14.987	
5600	4949	5381	4578	26	27	18.36	-948	26	391	364	27.25	14.343	
5623	4949	5405	4578	26	27	18.38	-965	43	391	363	27.62	14.151	
5700	4948	5481	4577	28	29	18.41	-1019	97	391	362	28.86	13.545	
5723	4948	5505	4577	28	29	18.42	-1035	114	391	362	29.25	13.366	
5800	4947	5581	4577	30	31	18.46	-1089	168	391	360	30.54	12.801	
5823	4947	5605	4576	30	31	18.47	-1106	185	391	360	30.95	12.634	
5900	4947	5681	4576	32	33	18.50	-1160	239	391	359	32.29	12.110	
5923	4947	5705	4576	32	33	18.52	-1176	256	391	358	32.71	11.957	
6000	4946	5781	4575	34	35	18.55	-1230	310	391	357	34.10	11.472	
6023	4946	5805	4575	34	35	18.56	-1247	327	391	357	34.53	11.331	
6100	4945	5881	4574	36	37	18.60	-1301	381	391	355	35.95	10.884	
6123	4945	5905	4574	36	37	18.61	-1317	397	391	355	36.39	10.754	
6200	4945	5981	4574	38	39	18.64	-1371	452	391	354	37.85	10.342	
6223	4944	6005	4574	38	40	18.65	-1388	468	391	353	38.29	10.222	
6300	4944	6081	4573	40	41	18.69	-1442	523	392	352	39.78	9.843	
6323	4944	6105	4573	40	42	18.70	-1458	539	392	351	40.23	9.733	
6400	4943	6181	4572	42	43	18.74	-1512	594	392	350	41.74	9.383	
6423	4943	6205	4572	43	44	18.75	-1528	610	392	349	42.20	9.281	
6500	4942	6281	4572	44	46	18.78	-1582	665	392	348	43.73	8.959	
6523	4942	6305	4571	45	46	18.79	-1599	681	392	348	44.20	8.864	
6600	4942	6381	4571	47	48	18.83	-1653	736	392	346	45.74	8.566	
6623	4942	6405	4571	47	49	18.84	-1669	752	392	346	46.22	8.479	
6700	4941	6481	4570	49	50	18.87	-1723	807	392	344	47.78	8.203	
6723	4941	6505	4570	49	51	18.89	-1740	823	392	344	48.26	8.122	
6800	4940	6581	4569	51	53	18.92	-1794	878	392	342	49.84	7.866	
6823	4940	6605	4569	52	53	18.93	-1810	894	392	342	50.32	7.791	
6900	4940	6681	4569	53	55	18.97	-1864	949	392	340	51.92	7.553	
6923	4939	6705	4569	54	56	18.98	-1881	965	392	340	52.41	7.484	
7000	4939	6781	4568	56	57	19.01	-1935	1020	392	338	54.02	7.262	
7023	4939	6805	4568	56	58	19.02	-1951	1036	392	338	54.51	7.197	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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 - 144H - 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	
7100	4938	6881	4567	58	60	19.06	-2005	1090	392	336	56.13	6.991		
7123	4938	6905	4567	59	60	19.07	-2022	1107	392	336	56.62	6.930		
7200	4937	6981	4567	61	62	19.11	-2076	1161	392	334	58.26	6.738		
7223	4937	7005	4566	61	63	19.12	-2092	1178	393	334	58.75	6.681		
7300	4937	7081	4566	63	64	19.15	-2146	1232	393	332	60.40	6.501		
7323	4937	7105	4566	63	65	19.16	-2163	1249	393	332	60.90	6.447		
7400	4936	7181	4565	65	67	19.20	-2217	1303	393	330	62.55	6.278		
7423	4936	7205	4565	66	67	19.21	-2233	1320	393	330	63.05	6.229		
7500	4935	7281	4564	68	69	19.24	-2287	1374	393	328	64.72	6.070		
7523	4935	7305	4564	68	70	19.25	-2304	1391	393	328	65.22	6.023		
7600	4935	7381	4564	70	72	19.29	-2358	1445	393	326	66.89	5.874		
7623	4934	7405	4564	71	72	19.30	-2374	1462	393	326	67.40	5.830		
7700	4934	7481	4563	72	74	19.34	-2428	1516	393	324	69.08	5.690		
7723	4934	7505	4563	73	75	19.35	-2444	1533	393	323	69.59	5.648		
7800	4933	7581	4562	75	76	19.38	-2499	1587	393	322	71.28	5.516		
7823	4933	7605	4562	75	77	19.39	-2515	1604	393	321	71.79	5.477		
7900	4932	7681	4562	77	79	19.43	-2569	1658	393	320	73.49	5.351		
7923	4932	7705	4561	78	79	19.44	-2585	1675	393	319	74.01	5.314		
8000	4932	7781	4561	80	81	19.47	-2639	1729	393	318	75.71	5.196		
8023	4932	7805	4561	80	82	19.48	-2656	1746	393	317	76.23	5.161		
8100	4931	7881	4560	82	84	19.52	-2710	1800	393	316	77.94	5.049		
8123	4931	7905	4560	83	84	19.53	-2726	1817	394	315	78.46	5.016		
8200	4930	7981	4559	84	86	19.56	-2780	1871	394	313	80.17	4.909		
8223	4930	8005	4559	85	87	19.58	-2797	1887	394	313	80.69	4.878		
8300	4930	8081	4559	87	89	19.61	-2851	1942	394	311	82.42	4.777		
8323	4929	8105	4559	87	89	19.62	-2867	1958	394	311	82.94	4.747		
8400	4929	8181	4558	89	91	19.66	-2921	2013	394	309	84.67	4.651		
8423	4929	8205	4558	90	92	19.67	-2938	2029	394	309	85.20	4.623		
8500	4928	8281	4557	92	93	19.70	-2992	2084	394	307	86.93	4.532		
8523	4928	8305	4557	92	94	19.71	-3008	2100	394	307	87.46	4.505		
8600	4927	8381	4557	94	96	19.75	-3062	2155	394	305	89.20	4.418		
8623	4927	8405	4556	95	96	19.76	-3079	2171	394	304	89.73	4.392		
8700	4927	8481	4556	97	98	19.79	-3133	2226	394	303	91.48	4.309		
8723	4927	8505	4556	97	99	19.80	-3149	2242	394	302	92.01	4.284		
8800	4926	8581	4555	99	101	19.84	-3203	2297	394	301	93.76	4.205		
8823	4926	8605	4555	100	101	19.85	-3220	2313	394	300	94.30	4.182		
8900	4925	8681	4554	102	103	19.88	-3274	2368	394	298	96.05	4.106		
8923	4925	8705	4554	102	104	19.90	-3290	2384	394	298	96.59	4.084		
9000	4925	8781	4554	104	106	19.93	-3344	2439	395	296	98.35	4.011		
9023	4924	8805	4554	105	106	19.94	-3360	2455	395	296	98.89	3.990		
9100	4924	8881	4553	106	108	19.98	-3415	2510	395	294	100.66	3.920		
9123	4924	8905	4553	107	109	19.99	-3431	2526	395	293	101.20	3.900		
9200	4923	8981	4552	109	110	20.02	-3485	2580	395	292	102.97	3.833		
9223	4923	9005	4552	109	111	20.03	-3501	2597	395	291	103.51	3.814		
9300	4923	9081	4552	111	113	20.07	-3555	2651	395	290	105.29	3.750		
9323	4922	9105	4551	112	114	20.08	-3572	2668	395	289	105.83	3.731		
9400	4922	9181	4551	114	115	20.11	-3626	2722	395	287	107.62	3.670		
9423	4922	9205	4551	114	116	20.12	-3642	2739	395	287	108.16	3.652		
9500	4921	9281	4550	116	118	20.16	-3696	2793	395	285	109.95	3.593		
9523	4921	9305	4550	117	118	20.17	-3713	2810	395	285	110.49	3.576		
9600	4920	9381	4550	119	120	20.20	-3767	2864	395	283	112.29	3.519		
9623	4920	9405	4549	119	121	20.21	-3783	2881	395	282	112.83	3.503		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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 - 144H - 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 (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9700	4920	9481	4549	121	123	20.25	-3837	2935	395	281	114.63	3.448	
9723	4919	9505	4549	122	123	20.26	-3854	2952	395	280	115.18	3.432	
9800	4919	9581	4548	124	125	20.29	-3908	3006	395	278	116.99	3.380	
9823	4919	9605	4548	124	126	20.30	-3924	3023	395	278	117.53	3.365	
9900	4918	9681	4547	126	128	20.34	-3978	3077	396	276	119.34	3.314	
9923	4918	9705	4547	127	128	20.35	-3995	3094	396	276	119.89	3.299	
10,000	4918	9781	4547	129	130	20.38	-4049	3148	396	274	121.71	3.251	
10,023	4917	9805	4546	129	131	20.40	-4065	3165	396	273	122.26	3.236	
10,100	4917	9881	4546	131	133	20.43	-4119	3219	396	272	124.08	3.190	
10,123	4917	9905	4546	132	133	20.44	-4136	3236	396	271	124.63	3.176	
10,200	4916	9981	4545	133	135	20.48	-4190	3290	396	269	126.46	3.131	
10,223	4916	10,005	4545	134	136	20.49	-4206	3307	396	269	127.01	3.117	
10,300	4915	10,081	4545	136	138	20.52	-4260	3361	396	267	128.84	3.074	
10,323	4915	10,105	4544	136	138	20.53	-4277	3377	396	267	129.39	3.061	
10,400	4915	10,181	4544	138	140	20.57	-4331	3432	396	265	131.23	3.019	
10,423	4915	10,205	4544	139	141	20.58	-4347	3448	396	264	131.78	3.006	
10,500	4914	10,281	4543	141	142	20.61	-4401	3503	396	263	133.62	2.965	
10,523	4914	10,305	4543	141	143	20.62	-4417	3519	396	262	134.18	2.953	
10,600	4913	10,381	4542	143	145	20.66	-4472	3574	396	260	136.02	2.914	
10,623	4913	10,405	4542	144	145	20.67	-4488	3590	396	260	136.58	2.902	
10,700	4913	10,481	4542	146	147	20.70	-4542	3645	396	258	138.43	2.864	
10,723	4912	10,505	4541	146	148	20.71	-4558	3661	397	258	138.99	2.853	
10,800	4912	10,581	4541	148	150	20.75	-4612	3716	397	256	140.84	2.816	
10,823	4912	10,605	4541	149	150	20.76	-4629	3732	397	255	141.40	2.805	
10,900	4911	10,681	4540	151	152	20.79	-4683	3787	397	253	143.26	2.769	
10,923	4911	10,705	4540	151	153	20.80	-4699	3803	397	253	143.82	2.759	
11,000	4910	10,781	4540	153	155	20.84	-4753	3858	397	251	145.68	2.724	
11,023	4910	10,805	4539	154	155	20.85	-4770	3874	397	251	146.25	2.714	
11,100	4910	10,881	4539	156	157	20.88	-4824	3929	397	249	148.11	2.680	
11,123	4910	10,905	4539	156	158	20.89	-4840	3945	397	248	148.68	2.670	
11,200	4909	10,981	4538	158	160	20.93	-4894	4000	397	247	150.54	2.638	
11,223	4909	11,005	4538	159	160	20.94	-4911	4016	397	246	151.11	2.628	
11,300	4908	11,081	4537	161	162	20.97	-4965	4070	397	244	152.99	2.596	
11,323	4908	11,105	4537	161	163	20.98	-4981	4087	397	244	153.55	2.587	
11,400	4908	11,181	4537	163	165	21.02	-5035	4141	397	242	155.43	2.556	
11,423	4907	11,205	4537	164	165	21.03	-5052	4158	397	241	156.00	2.547	
11,500	4907	11,281	4536	166	167	21.06	-5106	4212	397	240	157.88	2.517	
11,523	4907	11,305	4536	166	168	21.07	-5122	4229	397	239	158.46	2.508	
11,600	4906	11,381	4535	168	170	21.11	-5176	4283	398	237	160.34	2.479	
11,623	4906	11,405	4535	169	170	21.12	-5193	4300	398	237	160.91	2.471	
11,700	4905	11,481	4535	170	172	21.15	-5247	4354	398	235	162.80	2.443	
11,723	4905	11,505	4534	171	173	21.16	-5263	4371	398	234	163.38	2.434	
11,800	4905	11,581	4534	173	175	21.20	-5317	4425	398	233	165.27	2.407	
11,823	4905	11,605	4534	174	175	21.21	-5333	4442	398	232	165.85	2.399	
11,900	4904	11,681	4533	175	177	21.24	-5388	4496	398	230	167.75	2.372	
11,923	4904	11,705	4533	176	178	21.25	-5404	4513	398	230	168.32	2.364	
12,000	4903	11,781	4532	178	179	21.29	-5458	4567	398	228	170.23	2.338	
12,023	4903	11,805	4532	178	180	21.30	-5474	4584	398	227	170.80	2.331	
12,100	4903	11,881	4532	180	182	21.33	-5528	4638	398	225	172.71	2.305	
12,123	4902	11,905	4532	181	183	21.34	-5545	4655	398	225	173.29	2.298	
12,200	4902	11,981	4531	183	184	21.38	-5599	4709	398	223	175.20	2.273	
12,223	4902	12,005	4531	183	185	21.39	-5615	4726	398	223	175.78	2.266	

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 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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 - 144H - 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
12,300	4901	12,081	4530	185	187	21.42	-5669	4780	398	221	177.70	2.242	
12,323	4901	12,105	4530	186	187	21.43	-5686	4797	398	220	178.28	2.235	
12,400	4900	12,181	4530	188	189	21.47	-5740	4851	399	218	180.20	2.212	
12,423	4900	12,205	4529	188	190	21.48	-5756	4867	399	218	180.78	2.205	
12,500	4900	12,281	4529	190	192	21.51	-5810	4922	399	216	182.70	2.182	
12,523	4900	12,305	4529	191	192	21.52	-5827	4938	399	215	183.29	2.175	
12,600	4899	12,381	4528	193	194	21.55	-5881	4993	399	214	185.22	2.153	
12,623	4899	12,405	4528	193	195	21.56	-5897	5009	399	213	185.80	2.146	
12,700	4898	12,481	4527	195	197	21.60	-5951	5064	399	211	187.73	2.125	
12,723	4898	12,505	4527	196	197	21.61	-5968	5080	399	211	188.32	2.118	
12,800	4898	12,581	4527	198	199	21.64	-6022	5135	399	209	190.26	2.097	
12,823	4897	12,605	4527	198	200	21.65	-6038	5151	399	208	190.84	2.091	
12,900	4897	12,681	4526	200	202	21.69	-6092	5206	399	206	192.78	2.070	
12,923	4897	12,705	4526	201	202	21.70	-6109	5222	399	206	193.37	2.064	
13,000	4896	12,781	4525	203	204	21.73	-6163	5277	399	204	195.32	2.044	
13,023	4896	12,805	4525	203	205	21.74	-6179	5293	399	203	195.91	2.038	
13,100	4895	12,881	4525	205	207	21.78	-6233	5348	399	202	197.86	2.019	
13,123	4895	12,905	4524	206	207	21.79	-6250	5364	399	201	198.45	2.013	
13,200	4895	12,981	4524	208	209	21.82	-6304	5419	400	199	200.40	1.994	
13,223	4895	13,005	4524	208	210	21.83	-6320	5435	400	199	200.99	1.988	
13,300	4894	13,081	4523	210	212	21.87	-6374	5490	400	197	202.95	1.969	
13,323	4894	13,105	4523	211	212	21.88	-6390	5506	400	196	203.55	1.964	
13,400	4893	13,181	4522	213	214	21.91	-6444	5560	400	194	205.51	1.945	
13,423	4893	13,205	4522	213	215	21.92	-6461	5577	400	194	206.10	1.940	
13,500	4893	13,281	4522	215	217	21.95	-6515	5631	400	192	208.07	1.922	
13,523	4892	13,305	4522	216	217	21.97	-6531	5648	400	191	208.66	1.917	
13,600	4892	13,381	4521	218	219	22.00	-6585	5702	400	189	210.63	1.899	
13,623	4892	13,405	4521	218	220	22.01	-6602	5719	400	189	211.23	1.894	
13,700	4891	13,481	4520	220	222	22.04	-6656	5773	400	187	213.20	1.877	
13,706	4891	13,487	4520	220	222	22.05	-6660	5777	400	187	213.35	1.876	
13,725	4891	13,506	4520	221	222	22.05	-6673	5791	400	186	213.84	1.871 SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	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' 7 RKB 14' @ 6844ft

Coordinates are relative to: 129H - Slot 1

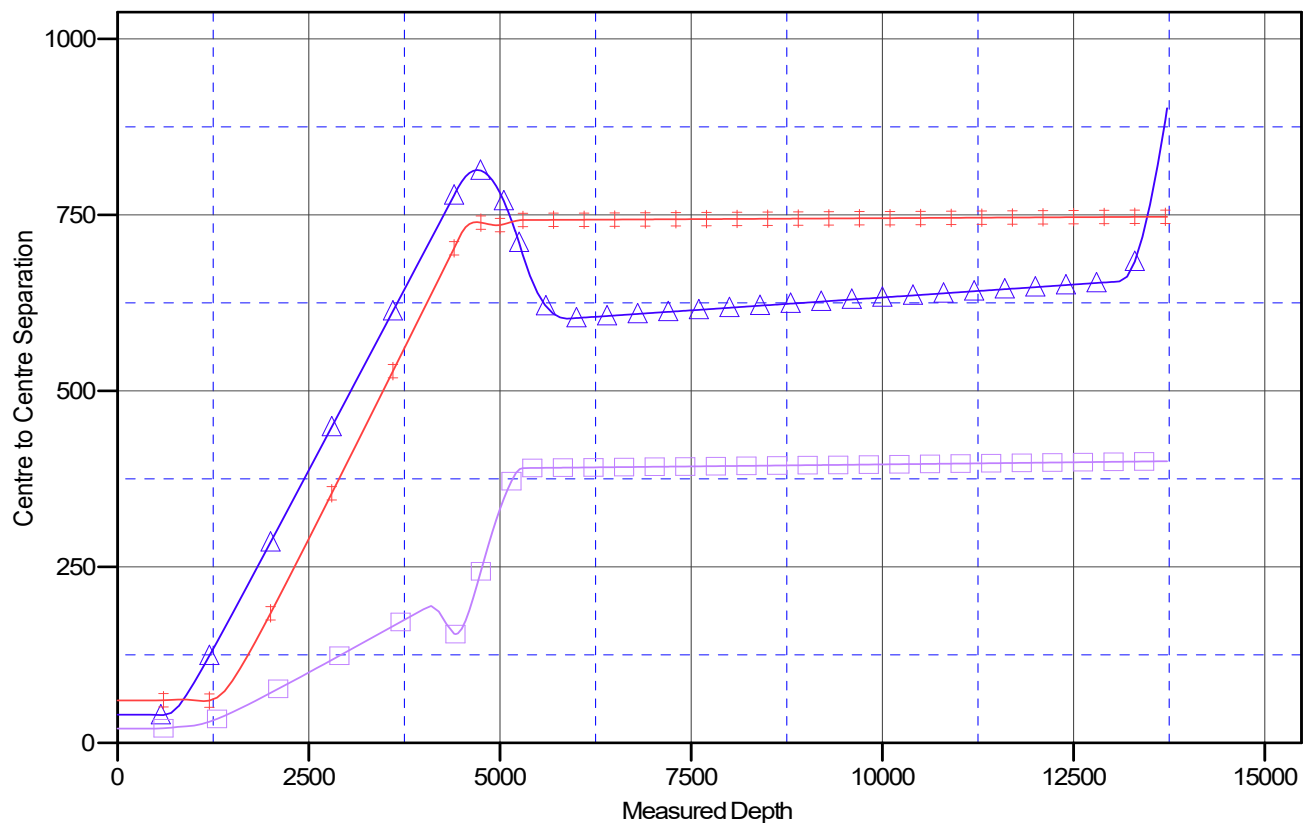
Offset Depths are relative to Offset Datum

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

Central Meridian is -107.83333333

Grid Convergence at Surface is: 0.00°

Ladder Plot



LEGEND

▲ 130H Original Drilling, APDVO
 ■ 124H Original Drilling, APDVO
 ■ 144H Original Drilling, APDVO



Lonestar Consulting, LLC
Anticollision Report

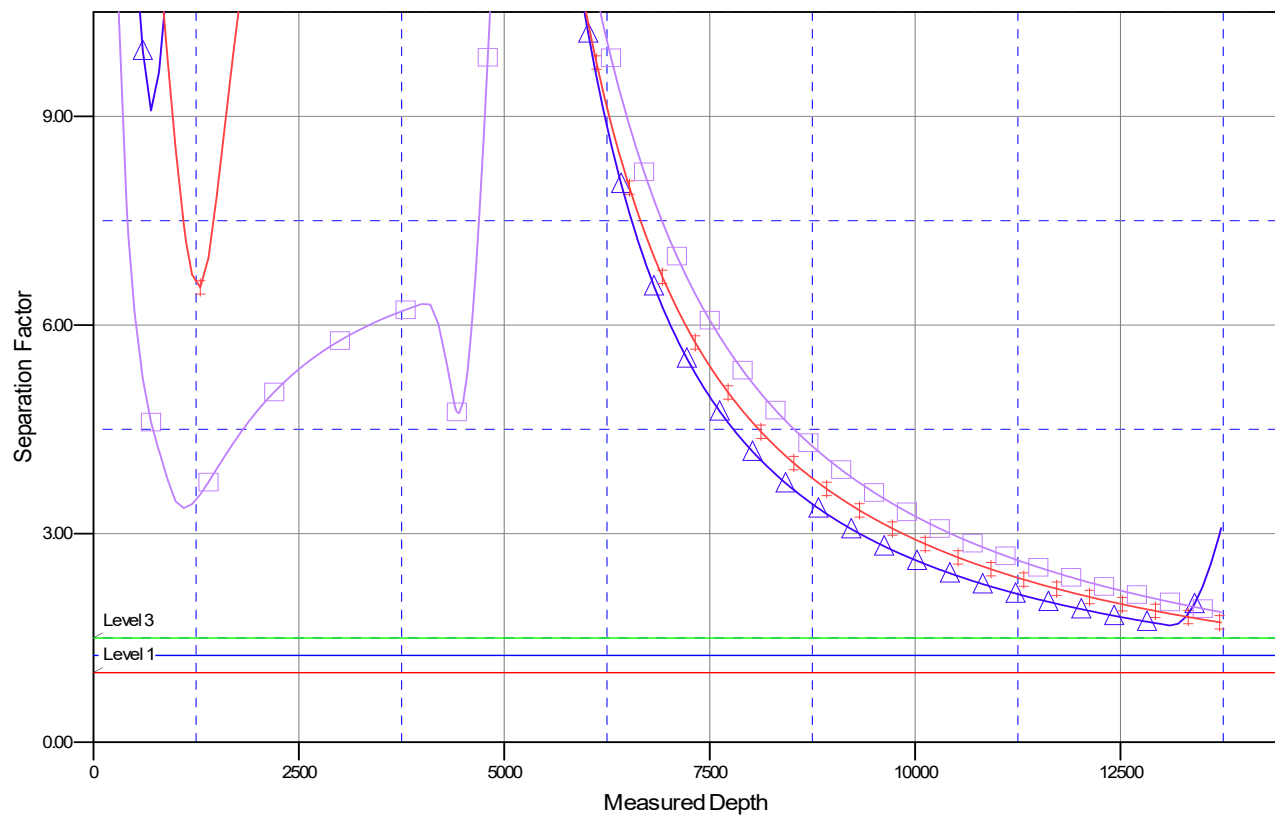


Company:	DJR Operating	Local Co-ordinate Reference:	Well 129H - Slot 1
Project:	Ponderosa Unit	TVD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' 7 RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	129H	Survey Calculation Method:	Minimum Curvature
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' 7 RKB 14' @ 6844ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333333

Coordinates are relative to: 129H - Slot 1
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

130HOriginalDrilling, APDV0 124HOriginalDrilling, APDV0 144HOriginalDrilling, 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
#129H 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 380901

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	380901
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 operator is in compliance with Rule 5.9.	9/16/2024