

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. 30-045-38371
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 08/16/2024

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks**Location of Well**

0. SHL: SENW / 2256 FNL / 1702 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.27153 / LONG: -107.833393 (TVD: 0 feet, MD: 0 feet)
PPP: LOT 3 / 2036 FSL / 860 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.268816 / LONG: -107.836246 (TVD: 4759 feet, MD: 5254 feet)
PPP: LOT 2 / 1 FNL / 2364 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.263174 / LONG: -107.829193 (TVD: 4761 feet, MD: 14689 feet)
PPP: LOT 3 / 1 FNL / 2364 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.263174 / LONG: -107.829193 (TVD: 4761 feet, MD: 14689 feet)
PPP: NESE / 1 FSL / 1 FWL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.255911 / LONG: -107.820113 (TVD: 4761 feet, MD: 14689 feet)
PPP: SWSE / 282 FSL / 2650 FEL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.26395 / LONG: -107.830163 (TVD: 4761 feet, MD: 14689 feet)
PPP: SWNW / 2334 FNL / 1 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.256783 / LONG: -107.821203 (TVD: 4761 feet, MD: 14689 feet)
BHL: SESW / 738 FSL / 2235 FWL / TWSP: 23N / RANGE: 9W / SECTION: 5 / LAT: 36.2507069 / LONG: -107.8136102 (TVD: 4761 feet, MD: 14689 feet)

BLM Point of Contact

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

Review and Appeal Rights

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

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number 30-045-38371	Pool Code 5890	Pool Name BISTI LOWER-GALLOP (O)
Property Code 334695	Property Name PONDEROSA F31 2409 FEDERAL COM	Well Number 124H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6830
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
F	31	24N	9W		2256' NORTH	1702' WEST	36.271530° N NAD83	107.833393° W NAD83	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
N	5	23N	9W		738' SOUTH	2235' WEST	36.250707° N NAD83	107.813610° W NAD83	SAN JUAN

Dedicated Acres: SEC 31: LOT 3 & 4, E2/SW & SW/SE(201.33 AC.) SEC 6: LOT 1, 2 & 3, S2/NE, NE/SE (241.36 AC.) SEC 5: SW/NW, SW/4 (200.00 AC.) = 642.69 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:		Well setbacks are under Common Ownwerships: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
	31	24N	9W	3	2036' SOUTH	860' WEST	36.268816° N NAD83	107.836246° W NAD83	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
	31	24N	9W	3	2036' SOUTH	860' WEST	36.268816° N NAD83	107.836246° W NAD83	SAN JUAN

Last Take Point (LTP)

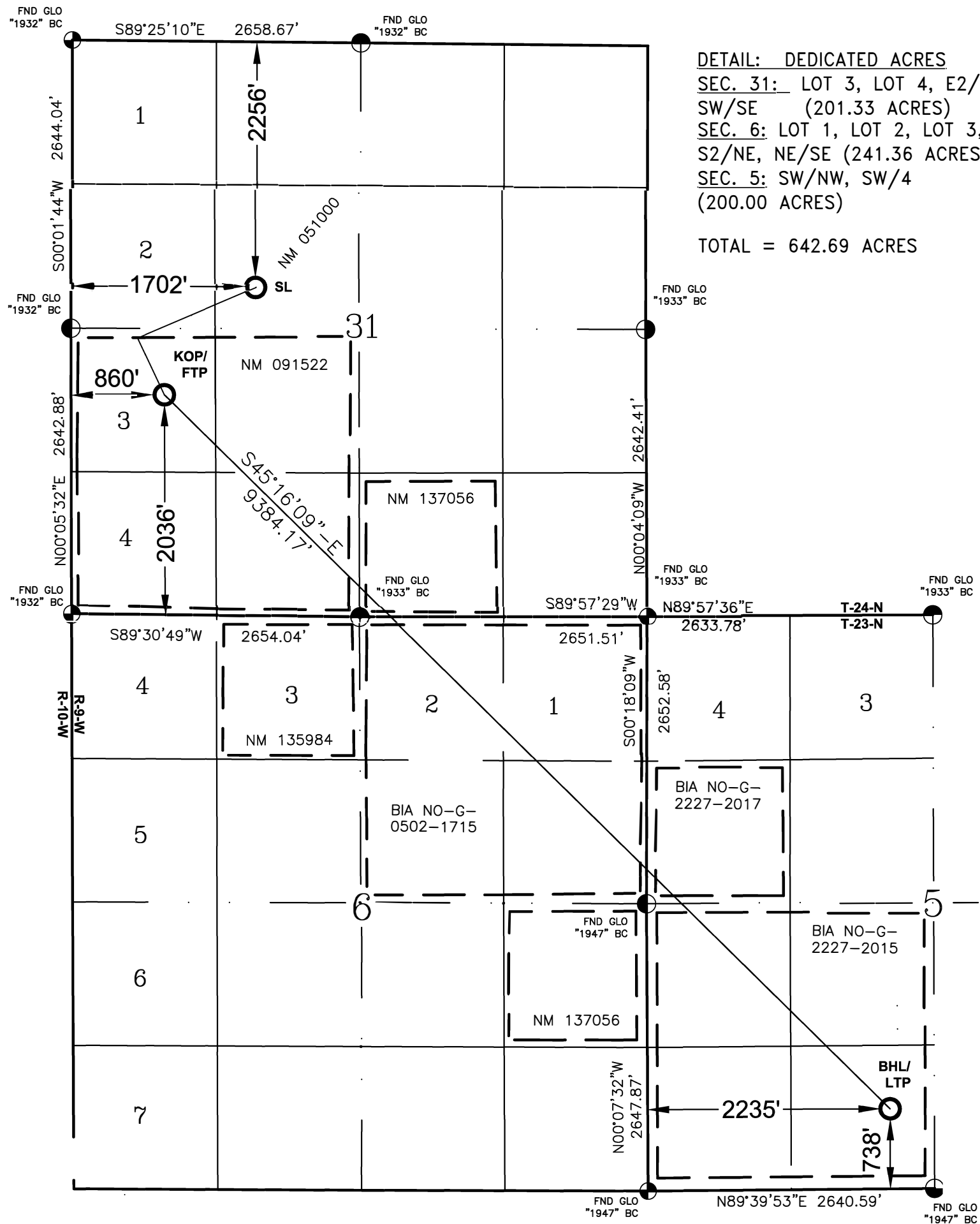
UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
N	5	23N	9W		738' SOUTH	2235' WEST	36.250707° N NAD83	107.813610° W NAD83	SAN JUAN

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 15703</td><td>Date of Survey AUGUST 29, 2024</td></tr></table>	Certificate Number 15703	Date of Survey AUGUST 29, 2024
Certificate Number 15703	Date of Survey AUGUST 29, 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 #124H
P F31 2409 FC



SURFACE LOCATION (SL)
2256' FNL, 1702' FWL
SEC. 31, T24N, R9W
LAT: 36.271530° N
LONG: 107.833393° W NAD83

FIRST TAKE POINT (FTP)
2036' FSL, 860' FWL
SEC. 31, T24N, R9W
LAT: 36.268816° N
LONG: 107.836246° W NAD83

BOTTOM HOLE LOCATION (BHL)
738' FSL, 2235' FWL
SEC. 5, T23N, R9W
LAT: 36.250707° N
LONG: 107.813610° W NAD83

KICK OFF POINT (KOP)
2036' FSL, 860' FWL
SEC. 31, T24N, R9W
LAT: 36.268816° N
LONG: 107.836246° W NAD83

LAST TAKE POINT (LTP)
738' FSL, 2235' FWL
SEC. 5, T23N, R9W
LAT: 36.250707° N
LONG: 107.813610° W NAD83

**DJR OPERATING, LLC
PONDEROSA F31 2409 FEDERAL COM #124H
P F31 2409 FC**

SURFACE LOCATION NM 051000
2256' 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: 36.271530° N LONG: 107.833393° W NAD83

PPP1(FIRST TAKE POINT) NM 091522
2036' FSL, 860' FWL
LOCATED IN LOT3, SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.268816° N LONG: 107.836246° W NAD83

PPP2 NM 137056
282' FSL, 2650' FEL
LOCATED IN THE SW/SE OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263950° N LONG: 107.830163° W NAD83

PPP3 BIA NO-G-0502-1715
1' FNL, 2364' FEL
LOCATED IN LOT 2 OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263174° N LONG: 107.829193° W NAD83

PPP4 BIA NO-G-2227-2017
2334' FNL, 1' FWL
LOCATED IN SW/NW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.256783° N LONG: 107.821203° W NAD83

PPP5 BIA NO-G-2227-2015
2647' FSL, 324' FWL
LOCATED IN THE NW/SW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.255911° N LONG: 107.820113° W NAD83

PPP6 (LAST TAKE POINT) BOTTOM HOLE LOCATION BIA NO-G-2227-2015
738' FSL, 2235' FWL
LOCATED IN THE SE/SW OF SEC. 5, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.250707° N LONG: 107.813610° 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-GALLOP (O)
⁴ Property Code 334695	⁵ Property Name PONDEROSA F31 2409 FEDERAL COM	⁶ Well Number 124H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6830

¹⁰ Surface Location

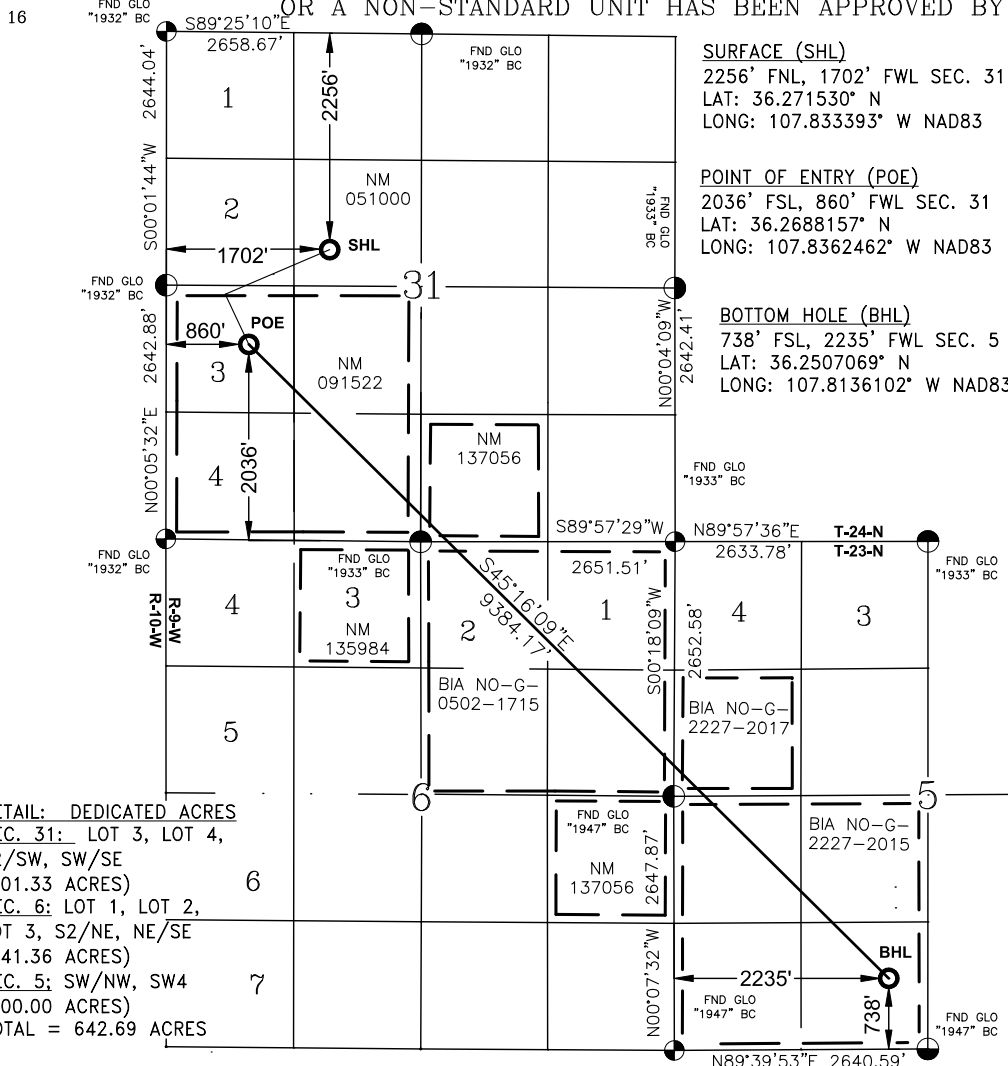
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	31	24-N	9-W		2256	NORTH	1702	WEST	SAN JUAN

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
N	5	23-N	9-W		738	SOUTH	2235	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 12/4/23

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

JULY 23, 2023

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

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

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

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1000 Rio Brazos Rd., Aztec, N.M. 87410
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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 #124H

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

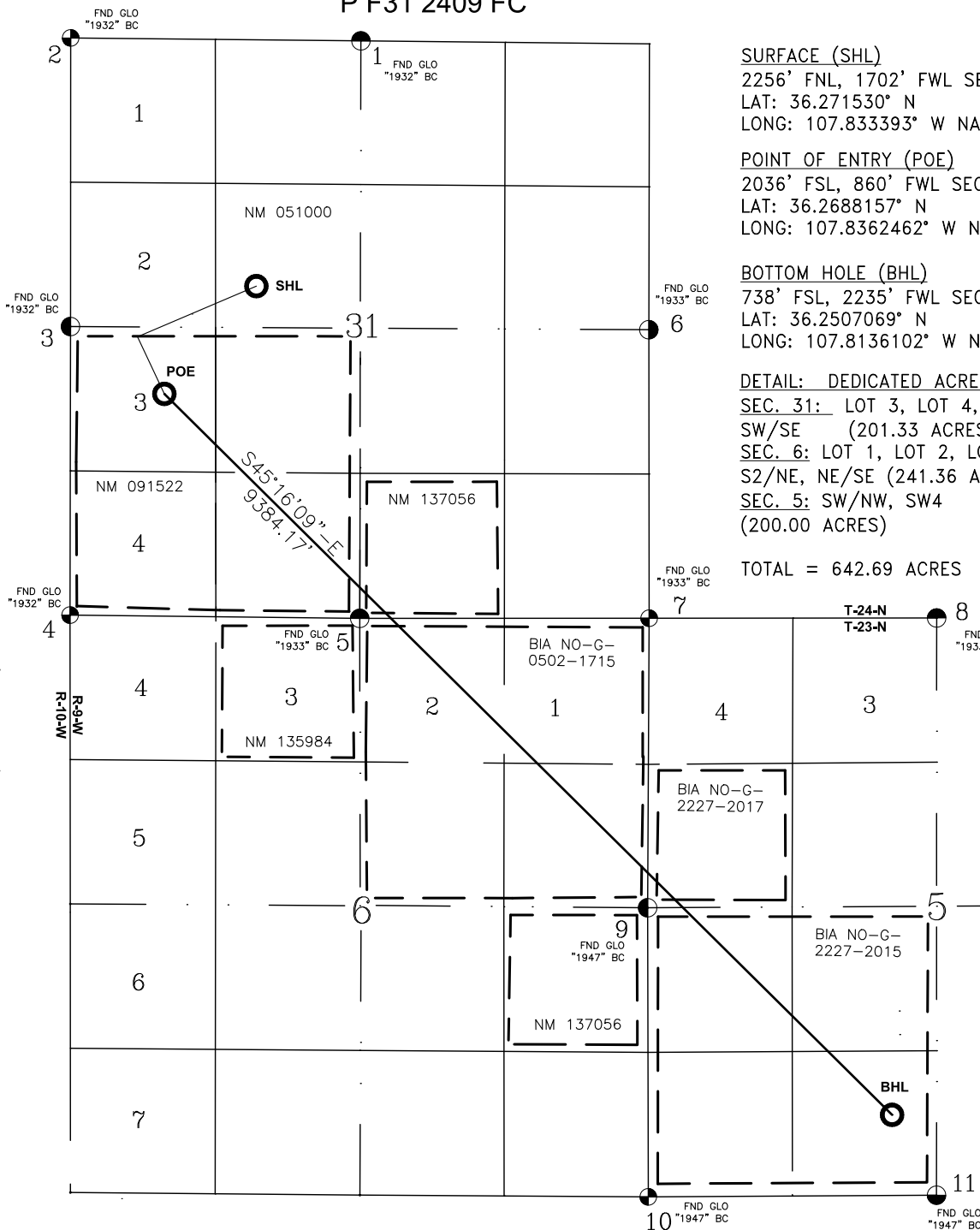
7) SE SEC. 31
LAT: 36.263191° N
LONG: 107.821176° W
NAD83

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)
2256' FNL, 1702' FWL SEC. 31
LAT: 36.271530° N
LONG: 107.833393° W NAD83

POINT OF ENTRY (POE)
2036' FSL, 860' FWL SEC. 31
LAT: 36.2688157° N
LONG: 107.8362462° W NAD83

BOTTOM HOLE (BHL)
738' FSL, 2235' FWL SEC. 5
LAT: 36.2507069° N
LONG: 107.8136102° W NAD83

DETAIL: DEDICATED ACRES
SEC. 31: LOT 3, LOT 4, E2/SW,
 SW/SE (201.33 ACRES)
SEC. 6: LOT 1, LOT 2, LOT 3,
 S2/NE, NE/SE (241.36 ACRES)
SEC. 5: SW/NW, SW4
 (200.00 ACRES)

TOTAL = 642.69 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.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Ponderosa F31 2409 FED COM 124H, 129H, 130H, 144H
SENW F-31-24N-09W

BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 0



DRILLING PLAN

Ponderosa F31 2409 Federal COM #124H

San Juan County, New Mexico

Surface Location

1702-ft FWL & 2256-ft FNL
 Sec 31 T24 R9
 Graded Elevation 6830' MSL
 RKB Elevation 6844' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2715300° N
 Longitude 107.8333930° W

Kick Off Point for Horizontal Build Curve

4376-ft MD
 4177-ft TVD

Local Coordinates (from SHL)

464-ft South
 1089-ft West

Heel Location (Pay zone entry)

860-ft FWL & 2036-ft FSL
 Sec 31 T24 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.26881574° N
 Longitude 107.83624617° W

Bottom Hole Location (TD)

2235-ft FWL & 738-ft FSL
 Sec 5 T23 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.25070686° N
 Longitude 107.8136102° W

Well objectives

This well is planned as a 9380-ft lateral in the Gallup B sand.

Bottom Hole temperature and pressure

The temperature in the Gallup B horizontal objective is 133°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	586	586	Sd	W	8.3	8.4 – 8.8
Kirtland	676	676	Sh	-	8.3	8.4 – 8.8
Fruitland	864	862	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1293	1280	Sd	W	8.3	9.0 - 9.5
Lewis	1432	1411	Sh	-		9.0 - 9.5
Chacra	2072	2013	Sd	-	8.3	9.0 - 9.5
Menefee	2821	2716	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3877	3708	Sd	-	8.3	9.0 - 9.5
Mancos	4038	3860	Sh	-		9.0 - 9.5
Mancos Silt	4429	4227	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5010	4688	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5133	4736	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5308	4694	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	5254	surf	4759	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5001	14689	4683	4694	5001

Note: all casing will be new

Rev 0



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	4038-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	449	127
Volume (bbls)	186	34
Volume (cu.ft.)	1042	192
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5001-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	838
Volume (cu.ft)	227
Excess %	1274
	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 – 5254	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5254 – 14689	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

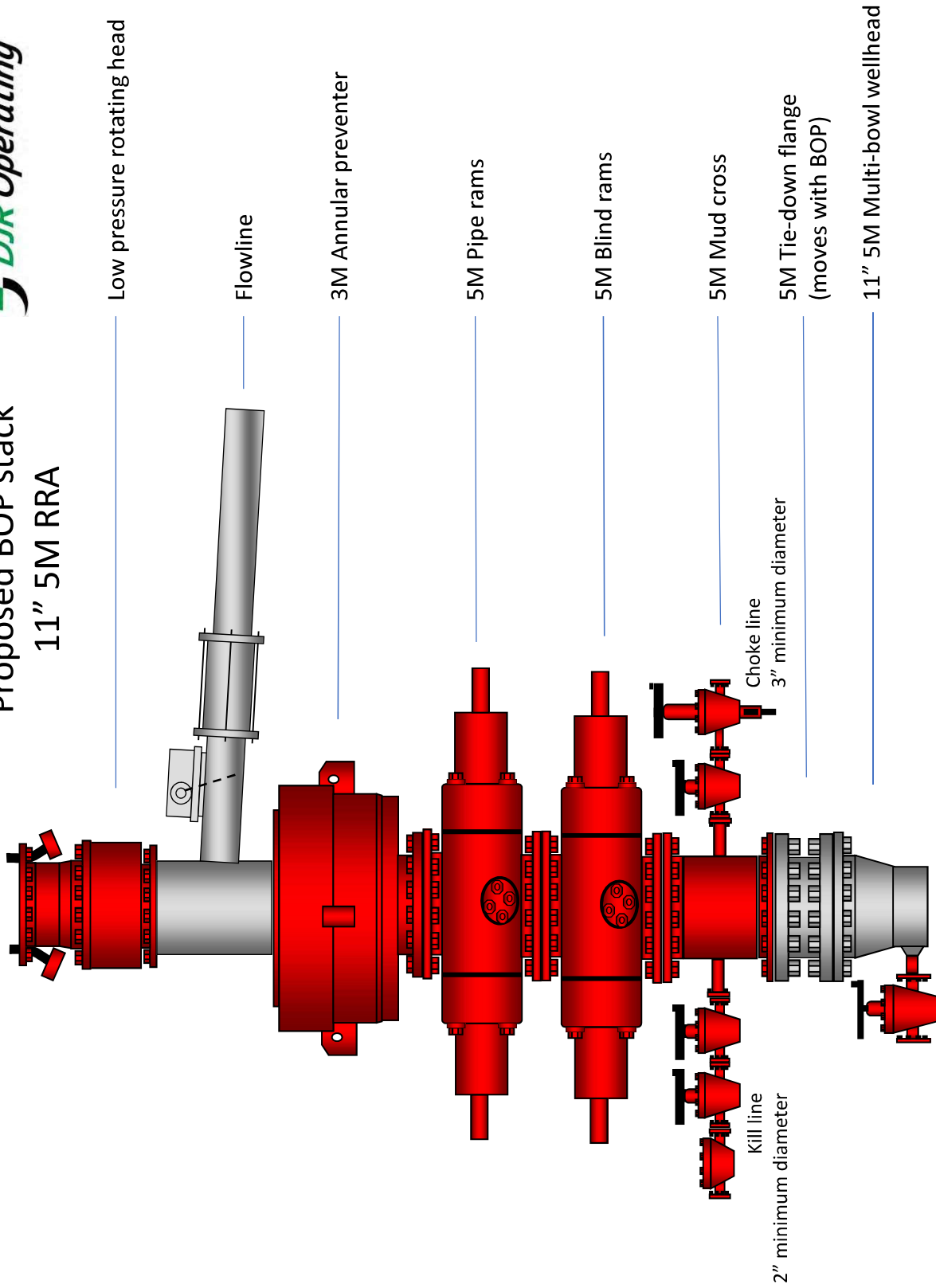
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



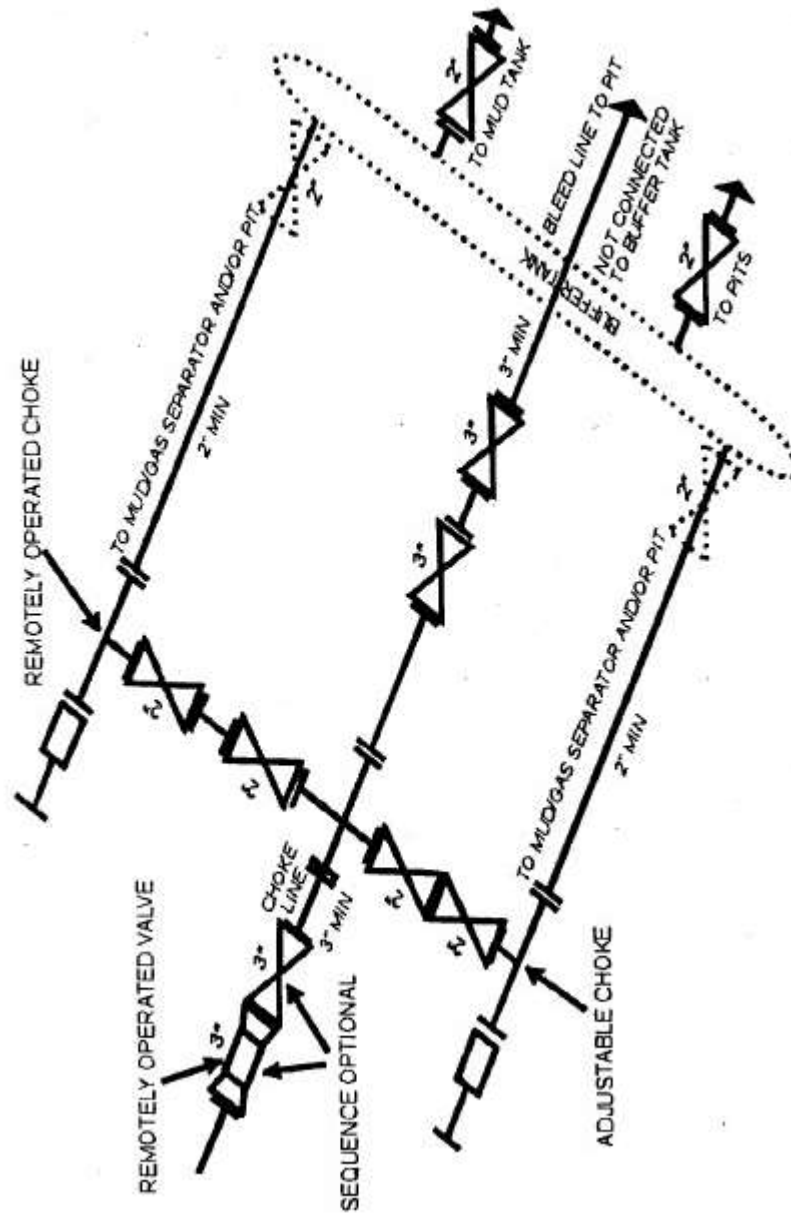
Proposed BOP stack
11" 5M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
 Project: Ponderosa Unit
 Site: F31 2409
 Well: 124H
 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: 124H

GL 6830' & RKB 14' @ 6844ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1918135.94	2723074.08	36.27153000	-107.83339300

Plan: APD (124H/Original Drilling)

Created By: Janie Collins Date: 15:10, August 01 2022



Azimuths to True North
 Magnetic North: 10.03°

Magnetic Field
 Strength: 50626.7nT
 Dip Angle: 63.09°
 Date: 12/31/2009
 Model: IGRF200510

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
P 124H Heel	4761	-988	-841	1917147.90	2722233.02	36.26881574	-107.83624617
P 124H Toe	4694	-7580	5833	1910556.42	2728906.99	36.25070686	-107.81361022

SECTION DETAILS

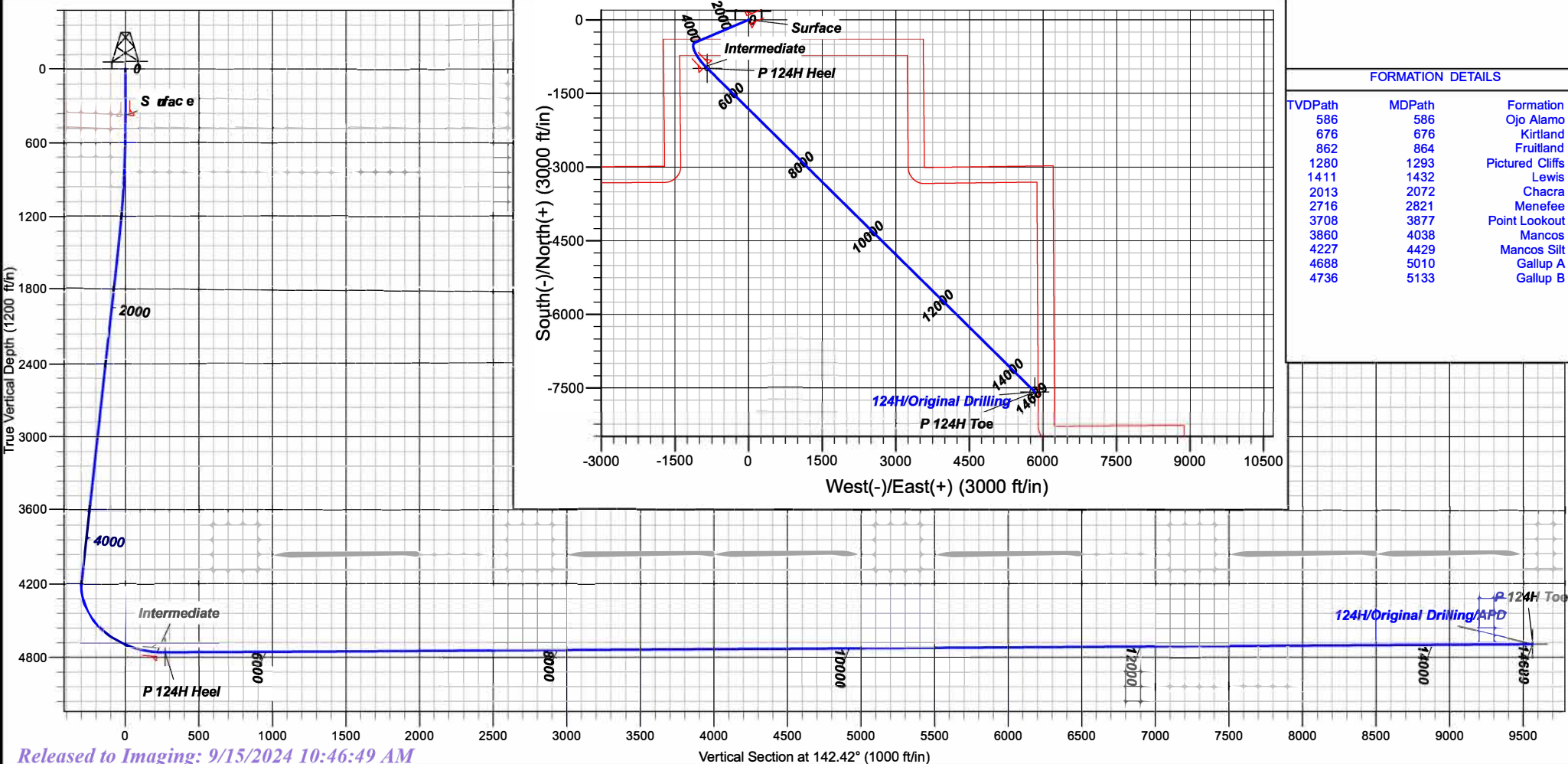
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
425	0.00	0.00	425	0	0	0.00	0.00	0
1427	20.04	246.92	1407	-68	-160	2.00	246.92	-43
4376	20.04	246.92	4177	-464	-1089	0.00	0.00	-297
5308	90.41	134.64	4761	-988	-841	10.50	-110.92	270
14689	90.41	134.64	4694	-7580	5833	0.00	0.00	9564

CASING DETAILS

TVD	MD	Name
380	380	Surface
4759	5254	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
586	586	Ojo Alamo
676	676	Kirtland
862	864	Fruitland
1280	1293	Pictured Cliffs
1411	1432	Lewis
2013	2072	Chacra
2716	2821	Menefee
3708	3877	Point Lookout
3860	4038	Mancos
4227	4429	Mancos Silt
4688	5010	Gallup A
4736	5133	Gallup B





DJR Operating

Ponderosa Unit

F31 2409

124H - Slot 4

Original Drilling

Plan: APD

Standard Planning Report

01 August, 2022





Database:	Grand Junction	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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	124H - Slot 4					
Well Position	+N/-S	0 ft	Northing:	1,918,135.94 usft	Latitude:	36.27153000
	+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	50,626.69884526

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	142.42

Plan Survey Tool Program	Date	7/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	14,689 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	
1427	20.04	246.92	1407	-68	-160	2.00	2.00	0.00	246.92	
4376	20.04	246.92	4177	-464	-1089	0.00	0.00	0.00	0.00	
5308	90.41	134.64	4761	-988	-841	10.50	7.55	-12.05	-110.92	P 124H Heel
14,689	90.41	134.64	4694	-7580	5833	0.00	0.00	0.00	0.00	P 124H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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	246.92	500	0	-1	0	2.00	2.00	0.00
600	3.50	246.92	600	-2	-5	-1	2.00	2.00	0.00
700	5.50	246.92	700	-5	-12	-3	2.00	2.00	0.00
800	7.50	246.92	799	-10	-23	-6	2.00	2.00	0.00
900	9.50	246.92	898	-15	-36	-10	2.00	2.00	0.00
1000	11.50	246.92	996	-23	-53	-14	2.00	2.00	0.00
1100	13.50	246.92	1094	-31	-73	-20	2.00	2.00	0.00
1200	15.50	246.92	1191	-41	-96	-26	2.00	2.00	0.00
1300	17.50	246.92	1286	-52	-122	-33	2.00	2.00	0.00
1400	19.50	246.92	1381	-64	-151	-41	2.00	2.00	0.00
1427	20.04	246.92	1407	-68	-160	-43	2.00	2.00	0.00
1500	20.04	246.92	1475	-78	-183	-50	0.00	0.00	0.00
1600	20.04	246.92	1569	-91	-214	-58	0.00	0.00	0.00
1700	20.04	246.92	1663	-105	-246	-67	0.00	0.00	0.00
1800	20.04	246.92	1757	-118	-277	-75	0.00	0.00	0.00
1900	20.04	246.92	1851	-132	-309	-84	0.00	0.00	0.00
2000	20.04	246.92	1945	-145	-340	-93	0.00	0.00	0.00
2100	20.04	246.92	2039	-158	-372	-101	0.00	0.00	0.00
2200	20.04	246.92	2133	-172	-403	-110	0.00	0.00	0.00
2300	20.04	246.92	2227	-185	-435	-118	0.00	0.00	0.00
2400	20.04	246.92	2321	-199	-466	-127	0.00	0.00	0.00
2500	20.04	246.92	2415	-212	-498	-136	0.00	0.00	0.00
2600	20.04	246.92	2509	-226	-529	-144	0.00	0.00	0.00
2700	20.04	246.92	2603	-239	-561	-153	0.00	0.00	0.00
2800	20.04	246.92	2697	-252	-592	-161	0.00	0.00	0.00
2900	20.04	246.92	2791	-266	-624	-170	0.00	0.00	0.00
3000	20.04	246.92	2884	-279	-655	-178	0.00	0.00	0.00
3100	20.04	246.92	2978	-293	-687	-187	0.00	0.00	0.00
3200	20.04	246.92	3072	-306	-718	-196	0.00	0.00	0.00
3300	20.04	246.92	3166	-320	-750	-204	0.00	0.00	0.00
3400	20.04	246.92	3260	-333	-781	-213	0.00	0.00	0.00
3500	20.04	246.92	3354	-346	-813	-221	0.00	0.00	0.00
3600	20.04	246.92	3448	-360	-845	-230	0.00	0.00	0.00
3700	20.04	246.92	3542	-373	-876	-238	0.00	0.00	0.00
3800	20.04	246.92	3636	-387	-908	-247	0.00	0.00	0.00
3900	20.04	246.92	3730	-400	-939	-256	0.00	0.00	0.00
4000	20.04	246.92	3824	-414	-971	-264	0.00	0.00	0.00
4100	20.04	246.92	3918	-427	-1002	-273	0.00	0.00	0.00
4200	20.04	246.92	4012	-440	-1034	-281	0.00	0.00	0.00
4300	20.04	246.92	4106	-454	-1065	-290	0.00	0.00	0.00
4376	20.04	246.92	4177	-464	-1089	-297	0.00	0.00	0.00
4400	19.28	239.80	4200	-468	-1096	-298	10.50	-3.17	-29.77
4500	19.46	207.77	4294	-491	-1118	-293	10.50	0.18	-32.03
4600	24.46	182.75	4387	-526	-1127	-270	10.50	5.00	-25.02
4700	32.09	167.37	4475	-573	-1122	-230	10.50	7.64	-15.38
4800	40.91	157.72	4556	-629	-1104	-175	10.50	8.82	-9.65
4900	50.29	151.08	4626	-693	-1073	-105	10.50	9.38	-6.65
5000	59.95	146.05	4683	-763	-1030	-23	10.50	9.66	-5.02



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5100	69.77	141.93	4725	-836	-977	67	10.50	9.82	-4.12	
5200	79.67	138.31	4752	-910	-915	163	10.50	9.90	-3.62	
5300	89.61	134.91	4761	-982	-847	262	10.50	9.94	-3.40	
5308	90.41	134.64	4761	-988	-841	270	10.50	9.95	-3.36	
5400	90.41	134.64	4760	-1053	-776	361	0.00	0.00	0.00	
5500	90.41	134.64	4760	-1123	-704	460	0.00	0.00	0.00	
5600	90.41	134.64	4759	-1193	-633	559	0.00	0.00	0.00	
5700	90.41	134.64	4758	-1263	-562	658	0.00	0.00	0.00	
5800	90.41	134.64	4757	-1334	-491	758	0.00	0.00	0.00	
5900	90.41	134.64	4757	-1404	-420	857	0.00	0.00	0.00	
6000	90.41	134.64	4756	-1474	-349	956	0.00	0.00	0.00	
6100	90.41	134.64	4755	-1545	-278	1055	0.00	0.00	0.00	
6200	90.41	134.64	4755	-1615	-206	1154	0.00	0.00	0.00	
6300	90.41	134.64	4754	-1685	-135	1253	0.00	0.00	0.00	
6400	90.41	134.64	4753	-1755	-64	1352	0.00	0.00	0.00	
6500	90.41	134.64	4752	-1826	7	1451	0.00	0.00	0.00	
6600	90.41	134.64	4752	-1896	78	1550	0.00	0.00	0.00	
6700	90.41	134.64	4751	-1966	149	1649	0.00	0.00	0.00	
6800	90.41	134.64	4750	-2036	220	1748	0.00	0.00	0.00	
6900	90.41	134.64	4750	-2107	292	1847	0.00	0.00	0.00	
7000	90.41	134.64	4749	-2177	363	1946	0.00	0.00	0.00	
7100	90.41	134.64	4748	-2247	434	2046	0.00	0.00	0.00	
7200	90.41	134.64	4747	-2318	505	2145	0.00	0.00	0.00	
7300	90.41	134.64	4747	-2388	576	2244	0.00	0.00	0.00	
7400	90.41	134.64	4746	-2458	647	2343	0.00	0.00	0.00	
7500	90.41	134.64	4745	-2528	718	2442	0.00	0.00	0.00	
7600	90.41	134.64	4745	-2599	790	2541	0.00	0.00	0.00	
7700	90.41	134.64	4744	-2669	861	2640	0.00	0.00	0.00	
7800	90.41	134.64	4743	-2739	932	2739	0.00	0.00	0.00	
7900	90.41	134.64	4742	-2809	1003	2838	0.00	0.00	0.00	
8000	90.41	134.64	4742	-2880	1074	2937	0.00	0.00	0.00	
8100	90.41	134.64	4741	-2950	1145	3036	0.00	0.00	0.00	
8200	90.41	134.64	4740	-3020	1217	3135	0.00	0.00	0.00	
8300	90.41	134.64	4740	-3090	1288	3234	0.00	0.00	0.00	
8400	90.41	134.64	4739	-3161	1359	3334	0.00	0.00	0.00	
8500	90.41	134.64	4738	-3231	1430	3433	0.00	0.00	0.00	
8600	90.41	134.64	4737	-3301	1501	3532	0.00	0.00	0.00	
8700	90.41	134.64	4737	-3372	1572	3631	0.00	0.00	0.00	
8800	90.41	134.64	4736	-3442	1643	3730	0.00	0.00	0.00	
8900	90.41	134.64	4735	-3512	1715	3829	0.00	0.00	0.00	
9000	90.41	134.64	4735	-3582	1786	3928	0.00	0.00	0.00	
9100	90.41	134.64	4734	-3653	1857	4027	0.00	0.00	0.00	
9200	90.41	134.64	4733	-3723	1928	4126	0.00	0.00	0.00	
9300	90.41	134.64	4732	-3793	1999	4225	0.00	0.00	0.00	
9400	90.41	134.64	4732	-3863	2070	4324	0.00	0.00	0.00	
9500	90.41	134.64	4731	-3934	2141	4423	0.00	0.00	0.00	
9600	90.41	134.64	4730	-4004	2213	4523	0.00	0.00	0.00	
9700	90.41	134.64	4730	-4074	2284	4622	0.00	0.00	0.00	
9800	90.41	134.64	4729	-4144	2355	4721	0.00	0.00	0.00	
9900	90.41	134.64	4728	-4215	2426	4820	0.00	0.00	0.00	
10,000	90.41	134.64	4727	-4285	2497	4919	0.00	0.00	0.00	
10,100	90.41	134.64	4727	-4355	2568	5018	0.00	0.00	0.00	
10,200	90.41	134.64	4726	-4426	2639	5117	0.00	0.00	0.00	
10,300	90.41	134.64	4725	-4496	2711	5216	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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	134.64	4725	-4566	2782	5315	0.00	0.00	0.00	
10,500	90.41	134.64	4724	-4636	2853	5414	0.00	0.00	0.00	
10,600	90.41	134.64	4723	-4707	2924	5513	0.00	0.00	0.00	
10,700	90.41	134.64	4722	-4777	2995	5612	0.00	0.00	0.00	
10,800	90.41	134.64	4722	-4847	3066	5711	0.00	0.00	0.00	
10,900	90.41	134.64	4721	-4917	3137	5811	0.00	0.00	0.00	
11,000	90.41	134.64	4720	-4988	3209	5910	0.00	0.00	0.00	
11,100	90.41	134.64	4720	-5058	3280	6009	0.00	0.00	0.00	
11,200	90.41	134.64	4719	-5128	3351	6108	0.00	0.00	0.00	
11,300	90.41	134.64	4718	-5198	3422	6207	0.00	0.00	0.00	
11,400	90.41	134.64	4717	-5269	3493	6306	0.00	0.00	0.00	
11,500	90.41	134.64	4717	-5339	3564	6405	0.00	0.00	0.00	
11,600	90.41	134.64	4716	-5409	3636	6504	0.00	0.00	0.00	
11,700	90.41	134.64	4715	-5480	3707	6603	0.00	0.00	0.00	
11,800	90.41	134.64	4715	-5550	3778	6702	0.00	0.00	0.00	
11,900	90.41	134.64	4714	-5620	3849	6801	0.00	0.00	0.00	
12,000	90.41	134.64	4713	-5690	3920	6900	0.00	0.00	0.00	
12,100	90.41	134.64	4712	-5761	3991	6999	0.00	0.00	0.00	
12,200	90.41	134.64	4712	-5831	4062	7099	0.00	0.00	0.00	
12,300	90.41	134.64	4711	-5901	4134	7198	0.00	0.00	0.00	
12,400	90.41	134.64	4710	-5971	4205	7297	0.00	0.00	0.00	
12,500	90.41	134.64	4710	-6042	4276	7396	0.00	0.00	0.00	
12,600	90.41	134.64	4709	-6112	4347	7495	0.00	0.00	0.00	
12,700	90.41	134.64	4708	-6182	4418	7594	0.00	0.00	0.00	
12,800	90.41	134.64	4707	-6253	4489	7693	0.00	0.00	0.00	
12,900	90.41	134.64	4707	-6323	4560	7792	0.00	0.00	0.00	
13,000	90.41	134.64	4706	-6393	4632	7891	0.00	0.00	0.00	
13,100	90.41	134.64	4705	-6463	4703	7990	0.00	0.00	0.00	
13,200	90.41	134.64	4705	-6534	4774	8089	0.00	0.00	0.00	
13,300	90.41	134.64	4704	-6604	4845	8188	0.00	0.00	0.00	
13,400	90.41	134.64	4703	-6674	4916	8287	0.00	0.00	0.00	
13,500	90.41	134.64	4702	-6744	4987	8387	0.00	0.00	0.00	
13,600	90.41	134.64	4702	-6815	5058	8486	0.00	0.00	0.00	
13,700	90.41	134.64	4701	-6885	5130	8585	0.00	0.00	0.00	
13,800	90.41	134.64	4700	-6955	5201	8684	0.00	0.00	0.00	
13,900	90.41	134.64	4700	-7025	5272	8783	0.00	0.00	0.00	
14,000	90.41	134.64	4699	-7096	5343	8882	0.00	0.00	0.00	
14,100	90.41	134.64	4698	-7166	5414	8981	0.00	0.00	0.00	
14,200	90.41	134.64	4697	-7236	5485	9080	0.00	0.00	0.00	
14,300	90.41	134.64	4697	-7307	5557	9179	0.00	0.00	0.00	
14,400	90.41	134.64	4696	-7377	5628	9278	0.00	0.00	0.00	
14,500	90.41	134.64	4695	-7447	5699	9377	0.00	0.00	0.00	
14,600	90.41	134.64	4695	-7517	5770	9476	0.00	0.00	0.00	
14,689	90.41	134.64	4694	-7580	5833	9564	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

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 124H Toe	0.00	0.00	4694	-7580	5833	1,910,556.42	2,728,906.99	36.25070686	-107.81361022
- plan hits target center									
- Circle (radius 100)									
P 124H Heel	0.00	0.00	4761	-988	-841	1,917,147.90	2,722,233.02	36.26881574	-107.83624617
- 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	
5254	4759	Intermediate	7.00	8.75	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
586	586	Ojo Alamo		0.00	0.00
676	676	Kirtland		0.00	0.00
864	862	Fruitland		0.00	0.00
1293	1280	Pictured Cliffs		0.00	0.00
1432	1411	Lewis		0.00	0.00
2072	2013	Chacra		0.00	0.00
2821	2716	Menefee		0.00	0.00
3877	3708	Point Lookout		0.00	0.00
4038	3860	Mancos		0.00	0.00
4429	4227	Mancos Silt		0.00	0.00
5010	4688	Gallup A		0.00	0.00
5133	4736	Gallup B		0.00	0.00



DJR Operating

Ponderosa Unit

F31 2409

124H

Original Drilling

APD

Anticollision Report

01 August, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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	14,689	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						
129H - Original Drilling - APD	1133	1129	59	51	7.191	CC
129H - Original Drilling - APD	1200	1195	60	51	6.749	ES
129H - Original Drilling - APD	14,100	13,725	748	315	1.726	SF
130H - Original Drilling - APD	425	425	20	18	7.300	CC
130H - Original Drilling - APD	500	500	21	17	6.265	ES
130H - Original Drilling - APD	13,500	12,324	1353	942	3.291	SF
144H - Original Drilling - APD	1285	1282	31	21	3.148	CC
144H - Original Drilling - APD	1300	1297	31	21	3.109	ES
144H - Original Drilling - APD	14,222	13,663	599	163	1.373	Level 3, SF
Big Yazzie 1 - OH - OH	8900	2915	1714	1665	35.251	CC
Big Yazzie 1 - OH - OH	9000	2915	1714	1664	34.212	ES
Big Yazzie 1 - OH - OH	10,200	2915	2121	2021	21.224	SF
January Jamboree 1 - OH - OH	5342	4750	248	82	1.497	Level 3, CC, ES, SF

Offset Design: F31 2409 - 129H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF								Rule Assigned:				Offset Well Error:	0 ft	
Reference	Vertical	Offset		Semi Major Axis	Offset		Offset Wellbore Centre		Distance					Warning
Measured Depth (ft)	Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	(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	-179.72	-60	0	60					
100	100	100	100	0	0	-179.72	-60	0	60	60	0.46	130.677		
200	200	200	200	1	1	-179.72	-60	0	60	59	1.18	51.238		
300	300	300	300	1	1	-179.72	-60	0	60	59	1.90	31.866		
400	400	400	400	1	1	-179.72	-60	0	60	58	2.61	23.124		
425	425	425	425	1	1	-179.72	-60	0	60	58	2.79	21.640		
500	500	499	499	2	2	-66.67	-61	-1	60	57	3.31	18.270		
600	600	598	598	2	2	-66.80	-63	-5	61	57	3.99	15.201		
700	700	697	697	2	2	-67.04	-66	-12	61	56	4.70	12.998		
800	799	796	795	3	3	-67.37	-71	-22	62	56	5.44	11.334		
900	898	896	895	3	3	-69.30	-77	-33	62	55	6.22	9.899		
1000	996	996	994	4	3	-74.37	-83	-45	61	54	7.06	8.586		
1100	1094	1096	1092	4	4	-82.83	-88	-56	60	52	7.96	7.486		
1133	1126	1129	1125	4	4	-86.37	-90	-60	59	51	8.27	7.191	CC	
1200	1191	1195	1191	5	4	-94.62	-94	-68	60	51	8.90	6.749	ES	

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 124H - Slot 4
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:	124H	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	
1300	1286	1294	1289	5	5	-108.60	-100	-79	64	54	9.81	6.530	
1400	1381	1392	1386	6	5	-122.50	-105	-91	73	63	10.62	6.901	
1427	1407	1418	1412	6	5	-125.94	-107	-94	77	66	10.81	7.095	
1500	1475	1490	1483	7	6	-134.15	-111	-102	88	76	11.32	7.738	
1600	1569	1587	1580	7	6	-142.42	-116	-113	105	93	12.00	8.722	
1700	1663	1685	1676	8	6	-148.33	-122	-124	123	111	12.69	9.717	
1800	1757	1782	1773	9	7	-152.67	-128	-136	143	129	13.38	10.671	
1900	1851	1880	1870	9	7	-155.96	-133	-147	163	149	14.09	11.562	
2000	1945	1977	1967	10	8	-158.53	-139	-158	184	169	14.82	12.385	
2100	2039	2075	2063	11	8	-160.58	-144	-169	204	189	15.55	13.143	
2200	2133	2173	2160	12	8	-162.25	-150	-181	225	209	16.29	13.838	
2300	2227	2270	2257	12	9	-163.63	-156	-192	247	230	17.03	14.477	
2400	2321	2368	2354	13	9	-164.80	-161	-203	268	250	17.78	15.064	
2500	2415	2465	2450	14	10	-165.79	-167	-214	289	271	18.54	15.606	
2600	2509	2563	2547	15	10	-166.65	-172	-226	311	291	19.29	16.105	
2700	2603	2660	2644	15	11	-167.39	-178	-237	332	312	20.06	16.568	
2800	2697	2758	2741	16	11	-168.05	-183	-248	354	333	20.82	16.997	
2900	2791	2856	2837	17	11	-168.63	-189	-259	375	354	21.58	17.395	
3000	2884	2953	2934	18	12	-169.14	-195	-271	397	375	22.35	17.767	
3100	2978	3051	3031	18	12	-169.61	-200	-282	419	396	23.12	18.113	
3200	3072	3148	3128	19	13	-170.03	-206	-293	440	417	23.89	18.437	
3300	3166	3246	3224	20	13	-170.40	-211	-304	462	438	24.66	18.741	
3400	3260	3343	3321	21	14	-170.75	-217	-316	484	458	25.43	19.026	
3500	3354	3441	3418	21	14	-171.06	-223	-327	506	479	26.21	19.295	
3600	3448	3539	3515	22	14	-171.35	-228	-338	527	500	26.98	19.547	
3700	3542	3636	3611	23	15	-171.62	-234	-349	549	521	27.76	19.786	
3800	3636	3734	3708	24	15	-171.86	-239	-361	571	542	28.53	20.011	
3900	3730	3831	3805	24	16	-172.09	-245	-372	593	563	29.31	20.224	
4000	3824	3929	3902	25	16	-172.30	-251	-383	615	585	30.09	20.426	
4100	3918	4026	3998	26	16	-172.50	-256	-394	636	606	30.87	20.618	
4200	4012	4124	4095	27	17	-172.69	-262	-406	658	627	31.64	20.800	
4300	4106	4222	4192	27	17	-172.86	-267	-417	680	648	32.42	20.974	
4376	4177	4296	4266	28	18	-172.98	-272	-425	697	664	33.02	21.100	
4400	4200	4319	4289	28	18	-165.88	-273	-428	702	668	33.20	21.133	
4450	4247	4368	4337	29	18	-150.22	-276	-434	710	677	33.57	21.164	
4500	4294	4417	4386	29	18	-135.22	-278	-439	717	683	33.92	21.146	
4550	4341	4450	4419	29	18	-122.33	-281	-443	723	688	34.13	21.167	
4600	4387	4478	4446	29	18	-112.23	-284	-444	727	693	34.28	21.211	
4650	4432	4500	4468	30	19	-104.62	-288	-445	731	697	34.34	21.286	
4700	4475	4539	4506	30	19	-99.47	-295	-444	734	699	34.55	21.239	
4750	4517	4569	4536	30	19	-95.67	-302	-442	736	702	34.68	21.228	
4800	4556	4600	4565	30	19	-93.02	-310	-439	738	703	34.82	21.194	
4850	4592	4632	4595	30	19	-91.28	-320	-434	739	704	34.99	21.123	
4900	4626	4664	4624	30	19	-90.22	-331	-429	740	704	35.19	21.018	
4950	4656	4700	4657	30	19	-89.86	-344	-420	740	704	35.50	20.843	
5000	4683	4729	4682	30	19	-89.66	-356	-413	740	704	35.76	20.680	
5050	4706	4762	4710	30	19	-90.00	-371	-403	739	703	36.15	20.445	
5100	4725	4800	4741	30	19	-90.84	-389	-389	738	702	36.65	20.147	
5150	4741	4831	4764	30	19	-91.65	-405	-378	738	700	37.14	19.857	
5200	4752	4867	4790	30	20	-92.90	-424	-362	737	699	37.75	19.518	
5250	4758	4903	4816	30	20	-94.39	-445	-346	736	698	38.41	19.164	
5300	4761	4942	4840	30	20	-96.13	-468	-327	735	696	39.12	18.802	

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 124H - Slot 4
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:	124H	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	
5302	4761	4943	4840	30	20	-96.20	-469	-326	735	696	39.14	18.789		
5308	4761	4948	4843	30	20	-96.43	-472	-323	735	696	39.23	18.746		
5322	4761	4959	4850	30	20	-96.96	-479	-318	735	696	39.46	18.635		
5400	4760	5027	4886	30	20	-99.80	-523	-279	737	696	40.68	18.108		
5404	4760	5032	4888	30	20	-99.96	-526	-277	737	696	40.76	18.076		
5500	4760	5131	4926	30	20	-102.98	-593	-215	740	697	42.56	17.384		
5504	4760	5136	4927	30	20	-103.09	-597	-212	740	697	42.66	17.346		
5600	4759	5249	4949	31	21	-104.81	-676	-135	742	697	45.07	16.476		
5604	4759	5254	4949	31	21	-104.85	-680	-131	743	697	45.19	16.430		
5700	4758	5359	4951	31	22	-105.01	-754	-57	743	695	47.94	15.496		
5704	4758	5363	4951	31	22	-105.01	-757	-54	743	695	48.08	15.451		
5800	4757	5459	4950	32	24	-105.01	-824	14	743	692	50.98	14.572		
5804	4757	5463	4950	32	24	-105.01	-827	17	743	692	51.14	14.527		
5900	4757	5559	4949	33	25	-105.01	-894	85	743	689	54.28	13.688		
5904	4757	5563	4949	33	25	-105.01	-897	88	743	688	54.45	13.644		
6000	4756	5659	4948	34	27	-105.01	-964	156	743	685	57.79	12.857		
6004	4756	5663	4948	35	27	-105.01	-967	159	743	685	57.94	12.823		
6100	4755	5759	4948	36	29	-105.01	-1035	227	743	682	61.48	12.086		
6104	4755	5763	4948	36	29	-105.01	-1038	231	743	681	61.65	12.053		
6200	4755	5859	4947	38	31	-105.01	-1105	299	743	678	65.32	11.376		
6204	4755	5863	4947	38	31	-105.01	-1108	302	743	678	65.50	11.346		
6300	4754	5959	4946	40	33	-105.01	-1175	370	743	674	69.29	10.726		
6304	4754	5963	4946	40	33	-105.01	-1178	373	743	674	69.47	10.698		
6400	4753	6059	4946	42	35	-105.00	-1245	441	743	670	73.36	10.131		
6404	4753	6063	4946	42	35	-105.00	-1248	444	743	670	73.54	10.106		
6500	4752	6159	4945	44	37	-105.00	-1316	512	743	666	77.51	9.589		
6504	4752	6163	4945	44	37	-105.00	-1319	515	743	666	77.70	9.566		
6600	4752	6259	4944	46	39	-105.00	-1386	583	743	662	81.74	9.093		
6604	4752	6263	4944	46	39	-105.00	-1389	587	743	661	81.93	9.072		
6700	4751	6359	4943	48	41	-105.00	-1456	655	743	657	86.04	8.640		
6704	4751	6363	4943	48	41	-105.00	-1459	658	743	657	86.23	8.621		
6800	4750	6459	4943	50	43	-105.00	-1526	726	743	653	90.38	8.225		
6804	4750	6463	4943	50	43	-105.00	-1529	729	743	653	90.58	8.208		
6900	4750	6559	4942	52	46	-105.00	-1596	797	743	649	94.78	7.845		
6904	4750	6563	4942	53	46	-105.00	-1600	800	743	649	94.97	7.828		
7000	4749	6659	4941	55	48	-105.00	-1667	868	744	644	99.21	7.495		
7004	4749	6663	4941	55	48	-105.00	-1670	871	744	644	99.41	7.480		
7100	4748	6759	4941	57	50	-105.00	-1737	939	744	640	103.68	7.172		
7104	4748	6763	4941	57	50	-105.00	-1740	942	744	640	103.88	7.158		
7200	4747	6859	4940	59	52	-105.00	-1807	1011	744	635	108.18	6.874		
7204	4747	6863	4940	59	53	-105.00	-1810	1014	744	635	108.38	6.862		
7300	4747	6959	4939	61	55	-105.00	-1877	1082	744	631	112.70	6.599		
7304	4747	6963	4939	62	55	-105.00	-1880	1085	744	631	112.91	6.587		
7400	4746	7059	4938	64	57	-104.99	-1948	1153	744	627	117.25	6.343		
7404	4746	7063	4938	64	57	-104.99	-1951	1156	744	626	117.46	6.332		
7500	4745	7159	4938	66	59	-104.99	-2018	1224	744	622	121.82	6.106		
7504	4745	7163	4938	66	60	-104.99	-2021	1227	744	622	122.03	6.096		
7600	4745	7259	4937	68	62	-104.99	-2088	1295	744	617	126.41	5.885		
7604	4745	7263	4937	69	62	-104.99	-2091	1298	744	617	126.62	5.875		
7700	4744	7359	4936	71	64	-104.99	-2158	1366	744	613	131.02	5.678		
7704	4744	7363	4936	71	64	-104.99	-2161	1370	744	613	131.22	5.669		
7800	4743	7459	4936	73	67	-104.99	-2228	1438	744	608	135.64	5.485		

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 124H - Slot 4
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:	124H	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	
7804	4743	7463	4936	73	67	-104.99	-2232	1441	744	608	135.85	5.477	
7900	4742	7559	4935	76	69	-104.99	-2299	1509	744	604	140.27	5.304	
7904	4742	7563	4935	76	69	-104.99	-2302	1512	744	604	140.48	5.297	
8000	4742	7659	4934	78	71	-104.99	-2369	1580	744	599	144.92	5.135	
8004	4742	7663	4934	78	72	-104.99	-2372	1583	744	599	145.13	5.127	
8100	4741	7759	4933	80	74	-104.99	-2439	1651	744	595	149.58	4.975	
8104	4741	7763	4933	80	74	-104.99	-2442	1654	744	594	149.79	4.968	
8200	4740	7859	4933	83	76	-104.99	-2509	1722	744	590	154.25	4.825	
8204	4740	7863	4933	83	76	-104.99	-2512	1726	744	590	154.46	4.818	
8300	4740	7959	4932	85	79	-104.99	-2580	1794	744	585	158.93	4.683	
8304	4740	7963	4932	85	79	-104.99	-2583	1797	744	585	159.13	4.677	
8400	4739	8059	4931	87	81	-104.98	-2650	1865	744	581	163.61	4.549	
8404	4739	8063	4931	88	81	-104.98	-2653	1868	744	581	163.82	4.544	
8500	4738	8159	4931	90	83	-104.98	-2720	1936	744	576	168.31	4.423	
8504	4738	8163	4931	90	84	-104.98	-2723	1939	744	576	168.51	4.417	
8600	4737	8259	4930	92	86	-104.98	-2790	2007	744	571	173.01	4.303	
8604	4737	8263	4930	92	86	-104.98	-2793	2010	744	571	173.22	4.298	
8700	4737	8359	4929	95	88	-104.98	-2860	2078	745	567	177.71	4.189	
8704	4737	8363	4929	95	88	-104.98	-2864	2081	745	567	177.92	4.184	
8800	4736	8459	4929	97	91	-104.98	-2931	2150	745	562	182.43	4.081	
8804	4736	8463	4928	97	91	-104.98	-2934	2153	745	562	182.64	4.077	
8900	4735	8559	4928	99	93	-104.98	-3001	2221	745	557	187.15	3.979	
8904	4735	8563	4928	100	93	-104.98	-3004	2224	745	557	187.36	3.974	
9000	4735	8659	4927	102	96	-104.98	-3071	2292	745	553	191.87	3.881	
9004	4735	8663	4927	102	96	-104.98	-3074	2295	745	553	192.08	3.877	
9100	4734	8759	4926	104	98	-104.98	-3141	2363	745	548	196.60	3.788	
9104	4734	8763	4926	104	98	-104.98	-3145	2366	745	548	196.81	3.784	
9200	4733	8859	4926	107	100	-104.98	-3212	2434	745	543	201.33	3.699	
9204	4733	8863	4926	107	101	-104.98	-3215	2437	745	543	201.54	3.695	
9300	4732	8959	4925	109	103	-104.98	-3282	2505	745	539	206.07	3.614	
9304	4732	8963	4925	109	103	-104.98	-3285	2509	745	539	206.28	3.611	
9400	4732	9059	4924	112	105	-104.97	-3352	2577	745	534	210.81	3.533	
9404	4732	9063	4924	112	105	-104.97	-3355	2580	745	534	211.02	3.530	
9500	4731	9159	4924	114	108	-104.97	-3422	2648	745	529	215.56	3.456	
9504	4731	9163	4923	114	108	-104.97	-3425	2651	745	529	215.77	3.453	
9600	4730	9259	4923	116	110	-104.97	-3493	2719	745	525	220.31	3.382	
9604	4730	9263	4923	117	110	-104.97	-3496	2722	745	524	220.52	3.378	
9700	4730	9359	4922	119	113	-104.97	-3563	2790	745	520	225.06	3.311	
9704	4730	9363	4922	119	113	-104.97	-3566	2793	745	520	225.27	3.307	
9800	4729	9459	4921	121	115	-104.97	-3633	2861	745	515	229.81	3.242	
9804	4729	9463	4921	121	115	-104.97	-3636	2865	745	515	230.03	3.239	
9900	4728	9559	4921	124	118	-104.97	-3703	2933	745	511	234.57	3.177	
9904	4728	9563	4921	124	118	-104.97	-3706	2936	745	510	234.78	3.174	
10,000	4727	9659	4920	126	120	-104.97	-3773	3004	745	506	239.33	3.114	
10,004	4727	9663	4920	126	120	-104.97	-3777	3007	745	506	239.55	3.111	
10,100	4727	9759	4919	129	123	-104.97	-3844	3075	745	501	244.10	3.053	
10,104	4727	9763	4919	129	123	-104.97	-3847	3078	745	501	244.31	3.051	
10,200	4726	9859	4919	131	125	-104.97	-3914	3146	745	496	248.86	2.995	
10,204	4726	9863	4919	131	125	-104.97	-3917	3149	745	496	249.07	2.992	
10,300	4725	9959	4918	134	127	-104.97	-3984	3217	745	492	253.63	2.939	
10,304	4725	9963	4918	134	128	-104.97	-3987	3220	745	492	253.84	2.936	
10,400	4725	10,059	4917	136	130	-104.96	-4054	3289	745	487	258.40	2.885	

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 124H - Slot 4
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:	124H	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	
10,404	4725	10,063	4917	136	130	-104.96	-4057	3292	745	487	258.61	2.883	
10,500	4724	10,159	4916	138	132	-104.96	-4125	3360	746	482	263.17	2.833	
10,504	4724	10,163	4916	139	133	-104.96	-4128	3363	746	482	263.38	2.831	
10,600	4723	10,259	4916	141	135	-104.96	-4195	3431	746	478	267.94	2.783	
10,604	4723	10,263	4916	141	135	-104.96	-4198	3434	746	477	268.16	2.780	
10,700	4722	10,359	4915	143	137	-104.96	-4265	3502	746	473	272.72	2.734	
10,704	4722	10,363	4915	144	137	-104.96	-4268	3505	746	473	272.93	2.732	
10,800	4722	10,459	4914	146	140	-104.96	-4335	3573	746	468	277.50	2.687	
10,804	4722	10,463	4914	146	140	-104.96	-4338	3576	746	468	277.71	2.685	
10,900	4721	10,559	4914	148	142	-104.96	-4405	3644	746	463	282.28	2.642	
10,904	4721	10,563	4914	148	142	-104.96	-4409	3648	746	463	282.49	2.640	
11,000	4720	10,659	4913	151	145	-104.96	-4476	3716	746	459	287.06	2.598	
11,004	4720	10,663	4913	151	145	-104.96	-4479	3719	746	459	287.27	2.596	
11,100	4720	10,759	4912	153	147	-104.96	-4546	3787	746	454	291.84	2.556	
11,104	4720	10,763	4912	153	147	-104.96	-4549	3790	746	454	292.05	2.554	
11,200	4719	10,859	4911	156	150	-104.96	-4616	3858	746	449	296.62	2.515	
11,204	4719	10,863	4911	156	150	-104.96	-4619	3861	746	449	296.83	2.513	
11,300	4718	10,959	4911	158	152	-104.96	-4686	3929	746	445	301.41	2.475	
11,304	4718	10,963	4911	158	152	-104.96	-4690	3932	746	444	301.62	2.473	
11,400	4717	11,059	4910	161	155	-104.95	-4757	4000	746	440	306.19	2.436	
11,404	4717	11,063	4910	161	155	-104.95	-4760	4004	746	440	306.40	2.435	
11,500	4717	11,159	4909	163	157	-104.95	-4827	4072	746	435	310.98	2.399	
11,504	4717	11,163	4909	163	157	-104.95	-4830	4075	746	435	311.19	2.397	
11,600	4716	11,259	4909	166	160	-104.95	-4897	4143	746	430	315.77	2.363	
11,604	4716	11,263	4909	166	160	-104.95	-4900	4146	746	430	315.98	2.361	
11,700	4715	11,359	4908	168	162	-104.95	-4967	4214	746	426	320.56	2.328	
11,704	4715	11,363	4908	168	162	-104.95	-4970	4217	746	425	320.77	2.326	
11,800	4715	11,459	4907	170	164	-104.95	-5038	4285	746	421	325.35	2.294	
11,804	4715	11,463	4907	171	165	-104.95	-5041	4288	746	421	325.56	2.292	
11,900	4714	11,559	4906	173	167	-104.95	-5108	4356	746	416	330.14	2.261	
11,904	4714	11,563	4906	173	167	-104.95	-5111	4359	746	416	330.35	2.259	
12,000	4713	11,659	4906	175	169	-104.95	-5178	4428	746	411	334.93	2.228	
12,004	4713	11,663	4906	175	170	-104.95	-5181	4431	746	411	335.14	2.227	
12,100	4712	11,759	4905	178	172	-104.95	-5248	4499	746	407	339.72	2.197	
12,104	4712	11,763	4905	178	172	-104.95	-5251	4502	746	406	339.94	2.196	
12,200	4712	11,859	4904	180	174	-104.95	-5318	4570	746	402	344.52	2.167	
12,204	4712	11,863	4904	180	174	-104.95	-5322	4573	746	402	344.73	2.165	
12,300	4711	11,959	4904	183	177	-104.95	-5389	4641	747	397	349.31	2.137	
12,304	4711	11,963	4904	183	177	-104.95	-5392	4644	747	397	349.53	2.136	
12,400	4710	12,059	4903	185	179	-104.94	-5459	4712	747	392	354.11	2.108	
12,404	4710	12,063	4903	185	179	-104.94	-5462	4715	747	392	354.32	2.107	
12,500	4710	12,159	4902	188	182	-104.94	-5529	4783	747	388	358.91	2.080	
12,504	4710	12,163	4902	188	182	-104.94	-5532	4787	747	388	359.12	2.079	
12,600	4709	12,259	4901	190	184	-104.94	-5599	4855	747	383	363.70	2.053	
12,604	4709	12,263	4901	190	184	-104.94	-5602	4858	747	383	363.92	2.052	
12,700	4708	12,359	4901	193	187	-104.94	-5670	4926	747	378	368.50	2.026	
12,704	4708	12,363	4901	193	187	-104.94	-5673	4929	747	378	368.72	2.025	
12,800	4707	12,459	4900	195	189	-104.94	-5740	4997	747	373	373.30	2.001	
12,804	4707	12,463	4900	195	189	-104.94	-5743	5000	747	373	373.51	1.999	
12,900	4707	12,559	4899	198	192	-104.94	-5810	5068	747	369	378.10	1.975	
12,904	4707	12,563	4899	198	192	-104.94	-5813	5071	747	369	378.31	1.974	
13,000	4706	12,659	4899	200	194	-104.94	-5880	5139	747	364	382.90	1.951	

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 129H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
13,004	4706	12,663	4899	200	194	-104.94	-5883	5143	747	364	383.11	1.950		
13,100	4705	12,759	4898	203	197	-104.94	-5950	5211	747	359	387.70	1.927		
13,104	4705	12,763	4898	203	197	-104.94	-5954	5214	747	359	387.92	1.926		
13,200	4705	12,859	4897	205	199	-104.94	-6021	5282	747	355	392.50	1.903		
13,204	4705	12,863	4897	205	199	-104.94	-6024	5285	747	354	392.72	1.902		
13,300	4704	12,959	4896	207	202	-104.94	-6091	5353	747	350	397.31	1.880		
13,304	4704	12,963	4896	208	202	-104.94	-6094	5356	747	350	397.52	1.879		
13,400	4703	13,059	4896	210	204	-104.93	-6161	5424	747	345	402.11	1.858		
13,404	4703	13,063	4896	210	204	-104.93	-6164	5427	747	345	402.32	1.857		
13,500	4702	13,159	4895	212	207	-104.93	-6231	5495	747	340	406.91	1.836		
13,504	4702	13,163	4895	213	207	-104.93	-6235	5498	747	340	407.13	1.835		
13,600	4702	13,259	4894	215	209	-104.93	-6302	5567	747	336	411.72	1.815		
13,604	4702	13,263	4894	215	209	-104.93	-6305	5570	747	335	411.93	1.814		
13,700	4701	13,359	4894	217	212	-104.93	-6372	5638	747	331	416.52	1.794		
13,704	4701	13,363	4894	217	212	-104.93	-6375	5641	747	331	416.73	1.793		
13,800	4700	13,459	4893	220	214	-104.93	-6442	5709	747	326	421.33	1.774		
13,804	4700	13,463	4893	220	214	-104.93	-6445	5712	747	326	421.54	1.773		
13,900	4700	13,559	4892	222	216	-104.93	-6512	5780	747	321	426.13	1.754		
13,904	4700	13,563	4892	222	217	-104.93	-6515	5783	747	321	426.34	1.753		
14,000	4699	13,659	4891	225	219	-104.93	-6583	5851	747	317	430.94	1.735		
14,004	4699	13,663	4891	225	219	-104.93	-6586	5854	747	316	431.15	1.734		
14,100	4698	13,725	4891	227	221	-104.93	-6629	5898	748	315	433.56	1.726 SF		
14,104	4698	13,725	4891	227	221	-104.93	-6629	5898	748	315	433.42	1.727		
14,200	4697	13,725	4891	230	221	-104.93	-6629	5898	759	332	426.96	1.779		
14,204	4697	13,725	4891	230	221	-104.93	-6629	5898	760	334	426.50	1.783		
14,300	4697	13,725	4891	232	221	-104.93	-6629	5898	783	369	413.83	1.893		
14,400	4696	13,725	4891	235	221	-104.93	-6629	5898	819	423	395.89	2.068		
14,500	4695	13,725	4891	237	221	-104.93	-6629	5898	864	489	375.07	2.305		
14,600	4695	13,725	4891	240	221	-104.93	-6629	5898	919	566	353.08	2.602		
14,689	4694	13,725	4891	242	221	-104.93	-6629	5898	973	639	333.65	2.916		

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 130H - Original Drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	180.00	-20	0	20						
100	100	100	100	0	0	180.00	-20	0	20	20	0.46	44.083			
200	200	200	200	1	1	180.00	-20	0	20	19	1.18	17.285			
300	300	300	300	1	1	180.00	-20	0	20	18	1.90	10.750			
400	400	400	400	1	1	180.00	-20	0	20	18	2.61	7.801			
425	425	425	425	1	1	180.00	-20	0	20	18	2.79	7.300 CC			
500	500	500	500	2	2	-71.35	-21	1	21	17	3.31	6.265 ES			
600	600	599	599	2	2	-88.44	-24	4	24	20	3.99	5.926			
700	700	697	697	2	2	-108.03	-29	9	32	28	4.68	6.928			
800	799	794	793	3	3	-121.57	-37	17	48	43	5.38	9.000			
900	898	891	890	3	3	-130.11	-45	26	69	63	6.11	11.334			
1000	996	988	986	4	3	-136.03	-53	35	93	87	6.85	13.624			
1100	1094	1084	1081	4	4	-140.45	-62	43	121	113	7.61	15.865			
1200	1191	1179	1175	5	4	-143.89	-70	52	151	143	8.37	18.062			
1300	1286	1272	1268	5	5	-146.66	-78	60	185	176	9.14	20.223			
1400	1381	1365	1360	6	5	-148.94	-86	68	222	212	9.92	22.355			
1427	1407	1390	1384	6	5	-149.48	-88	71	232	222	10.13	22.915			
1500	1475	1457	1450	7	5	-151.05	-93	77	261	250	10.70	24.399			
1600	1569	1548	1541	7	6	-152.70	-101	85	301	289	11.47	26.205			
1700	1663	1640	1632	8	6	-153.98	-109	93	340	328	12.24	27.788			
1800	1757	1731	1723	9	6	-154.98	-117	101	380	367	13.02	29.183			
1900	1851	1823	1814	9	7	-155.80	-125	110	420	406	13.81	30.419			
2000	1945	1914	1905	10	7	-156.47	-133	118	460	445	14.59	31.520			
2100	2039	2006	1995	11	8	-157.04	-141	126	500	485	15.38	32.508			
2200	2133	2097	2086	12	8	-157.53	-148	134	540	524	16.17	33.397			
2300	2227	2189	2177	12	8	-157.94	-156	143	580	563	16.96	34.201			
2400	2321	2280	2268	13	9	-158.30	-164	151	620	603	17.76	34.931			
2500	2415	2372	2359	14	9	-158.62	-172	159	660	642	18.55	35.597			
2600	2509	2463	2450	15	10	-158.91	-180	167	701	681	19.35	36.208			
2700	2603	2555	2540	15	10	-159.16	-188	175	741	721	20.15	36.768			
2800	2697	2647	2631	16	10	-159.38	-195	184	781	760	20.94	37.285			
2900	2791	2738	2722	17	11	-159.59	-203	192	821	799	21.74	37.762			
3000	2884	2830	2813	18	11	-159.77	-211	200	861	839	22.54	38.205			
3100	2978	2921	2904	18	12	-159.94	-219	208	901	878	23.34	38.616			
3200	3072	3013	2995	19	12	-160.09	-227	217	942	917	24.15	38.999			
3300	3166	3104	3085	20	12	-160.24	-235	225	982	957	24.95	39.357			
3400	3260	3196	3176	21	13	-160.37	-242	233	1022	996	25.75	39.692			
3500	3354	3287	3267	21	13	-160.49	-250	241	1062	1036	26.55	40.006			
3600	3448	3379	3358	22	14	-160.60	-258	250	1102	1075	27.36	40.300			
3700	3542	3470	3449	23	14	-160.70	-266	258	1143	1115	28.16	40.578			
3800	3636	3562	3539	24	14	-160.80	-274	266	1183	1154	28.97	40.839			
3900	3730	3653	3630	24	15	-160.89	-282	274	1223	1193	29.77	41.086			
4000	3824	3745	3721	25	15	-160.97	-290	282	1263	1233	30.58	41.320			
4100	3918	3837	3812	26	15	-161.05	-297	291	1304	1272	31.38	41.541			
4200	4012	3928	3903	27	16	-161.13	-305	299	1344	1312	32.19	41.751			
4300	4106	4020	3994	27	16	-161.20	-313	307	1384	1351	32.99	41.950			
4376	4177	4089	4063	28	17	-161.25	-319	313	1415	1381	33.61	42.094			
4400	4200	4111	4085	28	17	-153.76	-321	315	1424	1390	33.80	42.130			
4450	4247	4158	4131	29	17	-137.24	-325	320	1441	1407	34.21	42.136			
4500	4294	4205	4178	29	17	-121.29	-329	324	1456	1421	34.62	42.057			
4550	4341	4252	4225	29	17	-107.78	-333	328	1468	1433	35.03	41.900			
4600	4387	4300	4271	29	17	-97.39	-337	332	1476	1441	35.42	41.674			

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4650	4432	4327	4299	30	18	-89.54	-339	335	1482	1447	35.66	41.570	
4700	4475	4350	4321	30	18	-83.76	-342	338	1486	1450	35.83	41.474	
4750	4517	4350	4321	30	18	-79.20	-342	338	1488	1452	35.78	41.593	
4796	4553	4378	4348	30	18	-76.54	-346	342	1488	1452	36.01	41.317	
4800	4556	4379	4350	30	18	-76.34	-346	342	1488	1452	36.02	41.305	
4850	4592	4400	4370	30	18	-74.28	-350	346	1486	1450	36.19	41.058	
4900	4626	4400	4370	30	18	-72.53	-350	346	1482	1446	36.12	41.034	
4950	4656	4429	4398	30	18	-72.01	-356	352	1476	1440	36.44	40.513	
5000	4683	4450	4417	30	18	-71.86	-361	357	1469	1432	36.70	40.025	
5050	4706	4450	4417	30	18	-71.61	-361	357	1460	1423	36.71	39.765	
5100	4725	4476	4442	30	18	-72.47	-368	365	1449	1412	37.16	38.989	
5150	4741	4500	4463	30	19	-73.67	-375	372	1437	1399	37.64	38.166	
5200	4752	4500	4463	30	19	-74.48	-375	372	1423	1385	37.84	37.614	
5250	4758	4520	4480	30	19	-76.24	-381	378	1409	1370	38.43	36.657	
5300	4761	4533	4492	30	19	-78.09	-386	383	1393	1354	38.99	35.730	
5308	4761	4535	4494	30	19	-78.42	-386	384	1390	1351	39.08	35.575	
5400	4760	4550	4507	30	19	-78.98	-392	389	1363	1323	40.14	33.956	
5500	4760	4600	4548	30	19	-80.77	-412	409	1339	1296	42.06	31.827	
5600	4759	4630	4571	31	20	-81.78	-424	423	1320	1276	43.78	30.144	
5699	4758	4675	4605	31	20	-83.25	-446	445	1306	1260	45.89	28.466	
5700	4758	4675	4605	31	20	-83.27	-446	445	1306	1260	45.91	28.449	
5796	4758	4728	4641	32	21	-84.85	-473	473	1298	1250	48.23	26.912	
5800	4757	4731	4642	32	21	-84.92	-474	474	1298	1249	48.32	26.852	
5893	4757	4792	4678	33	22	-86.53	-509	510	1293	1242	50.86	25.424	
5900	4757	4800	4683	33	22	-86.73	-513	515	1293	1242	51.10	25.306	
5989	4756	4866	4714	34	23	-88.14	-554	556	1292	1238	53.63	24.082	
6000	4756	4876	4718	34	23	-88.32	-560	562	1291	1237	54.10	23.871	
6100	4755	4966	4748	36	24	-89.68	-619	624	1292	1234	57.55	22.446	
6200	4755	5065	4765	38	26	-90.43	-687	694	1293	1231	61.32	21.079	
6300	4754	5166	4766	40	28	-90.51	-758	766	1293	1228	65.25	19.823	
6304	4754	5171	4766	40	28	-90.51	-761	769	1293	1228	65.42	19.771	
6400	4753	5266	4765	42	30	-90.51	-827	838	1294	1225	69.28	18.681	
6404	4753	5271	4765	42	30	-90.51	-830	841	1294	1225	69.46	18.633	
6500	4752	5366	4764	44	32	-90.51	-897	909	1295	1222	73.43	17.635	
6504	4752	5371	4764	44	32	-90.51	-900	913	1295	1221	73.62	17.591	
6600	4752	5466	4763	46	34	-90.51	-967	981	1296	1218	77.69	16.680	
6604	4752	5471	4763	46	34	-90.51	-970	984	1296	1218	77.88	16.639	
6700	4751	5566	4763	48	36	-90.51	-1036	1053	1297	1215	82.03	15.807	
6704	4751	5571	4763	48	36	-90.51	-1039	1056	1297	1214	82.23	15.770	
6800	4750	5666	4762	50	38	-90.51	-1106	1125	1297	1211	86.44	15.010	
6804	4750	5671	4762	50	38	-90.51	-1109	1128	1298	1211	86.64	14.976	
6900	4750	5766	4761	52	40	-90.51	-1176	1196	1298	1207	90.92	14.280	
6904	4750	5771	4761	53	40	-90.51	-1179	1200	1298	1207	91.12	14.249	
7000	4749	5866	4761	55	42	-90.51	-1245	1268	1299	1204	95.44	13.612	
7004	4749	5871	4761	55	42	-90.51	-1248	1271	1299	1204	95.65	13.583	
7100	4748	5966	4760	57	45	-90.51	-1315	1340	1300	1200	100.01	12.998	
7104	4748	5971	4760	57	45	-90.51	-1318	1343	1300	1200	100.22	12.972	
7200	4747	6066	4759	59	47	-90.51	-1385	1411	1301	1196	104.62	12.433	
7204	4747	6071	4759	59	47	-90.51	-1388	1415	1301	1196	104.83	12.409	
7300	4747	6166	4759	61	49	-90.51	-1454	1483	1302	1192	109.26	11.913	
7304	4747	6171	4758	62	49	-90.51	-1457	1486	1302	1192	109.47	11.890	
7400	4746	6266	4758	64	52	-90.51	-1524	1555	1302	1189	113.94	11.431	

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 130H - Original Drilling - APD											Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
7404	4746	6271	4758	64	52	-90.51	-1527	1558	1302	1188	114.14	11.411
7500	4745	6366	4757	66	54	-90.51	-1594	1627	1303	1185	118.63	10.986
7504	4745	6371	4757	66	54	-90.51	-1597	1630	1303	1184	118.84	10.967
7600	4745	6466	4756	68	56	-90.51	-1663	1698	1304	1181	123.35	10.572
7604	4745	6471	4756	69	56	-90.51	-1666	1702	1304	1181	123.56	10.554
7700	4744	6566	4756	71	59	-90.51	-1733	1770	1305	1177	128.09	10.187
7704	4744	6571	4756	71	59	-90.51	-1736	1773	1305	1177	128.30	10.171
7800	4743	6666	4755	73	61	-90.51	-1803	1842	1306	1173	132.85	9.829
7804	4743	6671	4755	73	61	-90.51	-1806	1845	1306	1173	133.06	9.813
7900	4742	6766	4754	76	63	-90.51	-1872	1914	1307	1169	137.62	9.494
7904	4742	6771	4754	76	63	-90.51	-1875	1917	1307	1169	137.84	9.479
8000	4742	6866	4754	78	66	-90.51	-1942	1985	1307	1165	142.41	9.180
8004	4742	6870	4754	78	66	-90.51	-1945	1988	1307	1165	142.63	9.167
8100	4741	6966	4753	80	68	-90.51	-2012	2057	1308	1161	147.21	8.886
8104	4741	6970	4753	80	68	-90.51	-2015	2060	1308	1161	147.43	8.874
8200	4740	7066	4752	83	70	-90.51	-2081	2129	1309	1157	152.03	8.610
8204	4740	7070	4752	83	71	-90.51	-2084	2132	1309	1157	152.24	8.599
8300	4740	7166	4751	85	73	-90.51	-2151	2200	1310	1153	156.85	8.351
8304	4740	7170	4751	85	73	-90.51	-2154	2204	1310	1153	157.07	8.340
8400	4739	7266	4751	87	75	-90.51	-2221	2272	1311	1149	161.69	8.106
8404	4739	7270	4751	88	75	-90.51	-2224	2275	1311	1149	161.90	8.096
8500	4738	7366	4750	90	78	-90.51	-2290	2344	1311	1145	166.53	7.876
8504	4738	7370	4750	90	78	-90.51	-2294	2347	1312	1145	166.74	7.866
8600	4737	7466	4749	92	80	-90.51	-2360	2416	1312	1141	171.38	7.657
8604	4737	7470	4749	92	80	-90.51	-2363	2419	1312	1141	171.59	7.648
8700	4737	7566	4749	95	83	-90.51	-2430	2487	1313	1137	176.24	7.451
8704	4737	7570	4749	95	83	-90.51	-2433	2490	1313	1137	176.45	7.442
8800	4736	7666	4748	97	85	-90.51	-2499	2559	1314	1133	181.10	7.255
8804	4736	7670	4748	97	85	-90.51	-2503	2562	1314	1133	181.32	7.247
8900	4735	7766	4747	99	87	-90.51	-2569	2631	1315	1129	185.97	7.070
8904	4735	7770	4747	100	88	-90.51	-2572	2634	1315	1129	186.19	7.062
9000	4735	7866	4747	102	90	-90.51	-2639	2702	1316	1125	190.85	6.894
9004	4735	7870	4746	102	90	-90.51	-2642	2706	1316	1125	191.06	6.886
9100	4734	7966	4746	104	92	-90.51	-2708	2774	1316	1121	195.73	6.726
9104	4734	7970	4746	104	92	-90.51	-2712	2777	1316	1121	195.95	6.719
9200	4733	8066	4745	107	95	-90.51	-2778	2846	1317	1117	200.62	6.566
9204	4733	8070	4745	107	95	-90.51	-2781	2849	1317	1116	200.83	6.559
9300	4732	8166	4744	109	97	-90.51	-2848	2918	1318	1113	205.51	6.414
9304	4732	8170	4744	109	97	-90.51	-2851	2921	1318	1112	205.72	6.407
9400	4732	8266	4744	112	100	-90.51	-2918	2989	1319	1109	210.40	6.269
9404	4732	8270	4744	112	100	-90.51	-2921	2993	1319	1108	210.62	6.262
9500	4731	8366	4743	114	102	-90.51	-2987	3061	1320	1104	215.30	6.130
9504	4731	8370	4743	114	102	-90.51	-2990	3064	1320	1104	215.52	6.124
9600	4730	8466	4742	116	105	-90.51	-3057	3133	1321	1100	220.20	5.997
9604	4730	8470	4742	117	105	-90.51	-3060	3136	1321	1100	220.42	5.991
9700	4730	8566	4742	119	107	-90.51	-3127	3205	1321	1096	225.11	5.870
9704	4730	8570	4742	119	107	-90.51	-3130	3208	1321	1096	225.33	5.864
9800	4729	8666	4741	121	109	-90.51	-3196	3276	1322	1092	230.02	5.748
9804	4729	8670	4741	121	110	-90.51	-3199	3279	1322	1092	230.24	5.743
9900	4728	8766	4740	124	112	-90.51	-3266	3348	1323	1088	234.93	5.631
9904	4728	8770	4740	124	112	-90.51	-3269	3351	1323	1088	235.15	5.626
10,000	4727	8866	4739	126	114	-90.51	-3336	3420	1324	1084	239.85	5.519

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,004	4727	8870	4739	126	115	-90.51	-3339	3423	1324	1084	240.07	5.515	
10,100	4727	8966	4739	129	117	-90.51	-3405	3491	1325	1080	244.77	5.412	
10,104	4727	8970	4739	129	117	-90.51	-3408	3495	1325	1080	244.99	5.407	
10,200	4726	9066	4738	131	119	-90.51	-3475	3563	1325	1076	249.69	5.309	
10,204	4726	9070	4738	131	119	-90.51	-3478	3566	1326	1076	249.91	5.304	
10,300	4725	9166	4737	134	122	-90.51	-3545	3635	1326	1072	254.61	5.209	
10,304	4725	9170	4737	134	122	-90.51	-3548	3638	1326	1072	254.83	5.205	
10,400	4725	9266	4737	136	124	-90.51	-3614	3707	1327	1068	259.54	5.113	
10,404	4725	9270	4737	136	124	-90.51	-3617	3710	1327	1067	259.76	5.109	
10,500	4724	9366	4736	138	127	-90.51	-3684	3778	1328	1063	264.46	5.021	
10,504	4724	9370	4736	139	127	-90.51	-3687	3781	1328	1063	264.68	5.017	
10,600	4723	9466	4735	141	129	-90.51	-3754	3850	1329	1059	269.39	4.933	
10,604	4723	9470	4735	141	129	-90.51	-3757	3853	1329	1059	269.61	4.929	
10,700	4722	9566	4734	143	132	-90.51	-3823	3922	1330	1055	274.32	4.847	
10,704	4722	9570	4734	144	132	-90.51	-3826	3925	1330	1055	274.54	4.843	
10,800	4722	9666	4734	146	134	-90.51	-3893	3993	1330	1051	279.26	4.764	
10,804	4722	9670	4734	146	134	-90.51	-3896	3997	1330	1051	279.48	4.761	
10,900	4721	9766	4733	148	137	-90.51	-3963	4065	1331	1047	284.19	4.684	
10,904	4721	9770	4733	148	137	-90.51	-3966	4068	1331	1047	284.41	4.681	
11,000	4720	9866	4732	151	139	-90.51	-4032	4137	1332	1043	289.13	4.607	
11,004	4720	9870	4732	151	139	-90.51	-4035	4140	1332	1043	289.35	4.604	
11,100	4720	9966	4732	153	142	-90.51	-4102	4209	1333	1039	294.07	4.533	
11,104	4720	9970	4732	153	142	-90.51	-4105	4212	1333	1039	294.29	4.529	
11,200	4719	10,066	4731	156	144	-90.51	-4172	4280	1334	1035	299.01	4.461	
11,204	4719	10,070	4731	156	144	-90.51	-4175	4284	1334	1035	299.23	4.457	
11,300	4718	10,166	4730	158	146	-90.51	-4241	4352	1335	1031	303.95	4.391	
11,304	4718	10,170	4730	158	147	-90.51	-4244	4355	1335	1030	304.17	4.388	
11,400	4717	10,266	4730	161	149	-90.51	-4311	4424	1335	1026	308.89	4.323	
11,404	4717	10,270	4730	161	149	-90.51	-4314	4427	1335	1026	309.11	4.320	
11,500	4717	10,366	4729	163	151	-90.51	-4381	4495	1336	1022	313.83	4.258	
11,504	4717	10,370	4729	163	152	-90.51	-4384	4499	1336	1022	314.05	4.255	
11,600	4716	10,466	4728	166	154	-90.51	-4450	4567	1337	1018	318.78	4.194	
11,604	4716	10,470	4728	166	154	-90.51	-4454	4570	1337	1018	319.00	4.191	
11,700	4715	10,566	4727	168	156	-90.51	-4520	4639	1338	1014	323.72	4.133	
11,704	4715	10,570	4727	168	156	-90.51	-4523	4642	1338	1014	323.94	4.130	
11,800	4715	10,666	4727	170	159	-90.51	-4590	4711	1339	1010	328.67	4.073	
11,804	4715	10,670	4727	171	159	-90.51	-4593	4714	1339	1010	328.89	4.070	
11,900	4714	10,766	4726	173	161	-90.51	-4659	4782	1339	1006	333.62	4.015	
11,904	4714	10,770	4726	173	161	-90.51	-4663	4786	1340	1006	333.84	4.013	
12,000	4713	10,866	4725	175	164	-90.51	-4729	4854	1340	1002	338.57	3.959	
12,004	4713	10,870	4725	175	164	-90.51	-4732	4857	1340	1002	338.79	3.956	
12,100	4712	10,966	4725	178	166	-90.51	-4799	4926	1341	998	343.52	3.904	
12,104	4712	10,970	4725	178	166	-90.51	-4802	4929	1341	997	343.74	3.902	
12,200	4712	11,066	4724	180	169	-90.51	-4868	4998	1342	993	348.47	3.851	
12,204	4712	11,070	4724	180	169	-90.51	-4872	5001	1342	993	348.69	3.849	
12,300	4711	11,166	4723	183	171	-90.51	-4938	5069	1343	989	353.42	3.799	
12,304	4711	11,170	4723	183	171	-90.51	-4941	5072	1343	989	353.64	3.797	
12,400	4710	11,266	4722	185	174	-90.51	-5008	5141	1344	985	358.37	3.749	
12,404	4710	11,270	4722	185	174	-90.51	-5011	5144	1344	985	358.59	3.747	
12,500	4710	11,366	4722	188	176	-90.51	-5078	5213	1344	981	363.32	3.700	
12,504	4710	11,370	4722	188	176	-90.51	-5081	5216	1344	981	363.54	3.698	
12,600	4709	11,466	4721	190	179	-90.51	-5147	5284	1345	977	368.28	3.653	

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 130H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
12,604	4709	11,470	4721	190	179	-90.51	-5150	5288	1345	977	368.50	3.651	
12,700	4708	11,566	4720	193	181	-90.51	-5217	5356	1346	973	373.23	3.607	
12,704	4708	11,570	4720	193	181	-90.51	-5220	5359	1346	973	373.45	3.605	
12,800	4707	11,666	4720	195	184	-90.51	-5287	5428	1347	969	378.19	3.561	
12,804	4707	11,670	4720	195	184	-90.51	-5290	5431	1347	969	378.41	3.559	
12,900	4707	11,766	4719	198	186	-90.51	-5356	5500	1348	965	383.14	3.518	
12,904	4707	11,770	4719	198	186	-90.51	-5359	5503	1348	964	383.36	3.516	
13,000	4706	11,866	4718	200	189	-90.51	-5426	5571	1349	960	388.10	3.475	
13,004	4706	11,870	4718	200	189	-90.51	-5429	5574	1349	960	388.32	3.473	
13,100	4705	11,966	4718	203	191	-90.51	-5496	5643	1349	956	393.06	3.433	
13,104	4705	11,970	4717	203	191	-90.51	-5499	5646	1349	956	393.28	3.431	
13,200	4705	12,066	4717	205	194	-90.51	-5565	5715	1350	952	398.01	3.392	
13,204	4705	12,070	4717	205	194	-90.51	-5568	5718	1350	952	398.23	3.391	
13,300	4704	12,166	4716	207	196	-90.51	-5635	5786	1351	948	402.97	3.353	
13,304	4704	12,170	4716	208	196	-90.51	-5638	5790	1351	948	403.19	3.351	
13,400	4703	12,266	4715	210	199	-90.51	-5705	5858	1352	944	407.93	3.314	
13,404	4703	12,270	4715	210	199	-90.51	-5708	5861	1352	944	408.15	3.312	
13,500	4702	12,324	4715	212	200	-90.51	-5745	5900	1353	942	411.17	3.291 SF	
13,600	4702	12,324	4715	215	200	-90.51	-5745	5900	1361	950	410.50	3.315	
13,700	4701	12,324	4715	217	200	-90.51	-5745	5900	1376	968	407.71	3.374	
13,800	4700	12,324	4715	220	200	-90.51	-5745	5900	1398	995	402.98	3.468	
13,900	4700	12,324	4715	222	200	-90.51	-5745	5900	1426	1030	396.55	3.597	
14,000	4699	12,324	4715	225	200	-90.51	-5745	5900	1461	1072	388.72	3.759	
14,100	4698	12,324	4715	227	200	-90.51	-5745	5900	1502	1122	379.80	3.954	
14,200	4697	12,324	4715	230	200	-90.51	-5745	5900	1548	1178	370.08	4.183	
14,300	4697	12,324	4715	232	200	-90.51	-5745	5900	1599	1239	359.84	4.444	
14,400	4696	12,324	4715	235	200	-90.51	-5745	5900	1655	1305	349.31	4.737	
14,500	4695	12,324	4715	237	200	-90.51	-5745	5900	1714	1375	338.69	5.061	
14,600	4695	12,324	4715	240	200	-90.51	-5745	5900	1777	1449	328.13	5.417	
14,689	4694	12,324	4715	242	200	-90.51	-5745	5900	1836	1517	318.93	5.757	

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 144H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-179.58	-40	0	40					
100	100	100	100	0	0	-179.58	-40	0	40	40	0.46	86.594		
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	500	500	2	2	-66.48	-40	-1	40	37	3.31	12.076		
600	600	599	599	2	2	-66.40	-42	-5	40	36	4.00	9.952		
700	700	699	698	2	2	-66.24	-45	-13	39	35	4.71	8.369		
800	799	798	797	3	3	-66.00	-48	-23	39	33	5.45	7.127		
900	898	898	896	3	3	-65.68	-53	-37	38	32	6.24	6.113		
1000	996	997	994	4	3	-65.58	-60	-54	37	30	7.08	5.249		
1100	1094	1097	1092	4	4	-69.57	-66	-71	35	27	8.00	4.386		
1200	1191	1197	1190	5	4	-79.95	-72	-89	32	23	9.03	3.594		
1285	1272	1282	1273	5	5	-94.83	-78	-103	31	21	9.92	3.148 CC		
1300	1286	1297	1288	5	5	-98.00	-79	-106	31	21	10.06	3.109 ES		
1400	1381	1396	1385	6	5	-120.51	-85	-123	35	24	10.82	3.230		
1427	1407	1422	1411	6	5	-126.25	-87	-128	37	26	10.96	3.383		
1500	1475	1494	1482	7	6	-139.03	-92	-141	45	33	11.31	3.951		
1600	1569	1593	1579	7	6	-150.35	-98	-158	57	46	11.85	4.851		
1700	1663	1692	1676	8	7	-157.41	-104	-175	72	59	12.46	5.748		
1800	1757	1790	1773	9	7	-162.10	-111	-192	87	73	13.13	6.587		
1900	1851	1889	1870	9	8	-165.40	-117	-210	102	88	13.84	7.354		
2000	1945	1988	1967	10	8	-167.84	-123	-227	117	103	14.58	8.050		
2100	2039	2086	2064	11	9	-169.71	-130	-244	133	118	15.32	8.682		
2200	2133	2185	2161	12	9	-171.18	-136	-261	149	133	16.08	9.255		
2300	2227	2284	2257	12	10	-172.37	-142	-279	165	148	16.85	9.777		
2400	2321	2382	2354	13	10	-173.35	-149	-296	181	163	17.62	10.253		
2500	2415	2481	2451	14	11	-174.17	-155	-313	197	178	18.40	10.689		
2600	2509	2580	2548	15	11	-174.87	-161	-331	213	193	19.18	11.089		
2700	2603	2678	2645	15	12	-175.47	-168	-348	229	209	19.96	11.457		
2800	2697	2777	2742	16	12	-175.99	-174	-365	245	224	20.74	11.797		
2900	2791	2876	2839	17	13	-176.44	-180	-382	261	239	21.53	12.112		
3000	2884	2975	2936	18	13	-176.85	-187	-400	277	255	22.32	12.405		
3100	2978	3073	3033	18	14	-177.21	-193	-417	293	270	23.11	12.677		
3200	3072	3172	3130	19	14	-177.53	-199	-434	309	285	23.91	12.930		
3300	3166	3271	3227	20	15	-177.82	-206	-451	325	301	24.70	13.167		
3400	3260	3369	3324	21	15	-178.08	-212	-469	341	316	25.49	13.390		
3500	3354	3468	3421	21	16	-178.32	-218	-486	357	331	26.29	13.598		
3600	3448	3567	3518	22	16	-178.54	-225	-503	374	347	27.09	13.794		
3700	3542	3665	3615	23	17	-178.74	-231	-521	390	362	27.88	13.979		
3800	3636	3764	3712	24	17	-178.92	-237	-538	406	377	28.68	14.153		
3900	3730	3863	3809	24	18	-179.09	-244	-555	422	393	29.48	14.317		
4000	3824	3961	3906	25	18	-179.25	-250	-572	438	408	30.28	14.473		
4100	3918	4058	4001	26	19	-179.40	-256	-589	454	423	31.07	14.626		
4200	4012	4134	4075	27	19	-178.91	-265	-599	473	442	31.68	14.938		
4300	4106	4200	4140	27	19	-177.56	-278	-601	497	465	32.13	15.482		
4376	4177	4250	4188	28	19	-176.05	-292	-599	520	487	32.42	16.031		
4400	4200	4269	4206	28	20	-167.96	-298	-597	527	495	32.55	16.194		
4450	4247	4300	4235	29	20	-150.32	-309	-594	543	510	32.68	16.604		
4500	4294	4331	4263	29	20	-133.08	-321	-588	557	525	32.76	17.014		
4550	4341	4362	4291	29	20	-118.14	-333	-582	572	539	32.80	17.426		

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 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 144H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
4600	4387	4400	4323	29	20	-106.11	-351	-573	585	552	32.96	17.746		
4650	4432	4423	4343	30	20	-97.00	-362	-567	597	564	32.74	18.234		
4700	4475	4450	4364	30	20	-89.98	-375	-558	608	576	32.56	18.679		
4750	4517	4484	4390	30	20	-84.53	-393	-546	618	585	32.56	18.981		
4800	4556	4515	4413	30	20	-80.35	-410	-535	627	594	32.45	19.309		
4850	4592	4550	4437	30	20	-77.11	-431	-520	634	601	32.49	19.510		
4900	4626	4575	4454	30	20	-74.63	-446	-509	640	607	32.28	19.816		
4950	4656	4600	4469	30	20	-72.74	-462	-497	644	612	32.10	20.068		
5000	4683	4636	4490	30	20	-71.44	-485	-479	647	615	32.30	20.038		
5050	4706	4666	4506	30	20	-70.55	-505	-462	649	616	32.42	20.009		
5089	4722	4690	4517	30	20	-70.15	-521	-449	649	616	32.60	19.911		
5100	4725	4700	4522	30	20	-70.11	-528	-443	649	616	32.73	19.828		
5141	4738	4722	4531	30	20	-69.96	-543	-431	648	615	32.93	19.681		
5150	4741	4727	4533	30	20	-69.97	-547	-427	648	615	32.99	19.631		
5192	4750	4750	4542	30	20	-70.11	-562	-414	646	612	33.30	19.387		
5200	4752	4750	4542	30	20	-70.10	-562	-414	645	612	33.26	19.395		
5243	4758	4785	4554	30	20	-70.72	-587	-392	642	608	33.97	18.886		
5250	4758	4789	4555	30	20	-70.82	-590	-389	641	607	34.06	18.823		
5294	4761	4816	4563	30	20	-71.61	-609	-372	636	602	34.70	18.344		
5300	4761	4820	4564	30	20	-71.74	-612	-369	636	601	34.79	18.274		
5307	4761	4824	4565	30	20	-71.90	-615	-366	635	600	34.91	18.190		
5308	4761	4825	4565	30	20	-71.92	-615	-366	635	600	34.92	18.178		
5387	4760	4875	4575	30	21	-72.75	-651	-332	627	591	36.28	17.284		
5400	4760	4883	4576	30	21	-72.86	-657	-327	626	590	36.49	17.157		
5481	4760	4937	4581	30	21	-73.27	-695	-290	622	584	37.96	16.394		
5500	4760	4950	4581	30	21	-73.31	-705	-280	622	584	38.28	16.249		
5579	4759	5021	4581	31	22	-73.32	-755	-230	622	581	40.25	15.446		
5600	4759	5042	4580	31	22	-73.31	-770	-215	622	581	40.77	15.246		
5679	4758	5122	4580	31	23	-73.31	-826	-158	621	578	42.96	14.464		
5700	4758	5142	4580	31	23	-73.31	-840	-144	621	578	43.56	14.263		
5779	4758	5222	4579	32	24	-73.30	-896	-88	621	575	46.16	13.457		
5800	4757	5242	4579	32	24	-73.30	-911	-73	621	574	46.82	13.266		
5879	4757	5322	4578	33	26	-73.29	-967	-17	621	571	49.62	12.513		
5900	4757	5342	4578	33	26	-73.29	-981	-2	621	571	50.30	12.342		
5979	4756	5422	4578	34	28	-73.29	-1037	54	621	568	53.05	11.700		
6000	4756	5442	4578	34	28	-73.29	-1052	69	621	567	53.98	11.495		
6079	4755	5522	4577	36	29	-73.28	-1107	125	620	563	56.99	10.886		
6100	4755	5542	4577	36	30	-73.28	-1122	140	620	562	57.83	10.726		
6179	4755	5622	4576	37	31	-73.27	-1178	196	620	559	60.95	10.173		
6200	4755	5642	4576	38	32	-73.27	-1193	211	620	558	61.80	10.032		
6279	4754	5722	4576	39	33	-73.27	-1248	267	620	555	65.02	9.532		
6300	4754	5742	4575	40	34	-73.26	-1263	282	620	554	65.89	9.406		
6379	4753	5822	4575	41	36	-73.26	-1319	338	620	550	69.18	8.956		
6400	4753	5842	4575	42	36	-73.26	-1334	353	619	549	70.06	8.842		
6479	4753	5922	4574	43	38	-73.25	-1389	409	619	546	73.41	8.436		
6500	4752	5942	4574	44	38	-73.25	-1404	424	619	545	74.31	8.333		
6579	4752	6022	4573	45	40	-73.24	-1460	480	619	541	77.71	7.966		
6600	4752	6042	4573	46	40	-73.24	-1474	495	619	540	78.61	7.873		
6679	4751	6122	4573	48	42	-73.24	-1530	551	619	537	82.06	7.540		
6700	4751	6142	4573	48	43	-73.23	-1545	566	619	536	82.97	7.456		
6779	4750	6222	4572	50	44	-73.23	-1601	622	618	532	86.45	7.154		
6800	4750	6242	4572	50	45	-73.23	-1615	637	618	531	87.38	7.078		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Design: F31 2409 - 144H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6879	4750	6322	4571	52	47	-73.22	-1671	693	618	527	90.89	6.802	
6900	4750	6342	4571	52	47	-73.22	-1686	708	618	526	91.82	6.732	
6979	4749	6422	4571	54	49	-73.21	-1742	764	618	523	95.36	6.480	
7000	4749	6442	4570	55	49	-73.21	-1756	779	618	522	96.29	6.417	
7079	4748	6522	4570	56	51	-73.21	-1812	835	618	518	99.85	6.186	
7100	4748	6542	4570	57	52	-73.21	-1827	850	618	517	100.79	6.128	
7179	4748	6622	4569	59	54	-73.20	-1883	906	617	513	104.37	5.915	
7200	4747	6642	4569	59	54	-73.20	-1897	921	617	512	105.32	5.862	
7279	4747	6722	4568	61	56	-73.19	-1953	977	617	508	108.92	5.666	
7300	4747	6742	4568	61	56	-73.19	-1968	992	617	507	109.87	5.617	
7379	4746	6822	4568	63	58	-73.19	-2023	1048	617	503	113.48	5.436	
7400	4746	6842	4568	64	59	-73.18	-2038	1063	617	502	114.44	5.390	
7479	4745	6922	4567	66	61	-73.18	-2094	1119	617	499	118.06	5.223	
7500	4745	6942	4567	66	61	-73.18	-2109	1133	617	498	119.02	5.180	
7579	4745	7022	4566	68	63	-73.17	-2164	1190	616	494	122.66	5.025	
7600	4745	7042	4566	68	63	-73.17	-2179	1204	616	493	123.62	4.986	
7679	4744	7121	4566	70	65	-73.16	-2235	1261	616	489	127.26	4.841	
7700	4744	7142	4565	71	66	-73.16	-2250	1275	616	488	128.23	4.804	
7779	4743	7221	4565	73	68	-73.16	-2305	1332	616	484	131.88	4.669	
7800	4743	7242	4565	73	68	-73.15	-2320	1346	616	483	132.85	4.635	
7879	4743	7321	4564	75	70	-73.15	-2376	1402	616	479	136.52	4.509	
7900	4742	7342	4564	76	71	-73.15	-2391	1417	616	478	137.48	4.477	
7979	4742	7421	4563	77	73	-73.14	-2446	1473	615	474	141.16	4.359	
8000	4742	7442	4563	78	73	-73.14	-2461	1488	615	473	142.13	4.329	
8079	4741	7521	4563	80	75	-73.13	-2517	1544	615	469	145.81	4.218	
8100	4741	7542	4563	80	75	-73.13	-2531	1559	615	468	146.78	4.190	
8179	4740	7621	4562	82	77	-73.13	-2587	1615	615	464	150.46	4.086	
8200	4740	7642	4562	83	78	-73.13	-2602	1630	615	463	151.44	4.059	
8279	4740	7721	4561	85	80	-73.12	-2658	1686	614	459	155.13	3.961	
8300	4740	7742	4561	85	80	-73.12	-2672	1701	614	458	156.10	3.936	
8379	4739	7821	4561	87	82	-73.11	-2728	1757	614	454	159.80	3.844	
8400	4739	7842	4560	87	83	-73.11	-2743	1772	614	453	160.77	3.820	
8479	4738	7921	4560	89	85	-73.11	-2799	1828	614	449	164.47	3.733	
8500	4738	7942	4560	90	85	-73.10	-2813	1843	614	448	165.45	3.711	
8579	4738	8021	4559	92	87	-73.10	-2869	1899	614	445	169.16	3.628	
8600	4737	8042	4559	92	88	-73.10	-2884	1914	614	444	170.13	3.607	
8679	4737	8121	4558	94	89	-73.09	-2940	1970	613	440	173.84	3.529	
8700	4737	8142	4558	95	90	-73.09	-2954	1985	613	439	174.82	3.509	
8779	4736	8221	4558	97	92	-73.08	-3010	2041	613	435	178.53	3.434	
8800	4736	8242	4558	97	92	-73.08	-3025	2056	613	434	179.51	3.415	
8879	4735	8321	4557	99	94	-73.08	-3080	2112	613	430	183.23	3.345	
8900	4735	8342	4557	99	95	-73.07	-3095	2127	613	429	184.21	3.327	
8979	4735	8421	4556	101	97	-73.07	-3151	2183	613	425	187.93	3.260	
9000	4735	8442	4556	102	97	-73.07	-3166	2198	613	424	188.91	3.243	
9079	4734	8521	4556	104	99	-73.06	-3221	2254	612	420	192.63	3.179	
9100	4734	8542	4555	104	100	-73.06	-3236	2269	612	419	193.61	3.163	
9179	4733	8621	4555	106	102	-73.05	-3292	2325	612	415	197.34	3.102	
9200	4733	8642	4555	107	102	-73.05	-3307	2340	612	414	198.32	3.086	
9279	4733	8721	4554	109	104	-73.05	-3362	2396	612	410	202.05	3.028	
9300	4732	8742	4554	109	105	-73.04	-3377	2411	612	409	203.03	3.013	
9379	4732	8821	4553	111	107	-73.04	-3433	2467	612	405	206.76	2.958	
9400	4732	8842	4553	112	107	-73.04	-3447	2482	612	404	207.74	2.944	

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 124H - Slot 4
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:	124H	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		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)			
9479	4731	8921	4553	114	109	-73.03	-3503	2538	611	400	211.47	2.891	
9500	4731	8942	4553	114	110	-73.03	-3518	2553	611	399	212.46	2.877	
9579	4730	9021	4552	116	111	-73.02	-3574	2609	611	395	216.19	2.826	
9600	4730	9042	4552	116	112	-73.02	-3588	2623	611	394	217.17	2.813	
9679	4730	9121	4551	118	114	-73.02	-3644	2680	611	390	220.91	2.765	
9700	4730	9142	4551	119	114	-73.01	-3659	2694	611	389	221.89	2.752	
9779	4729	9221	4551	121	116	-73.01	-3715	2751	611	385	225.63	2.706	
9800	4729	9242	4550	121	117	-73.01	-3729	2765	610	384	226.61	2.694	
9879	4728	9321	4550	123	119	-73.00	-3785	2821	610	380	230.35	2.649	
9900	4728	9342	4550	124	119	-73.00	-3800	2836	610	379	231.33	2.638	
9979	4728	9421	4549	126	121	-72.99	-3856	2892	610	375	235.07	2.595	
10,000	4727	9442	4549	126	122	-72.99	-3870	2907	610	374	236.06	2.584	
10,079	4727	9521	4549	128	124	-72.99	-3926	2963	610	370	239.80	2.543	
10,100	4727	9542	4548	129	124	-72.98	-3941	2978	610	369	240.78	2.532	
10,179	4726	9621	4548	131	126	-72.98	-3996	3034	609	365	244.53	2.492	
10,200	4726	9642	4548	131	127	-72.98	-4011	3049	609	364	245.51	2.482	
10,279	4725	9721	4547	133	129	-72.97	-4067	3105	609	360	249.25	2.444	
10,300	4725	9742	4547	134	129	-72.97	-4082	3120	609	359	250.24	2.434	
10,379	4725	9821	4546	136	131	-72.96	-4137	3176	609	355	253.98	2.398	
10,400	4725	9842	4546	136	132	-72.96	-4152	3191	609	354	254.97	2.388	
10,479	4724	9921	4546	138	134	-72.96	-4208	3247	609	350	258.71	2.353	
10,500	4724	9942	4546	138	134	-72.96	-4223	3262	609	349	259.70	2.343	
10,579	4723	10,021	4545	140	136	-72.95	-4278	3318	608	345	263.45	2.309	
10,600	4723	10,042	4545	141	137	-72.95	-4293	3333	608	344	264.43	2.301	
10,679	4723	10,121	4544	143	139	-72.94	-4349	3389	608	340	268.18	2.268	
10,700	4722	10,142	4544	143	139	-72.94	-4364	3404	608	339	269.17	2.259	
10,779	4722	10,221	4544	145	141	-72.93	-4419	3460	608	335	272.91	2.227	
10,800	4722	10,242	4543	146	141	-72.93	-4434	3475	608	334	273.90	2.219	
10,879	4721	10,321	4543	148	143	-72.93	-4490	3531	608	330	277.65	2.188	
10,900	4721	10,342	4543	148	144	-72.93	-4504	3546	608	329	278.64	2.180	
10,979	4720	10,421	4542	150	146	-72.92	-4560	3602	607	325	282.38	2.151	
11,000	4720	10,442	4542	151	146	-72.92	-4575	3617	607	324	283.37	2.143	
11,079	4720	10,521	4541	153	148	-72.91	-4631	3673	607	320	287.12	2.114	
11,100	4720	10,542	4541	153	149	-72.91	-4645	3688	607	319	288.11	2.107	
11,179	4719	10,621	4541	155	151	-72.90	-4701	3744	607	315	291.86	2.079	
11,200	4719	10,642	4541	156	151	-72.90	-4716	3759	607	314	292.85	2.072	
11,279	4718	10,721	4540	158	153	-72.90	-4772	3815	607	310	296.60	2.045	
11,300	4718	10,742	4540	158	154	-72.89	-4786	3830	606	309	297.59	2.038	
11,379	4718	10,821	4539	160	156	-72.89	-4842	3886	606	305	301.33	2.012	
11,400	4717	10,842	4539	161	156	-72.89	-4857	3901	606	304	302.32	2.005	
11,479	4717	10,921	4539	163	158	-72.88	-4913	3957	606	300	306.07	1.980	
11,500	4717	10,942	4538	163	159	-72.88	-4927	3972	606	299	307.06	1.973	
11,579	4716	11,021	4538	165	161	-72.87	-4983	4028	606	295	310.81	1.949	
11,600	4716	11,042	4538	166	161	-72.87	-4998	4043	606	294	311.80	1.943	
11,679	4715	11,121	4537	167	163	-72.87	-5053	4099	605	290	315.55	1.919	
11,700	4715	11,142	4537	168	164	-72.86	-5068	4113	605	289	316.54	1.913	
11,779	4715	11,221	4536	170	166	-72.86	-5124	4170	605	285	320.29	1.890	
11,800	4715	11,242	4536	170	166	-72.86	-5139	4184	605	284	321.28	1.884	
11,879	4714	11,321	4536	172	168	-72.85	-5194	4241	605	280	325.03	1.861	
11,900	4714	11,342	4536	173	169	-72.85	-5209	4255	605	279	326.02	1.855	
11,979	4713	11,421	4535	175	171	-72.84	-5265	4311	605	275	329.78	1.834	
12,000	4713	11,442	4535	175	171	-72.84	-5280	4326	605	274	330.77	1.828	

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 124H - Slot 4
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:	124H	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		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)	Major Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
12,079	4713	11,521	4534	177	173	-72.84	-5335	4382	604	270	334.52	1.807		
12,100	4712	11,542	4534	178	174	-72.83	-5350	4397	604	269	335.51	1.801		
12,179	4712	11,621	4534	180	176	-72.83	-5406	4453	604	265	339.26	1.781		
12,200	4712	11,642	4533	180	176	-72.83	-5420	4468	604	264	340.25	1.775		
12,279	4711	11,721	4533	182	178	-72.82	-5476	4524	604	260	344.00	1.755		
12,300	4711	11,742	4533	183	179	-72.82	-5491	4539	604	259	344.99	1.750		
12,379	4710	11,821	4532	185	180	-72.81	-5547	4595	604	255	348.74	1.731		
12,400	4710	11,842	4532	185	181	-72.81	-5561	4610	604	254	349.73	1.726		
12,479	4710	11,921	4531	187	183	-72.81	-5617	4666	603	250	353.49	1.707		
12,500	4710	11,942	4531	188	183	-72.80	-5632	4681	603	249	354.48	1.702		
12,579	4709	12,021	4531	190	185	-72.80	-5688	4737	603	245	358.23	1.684		
12,600	4709	12,042	4531	190	186	-72.80	-5702	4752	603	244	359.22	1.679		
12,679	4708	12,121	4530	192	188	-72.79	-5758	4808	603	240	362.97	1.661		
12,700	4708	12,142	4530	193	188	-72.79	-5773	4823	603	239	363.96	1.656		
12,779	4708	12,221	4529	195	190	-72.78	-5829	4879	603	235	367.72	1.639		
12,800	4707	12,242	4529	195	191	-72.78	-5843	4894	603	234	368.71	1.634		
12,879	4707	12,321	4529	197	193	-72.78	-5899	4950	602	230	372.46	1.617		
12,900	4707	12,342	4528	198	193	-72.77	-5914	4965	602	229	373.45	1.613		
12,979	4706	12,421	4528	200	195	-72.77	-5969	5021	602	225	377.20	1.596		
13,000	4706	12,442	4528	200	196	-72.77	-5984	5036	602	224	378.19	1.592		
13,079	4705	12,521	4527	202	198	-72.76	-6040	5092	602	220	381.95	1.576		
13,100	4705	12,542	4527	203	198	-72.76	-6055	5107	602	219	382.94	1.571		
13,179	4705	12,621	4526	204	200	-72.75	-6110	5163	602	215	386.69	1.556		
13,200	4705	12,642	4526	205	201	-72.75	-6125	5178	601	214	387.68	1.551		
13,279	4704	12,721	4526	207	203	-72.74	-6181	5234	601	210	391.43	1.536		
13,300	4704	12,742	4526	207	203	-72.74	-6196	5249	601	209	392.42	1.532		
13,379	4703	12,821	4525	209	205	-72.74	-6251	5305	601	205	396.18	1.517		
13,400	4703	12,842	4525	210	206	-72.74	-6266	5320	601	204	397.17	1.513		
13,479	4703	12,921	4524	212	208	-72.73	-6322	5376	601	200	400.92	1.498	Level 3	
13,500	4702	12,942	4524	212	208	-72.73	-6337	5391	601	199	401.91	1.495	Level 3	
13,579	4702	13,021	4524	214	210	-72.72	-6392	5447	600	195	405.66	1.480	Level 3	
13,600	4702	13,042	4523	215	211	-72.72	-6407	5462	600	194	406.66	1.476	Level 3	
13,679	4701	13,121	4523	217	213	-72.71	-6463	5518	600	190	410.41	1.462	Level 3	
13,700	4701	13,142	4523	217	213	-72.71	-6477	5532	600	189	411.40	1.459	Level 3	
13,779	4700	13,221	4522	219	215	-72.71	-6533	5589	600	185	415.15	1.445	Level 3	
13,800	4700	13,242	4522	220	216	-72.70	-6548	5603	600	184	416.14	1.441	Level 3	
13,879	4700	13,321	4521	222	218	-72.70	-6604	5660	600	180	419.90	1.428	Level 3	
13,900	4700	13,342	4521	222	218	-72.70	-6618	5674	600	179	420.89	1.425	Level 3	
13,979	4699	13,421	4521	224	220	-72.69	-6674	5731	599	175	424.64	1.412	Level 3	
14,000	4699	13,442	4521	225	221	-72.69	-6689	5745	599	174	425.63	1.408	Level 3	
14,079	4698	13,521	4520	227	223	-72.68	-6745	5801	599	170	429.38	1.395	Level 3	
14,100	4698	13,542	4520	227	223	-72.68	-6759	5816	599	169	430.37	1.392	Level 3	
14,179	4698	13,621	4519	229	225	-72.68	-6815	5872	599	165	434.13	1.379	Level 3	
14,200	4697	13,642	4519	230	226	-72.67	-6830	5887	599	164	435.12	1.376	Level 3	
14,222	4697	13,663	4519	230	226	-72.67	-6844	5902	599	163	436.09	1.373	Level 3, SF	
14,300	4697	13,663	4519	232	226	-72.67	-6844	5902	604	172	431.55	1.399	Level 3	
14,400	4696	13,663	4519	235	226	-72.67	-6844	5902	625	208	416.18	1.501		
14,500	4695	13,663	4519	237	226	-72.67	-6844	5902	660	267	393.05	1.679		
14,600	4695	13,663	4519	240	226	-72.67	-6844	5902	708	342	365.87	1.935		
14,689	4694	13,663	4519	242	226	-72.67	-6844	5902	759	418	340.95	2.226		

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 124H - Slot 4
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:	124H	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 - Big Yazzie 1 - OH - OH													Offset Site Error:	0 ft
Survey Program: 672-INCLINOMETER													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	156.29	-3669	1612	4009					
100	100	0	0	0	0	156.29	-3669	1612	4007	4007	0.31	N/A		
140	140	23	23	0	1	156.29	-3669	1612	4007	4006	1.16	3,466.888		
200	200	83	83	1	3	156.29	-3669	1612	4007	4004	3.19	1,257.097		
300	300	183	183	1	6	156.29	-3669	1612	4007	4000	6.58	608.710		
400	400	283	283	1	9	156.29	-3669	1612	4007	3997	9.98	401.582		
425	425	308	308	1	9	156.29	-3669	1612	4007	3996	10.83	370.099		
500	500	383	383	2	12	-90.65	-3669	1612	4007	3994	13.36	299.828		
600	600	483	483	2	15	-90.71	-3669	1612	4007	3990	16.74	239.353		
700	700	583	583	2	18	-90.82	-3669	1612	4007	3987	20.13	199.110		
800	799	682	682	3	21	-90.98	-3669	1612	4007	3984	23.52	170.392		
900	898	781	781	3	24	-91.18	-3669	1612	4008	3981	26.92	148.855		
1000	996	879	879	4	27	-91.43	-3669	1612	4008	3978	30.34	132.093		
1100	1094	974	974	4	30	-91.71	-3668	1612	4009	3975	33.70	118.954		
1200	1191	1068	1068	5	32	-92.03	-3669	1612	4009	3972	37.06	108.199		
1300	1286	1169	1169	5	36	-92.42	-3669	1612	4011	3970	40.72	98.495		
1400	1381	1264	1264	6	38	-92.81	-3669	1612	4012	3968	44.22	90.727		
1427	1407	1290	1290	6	39	-92.93	-3669	1612	4013	3968	45.17	88.841		
1500	1475	1357	1357	7	41	-93.26	-3668	1612	4013	3966	47.72	84.101		
1600	1569	1440	1440	7	44	-93.67	-3668	1612	4016	3965	50.92	78.860		
1700	1663	1523	1523	8	46	-94.07	-3668	1612	4019	3964	54.14	74.229		
1800	1757	1640	1640	9	50	-94.64	-3669	1612	4022	3963	58.42	68.843		
1900	1851	1734	1734	9	53	-95.09	-3669	1612	4025	3963	61.99	64.924		
2000	1945	1826	1826	10	55	-95.54	-3668	1612	4028	3962	65.52	61.473		
2100	2039	1914	1914	11	58	-95.97	-3668	1612	4032	3963	68.92	58.496		
2200	2133	2002	2002	12	61	-96.39	-3669	1612	4036	3963	72.32	55.801		
2300	2227	2110	2110	12	64	-96.91	-3669	1612	4040	3964	76.33	52.930		
2400	2321	2204	2204	13	67	-97.37	-3669	1612	4045	3965	79.92	50.610		
2500	2415	2294	2294	14	70	-97.81	-3668	1612	4049	3966	83.40	48.547		
2600	2509	2382	2382	15	72	-98.23	-3668	1612	4054	3967	86.81	46.702		
2700	2603	2486	2486	15	75	-98.72	-3669	1612	4060	3969	90.69	44.768		
2800	2697	2580	2580	16	78	-99.17	-3669	1612	4066	3971	94.28	43.124		
2900	2791	2674	2674	17	81	-99.62	-3669	1612	4071	3974	97.86	41.604		
3000	2884	2768	2767	18	84	-100.07	-3669	1612	4078	3976	101.45	40.194		
3100	2978	2862	2861	18	87	-100.51	-3669	1612	4084	3979	105.04	38.884		
3200	3072	2915	2915	19	89	-100.76	-3669	1612	4091	3984	107.38	38.100		
3300	3166	2915	2915	20	89	-100.76	-3669	1612	4100	3992	108.05	37.948		
3400	3260	2915	2915	21	89	-100.76	-3669	1612	4112	4003	108.66	37.842		
3500	3354	2915	2915	21	89	-100.76	-3669	1612	4126	4016	109.20	37.779		
3600	3448	2915	2915	22	89	-100.76	-3669	1612	4142	4032	109.69	37.758		
3700	3542	2915	2915	23	89	-100.76	-3669	1612	4160	4050	110.12	37.779		
3800	3636	2915	2915	24	89	-100.76	-3669	1612	4181	4071	110.49	37.841		
3900	3730	2915	2915	24	89	-100.76	-3669	1612	4204	4094	110.81	37.942		
4000	3824	2915	2915	25	89	-100.76	-3669	1612	4230	4119	111.07	38.082		
4100	3918	2915	2915	26	89	-100.76	-3669	1612	4257	4146	111.28	38.259		
4200	4012	2915	2915	27	89	-100.76	-3669	1612	4287	4176	111.43	38.473		
4300	4106	2915	2915	27	89	-100.76	-3669	1612	4319	4207	111.54	38.722		
4376	4177	2915	2915	28	89	-100.76	-3669	1612	4345	4233	111.59	38.936		
4400	4200	2915	2915	28	89	-94.21	-3669	1612	4352	4241	111.59	39.004		
4450	4247	2915	2915	29	89	-79.24	-3669	1612	4366	4254	111.58	39.130		
4500	4294	2915	2915	29	89	-64.33	-3669	1612	4376	4264	111.52	39.235		
4550	4341	2915	2915	29	89	-51.41	-3669	1612	4381	4270	111.43	39.319		

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 124H - Slot 4
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:	124H	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 - Big Yazzie 1 - OH - OH											Offset Site Error:	0 ft
Survey Program: 672-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4600	4387	2915	2915	29	89	-41.19	-3669	1612	4383	4272	111.31	39.381
4650	4432	2915	2915	30	89	-33.39	-3669	1612	4381	4270	111.14	39.420
4700	4475	2915	2915	30	89	-27.45	-3669	1612	4375	4264	110.94	39.436
4750	4517	2915	2915	30	89	-22.87	-3669	1612	4365	4255	110.72	39.426
4800	4556	2915	2915	30	89	-19.23	-3669	1612	4351	4241	110.47	39.391
4850	4592	2915	2915	30	89	-16.26	-3669	1612	4334	4224	110.19	39.330
4900	4626	2915	2915	30	89	-13.76	-3669	1612	4313	4203	109.90	39.241
4950	4656	2915	2915	30	89	-11.57	-3669	1612	4288	4178	109.60	39.124
5000	4683	2915	2915	30	89	-9.57	-3669	1612	4260	4151	109.28	38.979
5050	4706	2915	2915	30	89	-7.65	-3669	1612	4228	4120	108.96	38.806
5100	4725	2915	2915	30	89	-5.72	-3669	1612	4194	4085	108.64	38.605
5150	4741	2915	2915	30	89	-3.64	-3669	1612	4157	4049	108.32	38.375
5200	4752	2915	2915	30	89	-1.26	-3669	1612	4117	4009	108.01	38.118
5250	4758	2915	2915	30	89	1.64	-3669	1612	4075	3967	107.71	37.834
5300	4761	2915	2915	30	89	5.43	-3669	1612	4031	3924	107.43	37.524
5308	4761	2915	2915	30	89	6.16	-3669	1612	4024	3916	107.39	37.471
5400	4760	2915	2915	30	89	6.16	-3669	1612	3941	3834	106.86	36.878
5500	4760	2915	2915	30	89	6.16	-3669	1612	3851	3745	106.26	36.241
5600	4759	2915	2915	31	89	6.16	-3669	1612	3762	3656	105.63	35.613
5700	4758	2915	2915	31	89	6.16	-3669	1612	3673	3568	104.96	34.995
5800	4757	2915	2915	32	89	6.16	-3669	1612	3585	3481	104.25	34.387
5900	4757	2915	2915	33	89	6.16	-3669	1612	3497	3394	103.50	33.789
6000	4756	2915	2915	34	89	6.16	-3669	1612	3410	3308	102.71	33.204
6100	4755	2915	2915	36	89	6.16	-3669	1612	3324	3222	101.87	32.632
6200	4755	2915	2915	38	89	6.16	-3669	1612	3239	3138	100.99	32.075
6300	4754	2915	2915	40	89	6.16	-3669	1612	3155	3055	100.04	31.533
6400	4753	2915	2915	42	89	6.16	-3669	1612	3071	2972	99.05	31.008
6500	4752	2915	2915	44	89	6.16	-3669	1612	2989	2891	97.99	30.501
6600	4752	2915	2915	46	89	6.16	-3669	1612	2907	2810	96.86	30.015
6700	4751	2915	2915	48	89	6.16	-3669	1612	2827	2731	95.67	29.551
6800	4750	2915	2915	50	89	6.16	-3669	1612	2748	2654	94.40	29.112
6900	4750	2915	2915	52	89	6.16	-3669	1612	2671	2578	93.06	28.701
7000	4749	2915	2915	55	89	6.16	-3669	1612	2595	2503	91.63	28.319
7100	4748	2915	2915	57	89	6.16	-3669	1612	2521	2431	90.11	27.972
7200	4747	2915	2915	59	89	6.16	-3669	1612	2448	2360	88.51	27.662
7299	4747	2915	2915	61	89	6.16	-3669	1612	2378	2292	86.81	27.396
7300	4747	2915	2915	61	89	6.16	-3669	1612	2378	2291	86.80	27.394
7398	4746	2915	2915	64	89	6.16	-3669	1612	2311	2226	85.03	27.177
7400	4746	2915	2915	64	89	6.16	-3669	1612	2310	2225	84.99	27.174
7497	4745	2915	2915	66	89	6.16	-3669	1612	2246	2162	83.13	27.012
7500	4745	2915	2915	66	89	6.16	-3669	1612	2244	2161	83.08	27.008
7596	4745	2915	2915	68	89	6.16	-3669	1612	2183	2102	81.13	26.906
7600	4745	2915	2915	68	89	6.16	-3669	1612	2180	2099	81.05	26.904
7695	4744	2915	2915	71	89	6.16	-3669	1612	2123	2044	79.01	26.870
7700	4744	2915	2915	71	89	6.16	-3669	1612	2120	2041	78.90	26.870
7794	4743	2915	2915	73	89	6.16	-3669	1612	2066	1989	76.77	26.912
7800	4743	2915	2915	73	89	6.16	-3669	1612	2063	1986	76.63	26.918
7893	4743	2915	2915	75	89	6.16	-3669	1612	2013	1938	74.41	27.046
7900	4742	2915	2915	76	89	6.16	-3669	1612	2009	1935	74.24	27.059
7992	4742	2915	2915	78	89	6.16	-3669	1612	1962	1891	71.92	27.285
8000	4742	2915	2915	78	89	6.16	-3669	1612	1958	1887	71.71	27.311
8090	4741	2915	2915	80	89	6.16	-3669	1612	1916	1847	69.31	27.647

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 124H - Slot 4
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:	124H	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 - Big Yazzie 1 - OH - OH											Offset Site Error:	0 ft
Survey Program: 672-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
8100	4741	2915	2915	80	89	6.16	-3669	1612	1912	1843	69.05	27.689
8189	4740	2915	2915	82	89	6.16	-3669	1612	1874	1807	66.57	28.151
8200	4740	2915	2915	83	89	6.16	-3669	1612	1870	1803	66.27	28.215
8288	4740	2915	2915	85	89	6.16	-3669	1612	1836	1773	63.72	28.817
8300	4740	2915	2915	85	89	6.16	-3669	1612	1832	1769	63.36	28.911
8387	4739	2915	2915	87	89	6.16	-3669	1612	1803	1742	60.78	29.667
8400	4739	2915	2915	87	89	6.16	-3669	1612	1799	1739	60.37	29.799
8485	4738	2915	2915	89	89	6.16	-3669	1612	1775	1717	57.78	30.716
8500	4738	2915	2915	90	89	6.16	-3669	1612	1771	1714	57.33	30.892
8584	4738	2915	2915	92	89	6.16	-3669	1612	1752	1697	54.81	31.957
8600	4737	2915	2915	92	89	6.16	-3669	1612	1748	1694	54.33	32.179
8682	4737	2915	2915	94	89	6.16	-3669	1612	1734	1682	52.02	33.328
8700	4737	2915	2915	95	89	6.16	-3669	1612	1731	1680	51.56	33.578
8781	4736	2915	2915	97	89	6.16	-3669	1612	1721	1672	49.74	34.611
8800	4736	2915	2915	97	89	6.16	-3669	1612	1720	1670	49.39	34.814
8879	4735	2915	2915	99	89	6.16	-3669	1612	1715	1666	48.62	35.268
8900	4735	2915	2915	99	89	6.16	-3669	1612	1714	1665	48.62	35.251 CC
9000	4735	2915	2915	102	89	6.16	-3669	1612	1714	1664	50.10	34.212 ES
9100	4734	2915	2915	104	89	6.16	-3669	1612	1720	1666	53.63	32.065
9200	4733	2915	2915	107	89	6.16	-3669	1612	1731	1673	58.26	29.720
9300	4732	2915	2915	109	89	6.16	-3669	1612	1749	1685	63.28	27.637
9400	4732	2915	2915	112	89	6.16	-3669	1612	1772	1703	68.33	25.924
9500	4731	2915	2915	114	89	6.16	-3669	1612	1800	1726	73.26	24.564
9600	4730	2915	2915	116	89	6.16	-3669	1612	1833	1755	77.97	23.507
9700	4730	2915	2915	119	89	6.16	-3669	1612	1871	1788	82.39	22.703
9800	4729	2915	2915	121	89	6.16	-3669	1612	1913	1826	86.52	22.110
9900	4728	2915	2915	124	89	6.16	-3669	1612	1959	1869	90.33	21.692
10,000	4727	2915	2915	126	89	6.16	-3669	1612	2010	1916	93.83	21.420
10,100	4727	2915	2915	129	89	6.16	-3669	1612	2064	1967	97.03	21.271
10,200	4726	2915	2915	131	89	6.16	-3669	1612	2121	2021	99.95	21.224 SF
10,300	4725	2915	2915	134	89	6.16	-3669	1612	2182	2079	102.59	21.266
10,400	4725	2915	2915	136	89	6.16	-3669	1612	2245	2140	104.99	21.384
10,500	4724	2915	2915	138	89	6.16	-3669	1612	2311	2204	107.16	21.566
10,600	4723	2915	2915	141	89	6.16	-3669	1612	2379	2270	109.12	21.805
10,700	4722	2915	2915	143	89	6.16	-3669	1612	2450	2339	110.88	22.092
10,800	4722	2915	2915	146	89	6.16	-3669	1612	2522	2410	112.48	22.423
10,900	4721	2915	2915	148	89	6.16	-3669	1612	2596	2483	113.92	22.792
11,000	4720	2915	2915	151	89	6.16	-3669	1612	2672	2557	115.22	23.194
11,100	4720	2915	2915	153	89	6.16	-3669	1612	2750	2634	116.40	23.625
11,200	4719	2915	2915	156	89	6.16	-3669	1612	2829	2711	117.46	24.084
11,300	4718	2915	2915	158	89	6.16	-3669	1612	2909	2791	118.42	24.565
11,400	4717	2915	2915	161	89	6.16	-3669	1612	2990	2871	119.29	25.068
11,500	4717	2915	2915	163	89	6.16	-3669	1612	3073	2953	120.08	25.590
11,600	4716	2915	2915	166	89	6.16	-3669	1612	3156	3036	120.80	26.130
11,700	4715	2915	2915	168	89	6.16	-3669	1612	3241	3119	121.45	26.685
11,800	4715	2915	2915	170	89	6.16	-3669	1612	3326	3204	122.04	27.254
11,900	4714	2915	2915	173	89	6.16	-3669	1612	3412	3290	122.59	27.836
12,000	4713	2915	2915	175	89	6.16	-3669	1612	3499	3376	123.08	28.429
12,100	4712	2915	2915	178	89	6.16	-3669	1612	3587	3463	123.53	29.034
12,200	4712	2915	2915	180	89	6.16	-3669	1612	3675	3551	123.95	29.648
12,300	4711	2915	2915	183	89	6.16	-3669	1612	3764	3639	124.33	30.271
12,400	4710	2915	2915	185	89	6.16	-3669	1612	3853	3728	124.68	30.902

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 124H - Slot 4
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:	124H	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 - Big Yazzie 1 - OH - OH													Offset Site Error:	0 ft	
Survey Program: 672-INCLINOMETER				Semi Major Axis		Offset Wellbore Centre				Rule Assigned:				Offset Well Error:	0 ft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
12,500	4710	2915	2915	188	89	6.16	-3669	1612	3943	3818	125.00	31.541			
12,600	4709	2915	2915	190	89	6.16	-3669	1612	4033	3908	125.30	32.187			
12,700	4708	2915	2915	193	89	6.16	-3669	1612	4124	3998	125.57	32.840			
12,800	4707	2915	2915	195	89	6.16	-3669	1612	4215	4089	125.83	33.498			
12,900	4707	2915	2915	198	89	6.16	-3669	1612	4306	4180	126.06	34.162			
13,000	4706	2915	2915	200	89	6.16	-3669	1612	4398	4272	126.28	34.831			
13,100	4705	2915	2915	203	89	6.16	-3669	1612	4491	4364	126.48	35.504			
13,200	4705	2915	2915	205	89	6.16	-3669	1612	4583	4457	126.67	36.182			
13,300	4704	2915	2915	207	89	6.16	-3669	1612	4676	4549	126.85	36.864			
13,400	4703	2915	2915	210	89	6.16	-3669	1612	4769	4642	127.01	37.550			
13,500	4702	2915	2915	212	89	6.16	-3669	1612	4863	4736	127.17	38.240			
13,600	4702	2915	2915	215	89	6.16	-3669	1612	4957	4829	127.31	38.932			
13,700	4701	2915	2915	217	89	6.16	-3669	1612	5050	4923	127.45	39.628			
13,800	4700	2915	2915	220	89	6.16	-3669	1612	5145	5017	127.58	40.326			
13,900	4700	2915	2915	222	89	6.16	-3669	1612	5239	5111	127.70	41.027			
14,000	4699	2915	2915	225	89	6.16	-3669	1612	5334	5206	127.81	41.730			
14,100	4698	2915	2915	227	89	6.16	-3669	1612	5428	5301	127.92	42.436			
14,200	4697	2915	2915	230	89	6.16	-3669	1612	5523	5395	128.02	43.144			
14,300	4697	2915	2915	232	89	6.16	-3669	1612	5619	5490	128.12	43.854			
14,400	4696	2915	2915	235	89	6.16	-3669	1612	5714	5586	128.22	44.565			
14,500	4695	2915	2915	237	89	6.16	-3669	1612	5809	5681	128.30	45.278			
14,600	4695	2915	2915	240	89	6.16	-3669	1612	5905	5777	128.39	45.993			
14,689	4694	2915	2915	242	89	6.16	-3669	1612	5990	5861	128.46	46.627			

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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 - January Jamboree 1 - OH - OH													Offset Site Error:	0 ft
Survey Program: 345-INCLINOMETER													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-140.19	-1189	-991	1547					
100	100	89	89	0	3	-140.19	-1189	-991	1547	1544	3.01	513.853		
200	200	189	189	1	6	-140.19	-1189	-991	1547	1541	6.41	241.525		
300	300	289	289	1	9	-140.19	-1189	-991	1547	1538	9.80	157.862		
400	400	389	389	1	12	-140.19	-1189	-991	1547	1534	13.20	117.248		
425	425	414	414	1	13	-140.19	-1189	-991	1547	1533	14.05	110.162		
500	500	489	489	2	15	-27.13	-1188	-991	1546	1530	16.57	93.315		
600	600	586	586	2	18	-27.24	-1189	-991	1543	1523	19.89	77.569		
700	700	689	689	2	21	-27.44	-1189	-991	1536	1512	23.34	65.793		
800	799	788	788	3	24	-27.73	-1189	-991	1526	1499	26.72	57.101		
900	898	886	886	3	27	-28.11	-1188	-991	1512	1482	30.07	50.285		
1000	996	984	984	4	30	-28.59	-1188	-991	1496	1463	33.41	44.787		
1100	1094	1080	1080	4	33	-29.18	-1189	-991	1477	1441	36.73	40.217		
1200	1191	1180	1180	5	36	-29.89	-1189	-991	1455	1415	40.15	36.245		
1300	1286	1275	1275	5	39	-30.71	-1189	-991	1431	1387	43.49	32.895		
1400	1381	1369	1369	6	42	-31.63	-1188	-991	1402	1355	46.78	29.973		
1427	1407	1394	1393	6	42	-31.90	-1188	-991	1394	1347	47.65	29.264		
1500	1475	1460	1460	7	44	-32.43	-1188	-991	1373	1323	50.00	27.458		
1600	1569	1550	1550	7	47	-33.18	-1188	-991	1344	1291	53.24	25.248		
1700	1663	1652	1652	8	50	-34.06	-1189	-991	1315	1258	56.84	23.141		
1800	1757	1745	1744	9	53	-34.85	-1187	-991	1286	1225	60.16	21.370		
1900	1851	1828	1827	9	56	-35.64	-1188	-991	1258	1194	63.22	19.891		
2000	1945	1934	1934	10	59	-36.69	-1189	-991	1230	1163	67.01	18.353		
2100	2039	2028	2028	11	62	-37.64	-1189	-991	1202	1131	70.43	17.064		
2200	2133	2122	2122	12	64	-38.62	-1188	-991	1174	1100	73.87	15.890		
2300	2227	2215	2214	12	67	-39.65	-1188	-991	1147	1069	77.29	14.837		
2400	2321	2307	2307	13	70	-40.73	-1188	-991	1120	1039	80.72	13.876		
2500	2415	2404	2404	14	73	-41.91	-1189	-991	1094	1010	84.31	12.974		
2600	2509	2498	2498	15	76	-43.11	-1189	-991	1068	980	87.83	12.158		
2700	2603	2592	2592	15	79	-44.36	-1189	-991	1042	951	91.37	11.408		
2800	2697	2684	2684	16	82	-45.62	-1188	-991	1017	922	94.88	10.717		
2900	2791	2776	2775	17	84	-46.96	-1188	-991	993	894	98.40	10.089		
3000	2884	2874	2873	18	87	-48.46	-1189	-991	969	867	102.13	9.490		
3100	2978	2968	2967	18	90	-49.96	-1189	-991	946	840	105.76	8.945		
3200	3072	3062	3061	19	93	-51.53	-1189	-991	924	814	109.42	8.440		
3300	3166	3153	3153	20	96	-53.11	-1187	-991	901	788	113.04	7.967		
3400	3260	3244	3244	21	99	-54.77	-1188	-991	880	763	116.64	7.545		
3500	3354	3344	3343	21	102	-56.67	-1189	-991	861	740	120.54	7.141		
3600	3448	3438	3437	22	104	-58.54	-1189	-991	842	717	124.29	6.771		
3700	3542	3532	3531	23	107	-60.48	-1189	-991	823	695	128.07	6.429		
3800	3636	3625	3625	24	110	-62.49	-1188	-991	806	674	131.85	6.113		
3900	3730	3719	3718	24	113	-64.57	-1188	-991	790	654	135.64	5.824		
4000	3824	3812	3811	25	116	-66.73	-1189	-991	775	636	139.44	5.560		
4100	3918	3907	3907	26	119	-69.01	-1189	-991	762	618	143.32	5.315		
4200	4012	4001	4001	27	122	-71.32	-1189	-991	749	602	147.15	5.093		
4300	4106	4095	4095	27	124	-73.70	-1188	-991	738	587	150.98	4.888		
4376	4177	4166	4165	28	127	-75.53	-1188	-991	731	577	153.86	4.749		
4400	4200	4188	4188	28	127	-69.23	-1188	-991	728	573	154.75	4.706		
4450	4247	4235	4234	29	129	-54.60	-1188	-991	720	564	156.59	4.601		
4500	4294	4282	4281	29	130	-39.75	-1188	-991	709	551	158.36	4.478		
4550	4341	4328	4328	29	131	-26.57	-1189	-991	695	534	160.06	4.339		
4600	4387	4377	4376	29	133	-15.75	-1189	-991	676	515	161.77	4.180		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
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:	124H	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 - January Jamboree 1 - OH - OH											Offset Site Error:	0 ft
Survey Program: 345-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
4650	4432	4422	4421	30	134	-6.88	-1189	-991	655	491	163.30	4.008
4700	4475	4465	4464	30	136	0.65	-1189	-991	630	465	164.73	3.822
4750	4517	4506	4506	30	137	7.49	-1189	-991	601	435	166.03	3.623
4800	4556	4545	4545	30	138	14.18	-1189	-991	571	403	167.20	3.413
4850	4592	4582	4581	30	139	21.21	-1189	-991	537	369	168.21	3.194
4900	4626	4615	4615	30	140	28.98	-1189	-991	502	333	169.04	2.969
4950	4656	4646	4645	30	141	37.74	-1189	-991	465	295	169.65	2.741
5000	4683	4672	4672	30	142	47.50	-1189	-991	427	257	170.01	2.513
5050	4706	4696	4695	30	143	57.81	-1189	-991	389	219	170.07	2.289
5100	4725	4715	4714	30	143	67.83	-1189	-991	353	183	169.76	2.077
5150	4741	4730	4730	30	144	76.57	-1189	-991	318	149	169.04	1.883
5200	4752	4741	4741	30	144	83.33	-1189	-991	289	121	167.93	1.718
5250	4758	4748	4747	30	144	87.80	-1189	-991	265	99	166.63	1.593
5300	4761	4750	4750	30	144	89.93	-1189	-991	251	86	165.66	1.518
5308	4761	4750	4750	30	144	90.06	-1189	-991	250	85	165.58	1.511
5342	4761	4750	4750	30	144	90.00	-1189	-991	248	82	165.61	1.497 Level 3, CC, ES, SF
5400	4760	4750	4749	30	144	89.90	-1189	-991	254	88	166.86	1.525
5500	4760	4749	4749	30	144	89.74	-1189	-991	294	123	170.57	1.722
5600	4759	4748	4748	31	144	89.57	-1189	-991	357	184	173.43	2.061
5700	4758	4748	4747	31	144	89.41	-1189	-991	435	260	175.11	2.484
5800	4757	4747	4746	32	144	89.24	-1189	-991	520	344	176.06	2.956
5900	4757	4746	4746	33	144	89.08	-1189	-991	610	434	176.61	3.455
6000	4756	4746	4745	34	144	88.91	-1189	-991	703	526	176.95	3.971
6100	4755	4745	4744	36	144	88.75	-1189	-991	797	620	177.16	4.499
6200	4755	4744	4744	38	144	88.58	-1189	-991	893	715	177.30	5.035
6300	4754	4743	4743	40	144	88.42	-1189	-991	989	812	177.39	5.576
6400	4753	4743	4742	42	144	88.25	-1189	-991	1086	909	177.45	6.121
6500	4752	4742	4741	44	144	88.09	-1189	-991	1184	1006	177.50	6.669
6600	4752	4741	4741	46	144	87.92	-1189	-991	1282	1104	177.52	7.220
6700	4751	4741	4740	48	144	87.76	-1189	-991	1380	1202	177.54	7.773
6800	4750	4740	4739	50	144	87.59	-1189	-991	1478	1301	177.55	8.327
6900	4750	4739	4739	52	144	87.43	-1189	-991	1577	1400	177.56	8.882
7000	4749	4738	4738	55	144	87.27	-1189	-991	1676	1498	177.56	9.439
7100	4748	4738	4737	57	144	87.10	-1189	-991	1775	1597	177.56	9.996
7200	4747	4737	4736	59	144	86.94	-1189	-991	1874	1696	177.56	10.554
7300	4747	4736	4736	61	144	86.77	-1189	-991	1973	1796	177.56	11.113
7400	4746	4736	4735	64	144	86.61	-1189	-991	2072	1895	177.55	11.672
7500	4745	4735	4734	66	144	86.44	-1189	-991	2172	1994	177.55	12.231
7600	4745	4734	4734	68	144	86.28	-1189	-991	2271	2094	177.55	12.791
7700	4744	4733	4733	71	144	86.11	-1189	-991	2370	2193	177.54	13.352
7800	4743	4733	4732	73	144	85.95	-1189	-991	2470	2292	177.53	13.913
7900	4742	4732	4731	76	144	85.78	-1189	-991	2569	2392	177.53	14.473
8000	4742	4731	4731	78	144	85.62	-1189	-991	2669	2491	177.52	15.035
8100	4741	4731	4730	80	144	85.46	-1189	-991	2769	2591	177.52	15.596
8200	4740	4730	4729	83	144	85.29	-1189	-991	2868	2691	177.51	16.158
8300	4740	4729	4729	85	144	85.13	-1189	-991	2968	2790	177.51	16.719
8400	4739	4728	4728	87	144	84.96	-1189	-991	3067	2890	177.50	17.281
8500	4738	4728	4727	90	144	84.80	-1189	-991	3167	2990	177.50	17.843
8600	4737	4727	4726	92	144	84.64	-1189	-991	3267	3089	177.50	18.405
8700	4737	4726	4726	95	144	84.47	-1189	-991	3367	3189	177.49	18.967
8800	4736	4726	4725	97	144	84.31	-1189	-991	3466	3289	177.49	19.530
8900	4735	4725	4724	99	143	84.15	-1189	-991	3566	3389	177.49	20.092

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 124H - Slot 4
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:	124H	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 - January Jamboree 1 - OH - OH												Offset Site Error:	0 ft
Survey Program: 345-INCLINOMETER												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9000	4735	4724	4724	102	143	83.98	-1189	-991	3666	3488	177.49	20.654	
9100	4734	4723	4723	104	143	83.82	-1189	-991	3766	3588	177.49	21.216	
9200	4733	4723	4722	107	143	83.66	-1189	-991	3865	3688	177.48	21.779	
9300	4732	4722	4721	109	143	83.49	-1189	-991	3965	3788	177.48	22.341	
9400	4732	4721	4721	112	143	83.33	-1189	-991	4065	3888	177.48	22.904	
9500	4731	4721	4720	114	143	83.17	-1189	-991	4165	3987	177.48	23.466	
9600	4730	4720	4719	116	143	83.01	-1189	-991	4265	4087	177.48	24.028	
9700	4730	4719	4719	119	143	82.84	-1189	-991	4364	4187	177.49	24.591	
9800	4729	4718	4718	121	143	82.68	-1189	-991	4464	4287	177.49	25.153	
9900	4728	4718	4717	124	143	82.52	-1189	-991	4564	4387	177.49	25.715	
10,000	4727	4717	4716	126	143	82.36	-1189	-991	4664	4487	177.49	26.277	
10,100	4727	4716	4716	129	143	82.19	-1189	-991	4764	4586	177.50	26.839	
10,200	4726	4716	4715	131	143	82.03	-1189	-991	4864	4686	177.50	27.401	
10,300	4725	4715	4714	134	143	81.87	-1189	-991	4964	4786	177.50	27.963	
10,400	4725	4714	4714	136	143	81.71	-1189	-991	5063	4886	177.51	28.525	
10,500	4724	4713	4713	138	143	81.55	-1189	-991	5163	4986	177.51	29.087	
10,600	4723	4713	4712	141	143	81.38	-1189	-991	5263	5086	177.52	29.649	
10,700	4722	4712	4711	143	143	81.22	-1189	-991	5363	5186	177.53	30.210	
10,800	4722	4711	4711	146	143	81.06	-1189	-991	5463	5285	177.53	30.772	
10,900	4721	4711	4710	148	143	80.90	-1189	-991	5563	5385	177.54	31.333	
11,000	4720	4710	4709	151	143	80.74	-1189	-991	5663	5485	177.55	31.895	
11,100	4720	4709	4709	153	143	80.58	-1189	-991	5763	5585	177.56	32.456	
11,200	4719	4708	4708	156	143	80.42	-1189	-991	5863	5685	177.56	33.017	
11,300	4718	4708	4707	158	143	80.26	-1189	-991	5963	5785	177.57	33.578	
11,400	4717	4707	4706	161	143	80.10	-1189	-991	6062	5885	177.58	34.139	
11,500	4717	4706	4706	163	143	79.94	-1189	-991	6162	5985	177.59	34.699	
11,600	4716	4706	4705	166	143	79.78	-1189	-991	6262	6085	177.60	35.260	
11,700	4715	4705	4704	168	143	79.62	-1189	-991	6362	6185	177.62	35.820	
11,800	4715	4704	4704	170	143	79.46	-1189	-991	6462	6285	177.63	36.380	
11,900	4714	4703	4703	173	143	79.30	-1189	-991	6562	6384	177.64	36.940	
12,000	4713	4703	4702	175	143	79.14	-1189	-991	6662	6484	177.65	37.500	
12,100	4712	4702	4701	178	143	78.98	-1189	-991	6762	6584	177.66	38.060	
12,200	4712	4701	4701	180	143	78.82	-1189	-991	6862	6684	177.68	38.620	
12,300	4711	4701	4700	183	143	78.66	-1189	-991	6962	6784	177.69	39.179	
12,400	4710	4700	4699	185	143	78.50	-1189	-991	7062	6884	177.71	39.738	
12,500	4710	4699	4699	188	143	78.35	-1189	-991	7162	6984	177.72	40.297	
12,600	4709	4698	4698	190	143	78.19	-1189	-991	7262	7084	177.74	40.856	
12,700	4708	4698	4697	193	143	78.03	-1189	-991	7362	7184	177.75	41.415	
12,800	4707	4697	4696	195	143	77.87	-1189	-991	7461	7284	177.77	41.973	
12,900	4707	4696	4696	198	143	77.71	-1189	-991	7561	7384	177.79	42.531	
13,000	4706	4696	4695	200	143	77.56	-1189	-991	7661	7484	177.80	43.089	
13,100	4705	4695	4694	203	143	77.40	-1189	-991	7761	7583	177.82	43.647	
13,200	4705	4694	4694	205	143	77.24	-1189	-991	7861	7683	177.84	44.205	
13,300	4704	4693	4693	207	143	77.08	-1189	-991	7961	7783	177.86	44.762	

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



Lonestar Consulting, LLC

Anticollision Report

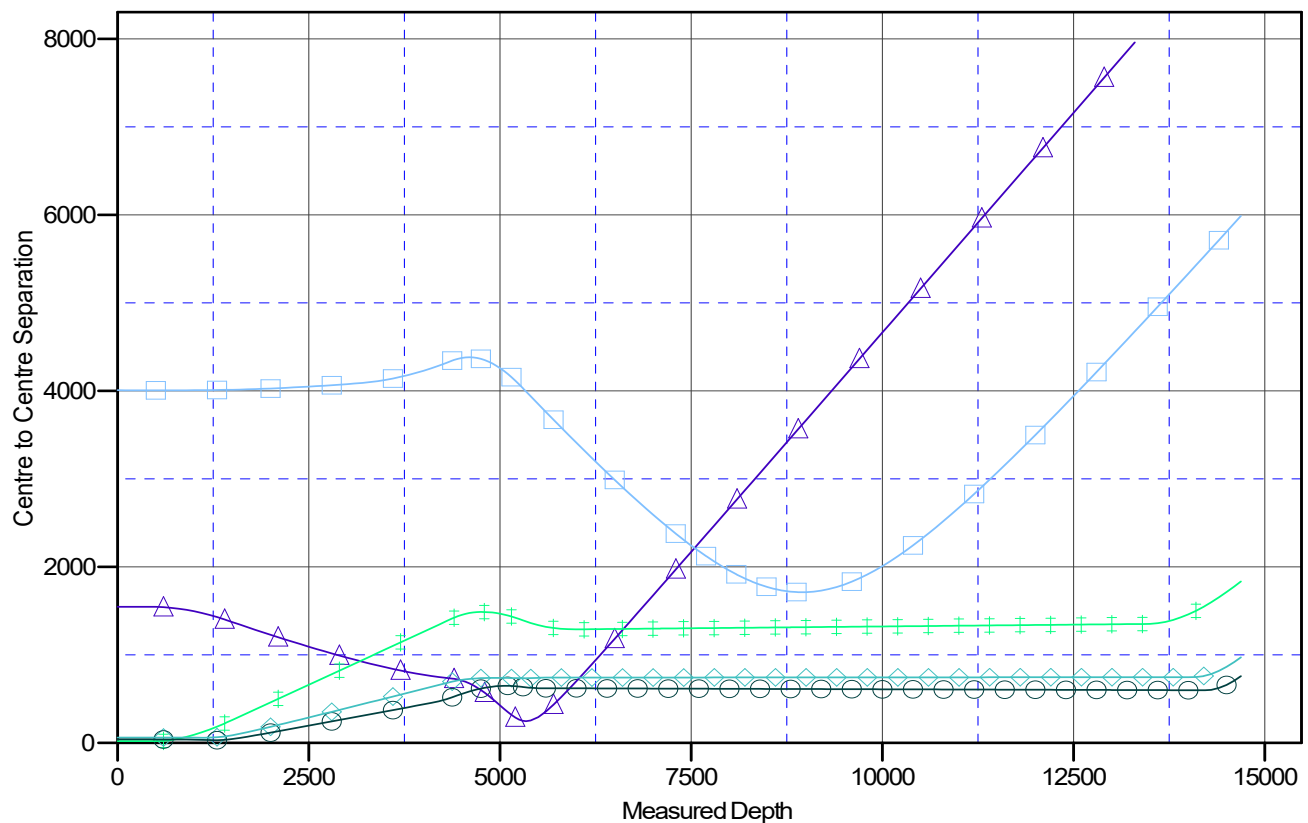


Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6830' & RKB 14' @ 6844ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: 124H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.00°

Ladder Plot



LEGEND

January/Jimboree 1, O.H.O.H.V.0
 129H Original Drilling, APD.V.0
 144H Original Drilling, APD.V.0
 130H Original Drilling, APD.V.0
 Big Yazee 1, O.H.O.H.V.0



Lonestar Consulting, LLC

Anticollision Report

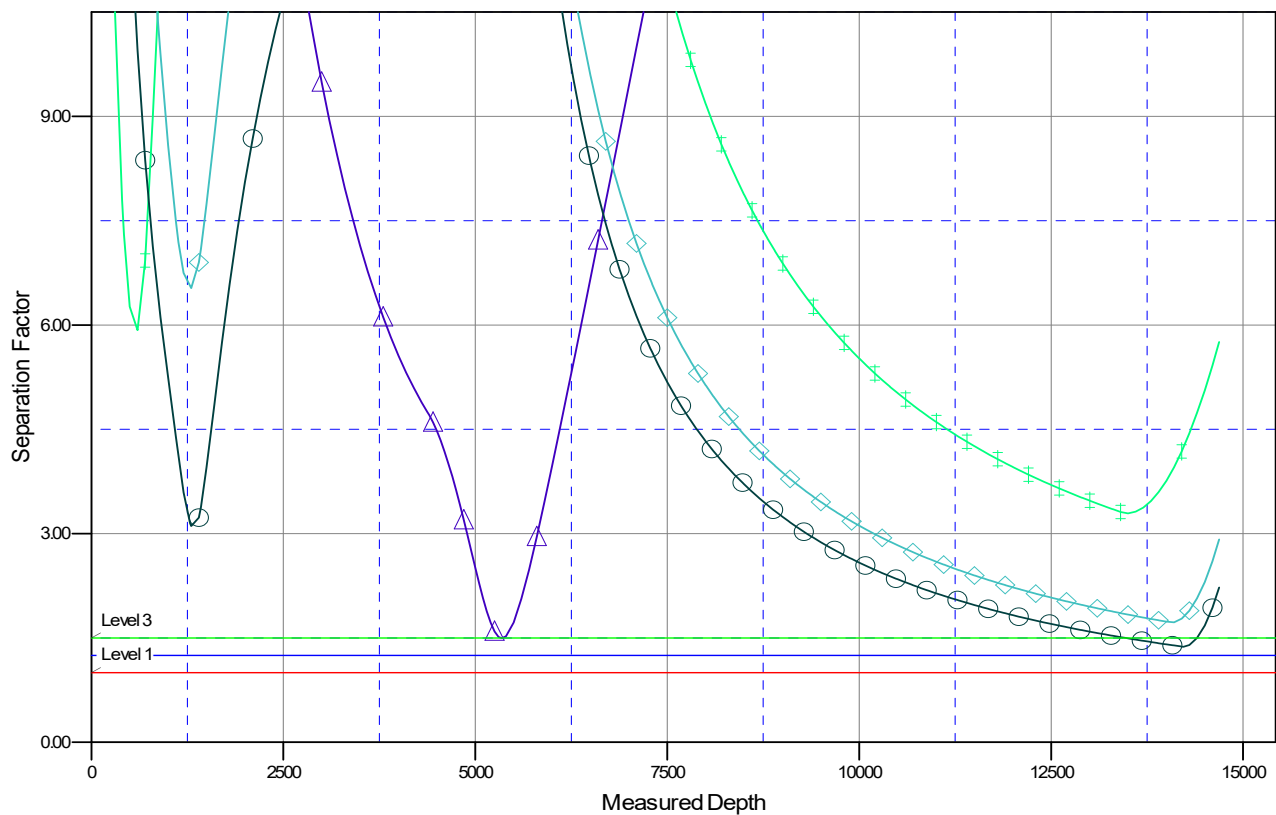


Company:	DJR Operating	Local Co-ordinate Reference:	Well 124H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6830' & RKB 14' @ 6844ft
Reference Site:	F31 2409	MD Reference:	GL 6830' & RKB 14' @ 6844ft
Site Error:	0 ft	North Reference:	True
Reference Well:	124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6830' & RKB 14' @ 6844ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: 124H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

January/Jimboree 1, OH OHV0
 129H Original Drilling, APDV0
 144H Original Drilling, APDV0



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Blvd, Suite A
Farmington, New Mexico 87402



In Reply Refer To:
3162.3-1(NMF0110)

* DJR OPERATING LLC
#124H 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: SE $\frac{1}{4}$ 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 380891

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	380891
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	9/15/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/15/2024
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	9/15/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/15/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/15/2024
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	9/15/2024
ward.rikala	This well can not be produced until operator is in compliance with Rule 5.9.	9/15/2024