

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. 30-045-38378
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Continued on page 2)

*(Instructions on page 2)



INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: NESE / 2471 FSL / 572 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.255428 / LONG: -107.823147 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 2640 FSL / 505 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.255892 / LONG: -107.822922 (TVD: 4752 feet, MD: 5052 feet)
PPP: SENE / 2647 FNL / 514 FEL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.255918 / LONG: -107.822954 (TVD: 4799 feet, MD: 11366 feet)
PPP: SESW / 1 FSL / 2102 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.263193 / LONG: -107.832037 (TVD: 4799 feet, MD: 11366 feet)
PPP: NENW / 539 FNL / 2652 FWL / TWSP: 23N / RANGE: 9W / SECTION: 6 / LAT: 36.261696 / LONG: -107.830167 (TVD: 4799 feet, MD: 11366 feet)
BHL: LOT 3 / 1735 FSL / 330 FWL / TWSP: 24N / RANGE: 9W / SECTION: 31 / LAT: 36.268004 / LONG: -107.838044 (TVD: 4799 feet, MD: 11366 feet)

BLM Point of Contact

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

CONFIDENTIAL

Review and Appeal Rights

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

CONFIDENTIAL

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

WELL LOCATION INFORMATION

API Number 30-045-38378		Pool Code 5860	Pool Name BISTI S-GALLUP (O)
Property Code 336270 334695	Property Name PONDEROSA I06 2309 FEDERAL COM		Well Number 128H
OGRID No. 371838	Operator Name DJR OPERATING, LLC		Ground Level Elevation 6692'
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
I	6	23N	9W		2471' SOUTH	572' EAST	36.255428°N NAD83	107.823147°W NAD83	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
	31	24N	9W	3	1735' SOUTH	330' WEST	36.268004°N NAD83	107.838044°W NAD83	SAN JUAN

Dedicated Acres: SEC 6: NE/SE, S2/NE, LOTS 2, & 3 (200.72 AC.) SEC 31: SE/SW, LOTS 4 & 3 (121.33 AC.) = 322.05 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
I	6	23N	9W		2640' SOUTH	505' EAST	36.255892°N NAD83	107.822922°W NAD83	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
I	6	23N	9W		2640' SOUTH	505' EAST	36.255892°N NAD83	107.822922°W NAD83	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
	31	24N	9W	3	1735' SOUTH	330' WEST	36.268004°N NAD83	107.838044°W NAD83	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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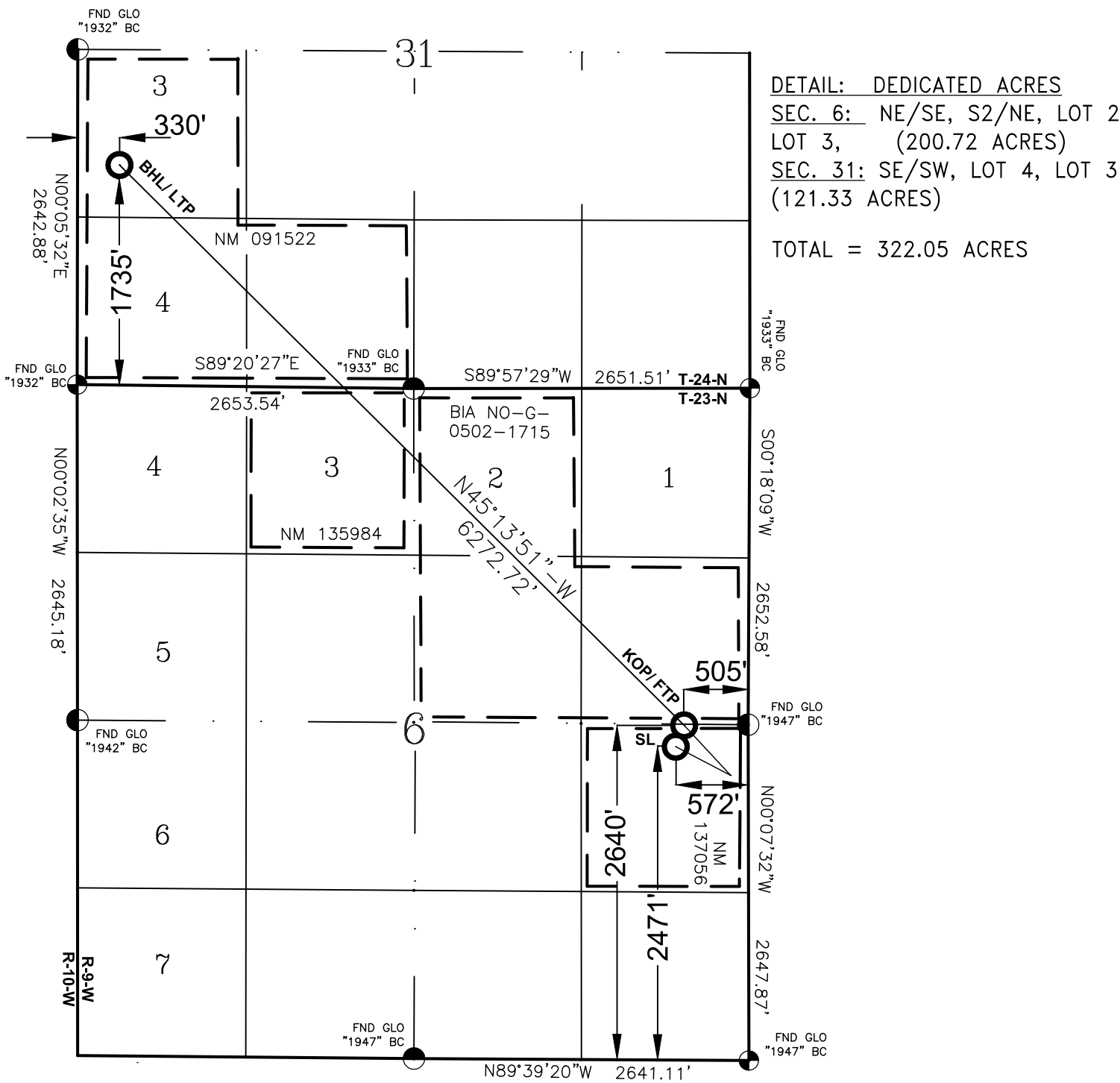
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I futher certify that this organization has received the concent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool of formation) in which any part of the well's completed interval will be located of obtained a compulsory pooling order from the division.</i> Shaw-Marie Ford Signature 9/5/2024 Date Shaw-Marie Ford Printed Name sford@enduringresources.com E-mail Address	SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  GLEN W. RUSSELL Signature and Seal of Professional Surveyor: Certificate Number 15703 Date of Survey SEPTEMBER 3, 2024
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Note: NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

DJR OPERATING , LLC

PONDEROSA I06 FEDERAL COM #128H

P I06 2309 FC



<u>SURFACE (SHL)</u> 2471' FSL, 572' FEL SEC. 6 T23N, R9W LAT: 36.255428° N LONG: 107.823147° W NAD83	<u>FIRST TAKE POINT (FTP)</u> 2640' FSL, 505' FEL SEC. 6, T23N, R9W LAT: 36.255892° N LONG: 107.822922° W NAD83	<u>BOTTOM HOLE LOCATION (BHL)</u> 1735' FSL, 330' FWL SEC.31, T24N, R9W LAT: 36.268004° N LONG: 107.838044° W NAD83
<u>KICK OFF POINT (KOP)</u> 2640' FSL, 505' FEL SEC. 6, T23N, R9W LAT: 36.255892° N LONG: 107.822922° W NAD83	<u>LAST TAKE POINT (LTP)</u> 1735' FSL, 330' FWL SEC.31, T24N, R9W LAT: 36.268004° N LONG: 107.838044° W NAD83	

**DJR OPERATING, LLC
PONDEROSA I06 2309 FEDERAL COM #128H
P I06 2309 FC**

SURFACE LOCATION NMNM 137056
2471' FSL, 572' FEL
LOCATED IN THE NE/SE OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.255428° N LONG: 107.823147° W NAD83

PPP1(FIRST TAKE POINT) NMNM137056
2640' FSL, 505' FEL
LOCATED IN THE NE/SE OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.255892° N LONG: 107.822922° W NAD83

PPP2 BIA N0-G-0502-1715
2647' FNL, 514' FEL
LOCATED IN THE SE/NE OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.255918° N LONG: 107.822954° W NAD83

PPP3 NM135984
539' FNL, 2652' FWL
LOCATED IN THE NE/NW OF SEC. 6, T-23-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.261696° N LONG: 107.830167° W NAD83

PPP4 NM091522
1' FSL, 2102' FWL
LOCATED IN THE SE/SW OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.263193° N LONG: 107.832037° W NAD83

PPP5 (LAST TAKE POINT) BOTTOM HOLE LOCATION NM091522
1735' FSL, 330' FWL
LOCATED IN LOT 3 OF SEC. 31, T-24-N, R-9-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
LAT: 36.268004° N LONG: 107.838044° 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 5860	³ Pool Name BISTI, S-GALLUP (O)
⁴ Property Code 334695	⁵ Property Name PONDEROSA 106 2306 FEDERAL COM	⁶ Well Number 128H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6692

¹⁰ Surface Location

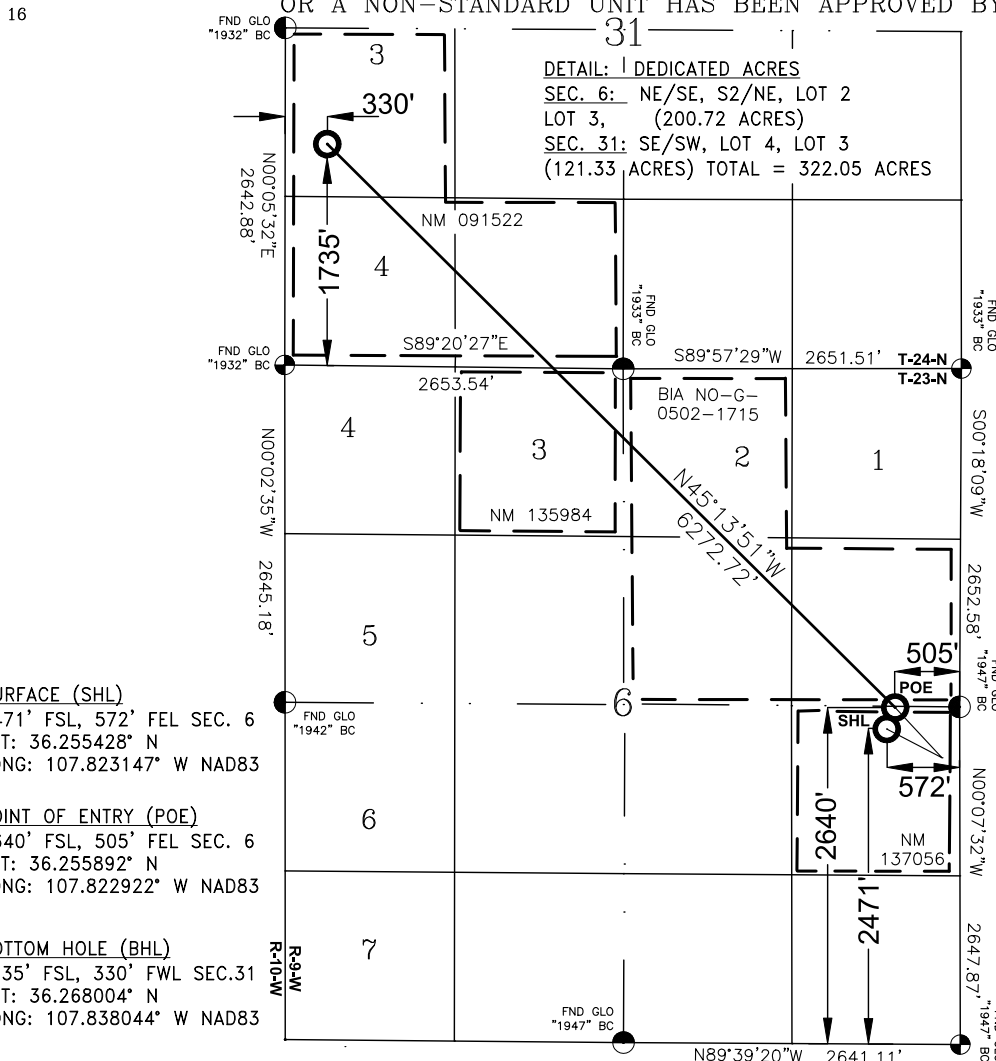
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	6	23-N	9-W		2471	SOUTH	572	EAST	SAN JUAN

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
LOT 3	31	24-N	9-W		1735	SOUTH	330	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 1/12/2024

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.

AUGUST 28, 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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

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

ACREAGE DEDICATION AND UNIT BOUNDARY PLAT

DJR OPERATING, LLC

PONDEROSA I06 FEDERAL COM #128H

P I06 2309 FC

☐ AMENDED REPORT

1) SE SEC. 6
LAT: 36.248637° N
LONG: 107.821179° W
NAD83

2) S/4 SEC. 6
LAT: 36.248670° N
LONG: 107.830132° W
NAD83

3) E/4 SEC. 6
LAT: 36.255907° N
LONG: 107.821211° W
NAD83

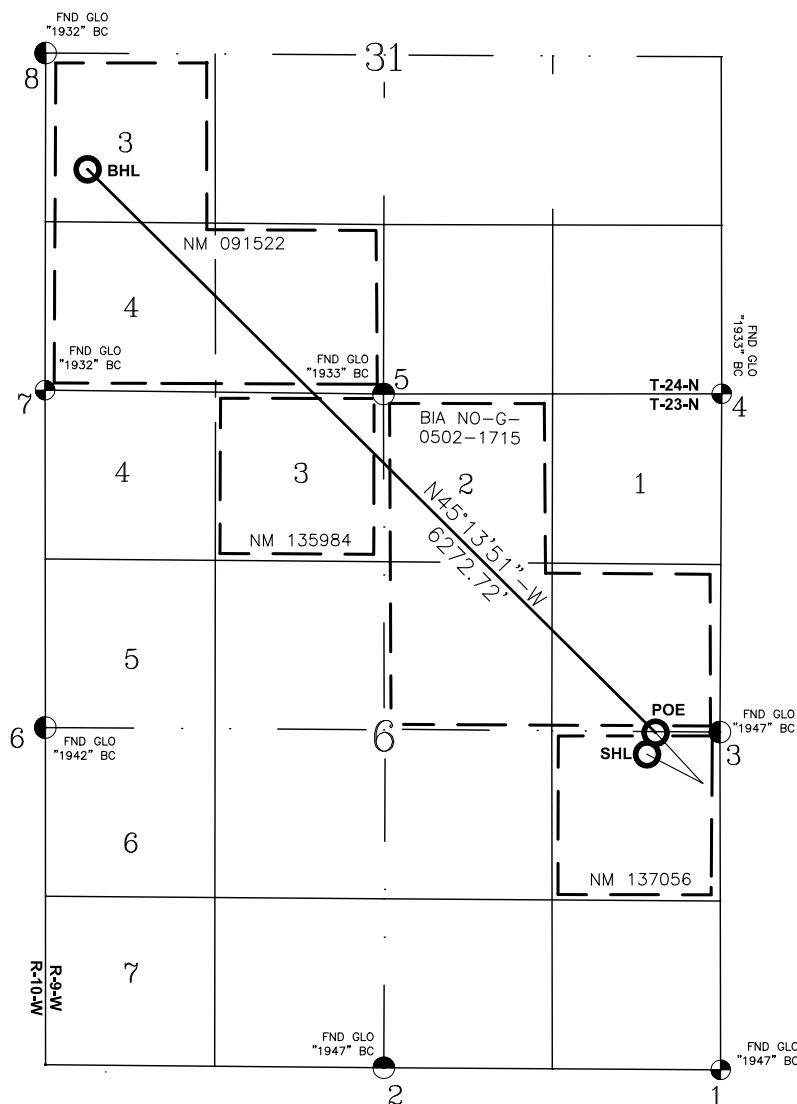
4) NE SEC. 6
LAT: 36.263191° N
LONG: 107.821176° W
NAD83

5) N/4 SEC. 6
LAT: 36.263175° N
LONG: 107.830167° W
NAD83

6) W/4 SEC. 6
LAT: 36.255985° N
LONG: 107.839143° W
NAD83

7) NW SEC. 6
LAT: 36.263248° N
LONG: 107.839164° W
NAD83

8) W/4 SEC. 31
LAT: 36.270505° N
LONG: 107.839163° W
NAD83



DETAIL: DEDICATED ACRES
SEC. 6: NE/SE, S2/NE, LOT 2
LOT 3, (200.72 ACRES)
SEC. 31: SE/SW, LOT 4, LOT 3
(121.33 ACRES) TOTAL = 322.05 ACRES

SURFACE (SHL)
2471' FSL, 572' FEL SEC. 6
LAT: 36.255428° N
LONG: 107.823147° W NAD83

POINT OF ENTRY (POE)
2640' FSL, 505' FEL SEC. 6
LAT: 36.255892° N
LONG: 107.822922° W NAD83

BOTTOM HOLE (BHL)
1735' FSL, 330' FWL SEC.31
LAT: 36.268004° N
LONG: 107.838044° W NAD83

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

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

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Ponderosa I06 2309 FED COM 125H	TBD	I-06-23N-09W	2413' FSL x 554' FEL	162	40	65
Ponderosa I06 2309 FED COM 126H	TBD	I-06-23N-09W	2433' FSL x 561' FEL	246	61	98
Ponderosa I06 2309 FED COM 127H	TBD	I-06-23N-09W	2452' FSL x 566' FEL	372	837	149
Ponderosa I06 2309 FED COM 128H	TBD	I-06-23N-09W	2471' FSL x 572' FEL	306	690	123

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 I06 2309 FED COM 125H	TBD	4/24/2025	5/1/2025	6/28/2025	7/10/2025	7/13/2025
Ponderosa I06 2309 FED COM 126H	TBD	5/2/2025	5/9/2025	6/28/2025	7/15/2025	7/18/2025
Ponderosa I06 2309 FED COM 127H	TBD	5/10/2025	5/16/2025	6/28/2025	7/20/2025	7/23/2025
Ponderosa I06 2309 FED COM 128H	TBD	5/17/2025	5/24/2025	6/28/2025	7/25/2025	7/28/2025

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 I06 2309 FED COM 125H, 126H, 127H, 128H
NESE I-06-23N-09W

SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



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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:

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



DJR OPERATING, LLC.
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NESE I-06-23N-09W

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



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NATURAL GAS MANAGEMENT PLAN
Ponderosa I06 2309 FED COM 125H, 126H, 127H, 128H
NESE I-06-23N-09W

BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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

Rev 1



DRILLING PLAN

Ponderosa I06 2309 Fed Com #128H

San Juan County, New Mexico

Surface Location

572-ft FEL & 2471-ft FSL
 Sec 6 T23 R9
 Graded Elevation 6692' MSL
 RKB Elevation 6706' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2554284° N
 Longitude 107.8231468° W

Kick Off Point for Horizontal Build Curve

4170-ft MD
 4137-ft TVD

Local Coordinates (from SHL)

226-ft South
 431-ft East

Heel Location (Pay zone entry)

505-ft FEL & 2640-ft FSL
 Sec 6 T23 R9

Heel Geographical Coordinates (NAD-83)

Latitude 36.25589202° N
 Longitude 107.82292202° W

Bottom Hole Location (TD)

330-ft FWL & 1735-ft FSL
 Sec 31 T24 R9

BHL Geographical Coordinates (NAD-83)

Latitude 36.26800413° N
 Longitude 107.8380440° W

Well objectives

This well is planned as a 6270-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 135°F. Bottom hole pressure in the Gallup C is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	339	339	Sd	W	8.3	8.4 – 8.8
Kirtland	429	429	Sh	-	8.3	8.4 – 8.8
Fruitland	658	658	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1087	1083	Sd	W	8.3	9.0 - 9.5
Lewis	1216	1211	Sh	-		9.0 - 9.5
Chacra	1817	1806	Sd	-	8.3	9.0 - 9.5
Menefee	2552	2534	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3550	3523	Sd	-	8.3	9.0 - 9.5
Mancos	3692	3664	Sh	-		9.0 - 9.5
Mancos Silt	4062	4030	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4536	4489	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4605	4545	Sd	O/G	6.6	8.8 - 9.0
Gallup C	4768	4657	Sd	O/G	6.6	8.8 - 9.0
Target	5095	4754	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	5052	surf	4752	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4813	11366	4681	4799	4813

Note: all casing will be new

Rev 1



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	3692-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	409	141
Volume (bbls)	169	38
Volume (cu.ft.)	950	213
Excess %	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4813-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	566
Volume (cu.ft)	153
Excess %	861
	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 – 5052	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5052 – 11366	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

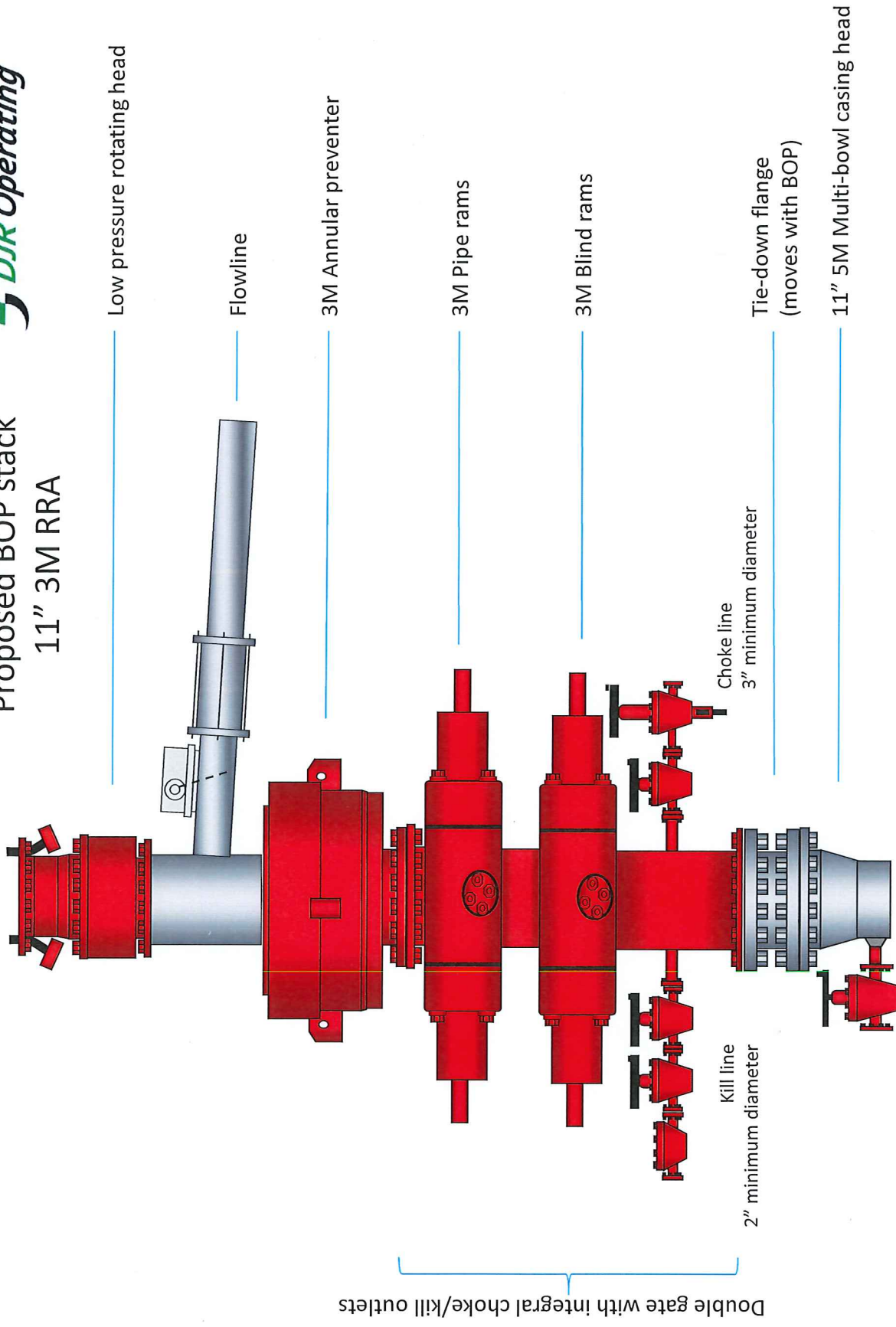
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



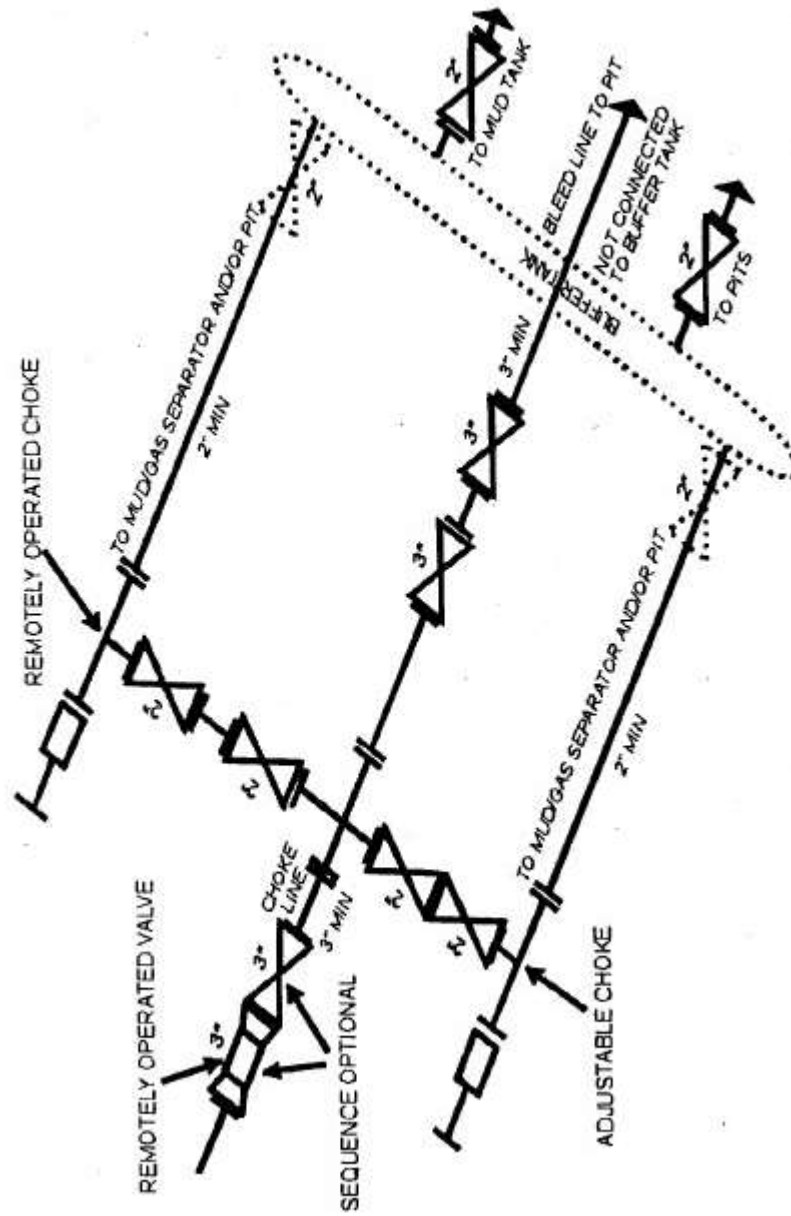
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: Ponderosa Unit
Site: I06 2309
Well: Ponderosa I06 2309 Fed Com #128H
Wellbore: Original Drilling
Design: APD Rev 1

WELL DETAILS: Ponderosa I06 2309 Fed Com #128H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1912274.73	2726094.97	36.25542840	-107.82314680

Plan: APD Rev 1 (Ponderosa I06 2309 Fed Com #128H/Original Drilling)

Created By: Janie Collins Date: 17:14, August 08 2023

PROJECT DETAILS: Ponderosa Unit

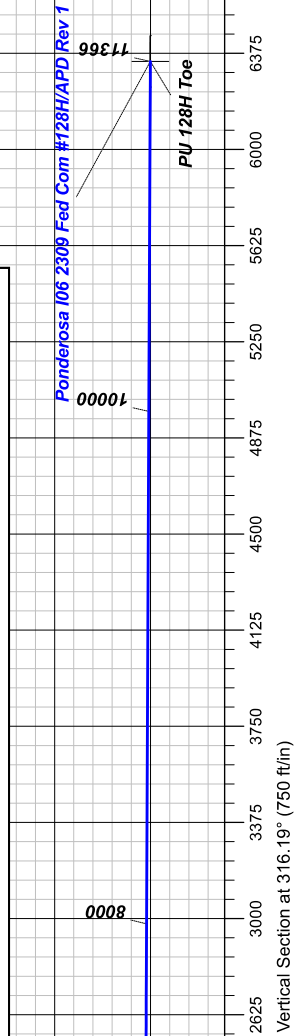
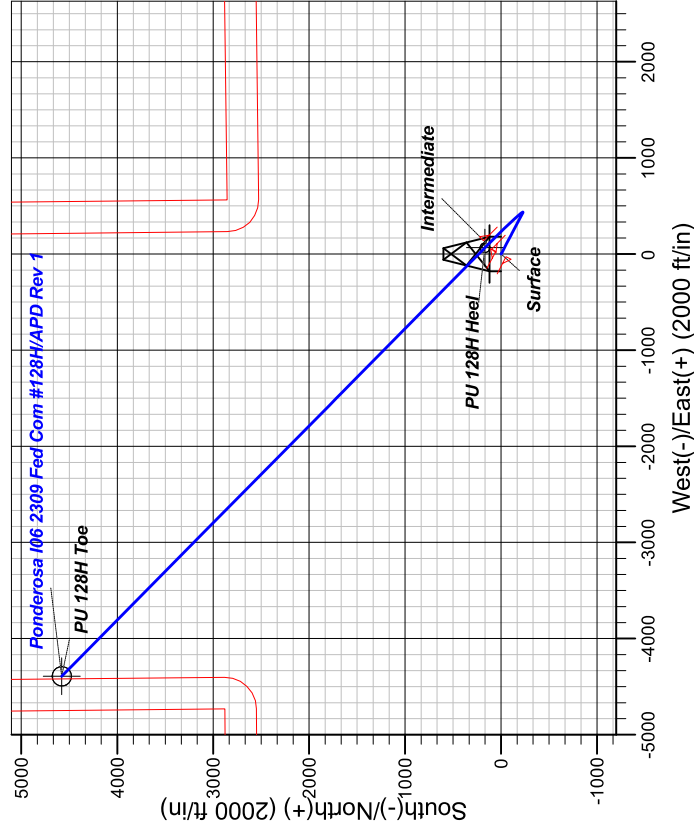
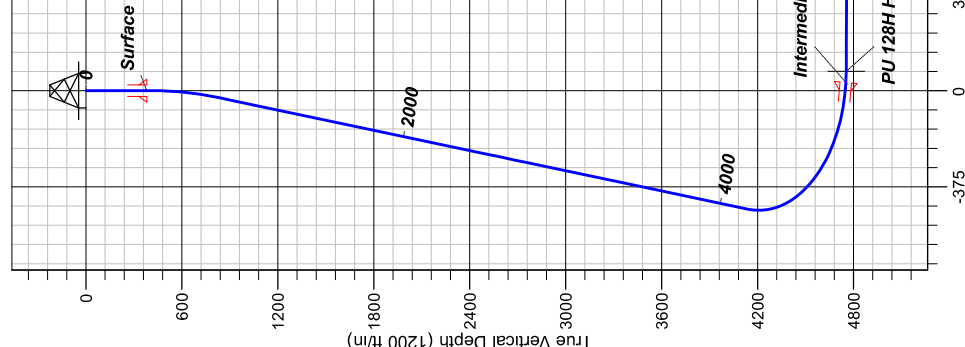
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: True

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PU 128H Heel	4754	169	66	1912443.51	2726161.22	36.25589202	-107.82292202
PU 128H Toe	4799	4578	-4391	1916852.47	2727103.04	36.26800413	-107.83804400

SECTION DETAILS

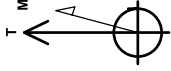
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
425	0.00	0.00	425	0	0	0.00	0.00	0
819	7.88	117.74	818	-13	24	2.00	117.74	-26
419	17.86	117.74	418	-25	41	2.00	117.74	-42
509	89.59	314.69	4754	-169	66	10.50	-162.00	-92
11366	89.59	314.69	4799	-4391	0.00	0.00	-162.00	6344



FORMATION DETAILS

TVDPath	MDPath	Formation
339	339	Ojo Alamo
429	429	Kirtland
658	658	Fruitland
1083	1087	Pictured Cliffs
1211	1216	Lewis
1806	1817	Chacra
2534	2552	Menefee
3523	3550	Point Lookout
3692	3692	Mancos
4030	4062	Mancos Silt
4489	4536	Gallup A
4545	4604	Gallup B
4657	4768	Gallup C

TVD	MD	Name
380	380	Surface
4752	5052	Intermediate



Azimuths to True North
Magnetic North: 10.1°
Magnetic Field
Strength: 50617.8 nT
Dip Angle: 63.83°
Date: 12/31/2019
Model: IGRF2008.10

CASING DETAILS

TVD	MD	Name
380	380	Surface
4752	5052	Intermediate



DJR Operating

Ponderosa Unit

I06 2309

Ponderosa I06 2309 Fed Com #128H - Slot 4

Original Drilling

Plan: APD Rev 1

Standard Planning Report

08 August, 2023





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Project:	Ponderosa Unit	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site:	I06 2309	North Reference:	True
Well:	Ponderosa I06 2309 Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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	I06 2309				
Site Position:		Northing:	1,912,217.22 usft	Latitude:	36.25527040
From:	Lat/Long	Easting:	2,726,112.72 usft	Longitude:	-107.82308660
Position Uncertainty:	0 ft	Slot Radius:	13.20 in		

Well	Ponderosa I06 2309 Fed Com #128H - Slot 4					
Well Position	+N/-S	0 ft	Northing:	1,912,274.74 usft	Latitude:	36.25542840
	+E/-W	0 ft	Easting:	2,726,094.97 usft	Longitude:	-107.82314680
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6692 ft
Grid Convergence:		0.01 °				

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.02	63.08	50,617.61553066

Design	APD Rev 1			
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	316.19

Plan Survey Tool Program			Date	8/8/2023	
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0	11,366	APD Rev 1 (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	
819	7.88	117.74	818	-13	24	2.00	2.00	0.00	117.74	
4170	7.88	117.74	4137	-226	431	0.00	0.00	0.00	0.00	
5095	89.59	314.69	4754	169	66	10.50	8.83	-17.63	-162.91	PU 128H Heel
11,366	89.59	314.69	4799	4578	-4391	0.00	0.00	0.00	0.00	PU 128H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Project:	Ponderosa Unit	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site:	I06 2309	North Reference:	True
Well:	Ponderosa I06 2309 Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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	117.74	500	0	1	-1	2.00	2.00	0.00
600	3.50	117.74	600	-2	5	-5	2.00	2.00	0.00
700	5.50	117.74	700	-6	12	-13	2.00	2.00	0.00
800	7.50	117.74	799	-11	22	-23	2.00	2.00	0.00
819	7.88	117.74	818	-13	24	-26	2.00	2.00	0.00
900	7.88	117.74	898	-18	34	-36	0.00	0.00	0.00
1000	7.88	117.74	997	-24	46	-49	0.00	0.00	0.00
1100	7.88	117.74	1096	-31	58	-62	0.00	0.00	0.00
1200	7.88	117.74	1195	-37	70	-75	0.00	0.00	0.00
1300	7.88	117.74	1294	-43	82	-88	0.00	0.00	0.00
1400	7.88	117.74	1393	-50	94	-101	0.00	0.00	0.00
1500	7.88	117.74	1492	-56	107	-114	0.00	0.00	0.00
1600	7.88	117.74	1591	-62	119	-127	0.00	0.00	0.00
1700	7.88	117.74	1690	-69	131	-140	0.00	0.00	0.00
1800	7.88	117.74	1789	-75	143	-153	0.00	0.00	0.00
1900	7.88	117.74	1889	-82	155	-166	0.00	0.00	0.00
2000	7.88	117.74	1988	-88	167	-179	0.00	0.00	0.00
2100	7.88	117.74	2087	-94	179	-192	0.00	0.00	0.00
2200	7.88	117.74	2186	-101	192	-205	0.00	0.00	0.00
2300	7.88	117.74	2285	-107	204	-218	0.00	0.00	0.00
2400	7.88	117.74	2384	-113	216	-231	0.00	0.00	0.00
2500	7.88	117.74	2483	-120	228	-244	0.00	0.00	0.00
2600	7.88	117.74	2582	-126	240	-257	0.00	0.00	0.00
2700	7.88	117.74	2681	-133	252	-270	0.00	0.00	0.00
2800	7.88	117.74	2780	-139	264	-283	0.00	0.00	0.00
2900	7.88	117.74	2879	-145	277	-296	0.00	0.00	0.00
3000	7.88	117.74	2978	-152	289	-309	0.00	0.00	0.00
3100	7.88	117.74	3077	-158	301	-322	0.00	0.00	0.00
3200	7.88	117.74	3176	-165	313	-335	0.00	0.00	0.00
3300	7.88	117.74	3275	-171	325	-348	0.00	0.00	0.00
3400	7.88	117.74	3374	-177	337	-361	0.00	0.00	0.00
3500	7.88	117.74	3473	-184	349	-374	0.00	0.00	0.00
3600	7.88	117.74	3572	-190	361	-387	0.00	0.00	0.00
3700	7.88	117.74	3672	-196	374	-400	0.00	0.00	0.00
3800	7.88	117.74	3771	-203	386	-413	0.00	0.00	0.00
3900	7.88	117.74	3870	-209	398	-426	0.00	0.00	0.00
4000	7.88	117.74	3969	-216	410	-439	0.00	0.00	0.00
4100	7.88	117.74	4068	-222	422	-452	0.00	0.00	0.00
4170	7.88	117.74	4137	-226	431	-462	0.00	0.00	0.00
4200	4.98	107.13	4167	-228	434	-465	10.50	-9.75	-35.69
4300	6.50	335.39	4267	-224	436	-463	10.50	1.52	-131.75
4400	16.74	322.38	4365	-207	424	-443	10.50	10.23	-13.01
4500	27.17	319.18	4457	-179	401	-406	10.50	10.44	-3.20
4600	37.64	317.67	4541	-139	365	-353	10.50	10.47	-1.51
4700	48.12	316.74	4615	-89	319	-285	10.50	10.48	-0.93
4800	58.61	316.08	4674	-31	264	-205	10.50	10.49	-0.66
4900	69.10	315.55	4718	34	201	-115	10.50	10.49	-0.53



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Project:	Ponderosa Unit	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site:	I06 2309	North Reference:	True
Well:	Ponderosa I06 2309 Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5000	79.59	315.10	4745	102	133	-19	10.50	10.49	-0.46	
5095	89.59	314.69	4754	169	66	76	10.50	10.49	-0.43	
5100	89.59	314.69	4754	172	63	81	0.00	0.00	0.00	
5200	89.59	314.69	4755	242	-8	181	0.00	0.00	0.00	
5300	89.59	314.69	4756	313	-79	281	0.00	0.00	0.00	
5400	89.59	314.69	4756	383	-150	380	0.00	0.00	0.00	
5500	89.59	314.69	4757	453	-221	480	0.00	0.00	0.00	
5600	89.59	314.69	4758	524	-293	580	0.00	0.00	0.00	
5700	89.59	314.69	4758	594	-364	680	0.00	0.00	0.00	
5800	89.59	314.69	4759	664	-435	780	0.00	0.00	0.00	
5900	89.59	314.69	4760	735	-506	880	0.00	0.00	0.00	
6000	89.59	314.69	4761	805	-577	980	0.00	0.00	0.00	
6100	89.59	314.69	4761	875	-648	1080	0.00	0.00	0.00	
6200	89.59	314.69	4762	946	-719	1180	0.00	0.00	0.00	
6300	89.59	314.69	4763	1016	-790	1280	0.00	0.00	0.00	
6400	89.59	314.69	4763	1086	-861	1380	0.00	0.00	0.00	
6500	89.59	314.69	4764	1157	-932	1480	0.00	0.00	0.00	
6600	89.59	314.69	4765	1227	-1003	1580	0.00	0.00	0.00	
6700	89.59	314.69	4766	1297	-1075	1680	0.00	0.00	0.00	
6800	89.59	314.69	4766	1368	-1146	1780	0.00	0.00	0.00	
6900	89.59	314.69	4767	1438	-1217	1880	0.00	0.00	0.00	
7000	89.59	314.69	4768	1508	-1288	1980	0.00	0.00	0.00	
7100	89.59	314.69	4768	1579	-1359	2080	0.00	0.00	0.00	
7200	89.59	314.69	4769	1649	-1430	2180	0.00	0.00	0.00	
7300	89.59	314.69	4770	1719	-1501	2280	0.00	0.00	0.00	
7400	89.59	314.69	4771	1789	-1572	2380	0.00	0.00	0.00	
7500	89.59	314.69	4771	1860	-1643	2480	0.00	0.00	0.00	
7600	89.59	314.69	4772	1930	-1714	2580	0.00	0.00	0.00	
7700	89.59	314.69	4773	2000	-1785	2680	0.00	0.00	0.00	
7800	89.59	314.69	4773	2071	-1857	2780	0.00	0.00	0.00	
7900	89.59	314.69	4774	2141	-1928	2880	0.00	0.00	0.00	
8000	89.59	314.69	4775	2211	-1999	2980	0.00	0.00	0.00	
8100	89.59	314.69	4776	2282	-2070	3079	0.00	0.00	0.00	
8200	89.59	314.69	4776	2352	-2141	3179	0.00	0.00	0.00	
8300	89.59	314.69	4777	2422	-2212	3279	0.00	0.00	0.00	
8400	89.59	314.69	4778	2493	-2283	3379	0.00	0.00	0.00	
8500	89.59	314.69	4778	2563	-2354	3479	0.00	0.00	0.00	
8600	89.59	314.69	4779	2633	-2425	3579	0.00	0.00	0.00	
8700	89.59	314.69	4780	2704	-2496	3679	0.00	0.00	0.00	
8800	89.59	314.69	4781	2774	-2567	3779	0.00	0.00	0.00	
8900	89.59	314.69	4781	2844	-2639	3879	0.00	0.00	0.00	
9000	89.59	314.69	4782	2915	-2710	3979	0.00	0.00	0.00	
9100	89.59	314.69	4783	2985	-2781	4079	0.00	0.00	0.00	
9200	89.59	314.69	4783	3055	-2852	4179	0.00	0.00	0.00	
9300	89.59	314.69	4784	3126	-2923	4279	0.00	0.00	0.00	
9400	89.59	314.69	4785	3196	-2994	4379	0.00	0.00	0.00	
9500	89.59	314.69	4786	3266	-3065	4479	0.00	0.00	0.00	
9600	89.59	314.69	4786	3337	-3136	4579	0.00	0.00	0.00	
9700	89.59	314.69	4787	3407	-3207	4679	0.00	0.00	0.00	
9800	89.59	314.69	4788	3477	-3278	4779	0.00	0.00	0.00	
9900	89.59	314.69	4789	3548	-3350	4879	0.00	0.00	0.00	
10,000	89.59	314.69	4789	3618	-3421	4979	0.00	0.00	0.00	
10,100	89.59	314.69	4790	3688	-3492	5079	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Project:	Ponderosa Unit	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site:	I06 2309	North Reference:	True
Well:	Ponderosa I06 2309 Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

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)	
10,200	89.59	314.69	4791	3759	-3563	5179	0.00	0.00	0.00	
10,300	89.59	314.69	4791	3829	-3634	5279	0.00	0.00	0.00	
10,400	89.59	314.69	4792	3899	-3705	5379	0.00	0.00	0.00	
10,500	89.59	314.69	4793	3969	-3776	5479	0.00	0.00	0.00	
10,600	89.59	314.69	4794	4040	-3847	5579	0.00	0.00	0.00	
10,700	89.59	314.69	4794	4110	-3918	5679	0.00	0.00	0.00	
10,800	89.59	314.69	4795	4180	-3989	5778	0.00	0.00	0.00	
10,900	89.59	314.69	4796	4251	-4060	5878	0.00	0.00	0.00	
11,000	89.59	314.69	4796	4321	-4132	5978	0.00	0.00	0.00	
11,100	89.59	314.69	4797	4391	-4203	6078	0.00	0.00	0.00	
11,200	89.59	314.69	4798	4462	-4274	6178	0.00	0.00	0.00	
11,300	89.59	314.69	4799	4532	-4345	6278	0.00	0.00	0.00	
11,366	89.59	314.69	4799	4578	-4391	6344	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PU 128H Heel	0.00	0.00	4754	169	66	1,912,443.51	2,726,161.22	36.25589202	-107.82292201	
- plan hits target center										
- Circle (radius 50)										
PU 128H Toe	0.00	0.00	4799	4578	-4391	1,916,852.47	2,721,703.04	36.26800413	-107.83804400	
- plan hits target center										
- Circle (radius 100)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
380	380	Surface		9.63	12.25
5052	4752	Intermediate		7.00	8.75



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Project:	Ponderosa Unit	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site:	I06 2309	North Reference:	True
Well:	Ponderosa I06 2309 Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
339	339	Ojo Alamo		0.00	0.00	
429	429	Kirtland		0.00	0.00	
658	658	Fruitland		0.00	0.00	
1087	1083	Pictured Cliffs		0.00	0.00	
1216	1211	Lewis		0.00	0.00	
1817	1806	Chacra		0.00	0.00	
2552	2534	Menefee		0.00	0.00	
3550	3523	Point Lookout		0.00	0.00	
3692	3664	Mancos		0.00	0.00	
4062	4030	Mancos Silt		0.00	0.00	
4536	4489	Gallup A		0.00	0.00	
4604	4545	Gallup B		0.00	0.00	
4768	4657	Gallup C		0.00	0.00	



DJR Operating

Ponderosa Unit

I06 2309

Ponderosa I06 2309 Fed Com #128H

Original Drilling

APD Rev 1

Anticollision Report

08 August, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Reference	APD Rev 1		
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 15,000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/8/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	11,366	APD Rev 1 (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						
I06 2309						
Big Yazzie 1 - OH - OH	7554	2915	1920	1873	40.813	CC, ES
Big Yazzie 1 - OH - OH	9000	2915	2404	2313	26.339	SF
January Jamboree 1 - OH - OH	11,161	4842	345	47	1.158	Level 3, CC, ES, SF
Ponderosa I06 2309 Com #127H - Original Drilling - APD	425	425	20	17	7.157	CC
Ponderosa I06 2309 Com #127H - Original Drilling - APD	700	699	21	16	4.442	ES
Ponderosa I06 2309 Com #127H - Original Drilling - APD	900	897	23	17	3.780	SF
Ponderosa I06 2309 Fed Com #125H - Original Drilling -	425	425	60	57	21.555	CC
Ponderosa I06 2309 Fed Com #125H - Original Drilling -	500	498	60	57	18.304	ES
Ponderosa I06 2309 Fed Com #125H - Original Drilling -	9318	9497	763	554	3.665	SF
Ponderosa I06 2309 Fed Com #126H - Original Drilling -	425	425	40	37	14.242	CC
Ponderosa I06 2309 Fed Com #126H - Original Drilling -	500	499	40	37	12.121	ES
Ponderosa I06 2309 Fed Com #126H - Original Drilling -	800	794	51	45	9.481	SF

Offset Design: I06 2309 - Big Yazzie 1 - OH - OH													Offset Site Error: 0 ft	
Survey Program: 672-INCLINOMETER													Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0	0	21	21	0	1	-32.73	2193	-1409	2606					
100	100	121	121	0	4	-32.73	2193	-1409	2606	2602	3.98	654.374		
200	200	221	221	1	7	-32.73	2193	-1409	2606	2599	7.38	353.250		
300	300	321	321	1	10	-32.73	2193	-1409	2606	2596	10.77	241.924		
400	400	421	421	1	13	-32.73	2193	-1409	2606	2592	14.17	183.952		
425	425	446	446	1	14	-32.73	2193	-1409	2606	2591	15.02	173.554		
500	500	521	521	2	16	-150.47	2193	-1409	2607	2590	17.56	148.519		
600	600	621	621	2	19	-150.48	2193	-1409	2611	2590	20.93	124.745		
700	700	721	721	2	22	-150.49	2193	-1409	2618	2594	24.31	107.689		
800	799	820	820	3	25	-150.52	2193	-1409	2628	2600	27.69	94.913		
819	818	839	839	3	25	-150.52	2193	-1409	2630	2602	28.33	92.823		
900	898	919	919	3	28	-150.64	2193	-1409	2640	2609	31.07	84.956		
1000	997	1021	1021	4	31	-150.79	2193	-1409	2652	2617	34.51	76.835		
1100	1096	1122	1122	4	34	-150.94	2193	-1409	2664	2626	37.96	70.177		
1200	1195	1216	1216	4	37	-151.07	2193	-1409	2676	2635	41.19	64.960		

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Big Yazzie 1 - OH - OH												Offset Site Error:	0 ft
Survey Program: 672-INCLINOMETER												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1300	1294	1315	1315	5	40	-151.21	2193	-1409	2688	2643	44.57	60.302	
1400	1393	1420	1420	5	43	-151.35	2194	-1409	2701	2652	48.14	56.102	
1500	1492	1529	1529	6	46	-151.51	2193	-1409	2712	2660	51.80	52.355	
1600	1591	1612	1612	6	49	-151.63	2193	-1409	2724	2669	54.72	49.776	
1700	1690	1712	1711	7	52	-151.76	2193	-1409	2736	2678	58.11	47.084	
1800	1789	1811	1811	7	55	-151.89	2193	-1409	2749	2687	61.51	44.686	
1900	1889	1915	1915	7	58	-152.04	2193	-1409	2761	2696	65.03	42.448	
2000	1988	2018	2018	8	61	-152.18	2193	-1409	2772	2704	68.56	40.437	
2100	2087	2108	2108	8	64	-152.30	2193	-1409	2785	2713	71.66	38.861	
2200	2186	2207	2207	9	67	-152.43	2193	-1409	2797	2722	75.04	37.269	
2300	2285	2309	2309	9	70	-152.56	2193	-1409	2809	2731	78.52	35.779	
2400	2384	2413	2412	10	73	-152.69	2193	-1409	2821	2739	82.05	34.385	
2500	2483	2504	2504	10	76	-152.81	2193	-1409	2833	2748	85.20	33.254	
2600	2582	2603	2603	11	79	-152.94	2193	-1409	2846	2757	88.59	32.121	
2700	2681	2702	2702	11	82	-153.06	2193	-1409	2858	2766	91.98	31.071	
2800	2780	2801	2801	11	85	-153.19	2193	-1409	2870	2775	95.36	30.096	
2900	2879	2900	2900	12	88	-153.31	2193	-1409	2882	2784	98.75	29.189	
3000	2978	2915	2915	12	89	-153.33	2193	-1409	2896	2796	99.51	29.101	
3100	3077	2915	2915	13	89	-153.33	2193	-1409	2913	2813	99.70	29.214	
3200	3176	2915	2915	13	89	-153.33	2193	-1409	2933	2833	99.79	29.392	
3300	3275	2915	2915	14	89	-153.33	2193	-1409	2956	2857	99.76	29.634	
3400	3374	2915	2915	14	89	-153.33	2193	-1409	2983	2883	99.63	29.939	
3500	3473	2915	2915	15	89	-153.33	2193	-1409	3013	2913	99.41	30.305	
3600	3572	2915	2915	15	89	-153.33	2193	-1409	3045	2946	99.09	30.731	
3700	3672	2915	2915	15	89	-153.33	2193	-1409	3081	2982	98.70	31.215	
3800	3771	2915	2915	16	89	-153.33	2193	-1409	3119	3021	98.22	31.755	
3900	3870	2915	2915	16	89	-153.33	2193	-1409	3160	3063	97.68	32.351	
4000	3969	2915	2915	17	89	-153.33	2193	-1409	3204	3107	97.08	33.001	
4100	4068	2915	2915	17	89	-153.33	2193	-1409	3250	3154	96.43	33.703	
4170	4137	2915	2915	17	89	-153.33	2193	-1409	3284	3188	95.94	34.228	
4200	4167	2915	2915	18	89	-143.06	2193	-1409	3298	3202	95.72	34.453	
4250	4217	2915	2915	18	89	-61.28	2193	-1409	3319	3223	95.31	34.819	
4300	4267	2915	2915	18	89	-12.20	2193	-1409	3336	3241	94.85	35.168	
4350	4316	2915	2915	18	89	-3.18	2193	-1409	3349	3255	94.36	35.498	
4400	4365	2915	2915	18	89	0.22	2193	-1409	3359	3265	93.82	35.805	
4450	4412	2915	2915	18	89	1.98	2193	-1409	3365	3272	93.25	36.090	
4500	4457	2915	2915	18	89	3.08	2193	-1409	3368	3275	92.65	36.349	
4549	4499	2915	2915	18	89	3.83	2193	-1409	3366	3274	92.04	36.577	
4550	4501	2915	2915	18	89	3.85	2193	-1409	3366	3274	92.02	36.582	
4600	4541	2915	2915	18	89	4.45	2193	-1409	3361	3270	91.37	36.787	
4650	4580	2915	2915	18	89	4.98	2193	-1409	3352	3261	90.69	36.962	
4700	4615	2915	2915	18	89	5.48	2193	-1409	3339	3249	90.00	37.104	
4750	4646	2915	2915	18	89	5.98	2193	-1409	3323	3234	89.30	37.211	
4800	4674	2915	2915	18	89	6.51	2193	-1409	3303	3215	88.60	37.281	
4850	4698	2915	2915	18	89	7.09	2193	-1409	3280	3192	87.90	37.312	
4900	4718	2915	2915	18	89	7.77	2193	-1409	3253	3166	87.22	37.300	
4950	4734	2915	2915	19	89	8.56	2193	-1409	3223	3137	86.55	37.243	
5000	4745	2915	2915	19	89	9.52	2193	-1409	3190	3104	85.90	37.140	
5050	4752	2915	2915	19	89	10.71	2193	-1409	3155	3069	85.29	36.988	
5095	4754	2915	2915	20	89	12.06	2193	-1409	3120	3035	84.77	36.807	
5100	4754	2915	2915	20	89	12.06	2193	-1409	3116	3032	84.72	36.783	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Big Yazzie 1 - OH - OH												Offset Site Error: 0 ft	
Survey Program: 672-INCLINOMETER												Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5200	4755	2915	2915	21	89	12.06	2193	-1409	3038	2955	83.54	36.366	
5300	4756	2915	2915	22	89	12.06	2193	-1409	2961	2879	82.31	35.976	
5400	4756	2915	2915	24	89	12.06	2193	-1409	2886	2805	81.03	35.615	
5500	4757	2915	2915	25	89	12.06	2193	-1409	2812	2732	79.69	35.286	
5600	4758	2915	2915	27	89	12.06	2193	-1409	2740	2662	78.30	34.989	
5700	4758	2915	2915	29	89	12.06	2193	-1409	2669	2593	76.86	34.730	
5799	4759	2915	2915	31	89	12.06	2193	-1409	2602	2526	75.38	34.513	
5800	4759	2915	2915	31	89	12.06	2193	-1409	2601	2526	75.37	34.511	
5898	4760	2915	2915	33	89	12.06	2193	-1409	2536	2462	73.84	34.340	
5900	4760	2915	2915	33	89	12.06	2193	-1409	2535	2461	73.81	34.338	
5997	4761	2915	2915	35	89	12.06	2193	-1409	2472	2400	72.25	34.217	
6000	4761	2915	2915	35	89	12.06	2193	-1409	2471	2398	72.21	34.214	
6096	4761	2915	2915	37	89	12.06	2193	-1409	2411	2341	70.60	34.150	
6100	4761	2915	2915	37	89	12.06	2193	-1409	2409	2338	70.54	34.149	
6195	4762	2915	2915	39	89	12.06	2193	-1409	2353	2284	68.90	34.146	
6200	4762	2915	2915	39	89	12.06	2193	-1409	2350	2281	68.81	34.148	
6294	4763	2915	2915	41	89	12.06	2193	-1409	2297	2230	67.13	34.216	
6300	4763	2915	2915	41	89	12.06	2193	-1409	2294	2227	67.02	34.223	
6393	4763	2915	2915	44	89	12.06	2193	-1409	2244	2179	65.29	34.369	
6400	4763	2915	2915	44	89	12.06	2193	-1409	2241	2175	65.16	34.384	
6492	4764	2915	2915	46	89	12.06	2193	-1409	2195	2131	63.39	34.617	
6500	4764	2915	2915	46	89	12.06	2193	-1409	2191	2127	63.24	34.642	
6591	4765	2915	2915	48	89	12.06	2193	-1409	2148	2087	61.43	34.972	
6600	4765	2915	2915	48	89	12.06	2193	-1409	2144	2083	61.25	35.011	
6690	4766	2915	2915	50	89	12.06	2193	-1409	2106	2047	59.41	35.446	
6700	4766	2915	2915	51	89	12.06	2193	-1409	2102	2043	59.20	35.503	
6789	4766	2915	2915	53	89	12.06	2193	-1409	2067	2010	57.35	36.048	
6800	4766	2915	2915	53	89	12.06	2193	-1409	2063	2006	57.11	36.127	
6887	4767	2915	2915	55	89	12.06	2193	-1409	2033	1978	55.27	36.782	
6900	4767	2915	2915	55	89	12.06	2193	-1409	2029	1974	55.00	36.886	
6986	4768	2915	2915	57	89	12.06	2193	-1409	2003	1949	53.21	37.641	
7000	4768	2915	2915	58	89	12.06	2193	-1409	1999	1946	52.92	37.771	
7085	4768	2915	2915	60	89	12.06	2193	-1409	1977	1926	51.22	38.595	
7100	4768	2915	2915	60	89	12.06	2193	-1409	1973	1922	50.93	38.748	
7183	4769	2915	2915	62	89	12.06	2193	-1409	1956	1906	49.42	39.580	
7200	4769	2915	2915	62	89	12.06	2193	-1409	1953	1904	49.14	39.742	
7282	4770	2915	2915	64	89	12.06	2193	-1409	1940	1892	47.92	40.476	
7300	4770	2915	2915	65	89	12.06	2193	-1409	1937	1889	47.69	40.616	
7381	4770	2915	2915	67	89	12.06	2193	-1409	1928	1881	46.92	41.092	
7400	4771	2915	2915	67	89	12.06	2193	-1409	1927	1880	46.81	41.160	
7479	4771	2915	2915	69	89	12.06	2193	-1409	1922	1875	46.65	41.194	
7500	4771	2915	2915	69	89	12.06	2193	-1409	1921	1874	46.71	41.131	
7554	4772	2915	2915	71	89	12.06	2193	-1409	1920	1873	47.05	40.813 CC, ES	
7600	4772	2915	2915	72	89	12.06	2193	-1409	1921	1873	47.58	40.374	
7700	4773	2915	2915	74	89	12.06	2193	-1409	1926	1876	49.44	38.955	
7800	4773	2915	2915	77	89	12.06	2193	-1409	1936	1884	52.13	37.137	
7900	4774	2915	2915	79	89	12.06	2193	-1409	1951	1896	55.41	35.217	
8000	4775	2915	2915	82	89	12.06	2193	-1409	1971	1912	59.02	33.402	
8100	4776	2915	2915	84	89	12.06	2193	-1409	1996	1934	62.79	31.797	
8200	4776	2915	2915	86	89	12.06	2193	-1409	2026	1960	66.57	30.435	
8300	4777	2915	2915	89	89	12.06	2193	-1409	2060	1990	70.28	29.313	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Big Yazzie 1 - OH - OH													Offset Site Error: 0 ft		
Survey Program: 672-INCLINOMETER									Rule Assigned:				Offset Well Error: 0 ft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre				Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
8400	4778	2915	2915	91	89	12.06	2193	-1409	2098	2025	73.86	28.412			
8500	4778	2915	2915	94	89	12.06	2193	-1409	2141	2063	77.26	27.707			
8600	4779	2915	2915	96	89	12.06	2193	-1409	2187	2106	80.47	27.173			
8700	4780	2915	2915	99	89	12.06	2193	-1409	2236	2153	83.48	26.789			
8800	4781	2915	2915	101	89	12.06	2193	-1409	2289	2203	86.28	26.532			
8900	4781	2915	2915	103	89	12.06	2193	-1409	2345	2256	88.87	26.387			
9000	4782	2915	2915	106	89	12.06	2193	-1409	2404	2313	91.27	26.339	SF		
9100	4783	2915	2915	108	89	12.06	2193	-1409	2465	2372	93.47	26.375			
9200	4783	2915	2915	111	89	12.06	2193	-1409	2529	2434	95.50	26.484			
9300	4784	2915	2915	113	89	12.06	2193	-1409	2595	2498	97.36	26.658			
9400	4785	2915	2915	116	89	12.06	2193	-1409	2664	2565	99.06	26.888			
9500	4786	2915	2915	118	89	12.06	2193	-1409	2734	2633	100.63	27.169			
9600	4786	2915	2915	121	89	12.06	2193	-1409	2806	2704	102.06	27.494			
9700	4787	2915	2915	123	89	12.06	2193	-1409	2880	2776	103.37	27.858			
9800	4788	2915	2915	126	89	12.06	2193	-1409	2955	2850	104.57	28.259			
9900	4789	2915	2915	128	89	12.06	2193	-1409	3032	2926	105.67	28.690			
10,000	4789	2915	2915	130	89	12.06	2193	-1409	3110	3003	106.67	29.151			
10,100	4790	2915	2915	133	89	12.06	2193	-1409	3189	3081	107.60	29.637			
10,200	4791	2915	2915	135	89	12.06	2193	-1409	3269	3161	108.45	30.146			
10,300	4791	2915	2915	138	89	12.06	2193	-1409	3351	3242	109.23	30.677			
10,400	4792	2915	2915	140	89	12.06	2193	-1409	3433	3323	109.94	31.227			
10,500	4793	2915	2915	143	89	12.06	2193	-1409	3517	3406	110.60	31.794			
10,600	4794	2915	2915	145	89	12.06	2193	-1409	3601	3489	111.21	32.377			
10,700	4794	2915	2915	148	89	12.06	2193	-1409	3686	3574	111.77	32.974			
10,800	4795	2915	2915	150	89	12.06	2193	-1409	3771	3659	112.29	33.585			
10,900	4796	2915	2915	153	89	12.06	2193	-1409	3858	3745	112.77	34.208			
11,000	4796	2915	2915	155	89	12.06	2193	-1409	3945	3832	113.22	34.843			
11,100	4797	2915	2915	158	89	12.06	2193	-1409	4032	3919	113.63	35.488			
11,200	4798	2915	2915	160	89	12.06	2193	-1409	4121	4007	114.01	36.142			
11,300	4799	2915	2915	163	89	12.06	2193	-1409	4209	4095	114.37	36.805			
11,366	4799	2915	2915	164	89	12.06	2193	-1409	4268	4153	114.59	37.245			

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - January Jamboree 1 - OH - OH												Offset Site Error:	0 ft
Survey Program: 345-INCLINOMETER												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0	0	127	127	0	4	-40.64	4673	-4011	6158				
100	100	227	227	0	7	-40.64	4673	-4011	6158	6151	7.20	855.095	
200	200	327	327	1	10	-40.64	4673	-4011	6158	6148	10.60	581.131	
300	300	427	427	1	13	-40.64	4673	-4011	6158	6144	13.99	440.118	
400	400	532	532	1	16	-40.64	4673	-4011	6159	6141	17.55	350.996	
425	425	559	559	1	17	-40.64	4673	-4011	6158	6140	18.46	333.563	
429	429	564	564	1	17	-158.38	4673	-4011	6158	6140	18.61	331.007	
500	500	627	627	2	19	-158.38	4673	-4011	6159	6139	20.77	296.490	
600	600	727	727	2	22	-158.36	4673	-4011	6163	6139	24.15	255.211	
700	700	827	827	2	25	-158.33	4673	-4011	6171	6143	27.53	224.160	
800	799	930	930	3	28	-158.29	4673	-4011	6181	6150	31.01	199.327	
819	818	949	949	3	29	-158.29	4673	-4011	6184	6152	31.68	195.177	
900	898	1033	1033	3	31	-158.33	4673	-4011	6194	6160	34.51	179.489	
1000	997	1124	1124	4	34	-158.37	4673	-4011	6207	6169	37.64	164.896	
1100	1096	1223	1223	4	37	-158.42	4673	-4011	6219	6178	41.01	151.654	
1200	1195	1322	1322	4	40	-158.46	4673	-4011	6232	6188	44.38	140.415	
1300	1294	1437	1437	5	44	-158.51	4674	-4011	6246	6197	48.25	129.457	
1400	1393	1556	1556	5	47	-158.57	4673	-4011	6258	6206	52.22	119.842	
1500	1492	1620	1619	6	49	-158.60	4673	-4011	6271	6216	54.52	115.015	
1600	1591	1719	1718	6	52	-158.65	4673	-4011	6283	6225	57.90	108.524	
1700	1690	1818	1817	7	55	-158.69	4673	-4011	6296	6235	61.28	102.745	
1800	1789	1917	1916	7	58	-158.74	4673	-4011	6309	6244	64.66	97.571	
1900	1889	2016	2016	7	61	-158.78	4673	-4011	6322	6254	68.04	92.910	
2000	1988	2115	2115	8	64	-158.83	4673	-4011	6335	6263	71.42	88.691	
2100	2087	2222	2222	8	67	-158.87	4674	-4011	6348	6273	75.06	84.570	
2200	2186	2330	2330	9	71	-158.92	4673	-4011	6360	6282	78.71	80.802	
2300	2285	2412	2412	9	73	-158.96	4673	-4011	6373	6291	81.57	78.130	
2400	2384	2511	2511	10	76	-159.00	4673	-4011	6386	6301	84.95	75.170	
2500	2483	2610	2610	10	79	-159.04	4674	-4011	6399	6311	88.34	72.437	
2600	2582	2725	2724	11	83	-159.09	4674	-4011	6412	6320	92.19	69.553	
2700	2681	2839	2839	11	86	-159.15	4673	-4011	6424	6328	96.03	66.897	
2800	2780	2907	2907	11	88	-159.18	4673	-4011	6437	6339	98.48	65.362	
2900	2879	3006	3006	12	91	-159.22	4673	-4011	6450	6348	101.87	63.318	
3000	2978	3109	3108	12	94	-159.26	4674	-4011	6464	6358	105.34	61.359	
3100	3077	3234	3234	13	98	-159.31	4674	-4011	6476	6367	109.54	59.124	
3200	3176	3360	3360	13	102	-159.38	4673	-4011	6489	6375	113.73	57.050	
3300	3275	3403	3402	14	103	-159.39	4673	-4011	6501	6386	115.40	56.338	
3400	3374	3502	3501	14	106	-159.44	4673	-4011	6514	6395	118.78	54.841	
3500	3473	3601	3601	15	109	-159.48	4673	-4011	6527	6405	122.18	53.425	
3600	3572	3705	3704	15	113	-159.52	4673	-4011	6540	6414	125.69	52.032	
3700	3672	3808	3808	15	116	-159.56	4673	-4011	6553	6424	129.21	50.714	
3800	3771	3898	3898	16	118	-159.60	4673	-4011	6566	6433	132.31	49.621	
3900	3870	3997	3997	16	121	-159.64	4673	-4011	6578	6443	135.70	48.479	
4000	3969	4096	4096	17	124	-159.68	4674	-4011	6592	6453	139.08	47.394	
4100	4068	4205	4204	17	128	-159.73	4673	-4011	6605	6462	142.75	46.267	
4170	4137	4281	4280	17	130	-159.76	4673	-4011	6613	6468	145.32	45.508	
4200	4167	4313	4312	18	131	-149.25	4673	-4011	6616	6470	146.41	45.190	
4250	4217	4368	4367	18	133	-67.11	4673	-4011	6618	6469	148.25	44.640	
4300	4267	4394	4394	18	133	-17.73	4673	-4011	6615	6465	149.21	44.330	
4350	4316	4444	4443	18	135	-8.46	4673	-4011	6607	6456	150.86	43.794	
4400	4365	4492	4492	18	136	-4.85	4673	-4011	6595	6442	152.47	43.252	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - January Jamboree 1 - OH - OH												Offset Site Error: 0 ft	
Survey Program: 345-INCLINOMETER				Offset				Rule Assigned:				Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4450	4412	4539	4539	18	138	-2.90	4673	-4011	6578	6424	154.03	42.707	
4500	4457	4585	4584	18	139	-1.64	4673	-4011	6558	6402	155.53	42.163	
4550	4501	4628	4628	18	141	-0.71	4673	-4011	6533	6376	156.94	41.624	
4600	4541	4669	4668	18	142	0.06	4673	-4011	6504	6346	158.28	41.093	
4650	4580	4707	4707	18	143	0.76	4673	-4011	6472	6312	159.51	40.573	
4700	4615	4742	4742	18	144	1.46	4673	-4011	6436	6275	160.63	40.067	
4750	4646	4774	4773	18	145	2.24	4673	-4011	6397	6236	161.64	39.577	
4800	4674	4802	4801	18	146	3.18	4673	-4011	6356	6193	162.53	39.106	
4850	4698	4826	4825	18	147	4.40	4673	-4011	6312	6149	163.29	38.657	
4900	4718	4842	4842	18	147	6.17	4673	-4011	6266	6103	163.80	38.256	
4950	4734	4842	4842	19	147	8.96	4673	-4011	6219	6055	163.80	37.966	
5000	4745	4842	4842	19	147	14.29	4673	-4011	6170	6007	163.80	37.669	
5050	4752	4842	4842	19	147	28.16	4673	-4011	6121	5957	163.80	37.368	
5095	4754	4842	4842	20	147	76.08	4673	-4011	6076	5912	163.80	37.094	
5100	4754	4842	4842	20	147	76.08	4673	-4011	6071	5907	163.80	37.065	
5200	4755	4842	4842	21	147	76.08	4673	-4011	5971	5807	163.78	36.458	
5300	4756	4842	4842	22	147	76.08	4673	-4011	5871	5708	163.78	35.851	
5400	4756	4842	4842	24	147	76.08	4673	-4011	5772	5608	163.77	35.243	
5500	4757	4842	4842	25	147	76.08	4673	-4011	5672	5508	163.76	34.634	
5600	4758	4842	4842	27	147	76.08	4673	-4011	5572	5408	163.76	34.026	
5700	4758	4842	4842	29	147	76.08	4673	-4011	5472	5308	163.76	33.416	
5800	4759	4842	4842	31	147	76.08	4673	-4011	5372	5209	163.76	32.806	
5900	4760	4842	4842	33	147	76.08	4673	-4011	5273	5109	163.77	32.196	
6000	4761	4842	4842	35	147	76.08	4673	-4011	5173	5009	163.77	31.585	
6100	4761	4842	4842	37	147	76.08	4673	-4011	5073	4909	163.78	30.974	
6200	4762	4842	4842	39	147	76.08	4673	-4011	4973	4809	163.80	30.362	
6300	4763	4842	4842	41	147	76.08	4673	-4011	4874	4710	163.82	29.750	
6400	4763	4842	4842	44	147	76.08	4673	-4011	4774	4610	163.84	29.137	
6500	4764	4842	4842	46	147	76.08	4673	-4011	4674	4510	163.87	28.523	
6600	4765	4842	4842	48	147	76.08	4673	-4011	4574	4410	163.90	27.909	
6700	4766	4842	4842	51	147	76.08	4673	-4011	4475	4311	163.94	27.294	
6800	4766	4842	4842	53	147	76.08	4673	-4011	4375	4211	163.99	26.679	
6900	4767	4842	4842	55	147	76.08	4673	-4011	4275	4111	164.04	26.063	
7000	4768	4842	4842	58	147	76.08	4673	-4011	4176	4011	164.10	25.446	
7100	4768	4842	4842	60	147	76.08	4673	-4011	4076	3912	164.16	24.829	
7200	4769	4842	4842	62	147	76.08	4673	-4011	3976	3812	164.24	24.210	
7300	4770	4842	4842	65	147	76.08	4673	-4011	3877	3712	164.32	23.592	
7400	4771	4842	4842	67	147	76.08	4673	-4011	3777	3613	164.42	22.972	
7500	4771	4842	4842	69	147	76.08	4673	-4011	3678	3513	164.53	22.351	
7600	4772	4842	4842	72	147	76.08	4673	-4011	3578	3413	164.66	21.730	
7700	4773	4842	4842	74	147	76.08	4673	-4011	3478	3314	164.79	21.108	
7800	4773	4842	4842	77	147	76.08	4673	-4011	3379	3214	164.95	20.485	
7900	4774	4842	4842	79	147	76.08	4673	-4011	3279	3114	165.13	19.860	
8000	4775	4842	4842	82	147	76.08	4673	-4011	3180	3015	165.33	19.235	
8100	4776	4842	4842	84	147	76.08	4673	-4011	3081	2915	165.55	18.609	
8200	4776	4842	4842	86	147	76.08	4673	-4011	2981	2816	165.80	17.981	
8300	4777	4842	4842	89	147	76.08	4673	-4011	2882	2716	166.08	17.353	
8400	4778	4842	4842	91	147	76.08	4673	-4011	2783	2616	166.40	16.723	
8500	4778	4842	4842	94	147	76.08	4673	-4011	2684	2517	166.76	16.092	
8600	4779	4842	4842	96	147	76.08	4673	-4011	2584	2417	167.17	15.460	
8700	4780	4842	4842	99	147	76.08	4673	-4011	2485	2318	167.63	14.827	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - January Jamboree 1 - OH - OH													Offset Site Error: 0 ft		
Survey Program: 345-INCLINOMETER				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
8800	4781	4842	4842	101	147	76.08	4673	-4011	2386	2218	168.15	14.192			
8900	4781	4842	4842	103	147	76.08	4673	-4011	2287	2119	168.74	13.556			
9000	4782	4842	4842	106	147	76.08	4673	-4011	2189	2019	169.41	12.920			
9100	4783	4842	4842	108	147	76.08	4673	-4011	2090	1920	170.17	12.282			
9200	4783	4842	4842	111	147	76.08	4673	-4011	1991	1820	171.04	11.643			
9300	4784	4842	4842	113	147	76.08	4673	-4011	1893	1721	172.04	11.003			
9400	4785	4842	4842	116	147	76.08	4673	-4011	1795	1622	173.18	10.363			
9500	4786	4842	4842	118	147	76.08	4673	-4011	1697	1522	174.50	9.723			
9600	4786	4842	4842	121	147	76.08	4673	-4011	1599	1423	176.02	9.084			
9700	4787	4842	4842	123	147	76.08	4673	-4011	1501	1324	177.79	8.445			
9800	4788	4842	4842	126	147	76.08	4673	-4011	1404	1224	179.85	7.808			
9900	4789	4842	4842	128	147	76.08	4673	-4011	1308	1125	182.26	7.174			
10,000	4789	4842	4842	130	147	76.08	4673	-4011	1211	1026	185.11	6.544			
10,100	4790	4842	4842	133	147	76.08	4673	-4011	1116	927	188.50	5.920			
10,200	4791	4842	4842	135	147	76.08	4673	-4011	1021	829	192.56	5.304			
10,300	4791	4842	4842	138	147	76.08	4673	-4011	928	730	197.47	4.699			
10,400	4792	4842	4842	140	147	76.08	4673	-4011	836	632	203.46	4.108			
10,500	4793	4842	4842	143	147	76.08	4673	-4011	746	535	210.85	3.538			
10,600	4794	4842	4842	145	147	76.08	4673	-4011	659	439	220.04	2.994			
10,700	4794	4842	4842	148	147	76.08	4673	-4011	576	345	231.50	2.488			
10,800	4795	4842	4842	150	147	76.08	4673	-4011	500	254	245.64	2.034			
10,900	4796	4842	4842	153	147	76.08	4673	-4011	433	170	262.36	1.650			
11,000	4796	4842	4842	155	147	76.08	4673	-4011	381	101	279.96	1.360	Level 3		
11,096	4797	4842	4842	158	147	76.08	4673	-4011	351	58	293.47	1.196	Level 3		
11,100	4797	4842	4842	158	147	76.08	4673	-4011	350	57	293.84	1.193	Level 3		
11,161	4798	4842	4842	159	147	76.08	4673	-4011	345	47	297.84	1.158	Level 3, CC, ES, SF		
11,200	4798	4842	4842	160	147	76.08	4673	-4011	347	49	298.06	1.165	Level 3		
11,300	4799	4842	4842	163	147	76.08	4673	-4011	372	81	291.19	1.277	Level 3		
11,366	4799	4842	4842	164	147	76.08	4673	-4011	401	118	282.83	1.418	Level 3		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Com #127H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)		
0	0	0	0	0	0	163.72	-19	6	20				
100	100	100	100	0	0	163.72	-19	6	20	20	0.46	43.218	
200	200	200	200	1	1	163.72	-19	6	20	19	1.18	16.946	
300	300	300	300	1	1	163.72	-19	6	20	18	1.90	10.539	
400	400	400	400	1	1	163.72	-19	6	20	17	2.61	7.648	
425	425	425	425	1	1	163.72	-19	6	20	17	2.79	7.157 CC	
500	500	500	500	2	2	46.19	-20	6	20	17	3.31	6.056	
600	600	599	599	2	2	47.07	-22	10	20	16	3.99	5.093	
700	700	699	698	2	2	48.60	-26	17	21	16	4.69	4.442 ES	
800	799	798	797	3	3	50.67	-32	26	22	16	5.41	3.986	
819	818	817	816	3	3	51.12	-34	28	22	16	5.55	3.915	
900	898	897	895	3	3	50.94	-40	38	23	17	6.15	3.780 SF	
1000	997	997	993	4	3	46.12	-50	53	27	21	6.90	3.982	
1100	1096	1096	1090	4	4	39.53	-62	71	34	27	7.62	4.495	
1200	1195	1196	1187	4	4	34.84	-74	89	42	33	8.36	4.994	
1300	1294	1295	1285	5	5	31.59	-85	107	49	40	9.11	5.431	
1400	1393	1395	1382	5	5	29.22	-97	125	57	47	9.85	5.812	
1500	1492	1495	1479	6	6	27.42	-109	143	65	55	10.60	6.145	
1600	1591	1594	1577	6	6	26.01	-121	161	73	62	11.35	6.436	
1700	1690	1694	1674	7	7	24.87	-132	179	81	69	12.10	6.694	
1800	1789	1794	1771	7	8	23.94	-144	196	89	76	12.86	6.923	
1900	1889	1893	1869	7	8	23.16	-156	214	97	83	13.61	7.126	
2000	1988	1993	1966	8	9	22.51	-167	232	105	91	14.37	7.309	
2100	2087	2093	2063	8	9	21.94	-179	250	113	98	15.13	7.474	
2200	2186	2192	2161	9	10	21.45	-191	268	121	105	15.89	7.624	
2300	2285	2292	2258	9	10	21.02	-203	286	129	113	16.65	7.760	
2400	2384	2392	2355	10	11	20.64	-214	304	137	120	17.41	7.884	
2500	2483	2491	2453	10	11	20.31	-226	322	145	127	18.17	7.998	
2600	2582	2591	2550	11	12	20.00	-238	340	153	134	18.93	8.102	
2700	2681	2691	2647	11	12	19.73	-250	358	161	142	19.69	8.199	
2800	2780	2790	2745	11	13	19.49	-261	376	170	149	20.45	8.288	
2900	2879	2890	2842	12	13	19.26	-273	394	178	156	21.21	8.371	
3000	2978	2990	2939	12	14	19.06	-285	412	186	164	21.98	8.449	
3100	3077	3089	3037	13	15	18.87	-297	430	194	171	22.74	8.521	
3200	3176	3189	3134	13	15	18.70	-308	448	202	178	23.50	8.588	
3300	3275	3289	3231	14	16	18.54	-320	466	210	186	24.26	8.651	
3400	3374	3388	3329	14	16	18.40	-332	484	218	193	25.03	8.710	
3500	3473	3488	3426	15	17	18.26	-344	502	226	200	25.79	8.766	
3600	3572	3588	3523	15	17	18.13	-355	520	234	208	26.56	8.819	
3700	3672	3687	3621	15	18	18.02	-367	538	242	215	27.32	8.868	
3800	3771	3787	3718	16	18	17.91	-379	556	250	222	28.08	8.915	
3900	3870	3887	3815	16	19	17.80	-391	574	258	230	28.85	8.959	
4000	3969	3986	3913	17	19	17.70	-402	592	267	237	29.61	9.001	
4100	4068	4086	4010	17	20	17.61	-414	610	275	244	30.38	9.041	
4170	4137	4156	4078	17	20	17.55	-422	622	280	249	30.91	9.068	
4200	4167	4186	4107	18	21	28.07	-426	628	284	252	31.14	9.105	
4250	4217	4235	4155	18	21	110.19	-432	636	293	261	31.51	9.285	
4300	4267	4283	4202	18	21	159.52	-437	645	306	274	31.86	9.605	
4350	4316	4330	4248	18	21	168.72	-443	654	324	292	32.19	10.060	
4400	4365	4375	4292	18	22	172.24	-448	662	346	313	32.50	10.641	
4450	4412	4400	4316	18	22	174.08	-451	666	372	340	32.61	11.416	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Com #127H - Original Drilling - APD Rev 1													Offset Site Error: 0 ft		
Survey Program: 0-MWD+IGRF				Rule Assigned:										Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4500	4457	4432	4348	18	22	175.19	-456	673	404	371	32.80	12.306			
4550	4501	4450	4365	18	22	175.94	-459	677	440	407	32.79	13.413			
4600	4541	4468	4382	18	22	176.48	-462	681	480	447	32.81	14.631			
4650	4580	4481	4394	18	22	176.89	-465	685	523	491	32.78	15.968			
4700	4615	4500	4412	18	22	177.21	-469	691	570	537	32.90	17.312			
4750	4646	4500	4412	18	22	177.54	-469	691	617	584	32.76	18.838			
4800	4674	4500	4412	18	22	177.97	-469	691	666	634	32.68	20.389			
4850	4698	4500	4412	18	22	179.44	-469	691	716	683	32.64	21.935			
4900	4718	4500	4412	18	22	-4.24	-469	691	766	733	32.66	23.457			
4950	4734	4500	4412	19	22	-2.99	-469	691	816	783	32.71	24.940			
5000	4745	4500	4412	19	22	-2.69	-469	691	865	832	32.80	26.374			
5050	4752	4500	4412	19	22	-2.56	-469	691	913	880	32.91	27.752			
5095	4754	4500	4412	20	22	-2.50	-469	691	956	923	33.03	28.951			
5100	4754	4500	4412	20	22	-2.50	-469	691	961	928	33.04	29.075			
5200	4755	4476	4389	21	22	-2.50	-464	684	1054	1021	33.07	31.879			
5300	4756	4450	4365	22	22	-2.50	-459	677	1149	1116	33.06	34.746			
5400	4756	4450	4365	24	22	-2.50	-459	677	1244	1210	33.26	37.387			
5500	4757	4450	4365	25	22	-2.50	-459	677	1339	1306	33.42	40.070			
5600	4758	4450	4365	27	22	-2.50	-459	677	1435	1402	33.54	42.786			
5700	4758	4431	4347	29	22	-2.50	-456	673	1531	1498	33.54	45.655			
5800	4759	4425	4340	31	22	-2.50	-454	671	1628	1594	33.60	48.449			
5900	4760	4400	4316	33	22	-2.50	-451	666	1725	1692	33.56	51.401			
6000	4761	4400	4316	35	22	-2.50	-451	666	1822	1789	33.64	54.162			
6100	4761	4400	4316	37	22	-2.50	-451	666	1920	1886	33.71	56.938			
6200	4762	4400	4316	39	22	-2.50	-451	666	2017	1983	33.77	59.724			
6300	4763	4398	4315	41	22	-2.50	-451	666	2115	2081	33.82	62.529			
6400	4763	4380	4297	44	22	-2.50	-449	663	2213	2179	33.81	65.447			
6500	4764	4360	4277	46	21	-2.50	-446	659	2311	2277	33.79	68.377			
6600	4765	4339	4257	48	21	-2.50	-444	655	2409	2375	33.78	71.306			
6700	4766	4319	4237	51	21	-2.50	-442	652	2506	2473	33.77	74.232			
6800	4766	4298	4217	53	21	-2.50	-439	648	2604	2571	33.76	77.155			
6900	4767	4278	4197	55	21	-2.50	-437	644	2702	2669	33.75	80.075			
7000	4768	4258	4177	58	21	-2.50	-434	641	2800	2766	33.74	82.990			
7100	4768	4237	4157	60	21	-2.50	-432	637	2898	2864	33.74	85.902			
7200	4769	4217	4138	62	21	-2.50	-430	633	2996	2962	33.73	88.809			
7300	4770	4196	4118	65	21	-2.50	-427	630	3094	3060	33.74	91.710			
7400	4771	4176	4098	67	20	-2.50	-425	626	3192	3158	33.74	94.606			
7500	4771	4156	4078	69	20	-2.50	-422	622	3290	3256	33.74	97.495			
7600	4772	4135	4058	72	20	-2.50	-420	619	3388	3354	33.75	100.378			
7700	4773	4115	4038	74	20	-2.50	-418	615	3485	3452	33.76	103.254			
7800	4773	4094	4018	77	20	-2.50	-415	611	3583	3550	33.77	106.122			
7900	4774	4074	3998	79	20	-2.50	-413	607	3681	3647	33.78	108.983			
8000	4775	4054	3978	82	20	-2.50	-410	604	3779	3745	33.79	111.835			
8100	4776	4033	3958	84	20	-2.51	-408	600	3877	3843	33.81	114.678			
8200	4776	4013	3938	86	20	-2.51	-406	596	3975	3941	33.83	117.513			
8300	4777	3992	3918	89	19	-2.51	-403	593	4073	4039	33.84	120.339			
8400	4778	3972	3898	91	19	-2.51	-401	589	4171	4137	33.87	123.154			
8500	4778	3952	3879	94	19	-2.51	-398	585	4269	4235	33.89	125.960			
8600	4779	3931	3859	96	19	-2.51	-396	582	4367	4333	33.91	128.756			
8700	4780	3911	3839	99	19	-2.51	-394	578	4464	4430	33.94	131.541			
8800	4781	3890	3819	101	19	-2.51	-391	574	4562	4528	33.97	134.315			

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Com #127H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	(°)	(ft)	(ft)	Centres	Ellipses	Separation	Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)				(ft)	(ft)	(ft)		
8900	4781	3870	3799	103	19	-2.51	-389	571	4660	4626	34.00	137.078	
9000	4782	3850	3779	106	19	-2.51	-386	567	4758	4724	34.03	139.830	
9100	4783	3829	3759	108	19	-2.51	-384	563	4856	4822	34.06	142.570	
9200	4783	3809	3739	111	18	-2.51	-381	560	4954	4920	34.09	145.298	
9300	4784	3788	3719	113	18	-2.51	-379	556	5052	5018	34.13	148.014	
9400	4785	3768	3699	116	18	-2.51	-377	552	5150	5116	34.17	150.718	
9500	4786	3747	3679	118	18	-2.51	-374	549	5248	5213	34.21	153.410	
9600	4786	3727	3659	121	18	-2.51	-372	545	5345	5311	34.25	156.089	
9700	4787	3707	3639	123	18	-2.51	-369	541	5443	5409	34.29	158.755	
9800	4788	3686	3619	126	18	-2.51	-367	538	5541	5507	34.33	161.408	
9900	4789	3666	3600	128	18	-2.51	-365	534	5639	5605	34.38	164.048	
10,000	4789	3645	3580	130	18	-2.51	-362	530	5737	5703	34.42	166.675	
10,100	4790	3625	3560	133	17	-2.51	-360	527	5835	5800	34.47	169.288	
10,200	4791	3605	3540	135	17	-2.51	-357	523	5933	5898	34.52	171.888	
10,300	4791	3584	3520	138	17	-2.51	-355	519	6031	5996	34.57	174.474	
10,400	4792	3564	3500	140	17	-2.51	-353	516	6129	6094	34.62	177.046	
10,500	4793	3543	3480	143	17	-2.51	-350	512	6227	6192	34.67	179.604	
10,600	4794	3523	3460	145	17	-2.51	-348	508	6324	6290	34.72	182.149	
10,700	4794	3503	3440	148	17	-2.51	-345	505	6422	6388	34.78	184.679	
10,800	4795	3482	3420	150	17	-2.51	-343	501	6520	6485	34.83	187.195	
10,900	4796	3462	3400	153	17	-2.51	-341	497	6618	6583	34.89	189.697	
11,000	4796	3441	3380	155	16	-2.51	-338	493	6716	6681	34.95	192.185	
11,100	4797	3421	3360	158	16	-2.51	-336	490	6814	6779	35.00	194.658	
11,200	4798	3401	3341	160	16	-2.51	-333	486	6912	6877	35.06	197.117	
11,300	4799	3380	3321	163	16	-2.51	-331	482	7010	6975	35.13	199.562	
11,366	4799	3367	3308	164	16	-2.51	-329	480	7074	7039	35.17	201.158	

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #125H - Original Drilling - APD Rev 1													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)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	162.85	-58	18	60					
100	100	100	100	0	0	162.85	-58	18	60	60	0.46	130.165		
200	200	200	200	1	1	162.85	-58	18	60	59	1.18	51.037		
300	300	300	300	1	1	162.85	-58	18	60	58	1.90	31.742		
400	400	400	400	1	1	162.85	-58	18	60	58	2.61	23.033		
425	425	425	425	1	1	162.85	-58	18	60	57	2.79	21.555 CC		
500	500	498	498	2	2	45.77	-58	18	60	57	3.30	18.304 ES		
600	600	596	596	2	2	48.61	-62	19	62	58	3.97	15.563		
700	700	694	694	2	2	53.39	-70	21	64	60	4.65	13.871		
800	799	791	790	3	3	59.52	-80	24	69	64	5.35	12.928		
819	818	810	809	3	3	60.78	-82	25	70	65	5.49	12.818		
900	898	888	886	3	3	65.60	-93	28	77	71	6.08	12.632		
1000	997	985	981	4	3	69.69	-110	33	88	81	6.83	12.913		
1100	1096	1081	1075	4	4	72.01	-129	39	103	95	7.59	13.553		
1200	1195	1176	1168	4	4	73.01	-152	45	121	112	8.35	14.431		
1300	1294	1270	1258	5	5	73.14	-176	52	141	132	9.12	15.477		
1400	1393	1363	1346	5	5	72.72	-204	60	165	155	9.89	16.653		
1500	1492	1459	1437	6	6	72.12	-234	69	190	179	10.71	17.721		
1600	1591	1556	1529	6	7	71.66	-264	78	215	203	11.55	18.611		
1700	1690	1653	1620	7	7	71.29	-294	86	240	228	12.40	19.371		
1800	1789	1749	1712	7	8	71.00	-324	95	265	252	13.25	20.027		
1900	1889	1846	1803	7	9	70.75	-355	104	291	276	14.11	20.597		
2000	1988	1943	1895	8	9	70.55	-385	113	316	301	14.97	21.097		
2100	2087	2040	1986	8	10	70.37	-415	122	341	325	15.83	21.539		
2200	2186	2136	2078	9	11	70.22	-445	130	366	350	16.70	21.932		
2300	2285	2233	2169	9	11	70.09	-476	139	392	374	17.57	22.284		
2400	2384	2330	2261	10	12	69.97	-506	148	417	398	18.44	22.600		
2500	2483	2427	2352	10	13	69.87	-536	157	442	423	19.31	22.887		
2600	2582	2524	2444	11	13	69.78	-566	165	467	447	20.18	23.147		
2700	2681	2620	2535	11	14	69.69	-596	174	492	471	21.06	23.384		
2800	2780	2717	2627	11	15	69.62	-627	183	518	496	21.93	23.601		
2900	2879	2814	2718	12	15	69.55	-657	192	543	520	22.81	23.801		
3000	2978	2911	2810	12	16	69.49	-687	200	568	544	23.69	23.985		
3100	3077	3007	2901	13	17	69.44	-717	209	593	569	24.57	24.155		
3200	3176	3104	2993	13	18	69.38	-748	218	619	593	25.44	24.313		
3300	3275	3201	3084	14	18	69.34	-778	227	644	618	26.32	24.460		
3400	3374	3298	3176	14	19	69.29	-808	236	669	642	27.20	24.596		
3500	3473	3394	3267	15	20	69.25	-838	244	694	666	28.08	24.724		
3600	3572	3491	3359	15	20	69.21	-869	253	720	691	28.96	24.844		
3700	3672	3588	3450	15	21	69.18	-899	262	745	715	29.85	24.956		
3800	3771	3685	3542	16	22	69.15	-929	271	770	739	30.73	25.062		
3900	3870	3781	3633	16	22	69.12	-959	279	795	764	31.61	25.161		
4000	3969	4230	4064	17	24	77.03	-997	219	810	776	33.46	24.195		
4100	4068	4547	4294	17	23	94.60	-872	47	784	750	34.29	22.857		
4170	4137	4618	4327	17	23	99.67	-831	0	766	730	35.72	21.439		
4200	4167	4638	4334	18	23	111.03	-818	-14	760	723	36.29	20.930		
4250	4217	4670	4345	18	22	-165.33	-798	-36	752	714	37.15	20.232		
4300	4267	4700	4354	18	22	-114.32	-778	-57	747	709	37.84	19.732		
4350	4316	4729	4361	18	22	-103.24	-759	-77	744	706	38.37	19.401		
4363	4329	4737	4362	18	22	-101.52	-754	-83	744	706	38.48	19.346		
4400	4365	4757	4366	18	22	-97.64	-739	-97	745	706	38.73	19.238		

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #125H - Original Drilling - APD Rev 1												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)	Semi Major Axis Reference (ft)	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
4450	4412	4785	4370	18	22	-93.56	-720	-117	748	709	38.93	19.217	
4500	4457	4813	4372	18	22	-90.04	-701	-136	754	715	38.99	19.325	
4550	4501	4840	4373	18	22	-86.77	-681	-155	761	722	38.93	19.542	
4600	4541	4869	4373	18	22	-83.53	-661	-175	770	731	38.82	19.828	
4650	4580	4901	4373	18	22	-80.26	-637	-198	780	741	38.69	20.155	
4700	4615	4937	4374	18	22	-77.05	-611	-223	790	752	38.62	20.464	
4750	4646	4976	4374	18	23	-74.02	-583	-250	801	762	38.59	20.752	
4800	4674	5018	4374	18	23	-71.25	-554	-279	811	772	38.67	20.971	
4850	4698	5062	4375	18	23	-68.81	-522	-309	820	781	38.88	21.089	
4900	4718	5108	4375	18	23	-66.78	-489	-342	828	789	39.22	21.105	
4950	4734	5155	4375	19	24	-65.19	-455	-375	834	794	39.74	20.983	
5000	4745	5204	4376	19	24	-64.07	-420	-409	838	798	40.40	20.745	
5010	4747	5214	4376	19	25	-63.90	-413	-415	839	798	40.56	20.677	
5050	4752	5254	4376	19	25	-63.43	-384	-443	840	799	41.25	20.370	
5086	4754	5289	4376	20	26	-63.27	-359	-468	840	799	41.94	20.041	
5095	4754	5299	4376	20	26	-63.28	-352	-475	840	798	42.13	19.945	
5099	4754	5303	4376	20	26	-63.27	-349	-477	840	798	42.21	19.906	
5100	4754	5303	4376	20	26	-63.27	-348	-478	840	798	42.23	19.896	
5180	4755	5383	4377	21	27	-63.22	-291	-534	839	795	44.08	19.029	
5200	4755	5403	4377	21	27	-63.21	-277	-547	838	794	44.55	18.819	
5280	4755	5483	4378	22	29	-63.16	-219	-603	837	790	46.65	17.939	
5300	4756	5503	4378	22	29	-63.15	-205	-617	837	789	47.19	17.728	
5380	4756	5583	4379	23	30	-63.10	-147	-673	835	785	49.50	16.868	
5400	4756	5603	4379	24	31	-63.09	-133	-687	835	785	50.09	16.662	
5480	4757	5683	4379	25	32	-63.04	-76	-742	833	781	52.59	15.843	
5500	4757	5703	4379	25	33	-63.02	-61	-756	833	780	53.22	15.648	
5580	4758	5783	4380	27	34	-62.97	-4	-812	831	775	55.86	14.881	
5600	4758	5803	4380	27	35	-62.96	10	-826	831	774	56.53	14.699	
5680	4758	5883	4381	28	36	-62.91	68	-882	829	770	59.29	13.989	
5700	4758	5903	4381	29	37	-62.90	82	-895	829	769	59.99	13.820	
5780	4759	5983	4382	30	38	-62.85	140	-951	828	765	62.85	13.167	
5800	4759	6003	4382	31	39	-62.83	154	-965	827	764	63.57	13.012	
5880	4760	6083	4382	32	40	-62.78	211	-1021	826	759	66.51	12.413	
5900	4760	6103	4382	33	41	-62.77	226	-1035	825	758	67.25	12.271	
5980	4760	6183	4383	34	43	-62.72	283	-1090	824	754	70.27	11.724	
6000	4761	6203	4383	35	43	-62.71	298	-1104	823	752	71.02	11.594	
6080	4761	6283	4384	37	45	-62.66	355	-1160	822	748	74.09	11.093	
6100	4761	6303	4384	37	45	-62.64	369	-1174	822	747	74.86	10.974	
6180	4762	6383	4385	39	47	-62.59	427	-1229	820	742	77.98	10.516	
6200	4762	6403	4385	39	47	-62.58	441	-1243	820	741	78.76	10.407	
6280	4763	6483	4385	41	49	-62.53	498	-1299	818	736	81.92	9.988	
6300	4763	6503	4385	41	50	-62.51	513	-1313	818	735	82.71	9.888	
6380	4763	6583	4386	43	51	-62.46	570	-1369	816	730	85.90	9.503	
6400	4763	6603	4386	44	52	-62.45	585	-1383	816	729	86.70	9.411	
6480	4764	6683	4387	46	54	-62.40	642	-1438	814	725	89.92	9.058	
6500	4764	6703	4387	46	54	-62.38	656	-1452	814	723	90.73	8.973	
6580	4765	6783	4388	48	56	-62.33	714	-1508	813	719	93.97	8.648	
6600	4765	6803	4388	48	56	-62.32	728	-1522	812	717	94.78	8.570	
6680	4765	6883	4388	50	58	-62.26	786	-1577	811	713	98.05	8.269	
6700	4766	6903	4388	51	59	-62.25	800	-1591	810	712	98.87	8.197	
6780	4766	6983	4389	52	61	-62.20	857	-1647	809	707	102.15	7.919	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #125H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft	
Survey Program:		0-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0 ft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance						
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	Centres	Ellipses	Separation	Factor		Warning	
6800	4766	7003	4389	53	61	-62.19	872	-1661	809	706	102.97	7.852			
6880	4767	7083	4390	55	63	-62.13	929	-1717	807	701	106.26	7.595			
6900	4767	7103	4390	55	63	-62.12	943	-1731	807	700	107.09	7.533			
6980	4768	7183	4391	57	65	-62.07	1001	-1786	805	695	110.40	7.294			
7000	4768	7203	4391	58	66	-62.05	1015	-1800	805	694	111.23	7.236			
7080	4768	7283	4391	59	68	-62.00	1073	-1856	803	689	114.55	7.013			
7100	4768	7303	4391	60	68	-61.98	1087	-1870	803	688	115.38	6.959			
7180	4769	7383	4392	62	70	-61.93	1144	-1925	801	683	118.71	6.752			
7200	4769	7403	4392	62	70	-61.92	1159	-1939	801	682	119.54	6.701			
7280	4770	7483	4393	64	72	-61.86	1216	-1995	800	677	122.88	6.508			
7300	4770	7503	4393	65	73	-61.85	1231	-2009	799	676	123.72	6.460			
7380	4770	7583	4394	67	75	-61.79	1288	-2065	798	671	127.06	6.279			
7400	4771	7603	4394	67	75	-61.78	1302	-2079	797	670	127.90	6.235			
7480	4771	7683	4394	69	77	-61.73	1360	-2134	796	665	131.24	6.065			
7500	4771	7703	4394	69	78	-61.71	1374	-2148	796	663	132.08	6.023			
7580	4772	7783	4395	71	79	-61.66	1431	-2204	794	659	135.44	5.863			
7600	4772	7803	4395	72	80	-61.64	1446	-2218	794	657	136.28	5.824			
7680	4773	7883	4396	74	82	-61.59	1503	-2273	792	653	139.63	5.674			
7700	4773	7903	4396	74	82	-61.57	1518	-2287	792	651	140.47	5.637			
7780	4773	7983	4397	76	84	-61.52	1575	-2343	790	647	143.83	5.495			
7800	4773	8003	4397	77	85	-61.50	1589	-2357	790	645	144.68	5.461			
7880	4774	8083	4397	79	87	-61.45	1647	-2413	789	641	148.04	5.327			
7900	4774	8103	4398	79	87	-61.44	1661	-2427	788	639	148.88	5.294			
7980	4775	8183	4398	81	89	-61.38	1719	-2482	787	634	152.24	5.168			
8000	4775	8203	4398	82	89	-61.37	1733	-2496	786	633	153.09	5.137			
8080	4775	8283	4399	83	91	-61.31	1790	-2552	785	628	156.45	5.017			
8100	4776	8303	4399	84	92	-61.29	1805	-2566	784	627	157.29	4.987			
8180	4776	8383	4400	86	94	-61.24	1862	-2621	783	622	160.65	4.874			
8200	4776	8403	4400	86	94	-61.22	1876	-2635	783	621	161.50	4.846			
8280	4777	8483	4400	88	96	-61.17	1934	-2691	781	616	164.86	4.738			
8300	4777	8503	4401	89	97	-61.15	1948	-2705	781	615	165.71	4.712			
8380	4778	8583	4401	91	99	-61.10	2006	-2761	779	610	169.07	4.610			
8400	4778	8603	4401	91	99	-61.08	2020	-2775	779	609	169.91	4.584			
8480	4778	8683	4402	93	101	-61.02	2077	-2830	778	604	173.28	4.487			
8500	4778	8703	4402	94	102	-61.01	2092	-2844	777	603	174.12	4.463			
8580	4779	8783	4403	96	103	-60.95	2149	-2900	776	598	177.48	4.370			
8600	4779	8803	4403	96	104	-60.94	2164	-2914	775	597	178.33	4.348			
8680	4780	8883	4403	98	106	-60.88	2221	-2969	774	592	181.68	4.259			
8700	4780	8903	4404	99	106	-60.87	2235	-2983	773	591	182.53	4.237			
8780	4780	8983	4404	101	108	-60.81	2293	-3039	772	586	185.89	4.153			
8800	4781	9003	4404	101	109	-60.79	2307	-3053	772	585	186.73	4.132			
8880	4781	9083	4405	103	111	-60.73	2364	-3109	770	580	190.09	4.052			
8900	4781	9103	4405	103	111	-60.72	2379	-3123	770	579	190.93	4.032			
8980	4782	9183	4406	105	113	-60.66	2436	-3178	768	574	194.28	3.955			
9000	4782	9203	4406	106	114	-60.65	2451	-3192	768	573	195.13	3.936			
9080	4783	9283	4406	108	116	-60.59	2508	-3248	767	568	198.48	3.862			
9100	4783	9303	4407	108	116	-60.57	2522	-3262	766	567	199.32	3.844			
9180	4783	9382	4407	110	118	-60.51	2580	-3317	765	562	202.67	3.773			
9200	4783	9403	4407	111	119	-60.50	2594	-3331	764	561	203.51	3.756			
9280	4784	9482	4408	113	120	-60.44	2651	-3387	763	556	206.85	3.688			
9300	4784	9497	4408	113	121	-60.43	2662	-3397	763	555	207.62	3.673			

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #125H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation		
Depth	Depth	Depth	Depth	(ft)	(ft)	(°)	(ft)	(ft)	Centres	Ellipses	Factor		
(ft)	(ft)	(ft)	(ft)						(ft)	(ft)	(ft)		
9318	4784	9497	4408	114	121	-60.43	2662	-3397	763	554	208.07	3.665 SF	
9400	4785	9497	4408	116	121	-60.43	2662	-3397	768	559	208.71	3.680	
9500	4786	9497	4408	118	121	-60.43	2662	-3397	786	580	206.47	3.808	
9600	4786	9497	4408	121	121	-60.43	2662	-3397	816	615	201.44	4.053	
9700	4787	9497	4408	123	121	-60.43	2662	-3397	857	663	194.41	4.409	
9800	4788	9497	4408	126	121	-60.43	2662	-3397	907	721	186.18	4.873	
9900	4789	9497	4408	128	121	-60.43	2662	-3397	965	788	177.45	5.439	
10,000	4789	9497	4408	130	121	-60.43	2662	-3397	1029	861	168.70	6.102	
10,100	4790	9497	4408	133	121	-60.43	2662	-3397	1099	939	160.26	6.858	
10,200	4791	9497	4408	135	121	-60.43	2662	-3397	1173	1021	152.32	7.703	
10,300	4791	9497	4408	138	121	-60.43	2662	-3397	1251	1106	144.94	8.631	
10,400	4792	9497	4408	140	121	-60.43	2662	-3397	1332	1193	138.17	9.638	
10,500	4793	9497	4408	143	121	-60.43	2662	-3397	1415	1283	131.98	10.720	
10,600	4794	9497	4408	145	121	-60.43	2662	-3397	1500	1374	126.34	11.873	
10,700	4794	9497	4408	148	121	-60.43	2662	-3397	1587	1466	121.21	13.092	
10,800	4795	9497	4408	150	121	-60.43	2662	-3397	1675	1559	116.55	14.375	
10,900	4796	9497	4408	153	121	-60.43	2662	-3397	1765	1653	112.30	15.716	
11,000	4796	9497	4408	155	121	-60.43	2662	-3397	1856	1747	108.43	17.113	
11,100	4797	9497	4408	158	121	-60.43	2662	-3397	1947	1842	104.90	18.563	
11,200	4798	9497	4408	160	121	-60.43	2662	-3397	2040	1938	101.67	20.061	
11,300	4799	9497	4408	163	121	-60.43	2662	-3397	2133	2034	98.71	21.606	
11,366	4799	9497	4408	164	121	-60.43	2662	-3397	2194	2097	96.90	22.643	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #126H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Vertical	Offset	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Depth (ft)	Measured Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
0	0	0	0	0	0	163.77	-38	11	40					
100	100	100	100	0	0	163.77	-38	11	40	39	0.46	86.004		
200	200	200	200	1	1	163.77	-38	11	40	39	1.18	33.722		
300	300	300	300	1	1	163.77	-38	11	40	38	1.90	20.973		
400	400	400	400	1	1	163.77	-38	11	40	37	2.61	15.219		
425	425	425	425	1	1	163.77	-38	11	40	37	2.79	14.242 CC		
500	500	499	499	2	2	47.16	-39	11	40	37	3.30	12.121 ES		
600	600	597	597	2	2	51.97	-43	12	42	38	3.97	10.454		
700	700	696	695	2	2	59.67	-51	13	45	40	4.66	9.633		
800	799	794	793	3	3	68.71	-61	15	51	45	5.36	9.481 SF		
819	818	812	811	3	3	70.45	-64	16	52	47	5.50	9.517		
900	898	891	889	3	3	76.57	-75	18	60	54	6.10	9.900		
1000	997	988	985	4	3	80.95	-92	21	74	67	6.86	10.741		
1100	1096	1085	1079	4	4	82.92	-113	25	90	82	7.65	11.771		
1200	1195	1184	1176	4	4	84.08	-134	29	107	99	8.47	12.640		
1300	1294	1282	1272	5	5	84.92	-155	33	124	115	9.30	13.338		
1400	1393	1381	1368	5	5	85.56	-176	36	141	131	10.14	13.910		
1500	1492	1479	1464	6	6	86.07	-197	40	158	147	10.99	14.387		
1600	1591	1578	1560	6	6	86.47	-218	44	175	163	11.85	14.788		
1700	1690	1676	1656	7	7	86.80	-239	48	192	180	12.71	15.130		
1800	1789	1775	1753	7	7	87.08	-260	52	209	196	13.57	15.424		
1900	1889	1873	1849	7	8	87.32	-281	56	226	212	14.44	15.680		
2000	1988	1972	1945	8	8	87.52	-302	60	243	228	15.31	15.905		
2100	2087	2071	2041	8	9	87.70	-323	64	261	244	16.18	16.103		
2200	2186	2169	2137	9	10	87.85	-344	68	278	261	17.06	16.280		
2300	2285	2268	2233	9	10	87.99	-365	71	295	277	17.93	16.437		
2400	2384	2366	2330	10	11	88.11	-387	75	312	293	18.81	16.579		
2500	2483	2465	2426	10	11	88.22	-408	79	329	309	19.69	16.708		
2600	2582	2563	2522	11	12	88.32	-429	83	346	325	20.57	16.824		
2700	2681	2662	2618	11	12	88.41	-450	87	363	342	21.45	16.930		
2800	2780	2760	2714	11	13	88.49	-471	91	380	358	22.33	17.028		
2900	2879	2859	2810	12	13	88.56	-492	95	397	374	23.21	17.117		
3000	2978	2957	2907	12	14	88.63	-513	99	414	390	24.09	17.200		
3100	3077	3056	3003	13	14	88.69	-534	103	431	407	24.98	17.276		
3200	3176	3154	3099	13	15	88.75	-555	106	449	423	25.86	17.346		
3300	3275	3253	3195	14	15	88.81	-576	110	466	439	26.75	17.412		
3400	3374	3351	3291	14	16	88.86	-597	114	483	455	27.63	17.473		
3500	3473	3450	3387	15	16	88.90	-618	118	500	471	28.51	17.531		
3600	3572	3548	3484	15	17	88.95	-640	122	517	488	29.40	17.584		
3700	3672	3647	3580	15	18	88.99	-661	126	534	504	30.29	17.634		
3800	3771	3745	3676	16	18	89.02	-682	130	551	520	31.17	17.682		
3900	3870	3844	3772	16	19	89.06	-703	134	568	536	32.06	17.726		
4000	3969	3943	3868	17	19	89.09	-724	137	585	552	32.95	17.768		
4100	4068	4031	3954	17	20	89.03	-743	142	603	569	33.74	17.867		
4170	4137	4083	4004	17	20	88.55	-758	148	617	583	34.18	18.052		
4200	4167	4100	4020	18	20	99.50	-764	150	624	590	34.28	18.198		
4250	4217	4138	4054	18	20	-177.97	-777	158	637	603	34.50	18.474		
4300	4267	4168	4081	18	21	-128.11	-789	165	653	619	34.53	18.924		
4350	4316	4200	4109	18	21	-118.45	-803	174	673	638	34.51	19.489		
4400	4365	4218	4123	18	21	-113.52	-811	179	694	660	34.23	20.290		
4450	4412	4236	4139	18	21	-110.02	-819	185	719	685	33.91	21.210		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #126H - Original Drilling - APD Rev 1													Offset Site Error:		0 ft	
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:		0 ft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
4500	4457	4250	4150	18	21	-106.54	-826	190	747	714	33.52	22.289				
4550	4501	4262	4159	18	22	-102.81	-832	194	777	744	33.10	23.486				
4600	4541	4269	4165	18	22	-98.48	-836	197	810	777	32.65	24.805				
4650	4580	4274	4169	18	22	-93.54	-838	199	844	812	32.21	26.210				
4700	4615	4276	4170	18	22	-88.03	-839	200	880	848	31.81	27.672				
4750	4646	4276	4170	18	22	-82.08	-839	200	917	886	31.46	29.159				
4800	4674	4274	4168	18	22	-75.89	-838	199	955	924	31.16	30.640				
4850	4698	4270	4165	18	22	-69.70	-836	197	993	962	30.94	32.085				
4900	4718	4250	4150	18	21	-62.69	-826	190	1031	1000	30.55	33.730				
4950	4734	4250	4150	19	21	-57.72	-826	190	1068	1037	30.59	34.906				
5000	4745	4250	4150	19	21	-53.23	-826	190	1104	1073	30.69	35.968				
5050	4752	4250	4150	19	21	-49.23	-826	190	1139	1109	30.87	36.913				
5095	4754	4231	4135	20	21	-45.20	-817	184	1170	1139	30.81	37.975				
5100	4754	4230	4134	20	21	-45.16	-816	183	1173	1142	30.82	38.068				
5200	4755	4200	4109	21	21	-43.86	-803	174	1242	1211	30.99	40.079				
5300	4756	4200	4109	22	21	-43.86	-803	174	1314	1282	31.58	41.612				
5400	4756	4177	4089	24	21	-42.89	-793	167	1389	1357	31.89	43.545				
5500	4757	4150	4065	25	21	-41.72	-782	161	1466	1434	32.16	45.596				
5600	4758	4150	4065	27	21	-41.72	-782	161	1546	1513	32.68	47.294				
5700	4758	4150	4065	29	21	-41.72	-782	161	1627	1594	33.16	49.075				
5800	4759	4128	4045	31	20	-40.78	-773	156	1710	1677	33.42	51.180				
5900	4760	4100	4020	33	20	-39.62	-764	150	1795	1762	33.62	53.410				
6000	4761	4100	4020	35	20	-39.62	-764	150	1881	1847	34.00	55.325				
6100	4761	4100	4020	37	20	-39.62	-764	150	1968	1934	34.35	57.297				
6200	4762	4100	4020	39	20	-39.62	-764	150	2056	2022	34.67	59.316				
6300	4763	4100	4020	41	20	-39.62	-764	150	2146	2111	34.96	61.378				
6400	4763	4079	4000	44	20	-38.76	-757	147	2235	2200	35.10	63.679				
6500	4764	4073	3994	46	20	-38.51	-755	146	2326	2291	35.32	65.859				
6600	4765	4050	3973	48	20	-37.60	-748	143	2418	2382	35.43	68.245				
6700	4766	4050	3973	51	20	-37.60	-748	143	2509	2474	35.64	70.402				
6800	4766	4050	3973	53	20	-37.60	-748	143	2602	2566	35.84	72.583				
6900	4767	4050	3973	55	20	-37.60	-748	143	2695	2659	36.03	74.786				
7000	4768	4050	3973	58	20	-37.60	-748	143	2788	2752	36.20	77.007				
7100	4768	4050	3973	60	20	-37.60	-748	143	2882	2845	36.37	79.244				
7200	4769	4050	3973	62	20	-37.60	-748	143	2976	2940	36.52	81.495				
7300	4770	4050	3973	65	20	-37.60	-748	143	3071	3034	36.66	83.758				
7400	4771	4050	3973	67	20	-37.60	-748	143	3166	3129	36.80	86.032				
7500	4771	4028	3952	69	20	-36.74	-743	141	3260	3224	36.84	88.513				
7600	4772	4025	3949	72	20	-36.62	-742	141	3356	3319	36.94	90.831				
7700	4773	4022	3946	74	20	-36.50	-741	141	3451	3414	37.05	93.155				
7800	4773	4000	3924	77	20	-35.65	-736	140	3548	3510	37.07	95.689				
7900	4774	4000	3924	79	20	-35.65	-736	140	3643	3606	37.18	97.991				
8000	4775	4000	3924	82	20	-35.65	-736	140	3740	3702	37.29	100.297				
8100	4776	4000	3924	84	20	-35.65	-736	140	3836	3799	37.38	102.608				
8200	4776	4000	3924	86	20	-35.65	-736	140	3932	3895	37.48	104.922				
8300	4777	4000	3924	89	20	-35.65	-736	140	4029	3992	37.57	107.238				
8400	4778	4000	3924	91	20	-35.65	-736	140	4126	4088	37.66	109.556				
8500	4778	4000	3924	94	20	-35.65	-736	140	4223	4185	37.75	111.874				
8600	4779	4000	3924	96	20	-35.65	-736	140	4320	4282	37.83	114.194				
8700	4780	3995	3920	99	19	-35.47	-735	140	4417	4380	37.90	116.565				
8800	4781	3978	3903	101	19	-34.83	-731	139	4515	4477	37.92	119.067				

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: I06 2309 - Ponderosa I06 2309 Fed Com #126H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (ft)		Minimum Separation (ft)	Separation Factor	Warning
+N/-S (ft)	+E/-W (ft)												
8900	4781	3961	3886	103	19	-34.21	-728	138	4612	4574	37.94	121.568	
9000	4782	3944	3869	106	19	-33.60	-724	138	4710	4672	37.96	124.070	
9100	4783	3926	3853	108	19	-33.01	-720	137	4807	4769	37.98	126.570	
9200	4783	3909	3836	111	19	-32.43	-717	136	4905	4867	38.00	129.070	
9300	4784	3892	3819	113	19	-31.87	-713	136	5002	4964	38.02	131.568	
9400	4785	3875	3802	116	19	-31.32	-709	135	5100	5062	38.04	134.065	
9500	4786	3858	3786	118	19	-30.78	-706	134	5197	5159	38.06	136.560	
9600	4786	3841	3769	121	19	-30.25	-702	133	5295	5257	38.08	139.052	
9700	4787	3824	3752	123	19	-29.74	-698	133	5393	5355	38.10	141.543	
9800	4788	3806	3735	126	18	-29.24	-695	132	5490	5452	38.12	144.030	
9900	4789	3789	3719	128	18	-28.75	-691	131	5588	5550	38.14	146.514	
10,000	4789	3772	3702	130	18	-28.27	-687	131	5686	5648	38.16	148.995	
10,100	4790	3755	3685	133	18	-27.80	-684	130	5784	5746	38.18	151.473	
10,200	4791	3738	3668	135	18	-27.35	-680	129	5882	5843	38.21	153.947	
10,300	4791	3721	3652	138	18	-26.90	-676	129	5979	5941	38.23	156.416	
10,400	4792	3704	3635	140	18	-26.46	-673	128	6077	6039	38.25	158.882	
10,500	4793	3686	3618	143	18	-26.04	-669	127	6175	6137	38.27	161.343	
10,600	4794	3669	3602	145	18	-25.62	-665	127	6273	6235	38.30	163.799	
10,700	4794	3652	3585	148	18	-25.21	-662	126	6371	6333	38.32	166.250	
10,800	4795	3635	3568	150	18	-24.81	-658	125	6469	6431	38.35	168.696	
10,900	4796	3618	3551	153	17	-24.42	-654	125	6567	6529	38.37	171.136	
11,000	4796	3601	3535	155	17	-24.04	-651	124	6665	6626	38.40	173.571	
11,100	4797	3583	3518	158	17	-23.66	-647	123	6763	6724	38.43	176.001	
11,200	4798	3566	3501	160	17	-23.30	-643	123	6861	6822	38.45	178.424	
11,300	4799	3549	3484	163	17	-22.94	-640	122	6959	6920	38.48	180.841	
11,366	4799	3538	3473	164	17	-22.71	-637	122	7023	6985	38.50	182.423	

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



Lonestar Consulting, LLC

Anticollision Report

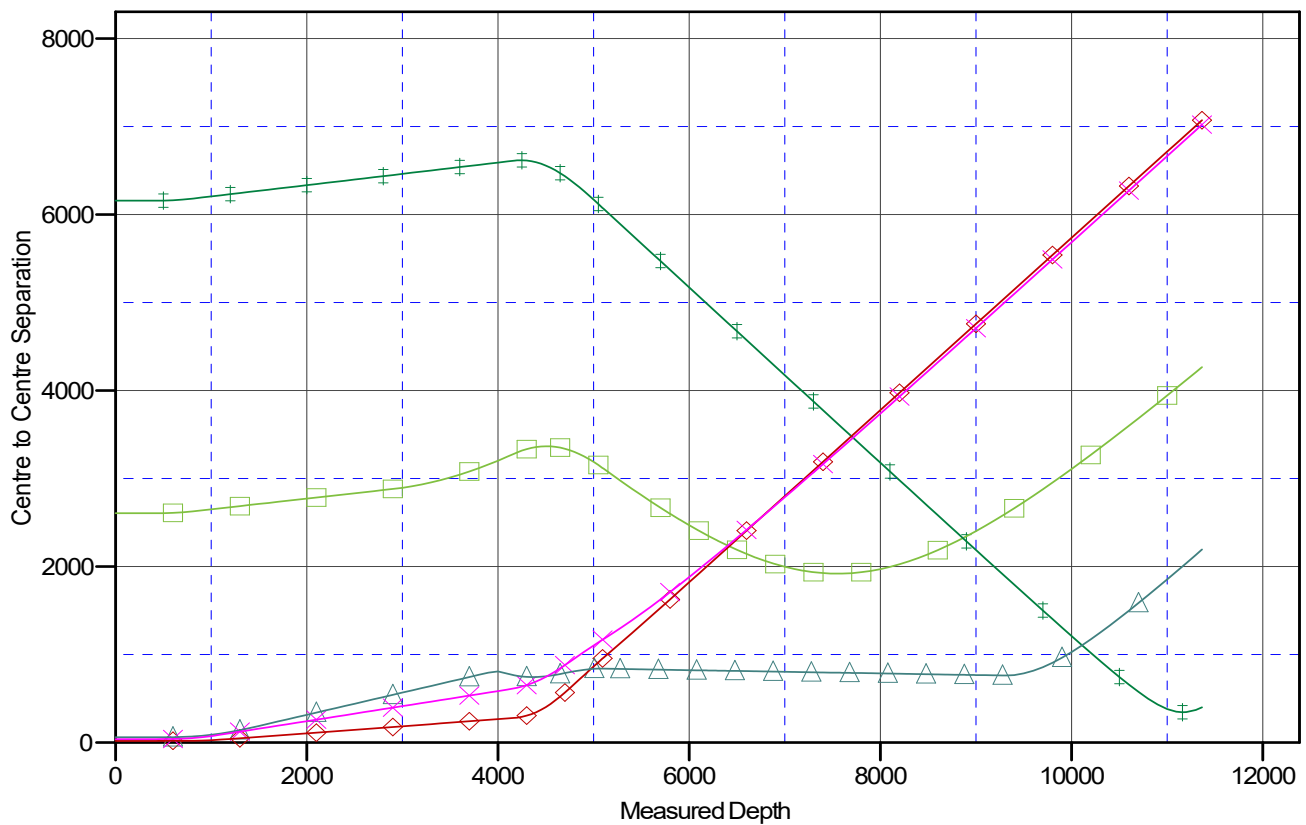


Company:	DJR Operating	Local Co-ordinate Reference:	Well Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6692' & RKB 14' @ 6706ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: Ponderosa I06 2309 Fed Com #128H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.01°

Ladder Plot



LEGEND

Big Yazee 1, OH/OHVD
 January Jamboree 1, OH/OHVD

Ponderosa I06 2309 Fed Com #127H Original Drilling APD Rev1 V0
 Ponderosa I06 2309 Fed Com #125H Original Drilling APD Rev1 V0

Ponderosa I06 2309 Fed Com #128H Original Drilling APD Rev1 V0

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 Ponderosa I06 2309 Fed Com #128H - Slot 4
Project:	Ponderosa Unit	TVD Reference:	GL 6692' & RKB 14' @ 6706ft
Reference Site:	I06 2309	MD Reference:	GL 6692' & RKB 14' @ 6706ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Ponderosa I06 2309 Fed Com #128H	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 Rev 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6692' & RKB 14' @ 6706ft

Offset Depths are relative to Offset Datum

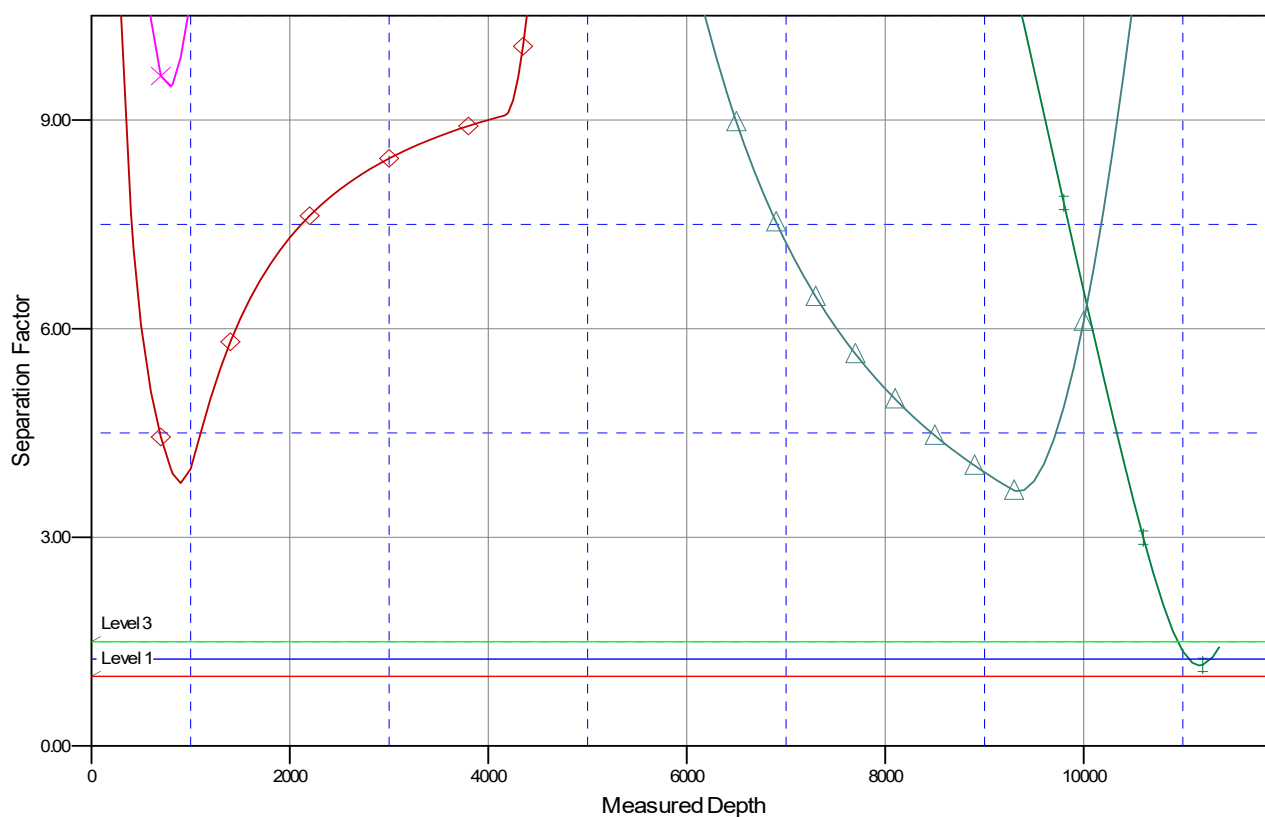
Central Meridian is -107.83333333

Coordinates are relative to: Ponderosa I06 2309 Fed Com #128H - Slot 4

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

Grid Convergence at Surface is: 0.01°

Separation Factor Plot



LEGEND

 Big Yazle 1, OH/OHVO
January, Ambrose 1, OH/OHVO

 Ponderosa I06 2309 Fed Com #128H Original Drilling, APD Rev 1 V0
 Ponderosa I06 2309 Fed Com #128H Original Drilling, APD Rev 1 V0

Ponderosa I06 2309 Fed Com #128H Original Drilling, APD Rev 1 V0



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
#128H PONDEROSA I06 2309 FEDERAL COM
Lease: NMNM137056 Agreement: TBD
SH: NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 6, T. 24N., R. 9W.
San Juan County, New Mexico
BH: Lot 3 Section 31, T. 24N., 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 380950

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID:
	371838
	Action Number:
	380950
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

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