

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. 30-045-38373
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



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 / 2276 FNL / 1702 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.271474 / LONG: -107.833393 (TVD: 0 feet, MD: 0 feet)
PPP: NESW / 2322 FSL / 2427 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.269558 / LONG: -107.830932 (TVD: 4764 feet, MD: 5058 feet)
PPP: LOT 1 / 1 FNL / 489 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.263185 / LONG: -107.822834 (TVD: 4766 feet, MD: 12324 feet)
PPP: NWSE / 2103 FSL / 2644 FEL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.268949 / LONG: -107.830159 (TVD: 4766 feet, MD: 12324 feet)
PPP: LOT 4 / 476 FNL / 1 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.261883 / LONG: -107.821179 (TVD: 4766 feet, MD: 12324 feet)
BHL: NESW / 2573 FSL / 2309 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.2557468 / LONG: -107.8133827 (TVD: 4766 feet, MD: 12324 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.

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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 30-045-38373		Pool Code 5890	Pool Name BISTI LOWER-GALLOP (O)
Property Code 336268 334695	Property Name PONDEROSA F31 2409 FEDERAL COM		Well Number 130H
OGRID No. 371838	Operator Name DJR OPERATING, LLC		Ground Level Elevation 6830
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal			Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
F	31	24N	9W		2276' NORTH	1702' WEST	36.271474°N NAD83	107.833393°W NAD83	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	5	23N	9W		2573' SOUTH	2309' WEST	36.255747°N NAD83	107.813383°W NAD83	SAN JUAN

Dedicated Acres: SEC 31: NE/SW, SE/4 (200.00 AC.) SEC 6: LOT 1, (40.64 AC.) SEC 5: LOT 4, S2/NW, NE/SW (160.77 AC.) = 401.41 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:		Well setbacks are under Common Ownwerships: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	31	24N	9W		2322' SOUTH	2427' WEST	36.269558°N NAD83	107.830932°W NAD83	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	31	24N	9W		2322' SOUTH	2427' WEST	36.269558°N NAD83	107.830932°W NAD83	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft fron E/W	Latitude	Longitude	County
K	5	23N	9W		2573' SOUTH	2309' WEST	36.255747°N NAD83	107.813383°W NAD83	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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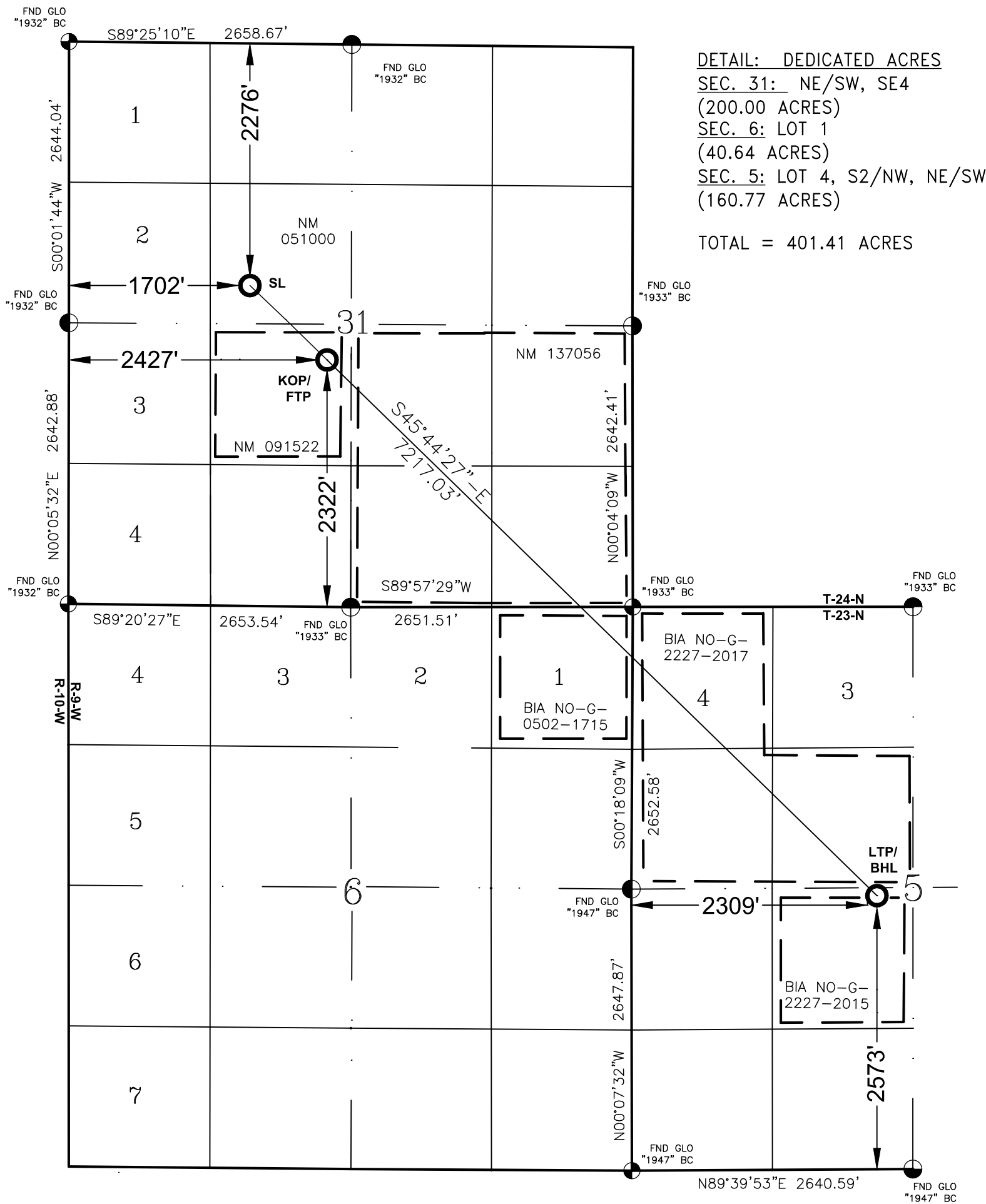
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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: <table><tr><td>Certificate Number</td><td>Date of Survey</td></tr><tr><td>15703</td><td>AUGUST 30, 2024</td></tr></table>	Certificate Number	Date of Survey	15703	AUGUST 30, 2024
Certificate Number	Date of Survey				
15703	AUGUST 30, 2024				

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 #130H

P F31 2409 FC



DETAIL: DEDICATED ACRES
SEC. 31: NE/SW, SE4
(200.00 ACRES)
SEC. 6: LOT 1
(40.64 ACRES)
SEC. 5: LOT 4, S2/NW, NE/SW
(160.77 ACRES)

TOTAL = 401.41 ACRES

SURFACE (SHL)
2276' FNL, 1702' FWL
SEC. 31, T24N, R9W
LAT: 36.271474° N
LONG: 107.833393° W NAD83

FIRST TAKE POINT (KOP)
2322' FSL, 2427' FWL
SEC. 31, T24N, R9W
LAT: 36.269558° N
LONG: 107.830932° W NAD83

BOTTOM HOLE LOCATION (BHL)
2573' FSL, 2309' FWL
SEC. 5, T23N, R9W
LAT: 36.255747° N
LONG: 107.813383° W NAD83

KICK OFF POINT (KOP)
2322' FSL, 2427' FWL
SEC. 31, T24N, R9W
LAT: 36.269558° N
LONG: 107.830932° W NAD83

LAST TAKE POINT (LTP)
2573' FSL, 2309' FWL
SEC. 5, T23N, R9W
LAT: 36.255747° N
LONG: 107.813383° W NAD83

**DJR OPERATING, LLC
PONDEROSA F31 2409 FEDERAL COM #130H
P F31 2409 FC**

SURFACE LOCATION NM 051000
2276' 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: 36.271474° N LONG: 107.833393° W NAD83

PPP1(FIRST TAKE POINT) NM 091522
2322' FSL, 2427' 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: 36.269558° N LONG: 107.830932° W NAD83

PPP2 NM 137056
2103' FSL, 2644' FEL
LOCATED IN THE NW/SE OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.268949° N LONG: 107.830159° W NAD83

PPP3 BIA NO-G-0502-1715
1' FNL, 489' FEL
LOCATED IN LOT 1 OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263185° N LONG: 107.822834° W NAD83

PPP4 BIA NO-G-2227-2017
476' 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: 36.261883° N LONG: 107.821179° W NAD83

PPP5 BIA NO-G-2227-2015
2646' FSL, 2234' 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: 36.255946° N LONG: 107.813636° W NAD83

PPP6 (LAST TAKE POINT) BOTTOM HOLE LOCATION BIA NO-G-2227-2015
2573' FSL, 2309' 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: 36.255747° N LONG: 107.813383° W NAD83

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 5890	³ Pool Name BISTI LOWER-GALLUP (O)
⁴ Property Code 334695	⁵ Property Name PONDEROSA F31 2409 FEDERAL COM	⁶ Well Number 130H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6830

¹⁰ Surface Location

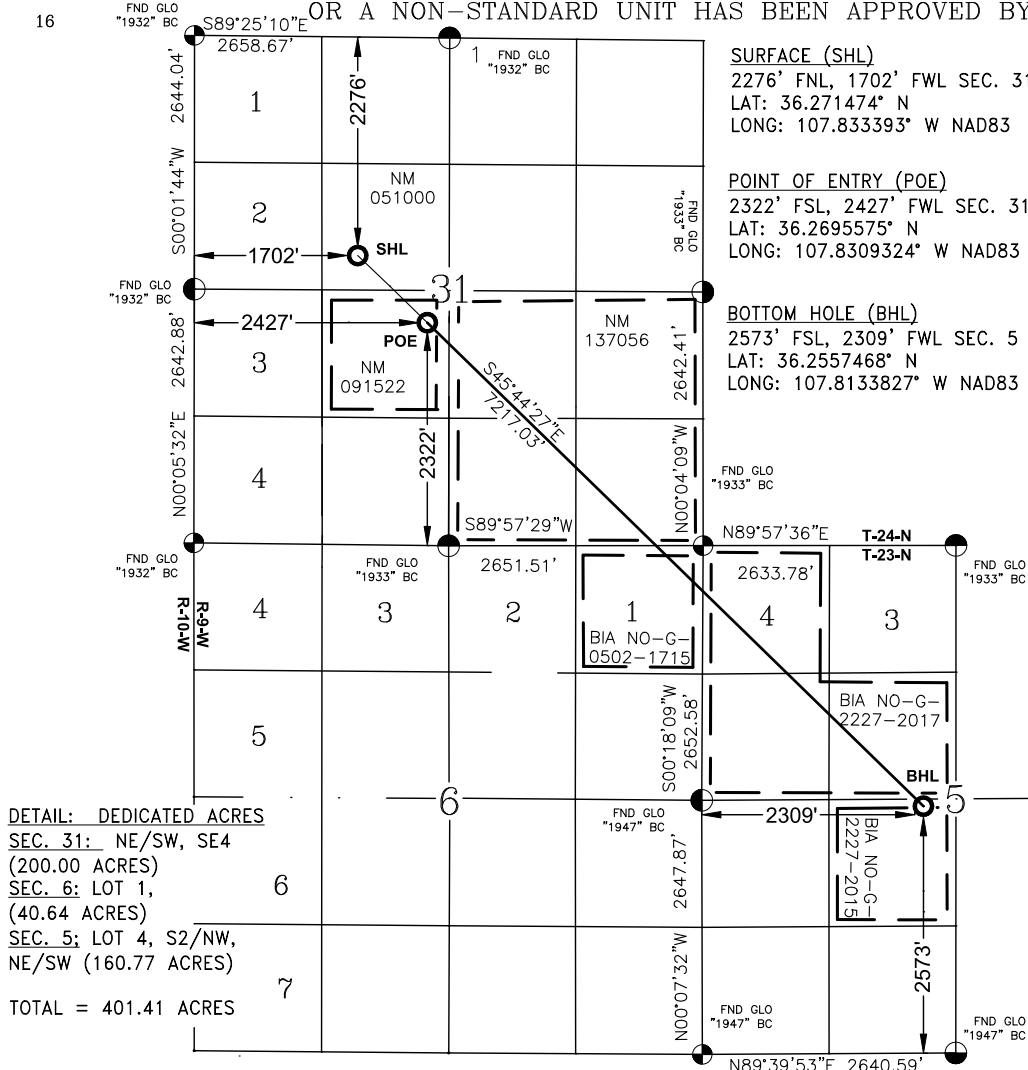
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	31	24-N	9-W		2276	NORTH	1702	WEST	SAN JUAN

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		2573	SOUTH	2309	WEST	SAN JUAN

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



¹⁷ OPERATOR CERTIFICATION

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

Shaw-Marie Ford 12/04/23

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

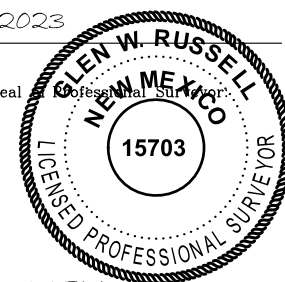
¹⁸ SURVEYOR CERTIFICATION

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

JULY 24, 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
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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 #130H

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

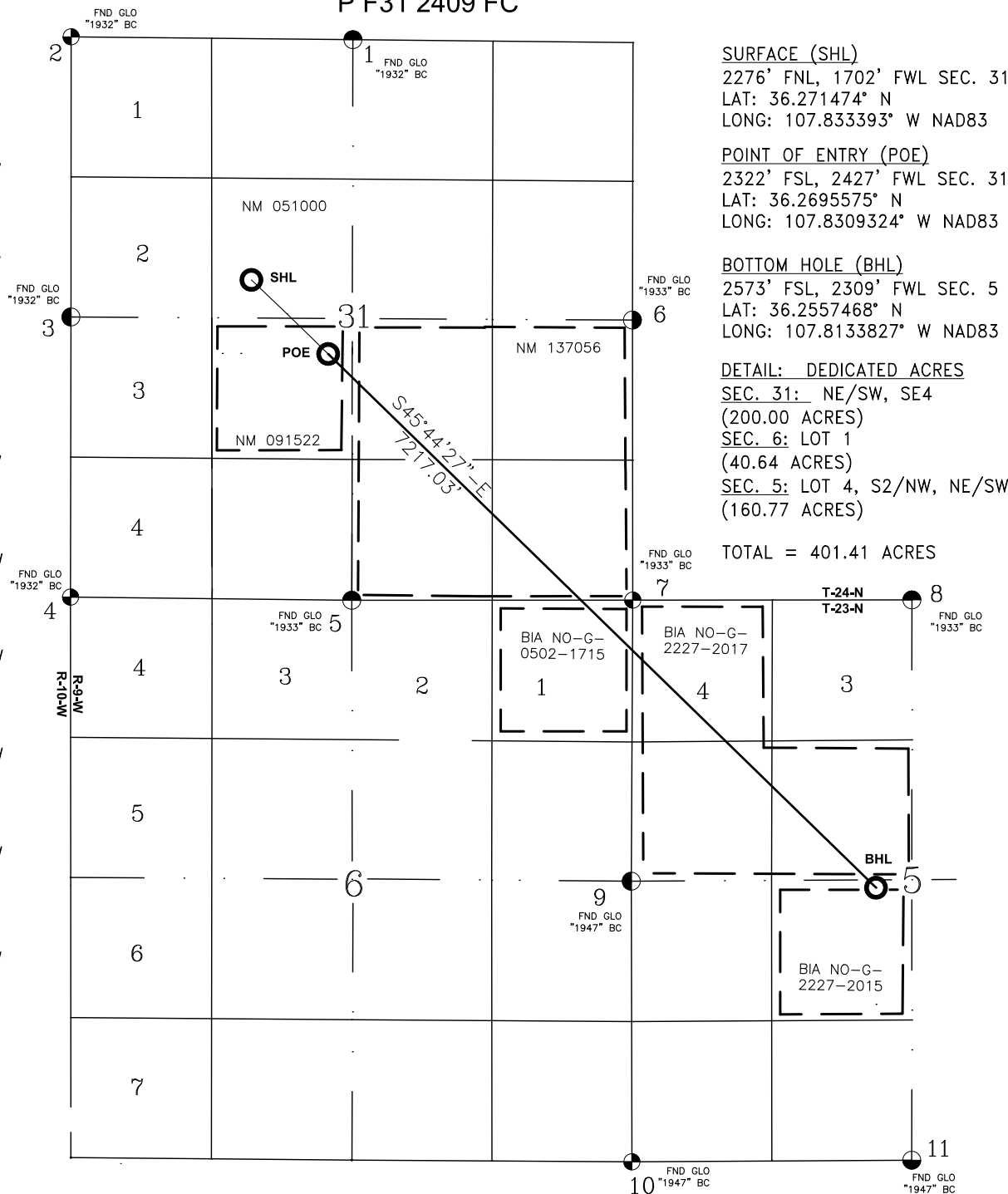
LAT: 36.255907° N
LONG: 107.821211° W
NAD83

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



SURFACE (SHL)

2276' FNL, 1702' FWL SEC. 31
LAT: 36.271474° N
LONG: 107.833393° W NAD83

POINT OF ENTRY (POE)

2322' FSL, 2427' FWL SEC. 31
LAT: 36.2695575° N
LONG: 107.8309324° W NAD83

BOTTOM HOLE (BHL)

2573' FSL, 2309' FWL SEC. 5
LAT: 36.2557468° N
LONG: 107.8133827° W NAD83

DETAIL: DEDICATED ACRES

SEC. 31: NE/SW, SE4
(200.00 ACRES)
SEC. 6: LOT 1
(40.64 ACRES)
SEC. 5: LOT 4, S2/NW, NE/SW
(160.77 ACRES)

TOTAL = 401.41 ACRES

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



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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.



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BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 0



DRILLING PLAN

Ponderosa F31 2409 Federal COM #130H

San Juan County, New Mexico

Surface Location

1702-ft FWL & 2276-ft FNL
 Sec 31 T24 R9
 Graded Elevation 6830' MSL
 RKB Elevation 6844' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2714740° N
 Longitude 107.8333930° W

Kick Off Point for Horizontal Build Curve

4316-ft MD
 4288-ft TVD

Local Coordinates (from SHL)

318-ft South
 334-ft East

Heel Location (Pay zone entry)

2427-ft FWL & 2322-ft FSL
 Sec 31 T24 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.2695575° N
 Longitude 107.83093236° W

Bottom Hole Location (TD)

2309-ft FWL & 2573-ft FSL
 Sec 5 T23 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.25574677° N
 Longitude 107.8133827° W

Well objectives

This well is planned as a 7210-ft lateral in the Gallup B sand.

Bottom Hole temperature and pressure

The temperature in the Gallup B horizontal objective is 134°F. Bottom hole pressure in the Gallup B 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	591	591	Sd	W	8.3	8.4 – 8.8
Kirtland	681	681	Sh	-	8.3	8.4 – 8.8
Fruitland	869	867	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1290	1285	Sd	W	8.3	9.0 - 9.5
Lewis	1422	1416	Sh	-		9.0 - 9.5
Chacra	2029	2018	Sd	-	8.3	9.0 - 9.5
Menefee	2737	2721	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3737	3713	Sd	-	8.3	9.0 - 9.5
Mancos	3890	3865	Sh	-		9.0 - 9.5
Mancos Silt	4260	4232	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4820	4693	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4940	4741	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5109	4766	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	5058	surf	4764	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4820	12324	4693	4715	4820

Note: all casing will be new

Rev 0

**Casing Design Load Cases**

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

Note #

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

Casing Design Factors

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

Cement Design9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	American	American
Type	I/II	Poz/G
Planned top	Surface	3890-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	122
Volume (bbls)	179	33
Volume (cu.ft.)	1003	185
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4820-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	649
Volume (cu.ft)	176
Excess %	986
	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 – 5058	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5058 – 12324	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

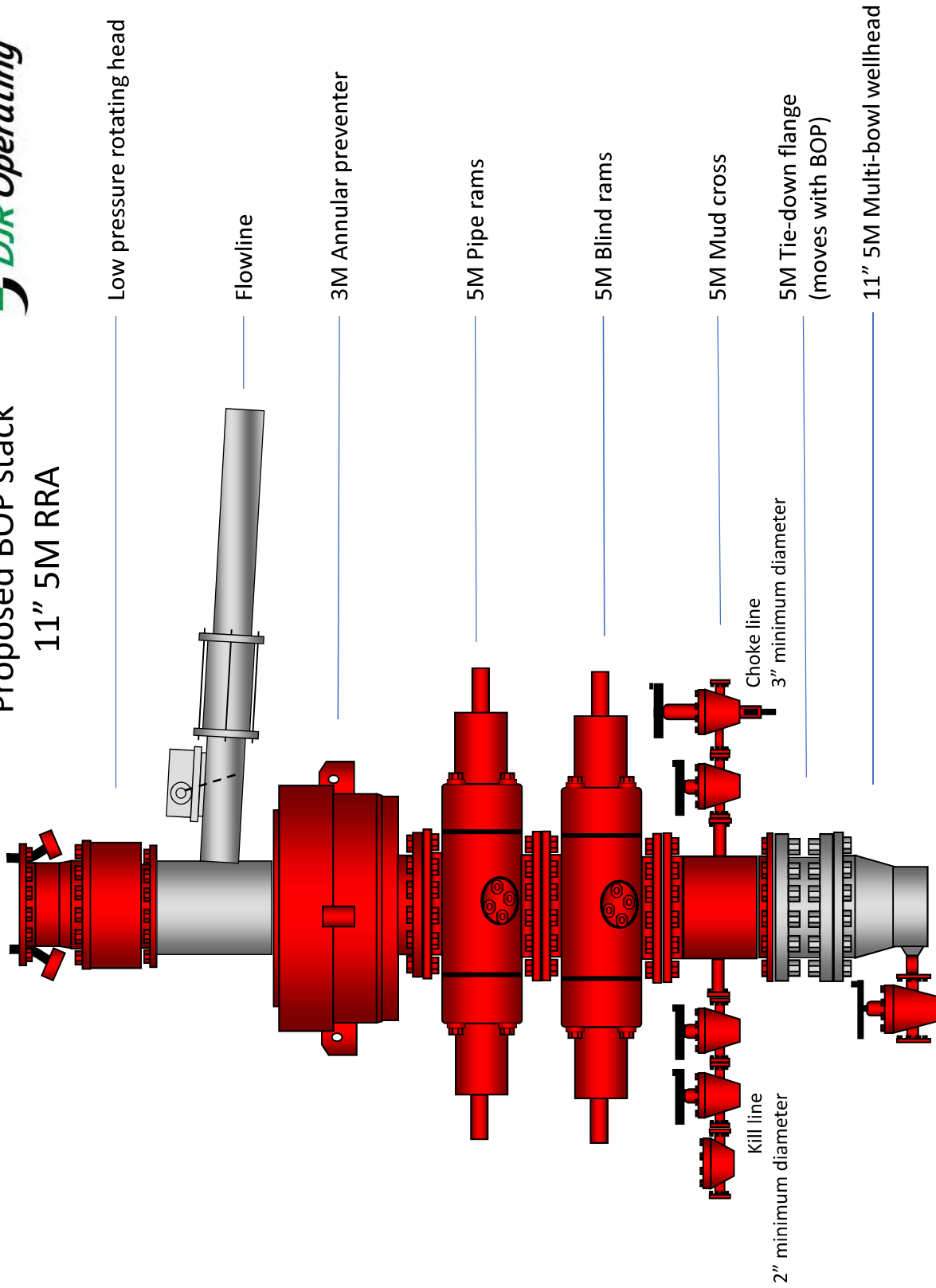
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



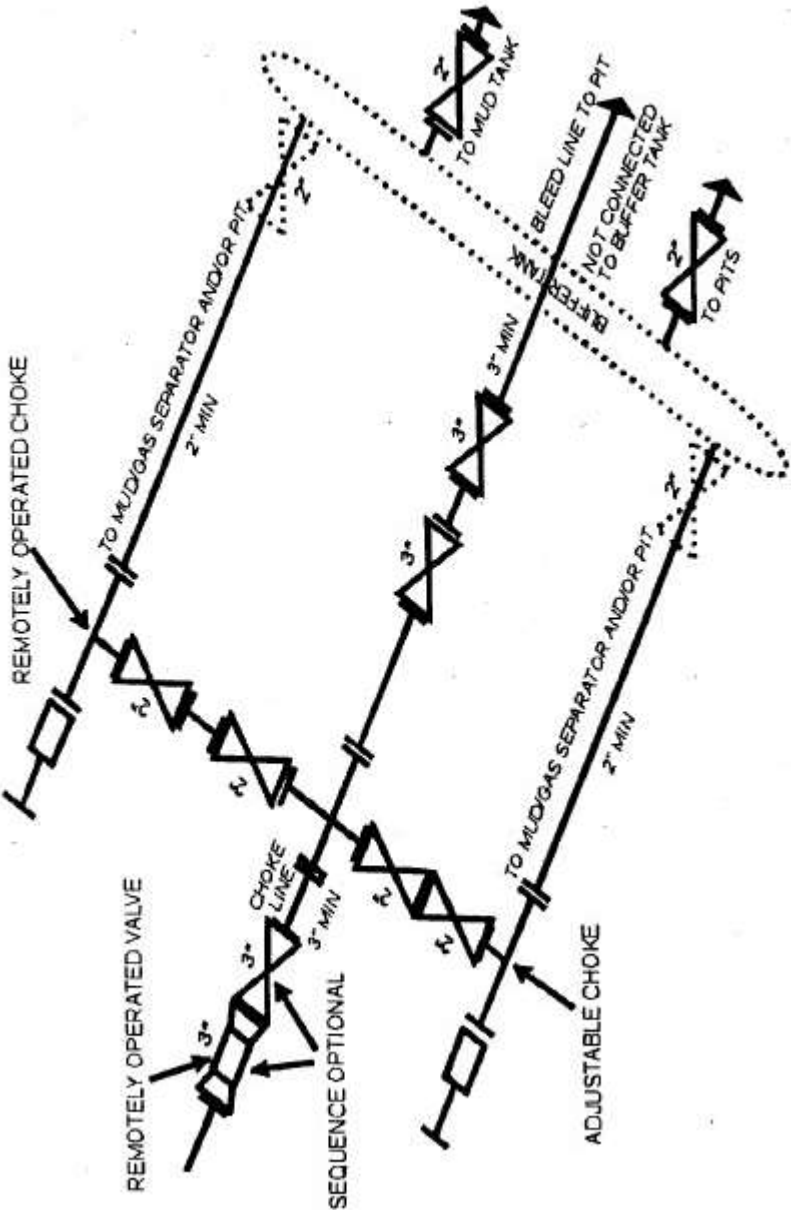
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Ponderosa Unit
Site: F31 2409
Well: 130H
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: 130H

GL 6830' & RKB 14' @ 6844ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1918115.55	2723074.08	36.27147400	-107.83339300

Plan: APD (130H/Original Drilling)

Created By: Janie Collins Date: 15:32, August 01 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
130H Heel	4766	-698	725	1917417.91	2723799.42	36.26955750	-107.83093236
130H Toe	4715	-5724	5900	1912391.08	2728973.69	36.25574677	-107.81338272

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
782	7.13	133.62	781	-15	16	2.00	133.62	22
4316	7.13	133.62	4288	-318	334	0.00	0.00	461
5109	90.41	134.17	4766	-698	725	10.50	0.56	1006
12324	90.41	134.17	4715	-5724	5900	0.00	0.00	8220



Azimuths to True North
Magnetic North: 10.50°

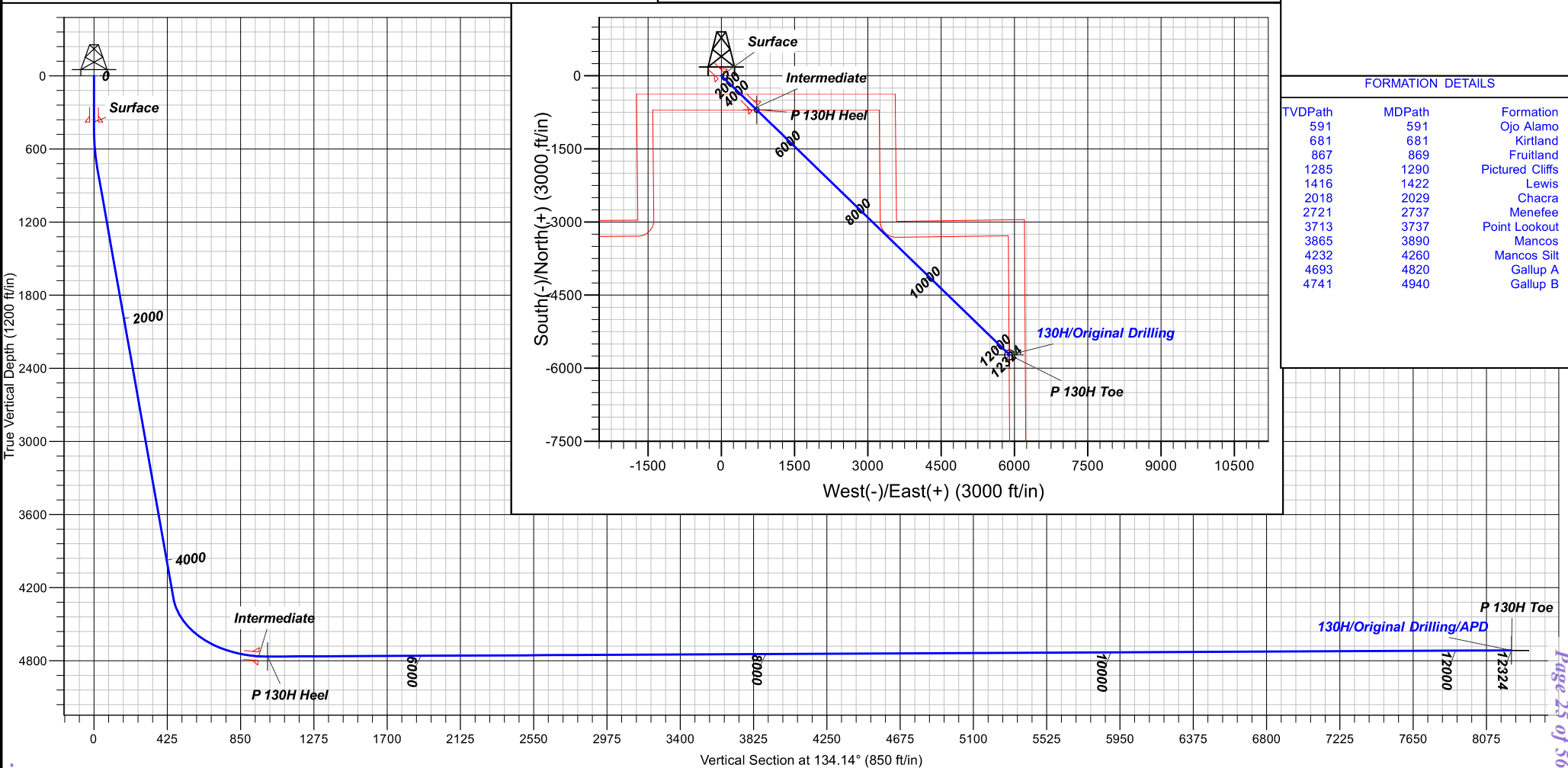
Magnetic Field
Strength: 50626.8 nT
Dip Angle: 63.09°
Date: 12/31/2019
Model: IGRF2005.10

CASING DETAILS

TVD	MD	Name
380	380	Surface
4764	5058	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
591	591	Ojo Alamo
681	681	Kirtland
867	869	Fruitland
1285	1290	Pictured Cliffs
1416	1422	Lewis
2018	2029	Chacara
2721	2737	Menefee
3713	3737	Point Lookout
3865	3890	Mancos
4232	4260	Mancos Silt
4693	4820	Gallup A
4741	4940	Gallup B





DJR Operating

Ponderosa Unit

F31 2409

130H - Slot 3

Original Drilling

Plan: APD

Standard Planning Report

01 August, 2022





Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 130H - Slot 3
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	130H	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	130H - Slot 3					
Well Position	+N/-S	0 ft	Northing:	1,918,115.56 usft	Latitude:	36.27147400
	+E/-W	0 ft	Easting:	2,723,074.08 usft	Longitude:	-107.83339300
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	50,626.76251516

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	134.14

Plan Survey Tool Program	Date	7/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	12,324 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	
782	7.13	133.62	781	-15	16	2.00	2.00	0.00	133.62	
4316	7.13	133.62	4288	-318	334	0.00	0.00	0.00	0.00	
5109	90.41	134.17	4766	-698	725	10.50	10.50	0.07	0.56	P 130H Heel
12,324	90.41	134.17	4715	-5724	5900	0.00	0.00	0.00	0.00	P 130H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 130H - Slot 3
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	130H	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	133.62	500	-1	1	1	2.00	2.00	0.00
600	3.50	133.62	600	-4	4	5	2.00	2.00	0.00
700	5.50	133.62	700	-9	10	13	2.00	2.00	0.00
782	7.13	133.62	781	-15	16	22	2.00	2.00	0.00
800	7.13	133.62	799	-17	18	24	0.00	0.00	0.00
900	7.13	133.62	898	-25	27	37	0.00	0.00	0.00
1000	7.13	133.62	997	-34	36	49	0.00	0.00	0.00
1100	7.13	133.62	1097	-43	45	62	0.00	0.00	0.00
1200	7.13	133.62	1196	-51	54	74	0.00	0.00	0.00
1300	7.13	133.62	1295	-60	63	87	0.00	0.00	0.00
1400	7.13	133.62	1394	-68	72	99	0.00	0.00	0.00
1500	7.13	133.62	1494	-77	81	111	0.00	0.00	0.00
1600	7.13	133.62	1593	-85	90	124	0.00	0.00	0.00
1700	7.13	133.62	1692	-94	99	136	0.00	0.00	0.00
1800	7.13	133.62	1791	-103	108	149	0.00	0.00	0.00
1900	7.13	133.62	1890	-111	117	161	0.00	0.00	0.00
2000	7.13	133.62	1990	-120	126	173	0.00	0.00	0.00
2100	7.13	133.62	2089	-128	135	186	0.00	0.00	0.00
2200	7.13	133.62	2188	-137	144	198	0.00	0.00	0.00
2300	7.13	133.62	2287	-145	153	211	0.00	0.00	0.00
2400	7.13	133.62	2387	-154	162	223	0.00	0.00	0.00
2500	7.13	133.62	2486	-162	171	236	0.00	0.00	0.00
2600	7.13	133.62	2585	-171	180	248	0.00	0.00	0.00
2700	7.13	133.62	2684	-180	189	260	0.00	0.00	0.00
2800	7.13	133.62	2783	-188	197	273	0.00	0.00	0.00
2900	7.13	133.62	2883	-197	206	285	0.00	0.00	0.00
3000	7.13	133.62	2982	-205	215	298	0.00	0.00	0.00
3100	7.13	133.62	3081	-214	224	310	0.00	0.00	0.00
3200	7.13	133.62	3180	-222	233	322	0.00	0.00	0.00
3300	7.13	133.62	3280	-231	242	335	0.00	0.00	0.00
3400	7.13	133.62	3379	-240	251	347	0.00	0.00	0.00
3500	7.13	133.62	3478	-248	260	360	0.00	0.00	0.00
3600	7.13	133.62	3577	-257	269	372	0.00	0.00	0.00
3700	7.13	133.62	3676	-265	278	385	0.00	0.00	0.00
3800	7.13	133.62	3776	-274	287	397	0.00	0.00	0.00
3900	7.13	133.62	3875	-282	296	409	0.00	0.00	0.00
4000	7.13	133.62	3974	-291	305	422	0.00	0.00	0.00
4100	7.13	133.62	4073	-300	314	434	0.00	0.00	0.00
4200	7.13	133.62	4173	-308	323	447	0.00	0.00	0.00
4300	7.13	133.62	4272	-317	332	459	0.00	0.00	0.00
4316	7.13	133.62	4288	-318	334	461	0.00	0.00	0.00
4400	15.91	133.93	4370	-330	346	478	10.50	10.50	0.37
4500	26.41	134.03	4463	-355	372	514	10.50	10.50	0.10
4600	36.91	134.08	4548	-391	409	566	10.50	10.50	0.05
4700	47.41	134.11	4622	-438	458	633	10.50	10.50	0.03
4800	57.91	134.13	4683	-493	515	713	10.50	10.50	0.02
4900	68.41	134.14	4728	-555	579	802	10.50	10.50	0.02
5000	78.91	134.16	4756	-622	647	898	10.50	10.50	0.01



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 130H - Slot 3
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	130H	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	89.41	134.17	4766	-691	719	997	10.50	10.50	0.01	
5109	90.41	134.17	4766	-698	725	1006	10.50	10.50	0.01	
5200	90.41	134.17	4765	-761	790	1097	0.00	0.00	0.00	
5300	90.41	134.17	4765	-830	862	1197	0.00	0.00	0.00	
5400	90.41	134.17	4764	-900	934	1297	0.00	0.00	0.00	
5500	90.41	134.17	4763	-970	1005	1397	0.00	0.00	0.00	
5600	90.41	134.17	4763	-1039	1077	1497	0.00	0.00	0.00	
5700	90.41	134.17	4762	-1109	1149	1597	0.00	0.00	0.00	
5800	90.41	134.17	4761	-1179	1221	1697	0.00	0.00	0.00	
5900	90.41	134.17	4760	-1249	1292	1797	0.00	0.00	0.00	
6000	90.41	134.17	4760	-1318	1364	1897	0.00	0.00	0.00	
6100	90.41	134.17	4759	-1388	1436	1997	0.00	0.00	0.00	
6200	90.41	134.17	4758	-1458	1508	2097	0.00	0.00	0.00	
6300	90.41	134.17	4758	-1527	1579	2197	0.00	0.00	0.00	
6400	90.41	134.17	4757	-1597	1651	2297	0.00	0.00	0.00	
6500	90.41	134.17	4756	-1667	1723	2397	0.00	0.00	0.00	
6600	90.41	134.17	4755	-1736	1794	2497	0.00	0.00	0.00	
6700	90.41	134.17	4755	-1806	1866	2597	0.00	0.00	0.00	
6800	90.41	134.17	4754	-1876	1938	2697	0.00	0.00	0.00	
6900	90.41	134.17	4753	-1945	2010	2797	0.00	0.00	0.00	
7000	90.41	134.17	4753	-2015	2081	2897	0.00	0.00	0.00	
7100	90.41	134.17	4752	-2085	2153	2997	0.00	0.00	0.00	
7200	90.41	134.17	4751	-2154	2225	3097	0.00	0.00	0.00	
7300	90.41	134.17	4751	-2224	2296	3197	0.00	0.00	0.00	
7400	90.41	134.17	4750	-2294	2368	3297	0.00	0.00	0.00	
7500	90.41	134.17	4749	-2363	2440	3397	0.00	0.00	0.00	
7600	90.41	134.17	4748	-2433	2512	3497	0.00	0.00	0.00	
7700	90.41	134.17	4748	-2503	2583	3597	0.00	0.00	0.00	
7800	90.41	134.17	4747	-2572	2655	3697	0.00	0.00	0.00	
7900	90.41	134.17	4746	-2642	2727	3797	0.00	0.00	0.00	
8000	90.41	134.17	4746	-2712	2799	3897	0.00	0.00	0.00	
8100	90.41	134.17	4745	-2781	2870	3997	0.00	0.00	0.00	
8200	90.41	134.17	4744	-2851	2942	4097	0.00	0.00	0.00	
8300	90.41	134.17	4743	-2921	3014	4197	0.00	0.00	0.00	
8400	90.41	134.17	4743	-2990	3085	4297	0.00	0.00	0.00	
8500	90.41	134.17	4742	-3060	3157	4397	0.00	0.00	0.00	
8600	90.41	134.17	4741	-3130	3229	4497	0.00	0.00	0.00	
8700	90.41	134.17	4741	-3200	3301	4597	0.00	0.00	0.00	
8800	90.41	134.17	4740	-3269	3372	4697	0.00	0.00	0.00	
8900	90.41	134.17	4739	-3339	3444	4797	0.00	0.00	0.00	
9000	90.41	134.17	4738	-3409	3516	4897	0.00	0.00	0.00	
9100	90.41	134.17	4738	-3478	3588	4997	0.00	0.00	0.00	
9200	90.41	134.17	4737	-3548	3659	5097	0.00	0.00	0.00	
9300	90.41	134.17	4736	-3618	3731	5197	0.00	0.00	0.00	
9400	90.41	134.17	4736	-3687	3803	5297	0.00	0.00	0.00	
9500	90.41	134.17	4735	-3757	3874	5397	0.00	0.00	0.00	
9600	90.41	134.17	4734	-3827	3946	5497	0.00	0.00	0.00	
9700	90.41	134.17	4734	-3896	4018	5597	0.00	0.00	0.00	
9800	90.41	134.17	4733	-3966	4090	5697	0.00	0.00	0.00	
9900	90.41	134.17	4732	-4036	4161	5797	0.00	0.00	0.00	
10,000	90.41	134.17	4731	-4105	4233	5897	0.00	0.00	0.00	
10,100	90.41	134.17	4731	-4175	4305	5997	0.00	0.00	0.00	
10,200	90.41	134.17	4730	-4245	4376	6097	0.00	0.00	0.00	
10,300	90.41	134.17	4729	-4314	4448	6197	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 130H - Slot 3
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	130H	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	134.17	4729	-4384	4520	6297	0.00	0.00	0.00	
10,500	90.41	134.17	4728	-4454	4592	6397	0.00	0.00	0.00	
10,600	90.41	134.17	4727	-4523	4663	6497	0.00	0.00	0.00	
10,700	90.41	134.17	4726	-4593	4735	6597	0.00	0.00	0.00	
10,800	90.41	134.17	4726	-4663	4807	6697	0.00	0.00	0.00	
10,900	90.41	134.17	4725	-4732	4879	6797	0.00	0.00	0.00	
11,000	90.41	134.17	4724	-4802	4950	6897	0.00	0.00	0.00	
11,100	90.41	134.17	4724	-4872	5022	6997	0.00	0.00	0.00	
11,200	90.41	134.17	4723	-4942	5094	7097	0.00	0.00	0.00	
11,300	90.41	134.17	4722	-5011	5165	7197	0.00	0.00	0.00	
11,400	90.41	134.17	4722	-5081	5237	7297	0.00	0.00	0.00	
11,500	90.41	134.17	4721	-5151	5309	7397	0.00	0.00	0.00	
11,600	90.41	134.17	4720	-5220	5381	7497	0.00	0.00	0.00	
11,700	90.41	134.17	4719	-5290	5452	7597	0.00	0.00	0.00	
11,800	90.41	134.17	4719	-5360	5524	7697	0.00	0.00	0.00	
11,900	90.41	134.17	4718	-5429	5596	7797	0.00	0.00	0.00	
12,000	90.41	134.17	4717	-5499	5667	7897	0.00	0.00	0.00	
12,100	90.41	134.17	4717	-5569	5739	7997	0.00	0.00	0.00	
12,200	90.41	134.17	4716	-5638	5811	8097	0.00	0.00	0.00	
12,300	90.41	134.17	4715	-5708	5883	8197	0.00	0.00	0.00	
12,324	90.41	134.17	4715	-5724	5900	8220	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 130H Toe	0.00	0.00	4715	-5724	5900	1,912,391.08	2,728,973.70	36.25574677	-107.81338272	
- plan hits target center										
- Circle (radius 100)										
P 130H Heel	0.00	0.00	4766	-698	725	1,917,417.91	2,723,799.42	36.26955750	-107.83093236	
- plan hits target center										
- Circle (radius 50)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
380	380	Surface	9.63	12.25		
5058	4764	Intermediate	7.00	8.75		



Database:	Grand Junction	Local Co-ordinate Reference:	Well 130H - Slot 3
Company:	DJR Operating	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Project:	Ponderosa Unit	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site:	F31 2409	North Reference:	True
Well:	130H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
591	591	Ojo Alamo		0.00	0.00	
681	681	Kirtland		0.00	0.00	
869	867	Fruitland		0.00	0.00	
1290	1285	Pictured Cliffs		0.00	0.00	
1422	1416	Lewis		0.00	0.00	
2029	2018	Chacra		0.00	0.00	
2737	2721	Menefee		0.00	0.00	
3737	3713	Point Lookout		0.00	0.00	
3890	3865	Mancos		0.00	0.00	
4260	4232	Mancos Silt		0.00	0.00	
4820	4693	Gallup A		0.00	0.00	
4940	4741	Gallup B		0.00	0.00	



DJR Operating

Ponderosa Unit

F31 2409

130H

Original Drilling

APD

Anticollision Report

01 August, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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	12,324	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
F31 2409						
124H - Original Drilling - APD	425	425	20	18	7.300	CC
124H - Original Drilling - APD	500	500	21	17	6.263	ES
124H - Original Drilling - APD	12,324	13,447	1352	942	3.293	SF
129H - Original Drilling - APD	568	567	40	36	10.508	CC
129H - Original Drilling - APD	600	598	40	36	9.968	ES
129H - Original Drilling - APD	12,324	13,106	656	265	1.678	SF
144H - Original Drilling - APD	537	537	19	16	5.418	CC, ES
144H - Original Drilling - APD	12,324	12,885	801	405	2.022	SF
April Surprise 9 - OH - OH	6566	4684	312	111	1.553	CC, ES, SF

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		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Major Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Distance 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	-138.09	20	-1	21	17	3.31	6.263 ES		
600	600	600	600	2	2	-155.37	18	-5	24	20	3.99	5.925		
700	700	699	699	2	2	-175.15	15	-12	33	28	4.70	6.930		
782	781	779	778	3	3	173.18	12	-20	45	40	5.28	8.568		
800	799	797	796	3	3	171.16	11	-22	49	43	5.42	8.994		
900	898	893	891	3	3	162.59	5	-35	69	63	6.12	11.341		
1000	997	988	984	4	3	156.60	-1	-51	93	86	6.83	13.659		
1100	1097	1081	1075	4	4	152.11	-9	-69	120	113	7.54	15.944		
1200	1196	1173	1164	4	4	148.57	-18	-89	150	142	8.25	18.209		
1300	1295	1262	1251	5	5	145.70	-27	-112	183	174	8.95	20.452		
1400	1394	1350	1334	5	5	143.32	-38	-136	219	209	9.63	22.685		
1500	1494	1437	1416	6	6	141.30	-49	-163	257	247	10.32	24.895		

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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						Rule Assigned:				Offset Well Error:	0 ft	
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Reference (ft)	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	
1600	1593	1528	1502	6	7	139.59	-61	-192	296	285	11.08	26.747		
1700	1692	1620	1588	6	7	138.28	-73	-220	336	324	11.85	28.359		
1800	1791	1711	1674	7	8	137.25	-86	-249	376	363	12.63	29.771		
1900	1890	1803	1760	7	9	136.42	-98	-278	416	402	13.41	31.017		
2000	1990	1894	1846	8	9	135.73	-110	-307	456	442	14.19	32.121		
2100	2089	1986	1932	8	10	135.15	-123	-336	496	481	14.98	33.107		
2200	2188	2078	2018	9	11	134.66	-135	-365	536	520	15.77	33.991		
2300	2287	2169	2104	9	11	134.24	-147	-393	576	559	16.56	34.788		
2400	2387	2261	2190	9	12	133.87	-160	-422	616	599	17.35	35.510		
2500	2486	2352	2276	10	13	133.55	-172	-451	656	638	18.15	36.167		
2600	2585	2444	2362	10	13	133.26	-184	-480	696	677	18.94	36.767		
2700	2684	2535	2448	11	14	133.01	-196	-509	737	717	19.74	37.316		
2800	2783	2627	2534	11	15	132.78	-209	-538	777	756	20.54	37.822		
2900	2883	2718	2620	12	15	132.57	-221	-567	817	796	21.34	38.288		
3000	2982	2810	2706	12	16	132.39	-233	-595	857	835	22.14	38.719		
3100	3081	2901	2792	12	17	132.22	-246	-624	897	874	22.94	39.120		
3200	3180	2993	2878	13	17	132.06	-258	-653	937	914	23.74	39.492		
3300	3280	3084	2964	13	18	131.92	-270	-682	978	953	24.54	39.839		
3400	3379	3176	3050	14	19	131.79	-282	-711	1018	993	25.34	40.163		
3500	3478	3268	3136	14	20	131.67	-295	-740	1058	1032	26.15	40.466		
3600	3577	3359	3222	15	20	131.56	-307	-769	1098	1071	26.95	40.751		
3700	3676	3451	3308	15	21	131.45	-319	-797	1139	1111	27.76	41.018		
3800	3776	3542	3394	15	22	131.35	-332	-826	1179	1150	28.56	41.270		
3900	3875	3634	3480	16	22	131.26	-344	-855	1219	1190	29.37	41.508		
4000	3974	3725	3566	16	23	131.18	-356	-884	1259	1229	30.17	41.732		
4100	4073	3817	3652	17	24	131.10	-369	-913	1299	1268	30.98	41.944		
4200	4173	3908	3738	17	24	131.02	-381	-942	1340	1308	31.79	42.145		
4300	4272	5689	4758	18	31	93.55	-1235	-570	1377	1337	39.08	35.223		
4316	4288	5691	4758	18	31	93.46	-1237	-569	1371	1332	39.37	34.820		
4350	4321	5696	4758	18	31	94.28	-1240	-565	1360	1320	39.98	34.013		
4400	4370	5707	4758	18	31	95.29	-1248	-557	1345	1304	40.98	32.823		
4450	4417	5722	4758	18	31	95.96	-1259	-546	1332	1290	42.08	31.662		
4500	4463	5742	4758	19	31	96.27	-1273	-532	1322	1278	43.25	30.558		
4550	4507	5766	4758	19	32	96.26	-1290	-515	1313	1268	44.48	29.519		
4600	4548	5794	4758	20	32	95.97	-1309	-495	1306	1260	45.74	28.548		
4650	4587	5826	4757	20	32	95.44	-1331	-473	1300	1253	47.18	27.564		
4700	4622	5861	4757	21	32	94.74	-1356	-448	1297	1248	48.64	26.655		
4750	4654	5899	4757	21	33	93.92	-1383	-421	1294	1244	50.08	25.839		
4800	4683	5940	4756	22	34	93.04	-1411	-392	1292	1241	51.63	25.032		
4850	4707	5983	4756	23	34	92.16	-1442	-361	1292	1238	53.19	24.282		
4868	4715	5999	4756	23	34	91.86	-1453	-349	1291	1238	53.94	23.942		
4900	4728	6028	4756	23	35	91.34	-1474	-329	1291	1236	55.03	23.467		
4902	4729	6030	4756	23	35	91.31	-1475	-327	1291	1236	55.11	23.433		
4950	4744	6076	4756	24	36	90.63	-1507	-295	1292	1235	56.83	22.726		
4952	4745	6078	4755	24	36	90.60	-1508	-293	1292	1235	56.92	22.693		
5000	4756	6124	4755	25	36	90.06	-1541	-261	1292	1233	58.70	22.009		
5050	4763	6173	4755	26	37	89.68	-1576	-225	1292	1232	60.59	21.329		
5100	4766	6223	4754	27	38	89.49	-1611	-190	1293	1230	62.52	20.678		
5109	4766	6233	4754	27	38	89.48	-1617	-183	1293	1230	62.88	20.560		
5200	4765	6323	4754	28	40	89.48	-1681	-119	1294	1227	66.46	19.465		
5300	4765	6423	4753	30	42	89.48	-1751	-48	1294	1224	70.53	18.352		
5400	4764	6523	4752	32	44	89.48	-1822	24	1295	1221	74.72	17.334		

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 124H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5500	4763	6623	4752	34	46	89.48	-1892	95	1296	1217	79.01	16.404	
5600	4763	6723	4751	37	48	89.48	-1962	166	1297	1214	83.38	15.555	
5700	4762	6823	4750	39	51	89.48	-2032	237	1298	1210	87.81	14.779	
5800	4761	6923	4749	41	53	89.48	-2103	308	1299	1206	92.30	14.069	
5900	4760	7023	4749	43	55	89.48	-2173	379	1299	1203	96.84	13.418	
6000	4760	7123	4748	45	57	89.48	-2243	450	1300	1199	101.42	12.819	
6100	4759	7223	4747	48	60	89.48	-2313	522	1301	1195	106.04	12.269	
6200	4758	7323	4747	50	62	89.48	-2384	593	1302	1191	110.70	11.761	
6300	4758	7423	4746	52	64	89.48	-2454	664	1303	1187	115.38	11.291	
6400	4757	7523	4745	55	67	89.48	-2524	735	1303	1183	120.08	10.855	
6500	4756	7623	4744	57	69	89.48	-2594	806	1304	1180	124.81	10.451	
6600	4755	7723	4744	59	71	89.48	-2665	877	1305	1176	129.55	10.074	
6700	4755	7823	4743	62	74	89.48	-2735	948	1306	1172	134.32	9.723	
6800	4754	7923	4742	64	76	89.48	-2805	1020	1307	1168	139.10	9.395	
6900	4753	8023	4742	67	78	89.48	-2876	1091	1308	1164	143.89	9.088	
7000	4753	8123	4741	69	81	89.48	-2946	1162	1308	1160	148.69	8.800	
7100	4752	8223	4740	71	83	89.48	-3016	1233	1309	1156	153.51	8.529	
7200	4751	8323	4739	74	86	89.48	-3086	1304	1310	1152	158.34	8.274	
7300	4751	8423	4739	76	88	89.48	-3157	1375	1311	1148	163.17	8.034	
7400	4750	8523	4738	79	90	89.48	-3227	1446	1312	1144	168.02	7.807	
7500	4749	8623	4737	81	93	89.48	-3297	1518	1313	1140	172.87	7.593	
7600	4748	8723	4737	83	95	89.48	-3367	1589	1313	1136	177.73	7.390	
7700	4748	8823	4736	86	98	89.48	-3438	1660	1314	1132	182.60	7.197	
7800	4747	8923	4735	88	100	89.48	-3508	1731	1315	1128	187.47	7.015	
7900	4746	9023	4734	91	102	89.48	-3578	1802	1316	1123	192.35	6.841	
8000	4746	9123	4734	93	105	89.48	-3648	1873	1317	1119	197.23	6.676	
8100	4745	9223	4733	96	107	89.48	-3719	1944	1317	1115	202.12	6.518	
8200	4744	9323	4732	98	110	89.48	-3789	2016	1318	1111	207.01	6.368	
8300	4743	9423	4732	101	112	89.48	-3859	2087	1319	1107	211.91	6.225	
8400	4743	9523	4731	103	115	89.48	-3930	2158	1320	1103	216.81	6.088	
8500	4742	9623	4730	105	117	89.48	-4000	2229	1321	1099	221.71	5.957	
8600	4741	9723	4729	108	119	89.48	-4070	2300	1322	1095	226.62	5.832	
8700	4741	9823	4729	110	122	89.48	-4140	2371	1322	1091	231.53	5.712	
8800	4740	9923	4728	113	124	89.48	-4211	2442	1323	1087	236.45	5.596	
8900	4739	10,023	4727	115	127	89.48	-4281	2514	1324	1083	241.36	5.486	
9000	4738	10,123	4727	118	129	89.48	-4351	2585	1325	1079	246.28	5.380	
9100	4738	10,223	4726	120	132	89.48	-4421	2656	1326	1075	251.20	5.278	
9200	4737	10,323	4725	123	134	89.48	-4492	2727	1327	1070	256.13	5.179	
9300	4736	10,423	4724	125	137	89.48	-4562	2798	1327	1066	261.05	5.085	
9400	4736	10,523	4724	128	139	89.48	-4632	2869	1328	1062	265.98	4.994	
9500	4735	10,623	4723	130	142	89.48	-4702	2940	1329	1058	270.91	4.906	
9600	4734	10,723	4722	133	144	89.48	-4773	3012	1330	1054	275.84	4.821	
9700	4734	10,823	4722	135	146	89.48	-4843	3083	1331	1050	280.78	4.739	
9800	4733	10,923	4721	137	149	89.48	-4913	3154	1331	1046	285.71	4.660	
9900	4732	11,023	4720	140	151	89.48	-4984	3225	1332	1042	290.65	4.584	
10,000	4731	11,123	4719	142	154	89.48	-5054	3296	1333	1038	295.59	4.510	
10,100	4731	11,223	4719	145	156	89.48	-5124	3367	1334	1033	300.53	4.439	
10,200	4730	11,323	4718	147	159	89.48	-5194	3438	1335	1029	305.47	4.370	
10,300	4729	11,423	4717	150	161	89.48	-5265	3510	1336	1025	310.41	4.303	
10,400	4729	11,523	4717	152	164	89.48	-5335	3581	1336	1021	315.36	4.238	
10,500	4728	11,623	4716	155	166	89.48	-5405	3652	1337	1017	320.30	4.175	
10,600	4727	11,723	4715	157	169	89.48	-5475	3723	1338	1013	325.25	4.114	

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 124H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,700	4726	11,823	4714	160	171	89.48	-5546	3794	1339	1009	330.19	4.055	
10,800	4726	11,923	4714	162	173	89.48	-5616	3865	1340	1005	335.14	3.997	
10,900	4725	12,023	4713	165	176	89.48	-5686	3937	1341	1000	340.09	3.942	
11,000	4724	12,123	4712	167	178	89.48	-5756	4008	1341	996	345.04	3.888	
11,100	4724	12,223	4712	170	181	89.48	-5827	4079	1342	992	349.99	3.835	
11,200	4723	12,323	4711	172	183	89.48	-5897	4150	1343	988	354.94	3.784	
11,300	4722	12,423	4710	175	186	89.48	-5967	4221	1344	984	359.90	3.734	
11,400	4722	12,523	4709	177	188	89.48	-6037	4292	1345	980	364.85	3.686	
11,500	4721	12,623	4709	180	191	89.48	-6108	4363	1345	976	369.80	3.638	
11,600	4720	12,723	4708	182	193	89.48	-6178	4435	1346	972	374.76	3.592	
11,700	4719	12,823	4707	184	196	89.48	-6248	4506	1347	967	379.71	3.548	
11,800	4719	12,923	4707	187	198	89.48	-6319	4577	1348	963	384.67	3.504	
11,900	4718	13,023	4706	189	201	89.48	-6389	4648	1349	959	389.63	3.462	
12,000	4717	13,123	4705	192	203	89.48	-6459	4719	1350	955	394.58	3.420	
12,100	4717	13,223	4704	194	206	89.48	-6529	4790	1350	951	399.54	3.380	
12,200	4716	13,323	4704	197	208	89.48	-6600	4861	1351	947	404.50	3.341	
12,300	4715	13,423	4703	199	211	89.48	-6670	4933	1352	943	409.46	3.302	
12,324	4715	13,447	4703	200	211	89.48	-6687	4949	1352	942	410.63	3.293 SF	

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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-179.58	-40	0	40						
100	100	100	100	0	0	-179.58	-40	0	40	40	0.46	86.595			
200	200	200	200	1	1	-179.58	-40	0	40	39	1.18	33.954			
300	300	300	300	1	1	-179.58	-40	0	40	38	1.90	21.117			
400	400	400	400	1	1	-179.58	-40	0	40	37	2.61	15.323			
425	425	425	425	1	1	-179.58	-40	0	40	37	2.79	14.340			
500	500	499	499	2	2	49.07	-40	-1	40	37	3.31	12.041			
568	568	567	567	2	2	55.11	-42	-3	40	36	3.77	10.508 CC			
600	600	598	598	2	2	59.22	-42	-5	40	36	3.99	9.968 ES			
700	700	697	696	2	2	76.25	-46	-12	43	38	4.68	9.101			
782	781	776	775	3	3	91.57	-50	-20	50	44	5.25	9.470			
800	799	793	792	3	3	94.76	-51	-21	52	47	5.38	9.681			
900	898	891	889	3	3	108.03	-56	-33	68	61	6.10	11.057			
1000	997	989	987	4	3	116.17	-62	-44	85	78	6.83	12.457			
1100	1097	1087	1084	4	4	121.48	-67	-55	104	96	7.57	13.721			
1200	1196	1185	1181	4	4	125.15	-73	-67	123	115	8.31	14.823			
1300	1295	1283	1278	5	5	127.82	-79	-78	143	134	9.06	15.775			
1400	1394	1381	1375	5	5	129.84	-84	-89	163	153	9.81	16.600			
1500	1494	1478	1472	6	5	131.42	-90	-100	183	172	10.56	17.317			
1600	1593	1576	1569	6	6	132.69	-95	-112	203	192	11.32	17.944			
1700	1692	1674	1666	6	6	133.73	-101	-123	223	211	12.07	18.496			
1800	1791	1772	1763	7	7	134.60	-107	-134	244	231	12.83	18.986			
1900	1890	1870	1860	7	7	135.33	-112	-146	264	250	13.59	19.422			
2000	1990	1968	1957	8	8	135.96	-118	-157	284	270	14.36	19.812			
2100	2089	2066	2054	8	8	136.50	-123	-168	305	290	15.12	20.164			
2200	2188	2163	2151	9	8	136.98	-129	-180	325	309	15.88	20.483			
2300	2287	2261	2248	9	9	137.40	-135	-191	346	329	16.64	20.772			
2400	2387	2359	2345	9	9	137.77	-140	-202	366	349	17.41	21.037			
2500	2486	2457	2442	10	10	138.10	-146	-213	387	369	18.17	21.279			
2600	2585	2555	2539	10	10	138.40	-151	-225	407	388	18.94	21.501			
2700	2684	2653	2636	11	11	138.67	-157	-236	428	408	19.71	21.707			
2800	2783	2751	2733	11	11	138.92	-163	-247	448	428	20.47	21.896			
2900	2883	2848	2830	12	11	139.14	-168	-259	469	448	21.24	22.073			
3000	2982	2946	2927	12	12	139.35	-174	-270	489	467	22.01	22.236			
3100	3081	3044	3024	12	12	139.54	-179	-281	510	487	22.77	22.389			
3200	3180	3142	3121	13	13	139.71	-185	-292	530	507	23.54	22.532			
3300	3280	3240	3218	13	13	139.87	-191	-304	551	527	24.31	22.666			
3400	3379	3338	3315	14	13	140.02	-196	-315	572	546	25.08	22.791			
3500	3478	3435	3412	14	14	140.16	-202	-326	592	566	25.85	22.909			
3600	3577	3533	3510	15	14	140.29	-208	-338	613	586	26.62	23.020			
3700	3676	3631	3607	15	15	140.41	-213	-349	633	606	27.38	23.125			
3800	3776	3729	3704	15	15	140.53	-219	-360	654	626	28.15	23.224			
3900	3875	3827	3801	16	16	140.63	-224	-371	674	645	28.92	23.318			
4000	3974	3925	3898	16	16	140.74	-230	-383	695	665	29.69	23.407			
4100	4073	4023	3995	17	16	140.83	-236	-394	716	685	30.46	23.491			
4200	4173	4120	4092	17	17	140.92	-241	-405	736	705	31.23	23.571			
4300	4272	4218	4189	18	17	141.00	-247	-417	757	725	32.00	23.647			
4316	4288	4234	4205	18	17	141.02	-248	-418	760	728	32.13	23.659			
4350	4321	4267	4237	18	18	140.38	-250	-422	768	735	32.39	23.704			
4400	4370	4315	4284	18	18	139.54	-252	-428	782	749	32.80	23.846			
4450	4417	5382	4950	18	23	108.83	-750	-41	781	751	29.48	26.492			
4500	4463	5402	4950	19	23	110.97	-764	-27	751	720	31.02	24.199			

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4550	4507	5426	4950	19	23	112.34	-780	-10	723	690	32.67	22.133	
4600	4548	5453	4950	20	24	113.06	-800	10	699	664	34.42	20.293	
4650	4587	5485	4950	20	24	113.25	-822	33	677	641	36.27	18.672	
4700	4622	5520	4949	21	25	113.00	-847	58	659	621	38.19	17.256	
4750	4654	5558	4949	21	25	112.43	-873	85	644	604	40.17	16.030	
4800	4683	5599	4949	22	26	111.63	-902	114	632	589	42.17	14.976	
4850	4707	5642	4949	23	27	110.72	-933	145	622	578	44.20	14.068	
4900	4728	5688	4948	23	27	109.78	-964	177	614	568	46.23	13.290	
4950	4744	5735	4948	24	28	108.91	-998	211	609	561	48.25	12.622	
5000	4756	5783	4948	25	29	108.20	-1032	245	605	555	50.24	12.050	
5050	4763	5833	4947	26	30	107.70	-1066	280	603	551	52.19	11.560	
5061	4764	5844	4947	26	30	107.63	-1074	288	603	550	52.62	11.461	
5100	4766	5883	4947	27	31	107.47	-1101	316	603	549	54.07	11.147	
5100	4766	5883	4947	27	31	107.46	-1102	316	603	549	54.09	11.143	
5109	4766	5892	4947	27	31	107.45	-1108	322	603	548	54.42	11.077	
5114	4766	5896	4947	27	31	107.45	-1111	325	603	548	54.57	11.047	
5200	4765	5983	4946	28	33	107.43	-1172	387	603	546	57.81	10.439	
5204	4765	5987	4946	29	33	107.43	-1175	390	603	546	57.98	10.409	
5300	4765	6083	4945	30	35	107.41	-1242	458	604	542	61.68	9.795	
5304	4765	6087	4945	30	35	107.41	-1245	461	604	542	61.86	9.767	
5400	4764	6183	4945	32	37	107.39	-1312	529	605	539	65.68	9.209	
5404	4764	6187	4945	32	37	107.39	-1315	532	605	539	65.87	9.184	
5500	4763	6283	4944	34	39	107.36	-1382	600	606	536	69.78	8.679	
5504	4763	6287	4944	35	40	107.36	-1385	604	606	536	69.97	8.656	
5600	4763	6383	4943	37	42	107.34	-1452	672	606	532	73.97	8.198	
5604	4762	6387	4943	37	42	107.34	-1456	675	606	532	74.16	8.177	
5700	4762	6483	4943	39	44	107.32	-1523	743	607	529	78.22	7.761	
5704	4762	6487	4943	39	44	107.32	-1526	746	607	529	78.42	7.742	
5800	4761	6583	4942	41	46	107.30	-1593	814	608	525	82.54	7.364	
5804	4761	6587	4942	41	46	107.30	-1596	817	608	525	82.74	7.347	
5900	4760	6683	4941	43	48	107.28	-1663	885	609	522	86.91	7.002	
5904	4760	6687	4941	43	49	107.28	-1666	888	609	521	87.10	6.987	
6000	4760	6783	4940	45	51	107.25	-1733	956	609	518	91.32	6.672	
6004	4760	6787	4940	46	51	107.25	-1736	960	609	518	91.52	6.658	
6100	4759	6883	4940	48	53	107.23	-1804	1028	610	514	95.76	6.370	
6104	4759	6887	4940	48	53	107.23	-1807	1031	610	514	95.97	6.357	
6200	4758	6983	4939	50	55	107.21	-1874	1099	611	510	100.25	6.092	
6204	4758	6987	4939	50	55	107.21	-1877	1102	611	510	100.45	6.081	
6300	4758	7083	4938	52	58	107.19	-1944	1170	611	507	104.76	5.837	
6304	4758	7087	4938	52	58	107.19	-1947	1173	612	507	104.96	5.826	
6400	4757	7183	4938	55	60	107.17	-2014	1241	612	503	109.29	5.602	
6404	4757	7187	4938	55	60	107.17	-2017	1244	612	503	109.50	5.591	
6500	4756	7283	4937	57	62	107.15	-2084	1312	613	499	113.85	5.384	
6504	4756	7287	4937	57	63	107.15	-2088	1315	613	499	114.05	5.374	
6600	4755	7383	4936	59	65	107.12	-2155	1383	614	495	118.43	5.182	
6604	4755	7387	4936	59	65	107.12	-2158	1387	614	495	118.63	5.173	
6700	4755	7483	4935	62	67	107.10	-2225	1455	614	491	123.02	4.994	
6704	4755	7487	4935	62	67	107.10	-2228	1458	614	491	123.23	4.986	
6800	4754	7583	4935	64	70	107.08	-2295	1526	615	487	127.63	4.819	
6804	4754	7587	4935	64	70	107.08	-2298	1529	615	487	127.84	4.812	
6900	4753	7683	4934	67	72	107.06	-2365	1597	616	484	132.26	4.656	
6904	4753	7687	4934	67	72	107.06	-2368	1600	616	483	132.47	4.649	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7000	4753	7783	4933	69	74	107.04	-2436	1668	617	480	136.90	4.504	
7004	4753	7787	4933	69	74	107.04	-2439	1671	617	480	137.11	4.497	
7100	4752	7883	4933	71	77	107.02	-2506	1739	617	476	141.55	4.361	
7104	4752	7887	4933	71	77	107.02	-2509	1743	617	476	141.76	4.355	
7200	4751	7983	4932	74	79	107.00	-2576	1811	618	472	146.21	4.227	
7204	4751	7987	4932	74	79	107.00	-2579	1814	618	472	146.42	4.221	
7300	4751	8083	4931	76	82	106.97	-2646	1882	619	468	150.88	4.101	
7304	4750	8087	4931	76	82	106.97	-2649	1885	619	468	151.09	4.096	
7400	4750	8182	4930	79	84	106.95	-2716	1953	620	464	155.56	3.982	
7404	4750	8187	4930	79	84	106.95	-2720	1956	620	464	155.77	3.977	
7500	4749	8282	4930	81	86	106.93	-2787	2024	620	460	160.25	3.870	
7504	4749	8287	4930	81	87	106.93	-2790	2027	620	460	160.46	3.866	
7600	4748	8382	4929	83	89	106.91	-2857	2095	621	456	164.95	3.765	
7604	4748	8387	4929	84	89	106.91	-2860	2099	621	456	165.16	3.760	
7700	4748	8482	4928	86	91	106.89	-2927	2167	622	452	169.65	3.665	
7704	4748	8487	4928	86	91	106.89	-2930	2170	622	452	169.86	3.660	
7800	4747	8582	4928	88	94	106.87	-2997	2238	622	448	174.36	3.570	
7804	4747	8587	4928	88	94	106.87	-3001	2241	622	448	174.57	3.566	
7900	4746	8682	4927	91	96	106.85	-3068	2309	623	444	179.07	3.480	
7904	4746	8687	4927	91	96	106.85	-3071	2312	623	444	179.29	3.476	
8000	4746	8782	4926	93	99	106.83	-3138	2380	624	440	183.80	3.395	
8004	4746	8787	4926	93	99	106.83	-3141	2383	624	440	184.01	3.391	
8100	4745	8882	4925	96	101	106.81	-3208	2451	625	436	188.52	3.313	
8104	4745	8887	4925	96	101	106.81	-3211	2454	625	436	188.74	3.310	
8200	4744	8982	4925	98	104	106.79	-3278	2522	625	432	193.26	3.236	
8204	4744	8987	4925	98	104	106.79	-3281	2526	625	432	193.47	3.233	
8300	4743	9082	4924	101	106	106.77	-3348	2594	626	428	197.99	3.162	
8304	4743	9087	4924	101	106	106.76	-3352	2597	626	428	198.21	3.159	
8400	4743	9182	4923	103	108	106.74	-3419	2665	627	424	202.73	3.092	
8404	4743	9187	4923	103	109	106.74	-3422	2668	627	424	202.95	3.089	
8500	4742	9282	4923	105	111	106.72	-3489	2736	628	420	207.48	3.025	
8504	4742	9287	4923	106	111	106.72	-3492	2739	628	420	207.69	3.022	
8600	4741	9382	4922	108	113	106.70	-3559	2807	628	416	212.23	2.960	
8604	4741	9387	4922	108	113	106.70	-3562	2810	628	416	212.44	2.958	
8700	4741	9482	4921	110	116	106.68	-3629	2878	629	412	216.98	2.899	
8704	4741	9487	4921	110	116	106.68	-3633	2882	629	412	217.20	2.896	
8800	4740	9582	4920	113	118	106.66	-3700	2950	630	408	221.74	2.840	
8804	4740	9587	4920	113	118	106.66	-3703	2953	630	408	221.95	2.837	
8900	4739	9682	4920	115	121	106.64	-3770	3021	630	404	226.50	2.784	
8904	4739	9687	4920	115	121	106.64	-3773	3024	631	404	226.71	2.781	
9000	4738	9782	4919	118	123	106.62	-3840	3092	631	400	231.26	2.729	
9004	4738	9787	4919	118	123	106.62	-3843	3095	631	400	231.48	2.727	
9100	4738	9882	4918	120	126	106.60	-3910	3163	632	396	236.03	2.677	
9104	4738	9887	4918	120	126	106.60	-3913	3166	632	396	236.24	2.675	
9200	4737	9982	4918	123	128	106.58	-3980	3234	633	392	240.80	2.627	
9204	4737	9987	4918	123	128	106.58	-3984	3237	633	392	241.01	2.625	
9300	4736	10,082	4917	125	131	106.56	-4051	3305	633	388	245.57	2.579	
9304	4736	10,087	4917	125	131	106.56	-4054	3309	633	388	245.78	2.577	
9400	4736	10,182	4916	128	133	106.54	-4121	3377	634	384	250.34	2.533	
9404	4736	10,187	4916	128	133	106.54	-4124	3380	634	384	250.56	2.531	
9500	4735	10,282	4916	130	135	106.52	-4191	3448	635	380	255.12	2.489	
9504	4735	10,287	4915	130	136	106.52	-4194	3451	635	380	255.34	2.487	

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9600	4734	10,382	4915	133	138	106.50	-4261	3519	636	376	259.90	2.446	
9604	4734	10,387	4915	133	138	106.50	-4265	3522	636	376	260.12	2.444	
9700	4734	10,482	4914	135	140	106.48	-4332	3590	636	372	264.68	2.404	
9704	4734	10,487	4914	135	140	106.48	-4335	3593	636	371	264.90	2.402	
9800	4733	10,582	4913	137	143	106.46	-4402	3661	637	368	269.47	2.364	
9804	4733	10,587	4913	138	143	106.46	-4405	3665	637	367	269.68	2.362	
9900	4732	10,682	4913	140	145	106.44	-4472	3733	638	364	274.26	2.326	
9904	4732	10,687	4913	140	145	106.44	-4475	3736	638	363	274.47	2.324	
10,000	4731	10,782	4912	142	148	106.42	-4542	3804	639	360	279.04	2.288	
10,004	4731	10,787	4912	142	148	106.42	-4545	3807	639	359	279.26	2.287	
10,100	4731	10,882	4911	145	150	106.40	-4613	3875	639	355	283.84	2.252	
10,104	4731	10,887	4911	145	150	106.40	-4616	3878	639	355	284.05	2.251	
10,200	4730	10,982	4911	147	153	106.38	-4683	3946	640	351	288.63	2.217	
10,204	4730	10,987	4910	147	153	106.38	-4686	3949	640	351	288.84	2.216	
10,300	4729	11,082	4910	150	155	106.36	-4753	4017	641	347	293.42	2.184	
10,304	4729	11,087	4910	150	155	106.36	-4756	4021	641	347	293.64	2.182	
10,400	4729	11,182	4909	152	158	106.34	-4823	4089	641	343	298.22	2.151	
10,404	4729	11,187	4909	152	158	106.34	-4826	4092	642	343	298.44	2.150	
10,500	4728	11,282	4908	155	160	106.32	-4893	4160	642	339	303.02	2.119	
10,504	4728	11,287	4908	155	160	106.32	-4897	4163	642	339	303.24	2.118	
10,600	4727	11,382	4908	157	163	106.30	-4964	4231	643	335	307.82	2.089	
10,604	4727	11,387	4908	157	163	106.30	-4967	4234	643	335	308.04	2.087	
10,700	4726	11,482	4907	160	165	106.28	-5034	4302	644	331	312.62	2.059	
10,704	4726	11,487	4907	160	165	106.28	-5037	4305	644	331	312.84	2.058	
10,800	4726	11,582	4906	162	168	106.26	-5104	4373	644	327	317.43	2.030	
10,804	4726	11,587	4906	162	168	106.26	-5107	4376	644	327	317.64	2.029	
10,900	4725	11,682	4906	165	170	106.24	-5174	4444	645	323	322.23	2.002	
10,904	4725	11,687	4906	165	170	106.24	-5177	4448	645	323	322.45	2.001	
11,000	4724	11,782	4905	167	172	106.22	-5245	4516	646	319	327.04	1.975	
11,004	4724	11,787	4905	167	173	106.22	-5248	4519	646	319	327.25	1.974	
11,100	4724	11,882	4904	170	175	106.20	-5315	4587	647	315	331.85	1.949	
11,104	4724	11,887	4904	170	175	106.20	-5318	4590	647	315	332.06	1.947	
11,200	4723	11,982	4903	172	177	106.19	-5385	4658	647	311	336.66	1.923	
11,204	4723	11,987	4903	172	178	106.18	-5388	4661	647	311	336.87	1.922	
11,300	4722	12,082	4903	175	180	106.17	-5455	4729	648	307	341.47	1.898	
11,304	4722	12,087	4903	175	180	106.16	-5458	4732	648	306	341.69	1.897	
11,400	4722	12,182	4902	177	182	106.15	-5525	4800	649	303	346.28	1.874	
11,404	4721	12,187	4902	177	182	106.15	-5529	4804	649	302	346.50	1.873	
11,500	4721	12,282	4901	180	185	106.13	-5596	4872	650	298	351.10	1.850	
11,504	4721	12,287	4901	180	185	106.13	-5599	4875	650	298	351.31	1.849	
11,600	4720	12,382	4901	182	187	106.11	-5666	4943	650	294	355.91	1.827	
11,604	4720	12,387	4901	182	187	106.11	-5669	4946	650	294	356.13	1.826	
11,700	4719	12,482	4900	184	190	106.09	-5736	5014	651	290	360.73	1.805	
11,704	4719	12,487	4900	185	190	106.09	-5739	5017	651	290	360.95	1.804	
11,800	4719	12,582	4899	187	192	106.07	-5806	5085	652	286	365.55	1.783	
11,804	4719	12,587	4899	187	192	106.07	-5810	5088	652	286	365.76	1.782	
11,900	4718	12,682	4898	189	195	106.05	-5877	5156	652	282	370.37	1.762	
11,904	4718	12,687	4898	190	195	106.05	-5880	5160	653	282	370.58	1.761	
12,000	4717	12,782	4898	192	197	106.03	-5947	5227	653	278	375.19	1.741	
12,004	4717	12,787	4898	192	197	106.03	-5950	5231	653	278	375.41	1.740	
12,100	4717	12,882	4897	194	200	106.01	-6017	5299	654	274	380.01	1.721	
12,104	4717	12,887	4897	195	200	106.01	-6020	5302	654	274	380.23	1.720	

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Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
12,200	4716	12,982	4896	197	202	105.99	-6087	5370	655	270	384.83	1.701	
12,204	4716	12,987	4896	197	202	105.99	-6090	5373	655	270	385.05	1.700	
12,300	4715	13,082	4896	199	205	105.97	-6157	5441	655	266	389.66	1.682	
12,301	4715	13,083	4896	199	205	105.97	-6158	5442	655	266	389.71	1.682	
12,324	4715	13,106	4895	200	205	105.97	-6174	5458	656	265	390.80	1.678 SF	



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Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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: Reference		0-MWD+IGRF Offset		Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0	0	0	0	0	0	-179.14	-20	0	20						
100	100	100	100	0	0	-179.14	-20	0	20	19	0.46	42.514			
200	200	200	200	1	1	-179.14	-20	0	20	18	1.18	16.670			
300	300	300	300	1	1	-179.14	-20	0	20	18	1.90	10.367			
400	400	400	400	1	1	-179.14	-20	0	20	17	2.61	7.523			
425	425	425	425	1	1	-179.14	-20	0	20	17	2.79	7.040			
500	500	500	500	2	2	52.06	-20	-1	19	16	3.31	5.864			
537	537	537	537	2	2	58.08	-20	-2	19	16	3.56	5.418	CC, ES		
600	600	599	599	2	2	73.42	-21	-5	20	16	3.99	5.018			
700	700	698	697	2	2	101.51	-24	-12	27	22	4.68	5.713			
782	781	777	776	3	3	117.55	-27	-21	39	33	5.26	7.372			
800	799	795	794	3	3	120.15	-28	-23	42	37	5.39	7.826			
900	898	890	888	3	3	128.68	-33	-36	64	57	6.08	10.448			
1000	997	985	982	4	3	132.29	-38	-51	89	82	6.79	13.067			
1100	1097	1082	1076	4	4	134.20	-45	-68	115	107	7.52	15.276			
1200	1196	1178	1171	4	4	135.39	-51	-85	141	133	8.25	17.097			
1300	1295	1275	1266	5	5	136.22	-57	-102	167	158	9.00	18.596			
1400	1394	1371	1361	5	5	136.82	-63	-119	194	184	9.75	19.862			
1500	1494	1467	1455	6	6	137.27	-69	-136	220	209	10.50	20.940			
1600	1593	1564	1550	6	6	137.63	-76	-153	246	235	11.26	21.868			
1700	1692	1660	1645	6	7	137.92	-82	-170	273	261	12.02	22.674			
1800	1791	1757	1740	7	7	138.16	-88	-187	299	286	12.78	23.381			
1900	1890	1853	1835	7	8	138.36	-94	-203	325	312	13.55	24.005			
2000	1990	1950	1929	8	8	138.53	-100	-220	352	337	14.32	24.560			
2100	2089	2046	2024	8	9	138.67	-107	-237	378	363	15.08	25.057			
2200	2188	2143	2119	9	9	138.80	-113	-254	404	388	15.85	25.504			
2300	2287	2239	2214	9	10	138.91	-119	-271	431	414	16.62	25.908			
2400	2387	2336	2308	9	10	139.01	-125	-288	457	440	17.39	26.275			
2500	2486	2432	2403	10	10	139.10	-131	-305	483	465	18.16	26.610			
2600	2585	2529	2498	10	11	139.18	-138	-322	510	491	18.94	26.916			
2700	2684	2625	2593	11	11	139.25	-144	-338	536	516	19.71	27.198			
2800	2783	2721	2687	11	12	139.31	-150	-355	562	542	20.48	27.458			
2900	2883	2818	2782	12	12	139.37	-156	-372	589	567	21.26	27.698			
3000	2982	2914	2877	12	13	139.43	-162	-389	615	593	22.03	27.921			
3100	3081	3011	2972	12	13	139.47	-169	-406	641	619	22.80	28.129			
3200	3180	3107	3067	13	14	139.52	-175	-423	668	644	23.58	28.322			
3300	3280	3204	3161	13	14	139.56	-181	-440	694	670	24.35	28.502			
3400	3379	3300	3256	14	15	139.60	-187	-457	721	695	25.13	28.672			
3500	3478	3397	3351	14	15	139.64	-193	-474	747	721	25.91	28.830			
3600	3577	3493	3446	15	16	139.67	-200	-490	773	747	26.68	28.979			
3700	3676	3590	3540	15	16	139.70	-206	-507	800	772	27.46	29.120			
3800	3776	3686	3635	15	17	139.73	-212	-524	826	798	28.23	29.252			
3900	3875	3783	3730	16	17	139.76	-218	-541	852	823	29.01	29.378			
4000	3974	3879	3825	16	18	139.78	-224	-558	879	849	29.79	29.496			
4100	4073	5104	4580	17	23	96.07	-793	-171	858	828	30.03	28.555			
4200	4173	5116	4580	17	23	95.11	-801	-162	803	771	32.50	24.714			
4300	4272	5128	4580	18	23	94.15	-810	-154	758	723	35.00	21.656			
4316	4288	5130	4580	18	23	94.00	-811	-153	751	716	35.40	21.230			
4350	4321	5135	4580	18	23	94.78	-814	-149	739	703	36.23	20.408			
4400	4370	5146	4580	18	23	95.46	-822	-141	724	686	37.48	19.312			
4450	4417	5161	4580	18	23	95.49	-833	-130	712	673	38.76	18.366			
4500	4463	5181	4579	19	24	94.89	-847	-116	703	663	40.03	17.562			

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Reference Well:	130H	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		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4550	4507	5205	4579	19	24	93.73	-864	-99	697	656	41.29	16.890		
4600	4548	5233	4579	20	24	92.10	-884	-79	695	652	42.52	16.339		
4630	4572	5252	4579	20	25	90.92	-897	-66	694	651	43.26	16.050		
4650	4587	5264	4579	20	25	90.10	-906	-57	694	651	43.73	15.880		
4700	4622	5299	4579	21	25	87.85	-931	-32	696	651	44.95	15.488		
4750	4654	5338	4578	21	26	85.48	-957	-5	699	653	46.19	15.144		
4800	4683	5378	4578	22	27	83.12	-986	24	704	656	47.46	14.826		
4850	4707	5422	4578	23	28	80.90	-1017	55	708	659	48.79	14.515		
4900	4728	5467	4577	23	28	78.92	-1049	87	713	663	50.20	14.200		
4950	4744	5514	4577	24	29	77.26	-1082	120	717	665	51.70	13.870		
5000	4756	5563	4577	25	30	76.00	-1116	155	721	667	53.30	13.519		
5050	4763	5612	4576	26	31	75.17	-1151	190	723	668	55.00	13.146		
5060	4764	5622	4576	26	31	75.06	-1158	197	723	668	55.35	13.069		
5100	4766	5662	4576	27	32	74.80	-1186	225	724	668	56.80	12.752		
5102	4766	5664	4576	27	32	74.80	-1187	226	724	668	56.87	12.738		
5109	4766	5671	4576	27	32	74.79	-1193	232	725	667	57.16	12.676		
5130	4766	5692	4576	27	33	74.79	-1207	246	725	667	57.92	12.513		
5200	4765	5762	4575	28	34	74.81	-1257	296	725	665	60.62	11.968		
5222	4765	5784	4575	29	35	74.81	-1272	312	726	664	61.49	11.803		
5300	4765	5862	4575	30	36	74.83	-1327	367	727	662	64.57	11.252		
5322	4764	5884	4574	31	37	74.83	-1343	383	727	661	65.47	11.102		
5400	4764	5962	4574	32	39	74.85	-1397	438	728	659	68.63	10.601		
5422	4764	5984	4574	33	39	74.86	-1413	454	728	658	69.55	10.464		
5500	4763	6062	4573	34	41	74.87	-1468	509	729	656	72.80	10.009		
5522	4763	6084	4573	35	41	74.88	-1484	525	729	655	73.74	9.885		
5600	4763	6162	4572	37	43	74.90	-1538	580	730	653	77.04	9.472		
5622	4762	6184	4572	37	44	74.90	-1554	596	730	652	77.99	9.359		
5700	4762	6262	4572	39	45	74.92	-1609	651	731	649	81.35	8.983		
5722	4762	6284	4572	39	46	74.92	-1625	666	731	649	82.32	8.881		
5800	4761	6362	4571	41	48	74.94	-1679	722	732	646	85.72	8.538		
5822	4761	6384	4571	41	48	74.94	-1695	737	732	645	86.70	8.444		
5900	4760	6462	4570	43	50	74.96	-1750	793	733	643	90.13	8.131		
5922	4760	6484	4570	44	50	74.97	-1765	808	733	642	91.12	8.046		
6000	4760	6562	4570	45	52	74.98	-1820	864	734	639	94.59	7.759		
6022	4760	6584	4569	46	53	74.99	-1836	879	734	639	95.59	7.681		
6100	4759	6662	4569	48	55	75.01	-1891	935	735	636	99.09	7.418		
6122	4759	6684	4569	48	55	75.01	-1906	950	735	635	100.09	7.346		
6200	4758	6762	4568	50	57	75.03	-1961	1005	736	632	103.61	7.104		
6222	4758	6784	4568	51	57	75.03	-1977	1021	736	632	104.62	7.038		
6300	4758	6862	4567	52	59	75.05	-2032	1076	737	629	108.17	6.815		
6322	4757	6884	4567	53	60	75.05	-2047	1092	737	628	109.18	6.754		
6400	4757	6962	4567	55	62	75.07	-2102	1147	738	625	112.75	6.548		
6422	4757	6984	4567	55	62	75.07	-2118	1163	738	625	113.77	6.491		
6500	4756	7062	4566	57	64	75.09	-2173	1218	739	622	117.35	6.300		
6522	4756	7084	4566	58	64	75.10	-2188	1234	740	621	118.37	6.248		
6600	4755	7162	4565	59	66	75.11	-2243	1289	740	618	121.97	6.070		
6622	4755	7184	4565	60	67	75.12	-2259	1305	741	618	122.99	6.021		
6700	4755	7262	4565	62	69	75.13	-2313	1360	741	615	126.60	5.856		
6722	4755	7284	4564	62	69	75.14	-2329	1376	742	614	127.63	5.811		
6800	4754	7362	4564	64	71	75.16	-2384	1431	742	611	131.25	5.657		
6822	4754	7384	4564	65	72	75.16	-2400	1447	743	610	132.29	5.614		
6900	4753	7462	4563	67	74	75.18	-2454	1502	744	608	135.92	5.471		

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Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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
6922	4753	7484	4563	67	74	75.18	-2470	1518	744	607	136.96	5.431
7000	4753	7562	4562	69	76	75.20	-2525	1573	745	604	140.60	5.296
7022	4752	7584	4562	69	76	75.20	-2540	1589	745	603	141.64	5.259
7100	4752	7662	4562	71	78	75.22	-2595	1644	746	600	145.29	5.132
7122	4752	7684	4562	72	79	75.22	-2611	1660	746	600	146.33	5.098
7200	4751	7762	4561	74	81	75.24	-2666	1715	747	597	149.99	4.979
7222	4751	7784	4561	74	81	75.25	-2681	1731	747	596	151.03	4.946
7300	4751	7862	4560	76	83	75.26	-2736	1786	748	593	154.70	4.834
7322	4750	7884	4560	77	84	75.27	-2752	1802	748	592	155.75	4.803
7400	4750	7962	4560	79	86	75.28	-2807	1857	749	589	159.42	4.698
7422	4750	7984	4559	79	86	75.29	-2822	1873	749	589	160.47	4.668
7500	4749	8062	4559	81	88	75.30	-2877	1928	750	586	164.15	4.569
7522	4749	8084	4559	82	89	75.31	-2893	1944	750	585	165.19	4.541
7600	4748	8162	4558	83	90	75.32	-2948	1999	751	582	168.88	4.447
7622	4748	8184	4558	84	91	75.33	-2963	2014	751	581	169.93	4.421
7700	4748	8262	4557	86	93	75.35	-3018	2070	752	578	173.62	4.332
7722	4748	8284	4557	86	93	75.35	-3034	2085	752	578	174.67	4.307
7800	4747	8362	4557	88	95	75.37	-3089	2141	753	575	178.37	4.222
7822	4747	8384	4557	89	96	75.37	-3104	2156	753	574	179.42	4.199
7900	4746	8462	4556	91	98	75.39	-3159	2212	754	571	183.12	4.119
7922	4746	8484	4556	91	98	75.39	-3175	2227	754	570	184.18	4.096
8000	4746	8562	4555	93	100	75.41	-3229	2283	755	567	187.88	4.020
8022	4745	8584	4555	94	101	75.41	-3245	2298	756	567	188.94	3.999
8100	4745	8662	4555	96	103	75.43	-3300	2353	756	564	192.65	3.926
8122	4745	8684	4554	96	103	75.43	-3316	2369	757	563	193.70	3.906
8200	4744	8762	4554	98	105	75.45	-3370	2424	757	560	197.42	3.837
8222	4744	8784	4554	99	106	75.45	-3386	2440	758	559	198.47	3.817
8300	4743	8862	4553	101	108	75.47	-3441	2495	758	556	202.19	3.751
8322	4743	8884	4553	101	108	75.47	-3456	2511	759	555	203.25	3.733
8400	4743	8962	4552	103	110	75.49	-3511	2566	760	553	206.97	3.670
8422	4743	8984	4552	104	111	75.49	-3527	2582	760	552	208.03	3.652
8500	4742	9062	4552	105	112	75.51	-3582	2637	761	549	211.75	3.592
8522	4742	9084	4552	106	113	75.51	-3597	2653	761	548	212.81	3.575
8600	4741	9162	4551	108	115	75.53	-3652	2708	762	545	216.53	3.518
8622	4741	9184	4551	108	115	75.53	-3668	2724	762	544	217.60	3.502
8700	4741	9262	4550	110	117	75.55	-3723	2779	763	541	221.32	3.446
8722	4740	9284	4550	111	118	75.55	-3738	2795	763	541	222.39	3.431
8800	4740	9362	4550	113	120	75.57	-3793	2850	764	538	226.12	3.378
8822	4740	9384	4549	113	120	75.57	-3809	2866	764	537	227.18	3.363
8900	4739	9462	4549	115	122	75.59	-3864	2921	765	534	230.91	3.312
8922	4739	9484	4549	116	123	75.60	-3879	2937	765	533	231.98	3.298
9000	4738	9562	4548	118	125	75.61	-3934	2992	766	530	235.71	3.249
9022	4738	9584	4548	118	125	75.62	-3950	3008	766	529	236.78	3.236
9100	4738	9662	4548	120	127	75.63	-4005	3063	767	526	240.51	3.189
9122	4738	9684	4547	121	128	75.64	-4020	3079	767	526	241.58	3.176
9200	4737	9762	4547	123	130	75.65	-4075	3134	768	523	245.32	3.131
9222	4737	9784	4547	123	130	75.66	-4091	3150	768	522	246.38	3.118
9300	4736	9862	4546	125	132	75.67	-4145	3205	769	519	250.13	3.075
9322	4736	9884	4546	126	133	75.67	-4161	3221	769	518	251.19	3.063
9400	4736	9962	4545	128	135	75.69	-4216	3276	770	515	254.94	3.021
9422	4736	9984	4545	128	135	75.69	-4231	3291	770	514	256.00	3.010
9500	4735	10,062	4545	130	137	75.71	-4286	3347	771	512	259.75	2.969

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Well Error:	0 ft	Output errors are at	2.00 sigma
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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)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9522	4735	10,084	4544	131	138	75.71	-4302	3362	772	511	260.82	2.958	
9600	4734	10,162	4544	133	140	75.73	-4357	3418	772	508	264.57	2.919	
9622	4734	10,184	4544	133	140	75.73	-4372	3433	773	507	265.63	2.908	
9700	4734	10,262	4543	135	142	75.75	-4427	3489	773	504	269.38	2.871	
9722	4733	10,284	4543	136	143	75.75	-4443	3504	774	503	270.45	2.861	
9800	4733	10,362	4543	137	144	75.77	-4498	3560	774	500	274.20	2.824	
9822	4733	10,384	4542	138	145	75.77	-4513	3575	775	499	275.27	2.814	
9900	4732	10,462	4542	140	147	75.79	-4568	3631	776	497	279.02	2.780	
9922	4732	10,484	4542	140	147	75.79	-4584	3646	776	496	280.09	2.770	
10,000	4731	10,562	4541	142	149	75.81	-4639	3701	777	493	283.85	2.736	
10,022	4731	10,584	4541	143	150	75.81	-4654	3717	777	492	284.91	2.727	
10,100	4731	10,662	4540	145	152	75.83	-4709	3772	778	489	288.67	2.694	
10,122	4731	10,684	4540	145	152	75.83	-4725	3788	778	488	289.74	2.685	
10,200	4730	10,762	4540	147	154	75.85	-4780	3843	779	485	293.50	2.653	
10,222	4730	10,784	4540	148	155	75.85	-4795	3859	779	484	294.57	2.645	
10,300	4729	10,862	4539	150	157	75.87	-4850	3914	780	481	298.33	2.614	
10,322	4729	10,884	4539	150	157	75.87	-4866	3930	780	481	299.40	2.605	
10,400	4729	10,962	4538	152	159	75.89	-4920	3985	781	478	303.16	2.576	
10,422	4728	10,984	4538	153	160	75.89	-4936	4001	781	477	304.23	2.568	
10,500	4728	11,062	4538	155	162	75.91	-4991	4056	782	474	307.99	2.539	
10,522	4728	11,084	4537	155	162	75.91	-5007	4072	782	473	309.06	2.531	
10,600	4727	11,162	4537	157	164	75.92	-5061	4127	783	470	312.83	2.503	
10,622	4727	11,184	4537	158	165	75.93	-5077	4143	783	469	313.90	2.495	
10,700	4726	11,262	4536	160	167	75.94	-5132	4198	784	466	317.66	2.468	
10,722	4726	11,284	4536	160	167	75.95	-5147	4214	784	466	318.73	2.461	
10,800	4726	11,362	4535	162	169	75.96	-5202	4269	785	463	322.50	2.435	
10,822	4726	11,384	4535	163	170	75.97	-5218	4285	785	462	323.57	2.427	
10,900	4725	11,462	4535	165	172	75.98	-5273	4340	786	459	327.34	2.402	
10,922	4725	11,484	4535	165	172	75.99	-5288	4356	786	458	328.41	2.395	
11,000	4724	11,562	4534	167	174	76.00	-5343	4411	787	455	332.18	2.370	
11,022	4724	11,584	4534	168	175	76.00	-5359	4427	788	454	333.25	2.363	
11,100	4724	11,662	4533	170	177	76.02	-5414	4482	788	451	337.02	2.339	
11,122	4723	11,684	4533	170	177	76.02	-5429	4498	789	451	338.09	2.333	
11,200	4723	11,762	4533	172	179	76.04	-5484	4553	789	448	341.87	2.309	
11,222	4723	11,784	4532	173	180	76.04	-5500	4569	790	447	342.94	2.303	
11,300	4722	11,862	4532	175	181	76.06	-5555	4624	791	444	346.71	2.280	
11,322	4722	11,884	4532	175	182	76.06	-5570	4639	791	443	347.78	2.274	
11,400	4722	11,962	4531	177	184	76.08	-5625	4695	792	440	351.56	2.252	
11,422	4721	11,984	4531	178	184	76.08	-5641	4710	792	439	352.63	2.245	
11,500	4721	12,062	4530	180	186	76.09	-5696	4766	793	436	356.40	2.224	
11,522	4721	12,084	4530	180	187	76.10	-5711	4781	793	435	357.47	2.218	
11,600	4720	12,162	4530	182	189	76.11	-5766	4837	794	432	361.25	2.197	
11,622	4720	12,184	4530	183	189	76.12	-5782	4852	794	432	362.32	2.191	
11,700	4719	12,262	4529	184	191	76.13	-5836	4908	795	429	366.10	2.171	
11,722	4719	12,284	4529	185	192	76.14	-5852	4923	795	428	367.17	2.165	
11,800	4719	12,362	4528	187	194	76.15	-5907	4979	796	425	370.95	2.145	
11,822	4719	12,384	4528	188	194	76.15	-5922	4994	796	424	372.02	2.140	
11,900	4718	12,462	4528	189	196	76.17	-5977	5050	797	421	375.80	2.121	
11,922	4718	12,484	4527	190	197	76.17	-5993	5065	797	420	376.88	2.115	
12,000	4717	12,562	4527	192	199	76.19	-6048	5120	798	417	380.66	2.096	
12,022	4717	12,584	4527	192	199	76.19	-6063	5136	798	416	381.73	2.091	
12,100	4717	12,662	4526	194	201	76.21	-6118	5191	799	414	385.51	2.073	

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
12,122	4716	12,684	4526	195	202	76.21	-6134	5207	799	413	386.58	2.068	
12,200	4716	12,762	4525	197	204	76.22	-6189	5262	800	410	390.37	2.050	
12,222	4716	12,784	4525	197	204	76.23	-6204	5278	800	409	391.44	2.045	
12,300	4715	12,862	4525	199	206	76.24	-6259	5333	801	406	395.22	2.027	
12,305	4715	12,867	4525	200	206	76.24	-6263	5337	801	406	395.48	2.026	
12,324	4715	12,885	4525	200	207	76.25	-6276	5350	801	405	396.37	2.022 SF	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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 - April Surprise 9 - OH - OH													Offset Site Error:	0 ft
Survey Program: 94-INCLINOMETER													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	126.85	-1489	1987	2484					
100	100	27	27	0	1	126.85	-1489	1987	2483	2482	1.13	2,200.468		
200	200	127	127	1	4	126.85	-1489	1987	2483	2478	4.52	548.877		
300	300	227	227	1	7	126.85	-1489	1987	2483	2475	7.92	313.543		
337	337	264	264	1	8	126.83	-1488	1987	2483	2473	9.18	270.481		
400	400	322	322	1	10	126.83	-1488	1987	2483	2471	11.17	222.347		
425	425	345	345	1	10	126.84	-1488	1987	2483	2471	11.96	207.595		
500	500	427	427	2	13	-6.78	-1489	1987	2482	2467	14.70	168.837		
600	600	527	527	2	16	-6.80	-1489	1987	2478	2460	18.07	137.089		
700	700	627	627	2	19	-6.84	-1489	1987	2470	2448	21.45	115.155		
782	781	704	704	3	21	-6.90	-1488	1987	2460	2436	24.08	102.169		
800	799	721	721	3	22	-6.91	-1488	1987	2458	2434	24.67	99.641		
900	898	815	815	3	25	-6.93	-1489	1987	2446	2418	27.86	87.788		
1000	997	925	924	4	28	-6.96	-1489	1987	2434	2402	31.55	77.141		
1100	1097	1023	1023	4	31	-7.01	-1488	1987	2421	2386	34.89	69.395		
1200	1196	1115	1115	4	34	-7.04	-1489	1987	2409	2371	38.04	63.329		
1300	1295	1222	1222	5	37	-7.07	-1489	1987	2397	2355	41.67	57.528		
1400	1394	1321	1321	5	40	-7.11	-1489	1987	2385	2340	45.04	52.945		
1500	1494	1420	1420	6	43	-7.15	-1489	1987	2372	2324	48.40	49.012		
1600	1593	1518	1518	6	46	-7.18	-1489	1987	2360	2308	51.74	45.615		
1700	1692	1619	1619	6	49	-7.22	-1489	1987	2348	2293	55.17	42.554		
1800	1791	1718	1718	7	52	-7.26	-1489	1987	2335	2277	58.55	39.889		
1900	1890	1818	1817	7	55	-7.30	-1489	1987	2323	2261	61.93	37.514		
2000	1990	1912	1912	8	58	-7.35	-1488	1987	2310	2245	65.15	35.459		
2100	2089	2006	2006	8	61	-7.38	-1489	1987	2298	2230	68.38	33.611		
2200	2188	2115	2115	9	64	-7.42	-1489	1987	2286	2214	72.06	31.724		
2300	2287	2215	2214	9	67	-7.46	-1489	1987	2274	2198	75.44	30.140		
2400	2387	2312	2312	9	70	-7.50	-1488	1987	2261	2183	78.78	28.704		
2500	2486	2409	2409	10	73	-7.54	-1489	1987	2249	2167	82.08	27.400		
2600	2585	2512	2512	10	76	-7.58	-1489	1987	2237	2151	85.58	26.137		
2700	2684	2611	2611	11	79	-7.62	-1489	1987	2225	2136	88.96	25.006		
2800	2783	2711	2710	11	82	-7.66	-1489	1987	2212	2120	92.34	23.957		
2900	2883	2807	2807	12	85	-7.72	-1488	1987	2200	2104	95.64	22.998		
3000	2982	2903	2903	12	88	-7.76	-1489	1987	2187	2089	98.93	22.112		
3100	3081	3008	3008	12	91	-7.79	-1489	1987	2175	2073	102.49	21.226		
3200	3180	3108	3107	13	94	-7.84	-1489	1987	2163	2057	105.87	20.432		
3300	3280	3207	3206	13	97	-7.91	-1488	1987	2150	2041	109.24	19.683		
3400	3379	3301	3301	14	100	-7.95	-1488	1987	2138	2026	112.49	19.006		
3500	3478	3396	3396	14	103	-7.98	-1489	1987	2126	2010	115.74	18.370		
3600	3577	3505	3504	15	106	-8.02	-1489	1987	2114	1994	119.40	17.705		
3700	3676	3604	3603	15	109	-8.07	-1489	1987	2102	1979	122.78	17.117		
3800	3776	3702	3701	15	112	-8.13	-1488	1987	2089	1963	126.12	16.564		
3900	3875	3799	3798	16	115	-8.17	-1489	1987	2077	1947	129.43	16.046		
4000	3974	3902	3901	16	118	-8.22	-1489	1987	2065	1932	132.92	15.533		
4100	4073	4001	4000	17	121	-8.26	-1489	1987	2052	1916	136.30	15.058		
4200	4173	4100	4100	17	125	-8.32	-1489	1987	2040	1900	139.69	14.604		
4300	4272	4198	4198	18	127	-8.37	-1489	1987	2028	1885	143.04	14.176		
4316	4288	4214	4214	18	128	-8.38	-1489	1987	2026	1882	143.58	14.108		
4350	4321	4247	4247	18	129	-8.67	-1489	1987	2021	1876	144.71	13.963		
4400	4370	4295	4295	18	130	-9.03	-1489	1987	2009	1863	146.37	13.728		
4450	4417	4345	4344	18	132	-9.45	-1489	1987	1994	1846	148.07	13.464		
4500	4463	4390	4390	19	133	-9.98	-1489	1987	1974	1824	149.66	13.188		

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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 - April Surprise 9 - OH - OH												Offset Site Error:	0 ft
Survey Program: 94-INCLINOMETER												Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4550	4507	4434	4434	19	135	-10.65	-1489	1987	1950	1799	151.18	12.897	
4600	4548	4475	4475	20	136	-11.51	-1489	1987	1922	1769	152.63	12.592	
4650	4587	4514	4514	20	137	-12.61	-1489	1987	1891	1737	153.98	12.278	
4700	4622	4549	4549	21	138	-14.07	-1488	1987	1855	1700	155.23	11.952	
4750	4654	4581	4580	21	139	-15.94	-1488	1987	1818	1661	156.35	11.626	
4800	4683	4608	4608	22	140	-18.46	-1488	1987	1777	1620	157.34	11.295	
4850	4707	4632	4632	23	141	-21.93	-1488	1987	1734	1576	158.21	10.963	
4900	4728	4652	4652	23	141	-26.89	-1488	1987	1690	1531	158.95	10.630	
4950	4744	4668	4668	24	142	-34.27	-1488	1987	1643	1484	159.55	10.299	
5000	4756	4680	4679	25	142	-45.68	-1488	1987	1596	1436	160.02	9.971	
5050	4763	4687	4687	26	142	-63.18	-1489	1987	1547	1387	160.34	9.649	
5100	4766	4690	4690	27	142	-86.62	-1489	1987	1498	1338	160.52	9.334	
5109	4766	4690	4690	27	142	-91.27	-1489	1987	1489	1329	160.54	9.275	
5200	4765	4690	4689	28	142	-91.21	-1489	1987	1401	1240	160.73	8.714	
5300	4765	4689	4689	30	142	-91.13	-1489	1987	1303	1142	161.01	8.095	
5400	4764	4689	4688	32	142	-91.06	-1489	1987	1206	1045	161.38	7.476	
5500	4763	4688	4688	34	142	-90.98	-1489	1987	1110	948	161.90	6.857	
5600	4763	4688	4688	37	142	-90.91	-1489	1987	1015	852	162.60	6.240	
5700	4762	4688	4687	39	142	-90.83	-1489	1987	920	756	163.55	5.625	
5800	4761	4687	4687	41	142	-90.76	-1489	1987	827	662	164.87	5.014	
5900	4760	4687	4686	43	142	-90.68	-1489	1987	735	568	166.68	4.409	
6000	4760	4686	4686	45	142	-90.61	-1489	1987	646	477	169.20	3.817	
6100	4759	4686	4686	48	142	-90.53	-1489	1987	560	388	172.68	3.245	
6200	4758	4686	4685	50	142	-90.45	-1489	1987	480	303	177.46	2.708	
6300	4758	4685	4685	52	142	-90.38	-1489	1987	410	226	183.76	2.229	
6400	4757	4685	4684	55	142	-90.30	-1489	1987	353	162	191.28	1.846	
6500	4756	4684	4684	57	142	-90.22	-1489	1987	319	121	198.18	1.608	
6566	4756	4684	4684	59	142	-90.17	-1489	1987	312	111	200.82	1.553 CC, ES, SF	
6600	4755	4684	4683	59	142	-90.14	-1489	1987	314	113	201.30	1.559	
6700	4755	4683	4683	62	142	-90.06	-1488	1987	340	140	199.38	1.704	
6800	4754	4683	4683	64	142	-89.99	-1488	1987	390	196	194.61	2.005	
6900	4753	4683	4682	67	142	-89.91	-1488	1987	457	268	189.44	2.414	
7000	4753	4682	4682	69	142	-89.83	-1488	1987	535	350	184.96	2.892	
7100	4752	4682	4681	71	142	-89.75	-1488	1987	619	437	181.35	3.412	
7200	4751	4681	4681	74	142	-89.67	-1488	1987	707	529	178.51	3.961	
7300	4751	4681	4680	76	142	-89.59	-1488	1987	798	622	176.25	4.527	
7400	4750	4680	4680	79	142	-89.51	-1488	1987	891	716	174.46	5.107	
7500	4749	4680	4680	81	142	-89.43	-1488	1987	985	812	173.01	5.694	
7600	4748	4679	4679	83	142	-89.34	-1488	1987	1080	909	171.82	6.288	
7700	4748	4679	4679	86	142	-89.26	-1488	1987	1177	1006	170.84	6.887	
7800	4747	4679	4678	88	142	-89.18	-1488	1987	1273	1103	170.02	7.489	
7900	4746	4678	4678	91	142	-89.10	-1488	1987	1370	1201	169.33	8.093	
8000	4746	4678	4677	93	142	-89.02	-1488	1987	1468	1299	168.74	8.700	
8100	4745	4677	4677	96	142	-88.93	-1488	1987	1566	1398	168.24	9.308	
8200	4744	4677	4676	98	142	-88.85	-1488	1987	1664	1496	167.80	9.916	
8300	4743	4676	4676	101	142	-88.76	-1488	1987	1762	1595	167.42	10.526	
8400	4743	4676	4676	103	142	-88.68	-1488	1987	1861	1694	167.09	11.137	
8500	4742	4675	4675	105	142	-88.60	-1488	1987	1959	1793	166.80	11.748	
8600	4741	4675	4675	108	142	-88.51	-1488	1987	2058	1892	166.54	12.359	
8700	4741	4674	4674	110	142	-88.43	-1488	1987	2157	1991	166.31	12.971	
8800	4740	4674	4674	113	142	-88.34	-1488	1987	2256	2090	166.11	13.583	
8900	4739	4674	4673	115	142	-88.25	-1488	1987	2355	2189	165.93	14.194	

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 130H - Slot 3
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	130H	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 - April Surprise 9 - OH - OH													Offset Site Error: 0 ft	
Survey Program: 94-INCLINOMETER				Offset					Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	
9000	4738	4673	4673	118	142	-88.17	-1488	1987	2454	2289	165.76	14.806		
9100	4738	4673	4672	120	142	-88.08	-1488	1987	2554	2388	165.62	15.418		
9200	4737	4672	4672	123	142	-87.99	-1488	1987	2653	2487	165.49	16.030		
9300	4736	4672	4671	125	142	-87.91	-1488	1987	2752	2587	165.38	16.642		
9400	4736	4671	4671	128	142	-87.82	-1488	1987	2852	2686	165.27	17.254		
9500	4735	4671	4670	130	142	-87.73	-1488	1987	2951	2786	165.18	17.866		
9600	4734	4670	4670	133	142	-87.64	-1488	1987	3050	2885	165.09	18.477		
9700	4734	4670	4669	135	142	-87.55	-1488	1987	3150	2985	165.02	19.088		
9800	4733	4669	4669	137	142	-87.46	-1488	1987	3249	3085	164.95	19.699		
9900	4732	4669	4668	140	142	-87.37	-1488	1987	3349	3184	164.89	20.310		
10,000	4731	4668	4668	142	142	-87.28	-1488	1987	3449	3284	164.84	20.921		
10,100	4731	4668	4667	145	142	-87.19	-1488	1987	3548	3383	164.79	21.531		
10,200	4730	4667	4667	147	142	-87.10	-1488	1987	3648	3483	164.75	22.141		
10,300	4729	4667	4666	150	142	-87.01	-1488	1987	3747	3583	164.72	22.751		
10,400	4729	4666	4666	152	142	-86.92	-1488	1987	3847	3682	164.69	23.360		
10,500	4728	4666	4665	155	142	-86.83	-1488	1987	3947	3782	164.66	23.970		
10,600	4727	4665	4665	157	142	-86.73	-1488	1987	4047	3882	164.64	24.579		
10,700	4726	4665	4664	160	142	-86.64	-1488	1987	4146	3982	164.62	25.187		
10,800	4726	4664	4664	162	142	-86.55	-1488	1987	4246	4081	164.60	25.795		
10,900	4725	4664	4663	165	142	-86.45	-1488	1987	4346	4181	164.59	26.403		
11,000	4724	4663	4663	167	142	-86.36	-1488	1987	4445	4281	164.58	27.011		
11,100	4724	4663	4662	170	142	-86.26	-1488	1987	4545	4381	164.58	27.618		
11,200	4723	4662	4662	172	142	-86.17	-1488	1987	4645	4480	164.57	28.224		
11,300	4722	4662	4661	175	142	-86.07	-1488	1987	4745	4580	164.57	28.831		
11,400	4722	4661	4661	177	142	-85.98	-1488	1987	4845	4680	164.57	29.437		
11,500	4721	4661	4660	180	142	-85.88	-1488	1987	4944	4780	164.58	30.042		
11,600	4720	4660	4660	182	142	-85.78	-1488	1987	5044	4880	164.58	30.647		
11,700	4719	4660	4659	184	142	-85.69	-1488	1987	5144	4979	164.59	31.252		
11,800	4719	4659	4659	187	141	-85.59	-1488	1987	5244	5079	164.60	31.857		
11,900	4718	4658	4658	189	141	-85.49	-1488	1987	5344	5179	164.62	32.460		
12,000	4717	4658	4658	192	141	-85.39	-1488	1987	5443	5279	164.63	33.064		
12,100	4717	4657	4657	194	141	-85.29	-1488	1987	5543	5379	164.65	33.667		
12,200	4716	4657	4656	197	141	-85.19	-1488	1987	5643	5478	164.67	34.270		
12,300	4715	4656	4656	199	141	-85.09	-1488	1987	5743	5578	164.69	34.872		
12,324	4715	4656	4656	200	141	-85.07	-1488	1987	5767	5602	164.69	35.014		

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



Lonestar Consulting, LLC
Anticollision Report

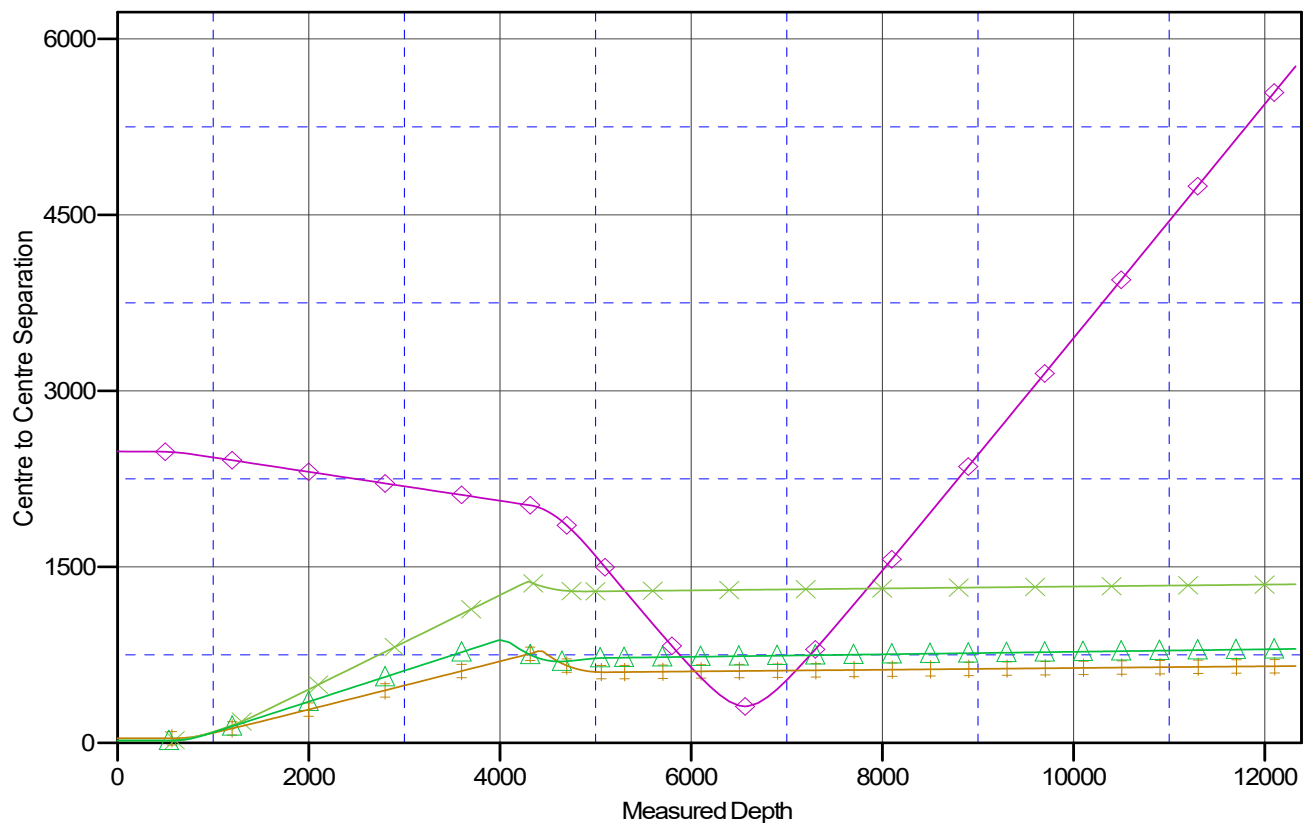


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Reference Depths are relative to GL 6830' & RKB 14' @ 6844ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: 130H - Slot 3
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.00°

Ladder Plot



LEGEND

Apr19Surprise 9.OHO HMD
 129H Original Drilling, APDVO
 124H Original Drilling, APDVO
 144H Original Drilling, APDVO



Lonestar Consulting, LLC

Anticollision Report



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Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6830' & RKB 14' @ 6844ft

Offset Depths are relative to Offset Datum

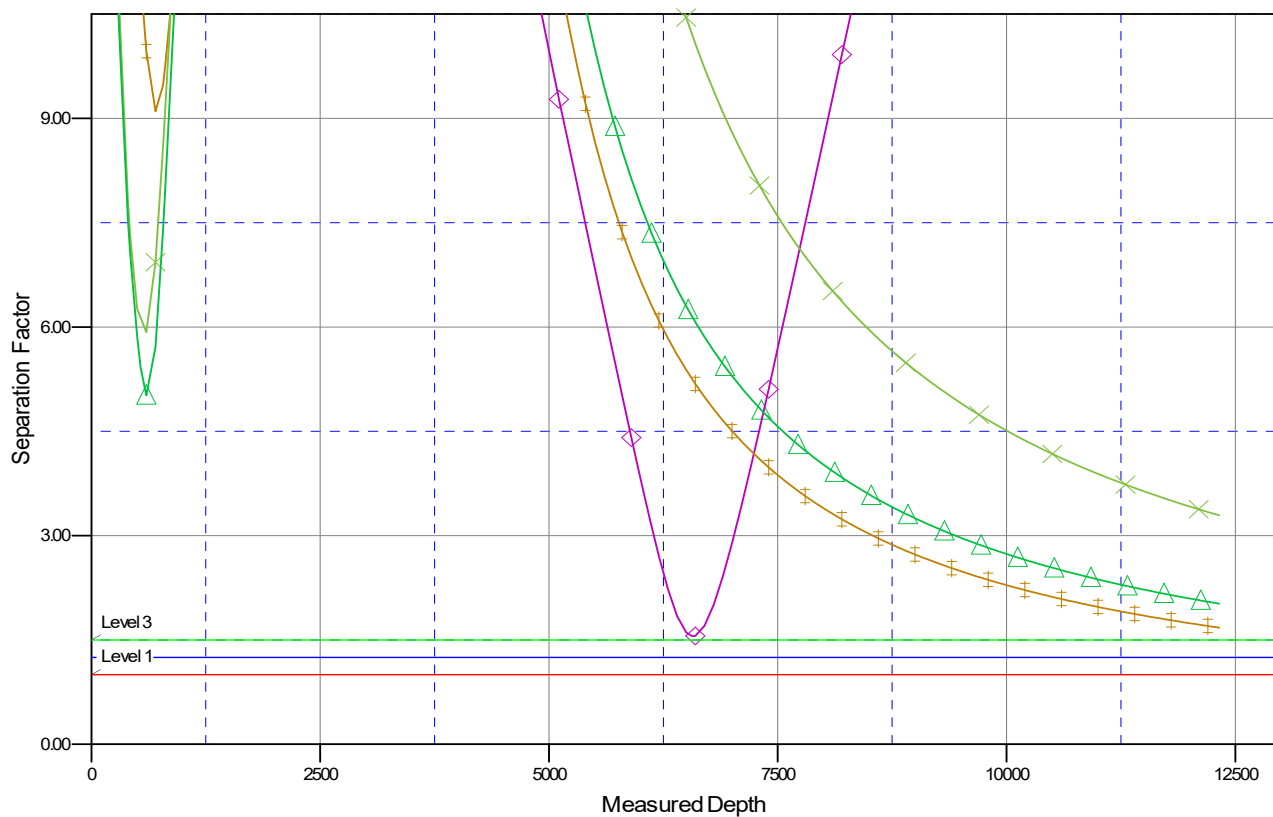
Central Meridian is -107.8333333

Coordinates are relative to: 130H - Slot 3

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

Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

- April Surprise 9, CHO HMD
- 124H Original Drilling, APDVO
- 129H Original Drilling, APDVO
- 144H Original Drilling, APDVO



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
#130H 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 380908

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	380908
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/16/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/16/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/16/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/16/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/16/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/16/2024
ward.rikala	This well can not be produced until the operator is in compliance with Rule 5.9.	9/16/2024