

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-043-21533	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 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)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/25/2025

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 954 FSL / 386 FWL / TWSP: 23N / RANGE: 7W / SECTION: 24 / LAT: 36.206872 / LONG: -107.534607 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 346 FNL / 965 FWL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.203274 / LONG: -107.532577 (TVD: 5543 feet, MD: 5904 feet)
PPP: SWNE / 2007 FNL / 2606 FEL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.198643 / LONG: -107.526901 (TVD: 5545 feet, MD: 11621 feet)
PPP: NWSE / 2579 FSL / 2038 FEL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.197042 / LONG: -107.52494 (TVD: 5545 feet, MD: 11621 feet)
BHL: SESE / 845 FSL / 330 FEL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.192231 / LONG: -107.519045 (TVD: 5545 feet, MD: 11621 feet)

BLM Point of Contact

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

CONFIDENTIAL

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 30-043-21533	Pool Code 98174	Pool Name ALAMITO N; MANCOS (OIL)
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 201H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 7121'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
M	24	23N	7W		954' SOUTH	386' WEST	36.206872° N	107.534607° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	25	23N	7W		845' SOUTH	330' EAST	36.192231° N	107.519045° W	SANDOVAL

Dedicated Acres SEC 25: NW/NW, NE/NW, SE/NW, SW/NE, NW/SE, NE/SE, SE/SE = 280 ACRES	PENETRATED SPACING UNIT: INTELL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code UNITIZATION
Order Numbers: R-14081 R-14081A		Well Setbacks are under Common Ownership: ☒ Yes ☒ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	25	23N	7W		346' NORTH	965' WEST	36.203274° N	107.532577° W	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	25	23N	7W		346' NORTH	965' WEST	36.203274° N	107.532577° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	25	23N	7W		845' SOUTH	330' EAST	36.192231° N	107.519045° W	SANDOVAL

Unitized Area or Area of Uniform Interest NORTH ALAMITO	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford
Signature

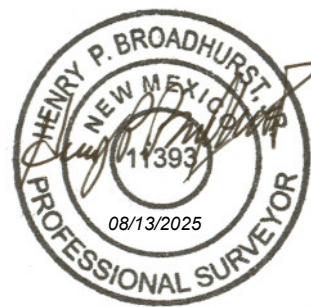
8/13/2025
Date

Shaw-Marie Ford
Printed Name

sford@enduringresources.com
E-mail Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor:

Certificate Number

11393

Date of Survey

APRIL 14, 2023

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.

FND 2 1/2" BC
 GLO 1948
 FND 1.5" AC
 2010

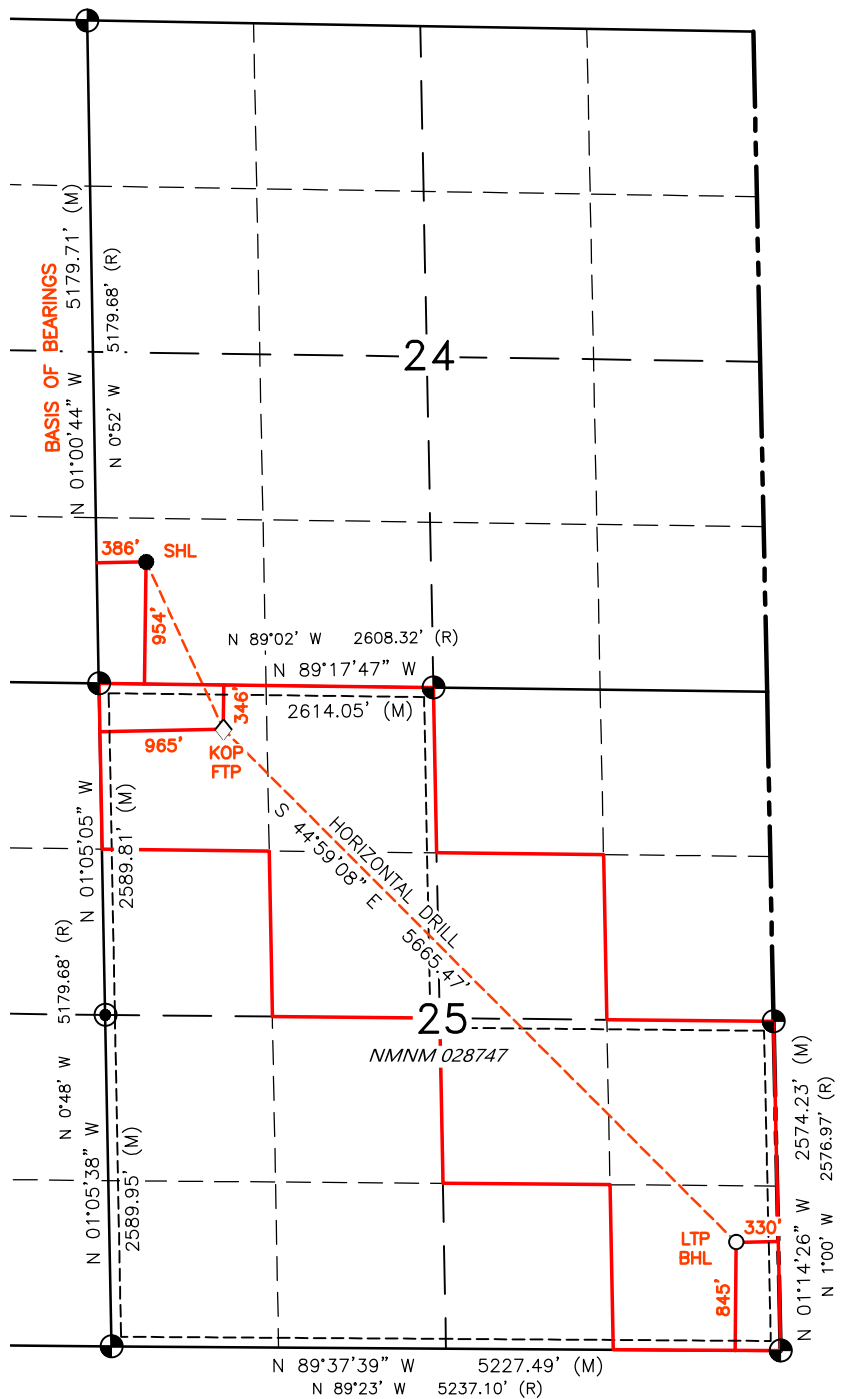
SURFACE LOCATION (SHL) ●
 954' FSL 386' FWL
 SEC. 24, T23N, R7W
 LAT. 36.206872° N (NAD83)
 LONG. 107.534607° W (NAD83)

KICK OFF POINT (KOP) ▲
 346' FNL 965' FWL
 SEC. 25, T23N, R7W
 LAT. 36.203274° N (NAD83)
 LONG. 107.532577° W (NAD83)

FIRST TAKE POINT (FTP) ◇
 346' FNL 965' FWL
 SEC. 25, T23N, R7W
 LAT. 36.203274° N (NAD83)
 LONG. 107.532577° W (NAD83)

LAST TAKE POINT (LTP) □
 845' FSL 330' FEL
 SEC. 25, T23N, R7W
 LAT. 36.192231° N (NAD83)
 LONG. 107.519045° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
 845' FSL 330' FEL
 SEC. 25, T23N, R7W
 LAT. 36.192231° N (NAD83)
 LONG. 107.519045° W (NAD83)



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil 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:** 08 / 14 / 2025

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
N. Alamito Unit 201H	TBD	M-24-23N-7W	954 FSL x 386 FWL	434	1278	173
N. Alamito Unit 203H	TBD	M-24-23N-7W	1013 FSL x 334 FWL	374	675	150
N. Alamito Unit 205H	TBD	M-24-23N-7W	984 FSL x 358 FWL	268	1331	107
N. Alamito Unit 540H	TBD	M-24-23N-7W	969 FSL x 373 FWL	459	540	184
N. Alamito Unit 550H	TBD	M-24-23N-7W	998 FSL x 347 FWL	417	945	167
				3-yr Decline	3-yr Decline	3-yr Decline
N. Alamito Unit 201H	TBD	M-24-23N-7W		98	392	39
N. Alamito Unit 203H	TBD	M-24-23N-7W		85	338	34
N. Alamito Unit 205H	TBD	M-24-23N-7W		61	242	24
N. Alamito Unit 540H	TBD	M-24-23N-7W		104	415	41
N. Alamito Unit 550H	TBD	M-24-23N-7W		94	377	38

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 Start Date	Initial Flow Back Date	First Production Date
N. Alamito Unit 201H	TBD	4/26/2026	5/6/2026	6/11/2026	6/21/2026	6/24/2026
N. Alamito Unit 203H	TBD	4/30/2026	5/10/2026	6/11/2026	6/21/2026	6/24/2026
N. Alamito Unit 205H	TBD	5/3/2026	5/13/2026	6/11/2026	6/21/2026	6/24/2026
N. Alamito Unit 540H	TBD	5/7/2026	5/17/2026	6/11/2026	6/21/2026	6/24/2026
N. Alamito Unit 550H	TBD	5/10/2026	5/20/2026	6/11/2026	6/21/2026	6/24/2026

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@djrlc.com
Date: 8/14/2025
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
N. Alamito Unit 201H 203H 205H 540H 550H

SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



DJR Operating LLC.
OGRID No: 371838
NATURAL GAS MANAGEMENT PLAN
N. Alamito Unit 201H 203H 205H 540H 550H

VENTING and FLARING

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

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

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

DJR will only flare gas during the following times:

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



DJR Operating LLC.
OGRID No: 371838
NATURAL GAS MANAGEMENT PLAN
N. Alamito Unit 201H 203H 205H 540H 550H

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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.



DJR Operating LLC.

OGRID No: 371838

NATURAL GAS MANAGEMENT PLAN

N. Alamito Unit 201H 203H 205H 540H 550H

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.



DJR Operating LLC.

OGRID No: 371838

NATURAL GAS MANAGEMENT PLAN

N. Alamito Unit 201H 203H 205H 540H 550H

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

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

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



DJR Operating LLC.
OGRID No: 371838
NATURAL GAS MANAGEMENT PLAN
N. Alamito Unit 201H 203H 205H 540H 550H

BEST MANAGEMENT PRACTICES

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

North Alamito Unit #201H

Sandoval County, New Mexico

Surface Location

386-ft FWL & 954-ft FSL
 Sec 24 T23N R7W
 Graded Elevation 7121' MSL
 RKB Elevation 7135' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2068720° N
 Longitude 107.5346070° W

Kick Off Point for Horizontal Build Curve

5193-ft MD
 5099-ft TVD

Local Coordinates (from SHL)

894-ft South
 251-ft East

Heel Location (Pay zone entry)

965-ft FWL & 346-ft FNL
 Sec 25 T23N R7W

Heel Geographical Coordinates (NAD-83)

Latitude 36.20327363° N
 Longitude 107.53257659° W

Bottom Hole Location (TD)

330-ft FEL & 845-ft FSL
 Sec 25 T23N R7W

BHL Geographical Coordinates (NAD-83)

Latitude 36.192231° N
 Longitude 107.5190450° W

Well objectives

This well is planned as a 5670-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 144°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	1346	1333	Sd	W	8.3	8.4 – 8.8
Kirtland	1524	1508	Sh	-	8.3	8.4 – 8.8
Fruitland	1733	1712	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1978	1952	Sd	W	8.3	9.0 - 9.5
Lewis	2093	2065	Sh	-		9.0 - 9.5
Chacra	2836	2792	Sd	-	8.3	9.0 - 9.5
Menefee	3533	3474	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4356	4280	Sd	-	8.3	9.0 - 9.5
Mancos	4504	4425	Sh	-		9.0 - 9.5
Mancos Silt	4881	4794	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5393	5284	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5436	5320	Sd	O/G	6.6	8.8 - 9.0
Gallup C	5582	5425	Sd	O/G	6.6	8.8 - 9.0
Target	5955	5545	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	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5904	surf	5543	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5665	11621	5471	5510	5665

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	4504-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	500	145
Volume (bbls)	208	39
Volume (cu.ft.)	1170	220
Excess %	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5665-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	515
Volume (cu.ft)	139
Excess %	782
	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 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 5904	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5904 – 11621	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

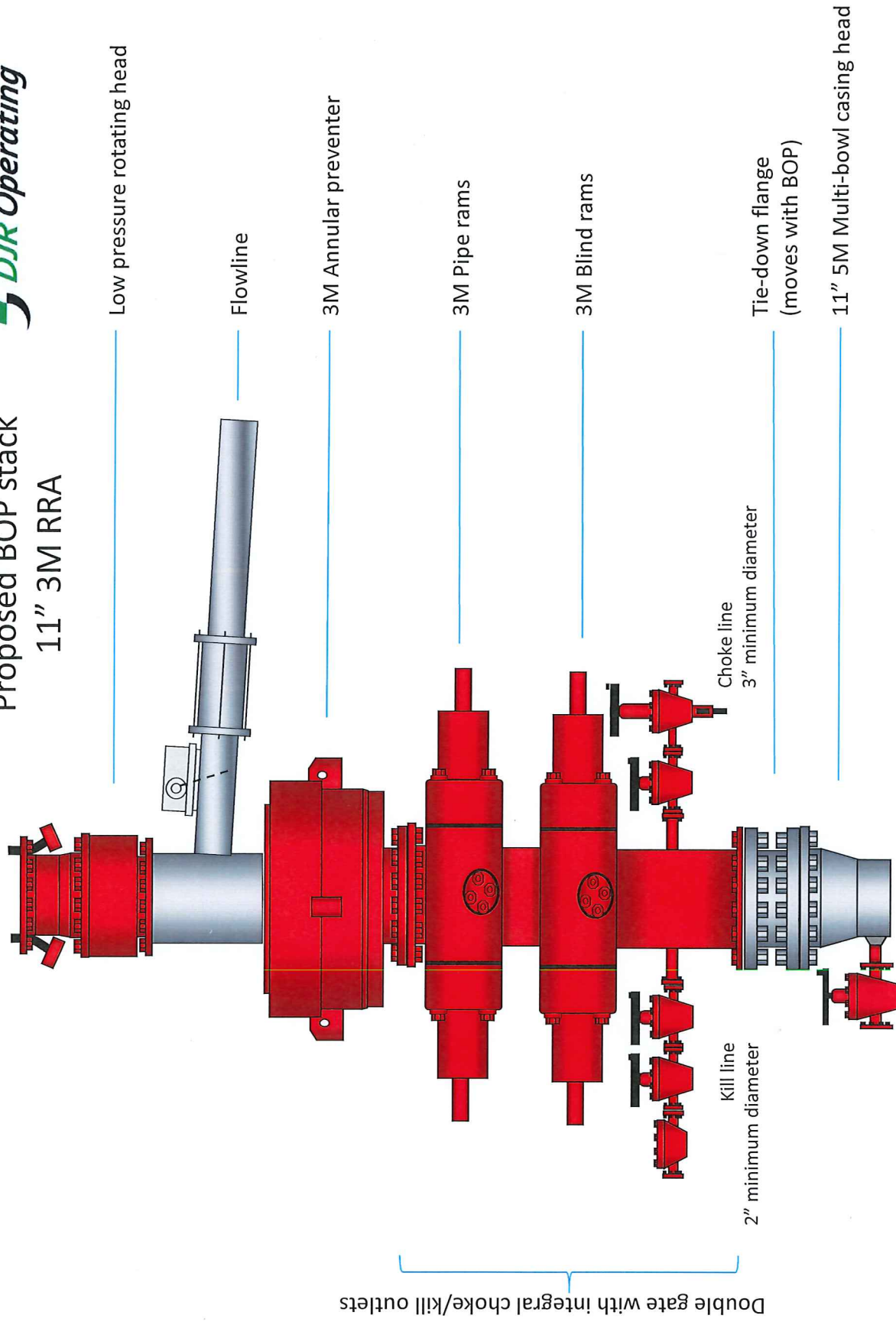
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



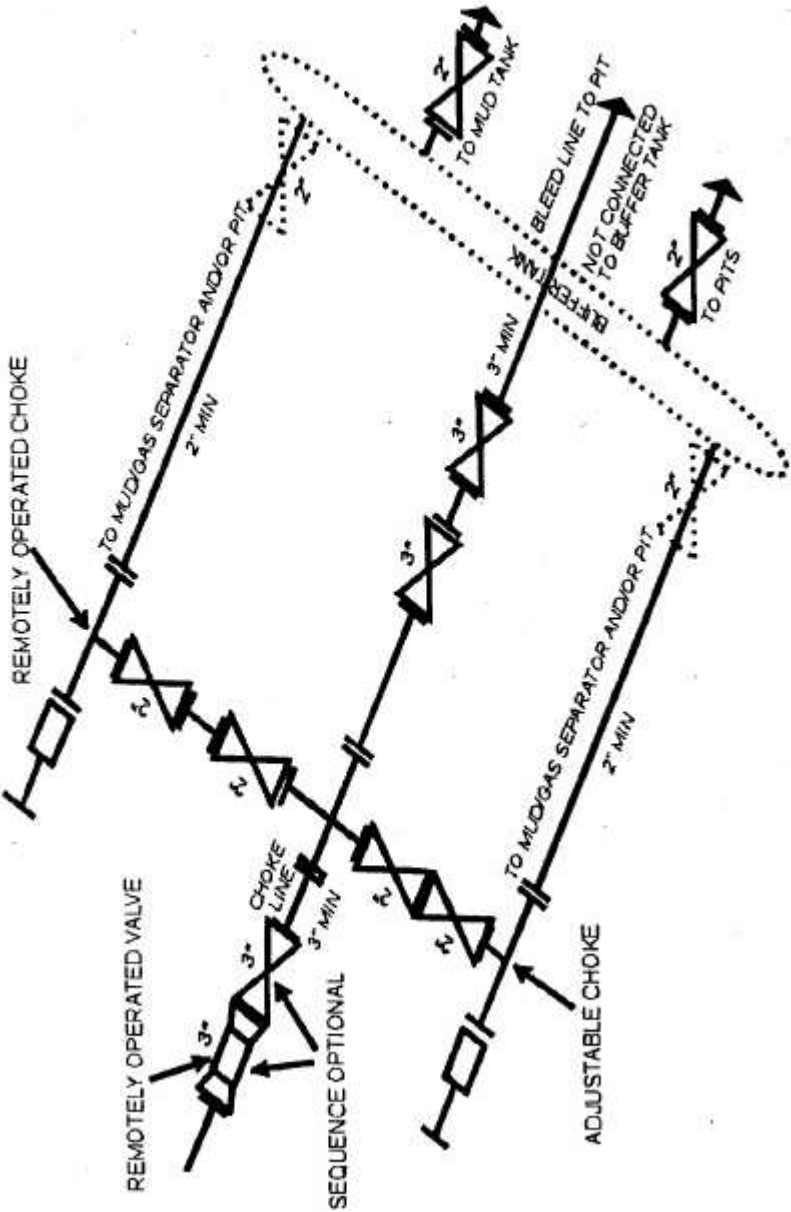
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: North Alamito Unit
Site: M24 2307 Pad
Well: # 201H
Wellbore: Original Drilling
Design: APD Rev 1

PROJECT DETAILS: North Alamito Unit

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



WELL DETAILS: # 201H

GL 7121' & RKB 14' @ 7135ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1894734.70	2811219.92	36.20687200	-107.53460700

Plan: APD Rev 1 (# 201H/Original Drilling)

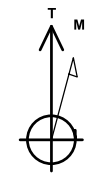
Created By: Janie Collins Date: 14:48, September 01 2023

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
201H Heel	5545	-1310	599	1893426.67	2811822.98	36.20327363	-107.53257659
201H Toe Rev1	5510	-5329	4592	1889419.57	2815828.20	36.19223100	-107.51904500

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
350	0.00	0.00	350	0	0	0.00	0.00	0
939	11.78	164.35	935	-58	16	2.00	164.35	55
5193	11.78	164.35	5099	-894	251	0.00	0.00	841
5955	90.35	135.19	5545	-1310	599	10.50	-29.64	1383
11621	90.35	135.19	5510	-5329	4592	0.00	0.00	7035



Azimuths to True North
Magnetic North: 10.5°

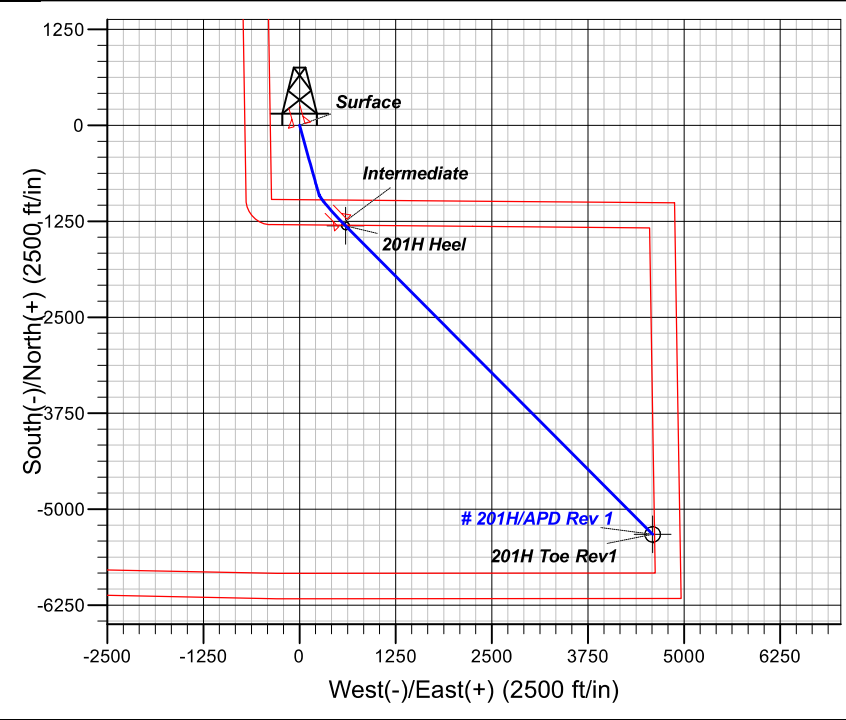
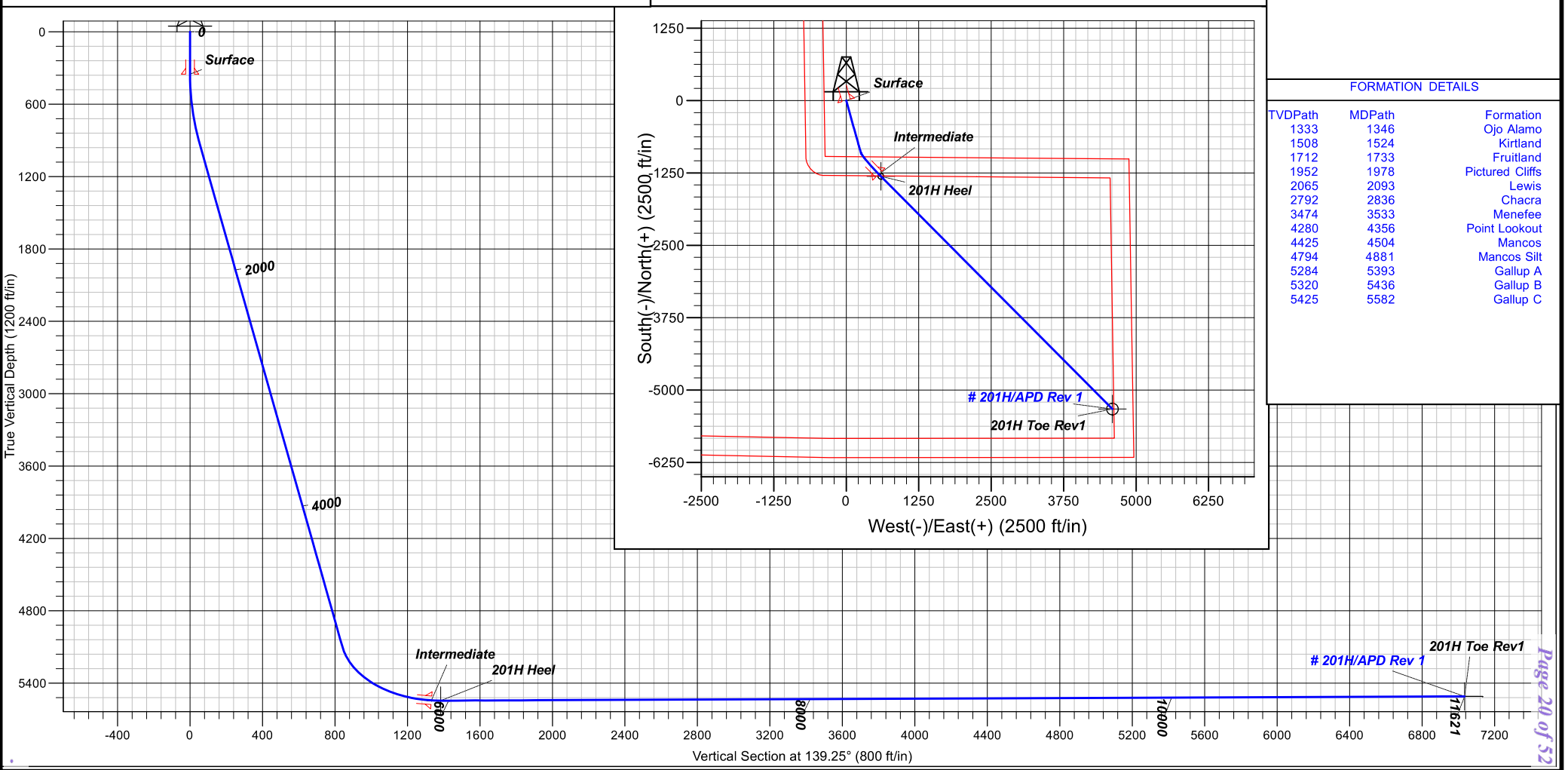
Magnetic Field
Strength: 51242.0 nT
Dip Angle: 63.2°
Date: 12/31/2004
Model: IGRF2000

CASING DETAILS

TVD	MD	Name
350	350	Surface
5543	5904	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1333	1346	Ojo Alamo
1508	1524	Kirtland
1712	1733	Fruitland
1952	1978	Pictured Cliffs
2065	2093	Lewis
2792	2836	Chacra
3474	3533	Menefee
4280	4356	Point Lookout
4425	4504	Mancos
4794	4881	Mancos Silt
5284	5393	Gallup A
5320	5436	Gallup B
5425	5582	Gallup C



Vertical Section at 139.25° (800 ft/in)

Released to Imaging: 9/8/2023 3:01:13 PM

Received by OCD: 9/8/2023 4:40:48 PM



DJR Operating

North Alamito Unit

M24 2307 Pad

201H - Slot 1

Original Drilling

Plan: APD Rev 1

Standard Planning Report

01 September, 2023





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 201H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Project:	North Alamito Unit	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site:	M24 2307 Pad	North Reference:	True
Well:	# 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Project	North Alamito 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		M24 2307 Pad				
Site Position:		Northing:	1,894,734.70	usft	Latitude:	36.20687200
From:	Lat/Long	Easting:	2,811,219.92	usft	Longitude:	-107.53460700
Position Uncertainty:		0	ft	Slot Radius:	13.20	in

Well	# 201H - Slot 1					
Well Position	+N/-S	0 ft	Northing:	1,894,734.70 usft	Latitude:	36.20687200
	+E/-W	0 ft	Easting:	2,811,219.92 usft	Longitude:	-107.53460700
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	7121 ft
Grid Convergence:		0.18 °				

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	10.76	63.26	51,242.28892929

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	139.25

Plan Survey Tool Program	Date	9/1/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	11,621	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	
350	0.00	0.00	350	0	0	0.00	0.00	0.00	0.00	
939	11.78	164.35	935	-58	16	2.00	2.00	0.00	164.35	
5193	11.78	164.35	5099	-894	251	0.00	0.00	0.00	0.00	
5955	90.35	135.19	5545	-1310	599	10.50	10.30	-3.82	-29.64	201H Heel
11,621	90.35	135.19	5510	-5329	4592	0.00	0.00	0.00	0.00	201H Toe Rev1



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 201H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Project:	North Alamito Unit	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site:	M24 2307 Pad	North Reference:	True
Well:	# 201H	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
350	0.00	0.00	350	0	0	0	0.00	0.00	0.00
400	1.00	164.35	400	0	0	0	2.00	2.00	0.00
500	3.00	164.35	500	-4	1	4	2.00	2.00	0.00
600	5.00	164.35	600	-10	3	10	2.00	2.00	0.00
700	7.00	164.35	699	-21	6	19	2.00	2.00	0.00
800	9.00	164.35	798	-34	10	32	2.00	2.00	0.00
900	11.00	164.35	897	-51	14	48	2.00	2.00	0.00
939	11.78	164.35	935	-58	16	55	2.00	2.00	0.00
1000	11.78	164.35	995	-70	20	66	0.00	0.00	0.00
1100	11.78	164.35	1092	-90	25	84	0.00	0.00	0.00
1200	11.78	164.35	1190	-109	31	103	0.00	0.00	0.00
1300	11.78	164.35	1288	-129	36	121	0.00	0.00	0.00
1400	11.78	164.35	1386	-149	42	140	0.00	0.00	0.00
1500	11.78	164.35	1484	-168	47	158	0.00	0.00	0.00
1600	11.78	164.35	1582	-188	53	177	0.00	0.00	0.00
1700	11.78	164.35	1680	-208	58	195	0.00	0.00	0.00
1800	11.78	164.35	1778	-227	64	214	0.00	0.00	0.00
1900	11.78	164.35	1876	-247	69	232	0.00	0.00	0.00
2000	11.78	164.35	1974	-267	75	251	0.00	0.00	0.00
2100	11.78	164.35	2071	-286	80	269	0.00	0.00	0.00
2200	11.78	164.35	2169	-306	86	288	0.00	0.00	0.00
2300	11.78	164.35	2267	-326	91	306	0.00	0.00	0.00
2400	11.78	164.35	2365	-345	97	325	0.00	0.00	0.00
2500	11.78	164.35	2463	-365	102	343	0.00	0.00	0.00
2600	11.78	164.35	2561	-385	108	362	0.00	0.00	0.00
2700	11.78	164.35	2659	-404	113	380	0.00	0.00	0.00
2800	11.78	164.35	2757	-424	119	399	0.00	0.00	0.00
2900	11.78	164.35	2855	-444	124	417	0.00	0.00	0.00
3000	11.78	164.35	2952	-463	130	436	0.00	0.00	0.00
3100	11.78	164.35	3050	-483	135	454	0.00	0.00	0.00
3200	11.78	164.35	3148	-503	141	473	0.00	0.00	0.00
3300	11.78	164.35	3246	-522	146	491	0.00	0.00	0.00
3400	11.78	164.35	3344	-542	152	510	0.00	0.00	0.00
3500	11.78	164.35	3442	-562	157	528	0.00	0.00	0.00
3600	11.78	164.35	3540	-581	163	547	0.00	0.00	0.00
3700	11.78	164.35	3638	-601	168	565	0.00	0.00	0.00
3800	11.78	164.35	3736	-621	174	584	0.00	0.00	0.00
3900	11.78	164.35	3833	-640	179	602	0.00	0.00	0.00
4000	11.78	164.35	3931	-660	185	621	0.00	0.00	0.00
4100	11.78	164.35	4029	-680	190	639	0.00	0.00	0.00
4200	11.78	164.35	4127	-699	196	658	0.00	0.00	0.00
4300	11.78	164.35	4225	-719	201	676	0.00	0.00	0.00
4400	11.78	164.35	4323	-739	207	695	0.00	0.00	0.00
4500	11.78	164.35	4421	-758	212	713	0.00	0.00	0.00
4600	11.78	164.35	4519	-778	218	732	0.00	0.00	0.00
4700	11.78	164.35	4617	-798	223	750	0.00	0.00	0.00
4800	11.78	164.35	4715	-817	229	769	0.00	0.00	0.00
4900	11.78	164.35	4812	-837	234	787	0.00	0.00	0.00
5000	11.78	164.35	4910	-857	240	806	0.00	0.00	0.00
5100	11.78	164.35	5008	-876	246	824	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 201H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Project:	North Alamito Unit	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site:	M24 2307 Pad	North Reference:	True
Well:	# 201H	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)
5193	11.78	164.35	5099	-894	251	841	0.00	0.00	0.00
5200	12.45	162.59	5106	-896	251	843	10.50	9.20	-24.09
5300	22.27	149.58	5201	-923	264	871	10.50	9.82	-13.01
5400	32.51	144.39	5290	-961	289	917	10.50	10.23	-5.18
5500	42.86	141.51	5369	-1009	326	978	10.50	10.35	-2.89
5600	53.26	139.57	5436	-1067	373	1052	10.50	10.40	-1.93
5700	63.69	138.10	5488	-1131	429	1137	10.50	10.43	-1.47
5800	74.12	136.88	5524	-1199	492	1230	10.50	10.44	-1.22
5900	84.57	135.78	5543	-1270	560	1328	10.50	10.44	-1.10
5955	90.35	135.19	5545	-1310	599	1383	10.50	10.45	-1.06
6000	90.35	135.19	5545	-1342	630	1428	0.00	0.00	0.00
6100	90.35	135.19	5544	-1412	701	1528	0.00	0.00	0.00
6200	90.35	135.19	5543	-1483	771	1627	0.00	0.00	0.00
6300	90.35	135.19	5543	-1554	842	1727	0.00	0.00	0.00
6400	90.35	135.19	5542	-1625	912	1827	0.00	0.00	0.00
6500	90.35	135.19	5542	-1696	983	1927	0.00	0.00	0.00
6600	90.35	135.19	5541	-1767	1053	2026	0.00	0.00	0.00
6700	90.35	135.19	5540	-1838	1124	2126	0.00	0.00	0.00
6800	90.35	135.19	5540	-1909	1194	2226	0.00	0.00	0.00
6900	90.35	135.19	5539	-1980	1265	2326	0.00	0.00	0.00
7000	90.35	135.19	5539	-2051	1335	2425	0.00	0.00	0.00
7100	90.35	135.19	5538	-2122	1406	2525	0.00	0.00	0.00
7200	90.35	135.19	5537	-2193	1476	2625	0.00	0.00	0.00
7300	90.35	135.19	5537	-2264	1547	2725	0.00	0.00	0.00
7400	90.35	135.19	5536	-2335	1617	2824	0.00	0.00	0.00
7500	90.35	135.19	5535	-2406	1688	2924	0.00	0.00	0.00
7600	90.35	135.19	5535	-2477	1758	3024	0.00	0.00	0.00
7700	90.35	135.19	5534	-2548	1829	3124	0.00	0.00	0.00
7800	90.35	135.19	5534	-2619	1899	3223	0.00	0.00	0.00
7900	90.35	135.19	5533	-2689	1969	3323	0.00	0.00	0.00
8000	90.35	135.19	5532	-2760	2040	3423	0.00	0.00	0.00
8100	90.35	135.19	5532	-2831	2110	3523	0.00	0.00	0.00
8200	90.35	135.19	5531	-2902	2181	3622	0.00	0.00	0.00
8300	90.35	135.19	5531	-2973	2251	3722	0.00	0.00	0.00
8400	90.35	135.19	5530	-3044	2322	3822	0.00	0.00	0.00
8500	90.35	135.19	5529	-3115	2392	3922	0.00	0.00	0.00
8600	90.35	135.19	5529	-3186	2463	4021	0.00	0.00	0.00
8700	90.35	135.19	5528	-3257	2533	4121	0.00	0.00	0.00
8800	90.35	135.19	5527	-3328	2604	4221	0.00	0.00	0.00
8900	90.35	135.19	5527	-3399	2674	4321	0.00	0.00	0.00
9000	90.35	135.19	5526	-3470	2745	4420	0.00	0.00	0.00
9100	90.35	135.19	5526	-3541	2815	4520	0.00	0.00	0.00
9200	90.35	135.19	5525	-3612	2886	4620	0.00	0.00	0.00
9300	90.35	135.19	5524	-3683	2956	4720	0.00	0.00	0.00
9400	90.35	135.19	5524	-3754	3027	4819	0.00	0.00	0.00
9500	90.35	135.19	5523	-3825	3097	4919	0.00	0.00	0.00
9600	90.35	135.19	5522	-3895	3168	5019	0.00	0.00	0.00
9700	90.35	135.19	5522	-3966	3238	5118	0.00	0.00	0.00
9800	90.35	135.19	5521	-4037	3309	5218	0.00	0.00	0.00
9900	90.35	135.19	5521	-4108	3379	5318	0.00	0.00	0.00
10,000	90.35	135.19	5520	-4179	3449	5418	0.00	0.00	0.00
10,100	90.35	135.19	5519	-4250	3520	5517	0.00	0.00	0.00
10,200	90.35	135.19	5519	-4321	3590	5617	0.00	0.00	0.00
10,300	90.35	135.19	5518	-4392	3661	5717	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 201H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Project:	North Alamito Unit	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site:	M24 2307 Pad	North Reference:	True
Well:	# 201H	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)	
10,400	90.35	135.19	5518	-4463	3731	5817	0.00	0.00	0.00	
10,500	90.35	135.19	5517	-4534	3802	5916	0.00	0.00	0.00	
10,600	90.35	135.19	5516	-4605	3872	6016	0.00	0.00	0.00	
10,700	90.35	135.19	5516	-4676	3943	6116	0.00	0.00	0.00	
10,800	90.35	135.19	5515	-4747	4013	6216	0.00	0.00	0.00	
10,900	90.35	135.19	5514	-4818	4084	6315	0.00	0.00	0.00	
11,000	90.35	135.19	5514	-4889	4154	6415	0.00	0.00	0.00	
11,100	90.35	135.19	5513	-4960	4225	6515	0.00	0.00	0.00	
11,200	90.35	135.19	5513	-5031	4295	6615	0.00	0.00	0.00	
11,300	90.35	135.19	5512	-5102	4366	6714	0.00	0.00	0.00	
11,400	90.35	135.19	5511	-5172	4436	6814	0.00	0.00	0.00	
11,500	90.35	135.19	5511	-5243	4507	6914	0.00	0.00	0.00	
11,600	90.35	135.19	5510	-5314	4577	7014	0.00	0.00	0.00	
11,621	90.35	135.19	5510	-5329	4592	7035	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										
201H Toe Rev1	0.00	0.00	5510	-5329	4592	1,889,419.57	2,815,828.20	36.19223100	-107.51904500	
- plan hits target center										
- Circle (radius 100)										
201H Toe	0.00	0.00	5510	-5346	4608	1,889,402.90	2,815,844.73	36.19218507	-107.51898918	
- plan misses target center by 23ft at 11621ft MD (5510 TVD, -5329 N, 4592 E)										
- Circle (radius 100)										
201H Heel	0.00	0.00	5545	-1310	599	1,893,426.67	2,811,822.98	36.20327363	-107.53257659	
- plan hits target center										
- Circle (radius 50)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
350	350	Surface	9.63	12.25		
5904	5543	Intermediate	7.00	8.75		



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 201H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Project:	North Alamito Unit	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site:	M24 2307 Pad	North Reference:	True
Well:	# 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1346	1333	Ojo Alamo		0.00	0.00	
1524	1508	Kirtland		0.00	0.00	
1733	1712	Fruitland		0.00	0.00	
1978	1952	Pictured Cliffs		0.00	0.00	
2093	2065	Lewis		0.00	0.00	
2836	2792	Chacra		0.00	0.00	
3533	3474	Menefee		0.00	0.00	
4356	4280	Point Lookout		0.00	0.00	
4504	4425	Mancos		0.00	0.00	
4881	4794	Mancos Silt		0.00	0.00	
5393	5284	Gallup A		0.00	0.00	
5436	5320	Gallup B		0.00	0.00	
5582	5425	Gallup C		0.00	0.00	



DJR Operating

North Alamito Unit

M24 2307 Pad

201H

Original Drilling

APD Rev 1

Anticollision Report

01 September, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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	9/1/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	11,621	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						
M24 2307 Pad						
# 203H - Original Drilling - APD Rev 1	350	350	80	77	33.168	CC, ES
# 203H - Original Drilling - APD Rev 1	600	592	100	96	24.266	SF
# 205H - Original Drilling - APD Rev 1	350	350	42	39	17.251	CC
# 205H - Original Drilling - APD Rev 1	400	400	42	39	15.186	ES
# 205H - Original Drilling - APD Rev 1	800	801	62	56	11.027	SF
# 540H - Original Drilling - APD Rev 1	350	350	20	18	8.292	CC
# 540H - Original Drilling - APD Rev 1	400	400	20	17	7.332	ES
# 540H - Original Drilling - APD Rev 1	11,621	11,840	680	359	2.118	SF
# 550H - Original Drilling - APD Rev 1	350	350	60	58	24.876	CC
# 550H - Original Drilling - APD Rev 1	400	400	60	57	21.863	ES
# 550H - Original Drilling - APD Rev 1	800	801	82	76	14.603	SF
Lybrook Com 191H - OH - OH	5425	10,221	461	322	3.324	CC
Lybrook Com 191H - OH - OH	5452	10,210	462	320	3.254	ES
Lybrook Com 191H - OH - OH	5500	10,189	470	323	3.204	SF

Offset Design: M24 2307 Pad - # 203H - 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				Offset Well Error:		0 ft				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)					
0	0	0	0	0	0	-41.65	60	-53	80							
100	100	100	100	0	0	-41.65	60	-53	80	79	0.62	129.588				
200	200	200	200	1	1	-41.65	60	-53	80	79	1.33	59.917				
300	300	300	300	1	1	-41.65	60	-53	80	78	2.05	38.967				
350	350	350	350	1	1	-41.65	60	-53	80	77	2.41	33.168	CC, ES			
400	400	399	399	1	1	154.15	60	-53	81	78	2.75	29.305				
500	500	496	496	2	2	155.28	63	-55	87	84	3.44	25.365				
600	600	592	591	2	2	157.07	68	-59	100	96	4.14	24.266	SF			
700	699	688	687	2	2	159.03	75	-65	120	115	4.84	24.746				
800	798	785	784	3	3	160.89	83	-70	143	137	5.54	25.748				
900	897	881	879	3	3	162.56	91	-76	169	163	6.25	27.052				
939	935	919	917	3	3	163.15	94	-78	180	174	6.54	27.600				
1000	995	977	975	4	4	164.06	99	-82	198	191	6.96	28.486				
1100	1092	1072	1069	4	4	165.25	107	-88	228	220	7.66	29.734				

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 203H - 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			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		
1200	1190	1168	1164	5	4	166.17	115	-93	258	249	8.37	30.765		
1300	1288	1263	1259	5	5	166.89	123	-99	287	278	9.08	31.631		
1400	1386	1359	1354	6	5	167.48	130	-105	317	307	9.79	32.368		
1500	1484	1454	1449	6	5	167.97	138	-110	347	336	10.50	33.000		
1600	1582	1549	1544	7	6	168.39	146	-116	376	365	11.22	33.550		
1700	1680	1645	1639	7	6	168.74	154	-122	406	394	11.93	34.031		
1800	1778	1740	1734	8	7	169.04	162	-127	436	423	12.65	34.455		
1900	1876	1836	1829	8	7	169.31	170	-133	466	452	13.36	34.832		
2000	1974	1931	1924	9	7	169.54	177	-139	495	481	14.08	35.170		
2100	2071	2027	2019	9	8	169.75	185	-145	525	510	14.80	35.473		
2200	2169	2122	2114	10	8	169.93	193	-150	555	539	15.52	35.747		
2300	2267	2218	2209	10	9	170.10	201	-156	585	568	16.24	35.996		
2400	2365	2313	2304	11	9	170.25	209	-162	614	597	16.96	36.223		
2500	2463	2408	2399	11	9	170.39	217	-167	644	627	17.68	36.431		
2600	2561	2504	2494	12	10	170.51	224	-173	674	656	18.41	36.622		
2700	2659	2599	2589	12	10	170.62	232	-179	704	685	19.13	36.798		
2800	2757	2695	2684	13	10	170.73	240	-184	734	714	19.85	36.961		
2900	2855	2790	2779	13	11	170.82	248	-190	763	743	20.57	37.112		
3000	2952	2886	2874	14	11	170.91	256	-196	793	772	21.29	37.252		
3100	3050	2981	2969	15	12	171.00	264	-202	823	801	22.02	37.383		
3200	3148	3077	3064	15	12	171.07	271	-207	853	830	22.74	37.505		
3300	3246	3172	3158	16	12	171.14	279	-213	883	859	23.46	37.619		
3400	3344	3267	3253	16	13	171.21	287	-219	913	888	24.19	37.726		
3500	3442	3363	3348	17	13	171.27	295	-224	942	917	24.91	37.827		
3600	3540	3458	3443	17	13	171.33	303	-230	972	947	25.64	37.922		
3700	3638	3554	3538	18	14	171.39	310	-236	1002	976	26.36	38.011		
3800	3736	3649	3633	18	14	171.44	318	-241	1032	1005	27.08	38.096		
3900	3833	3745	3728	19	15	171.49	326	-247	1062	1034	27.81	38.176		
4000	3931	3840	3823	19	15	171.53	334	-253	1091	1063	28.53	38.251		
4100	4029	3936	3918	20	15	171.58	342	-259	1121	1092	29.26	38.323		
4200	4127	4031	4013	20	16	171.62	350	-264	1151	1121	29.98	38.391		
4300	4225	4127	4108	21	16	171.66	357	-270	1181	1150	30.71	38.456		
4400	4323	4222	4203	21	17	171.70	365	-276	1211	1179	31.43	38.517		
4500	4421	4317	4298	22	17	171.73	373	-281	1241	1208	32.16	38.576		
4600	4519	4413	4393	22	17	171.77	381	-287	1270	1237	32.88	38.632		
4700	4617	4508	4488	23	18	171.80	389	-293	1300	1267	33.61	38.685		
4800	4715	4604	4583	24	18	171.83	397	-298	1330	1296	34.33	38.736		
4900	4812	4699	4678	24	19	171.86	404	-304	1360	1325	35.06	38.785		
5000	4910	4795	4773	25	19	171.89	412	-310	1390	1354	35.79	38.831		
5100	5008	4890	4868	25	19	171.92	420	-316	1419	1383	36.51	38.876		
5193	5099	4979	4956	26	20	171.94	427	-321	1447	1410	37.19	38.916		
5200	5106	4986	4963	26	20	173.75	428	-321	1449	1412	37.24	38.920		
5250	5154	5032	5009	26	20	-177.52	432	-324	1467	1429	37.60	39.008		
5300	5201	5077	5054	26	20	-172.22	435	-327	1488	1450	37.96	39.201		
5350	5247	5102	5078	27	20	-168.30	437	-328	1513	1475	38.18	39.639		
5400	5290	5102	5078	27	20	-164.79	437	-328	1543	1505	38.21	40.386		
5450	5331	5129	5105	28	20	-161.58	440	-330	1576	1538	38.44	41.005		
5500	5369	5150	5126	28	20	-158.15	443	-333	1613	1574	38.62	41.766		
5550	5404	5150	5126	29	20	-153.77	443	-333	1653	1614	38.63	42.788		
5600	5436	5150	5126	29	20	-148.23	443	-333	1695	1656	38.62	43.886		
5650	5464	5150	5126	30	20	-140.92	443	-333	1739	1701	38.62	45.045		
5700	5488	5150	5126	31	20	-130.99	443	-333	1786	1747	38.61	46.246		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 203H - 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		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5750	5508	5150	5126	31	20	-117.61	443	-333	1833	1794	38.60	47.474	
5800	5524	5150	5126	32	20	-100.81	443	-333	1880	1842	38.60	48.714	
5850	5536	5150	5126	33	20	-82.73	443	-333	1928	1890	38.61	49.951	
5900	5543	5150	5126	34	20	-66.66	443	-333	1976	1938	38.62	51.173	
5950	5545	5150	5126	35	20	-54.24	443	-333	2024	1985	38.64	52.367	
5955	5545	5150	5126	35	20	-53.12	443	-333	2029	1990	38.64	52.496	
6000	5545	5150	5126	36	20	-53.12	443	-333	2070	2032	38.67	53.538	
6100	5544	5150	5126	37	20	-53.12	443	-333	2164	2126	38.74	55.876	
6200	5543	5150	5126	39	20	-53.12	443	-333	2259	2220	38.80	58.217	
6300	5543	5150	5126	41	20	-53.12	443	-333	2354	2315	38.87	60.562	
6400	5542	5150	5126	43	20	-53.12	443	-333	2450	2411	38.94	62.909	
6500	5542	5150	5126	45	20	-53.12	443	-333	2545	2506	39.00	65.258	
6600	5541	5150	5126	47	20	-53.12	443	-333	2641	2602	39.07	67.608	
6700	5540	5150	5126	49	20	-53.12	443	-333	2738	2699	39.13	69.958	
6800	5540	5150	5126	52	20	-53.12	443	-333	2834	2795	39.20	72.309	
6900	5539	5129	5105	54	20	-51.80	440	-330	2931	2892	39.11	74.936	
7000	5539	5126	5103	56	20	-51.65	440	-330	3028	2989	39.16	77.320	
7100	5538	5124	5100	58	20	-51.51	440	-330	3125	3086	39.21	79.701	
7200	5537	5102	5078	60	20	-50.18	437	-328	3223	3183	39.12	82.376	
7300	5537	5102	5078	63	20	-50.18	437	-328	3320	3281	39.18	84.724	
7400	5536	5102	5078	65	20	-50.18	437	-328	3417	3378	39.25	87.070	
7500	5535	5102	5078	67	20	-50.18	437	-328	3515	3476	39.31	89.414	
7600	5535	5102	5078	70	20	-50.18	437	-328	3613	3573	39.37	91.756	
7700	5534	5102	5078	72	20	-50.18	437	-328	3711	3671	39.44	94.094	
7800	5534	5102	5078	74	20	-50.18	437	-328	3809	3769	39.50	96.429	
7900	5533	5102	5078	77	20	-50.18	437	-328	3907	3867	39.56	98.761	
8000	5532	5102	5078	79	20	-50.18	437	-328	4005	3965	39.62	101.089	
8100	5532	5102	5078	81	20	-50.18	437	-328	4103	4064	39.68	103.414	
8200	5531	5102	5078	84	20	-50.18	437	-328	4202	4162	39.74	105.734	
8300	5531	5102	5078	86	20	-50.18	437	-328	4300	4260	39.80	108.050	
8400	5530	5102	5078	88	20	-50.18	437	-328	4399	4359	39.86	110.361	
8500	5529	5097	5073	91	20	-49.87	437	-328	4497	4457	39.88	112.756	
8600	5529	5086	5063	93	20	-49.25	436	-327	4596	4556	39.88	115.241	
8700	5528	5075	5052	96	20	-48.64	435	-327	4694	4655	39.88	117.725	
8800	5527	5065	5041	98	20	-48.04	434	-326	4793	4753	39.87	120.208	
8900	5527	5054	5031	100	20	-47.46	434	-325	4892	4852	39.87	122.689	
9000	5526	5043	5020	103	20	-46.88	433	-325	4991	4951	39.87	125.170	
9100	5526	5033	5010	105	20	-46.31	432	-324	5089	5050	39.87	127.648	
9200	5525	5022	4999	108	20	-45.75	431	-323	5188	5148	39.87	130.125	
9300	5524	5012	4989	110	20	-45.21	430	-323	5287	5247	39.87	132.599	
9400	5524	5001	4978	113	20	-44.67	429	-322	5386	5346	39.87	135.072	
9500	5523	4990	4967	115	20	-44.14	428	-322	5485	5445	39.88	137.541	
9600	5522	4980	4957	117	20	-43.63	427	-321	5584	5544	39.88	140.009	
9700	5522	4969	4946	120	20	-43.12	427	-320	5683	5643	39.88	142.473	
9800	5521	4958	4936	122	20	-42.62	426	-320	5781	5742	39.89	144.934	
9900	5521	4948	4925	125	20	-42.13	425	-319	5880	5840	39.90	147.392	
10,000	5520	4937	4914	127	19	-41.65	424	-318	5979	5939	39.90	149.847	
10,100	5519	4926	4904	130	19	-41.18	423	-318	6078	6038	39.91	152.298	
10,200	5519	4916	4893	132	19	-40.71	422	-317	6177	6137	39.92	154.745	
10,300	5518	4905	4883	134	19	-40.26	421	-316	6276	6236	39.93	157.188	
10,400	5518	4895	4872	137	19	-39.81	420	-316	6375	6335	39.94	159.627	
10,500	5517	4884	4861	139	19	-39.37	420	-315	6474	6434	39.95	162.062	

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 203H - 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 Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,600	5516	4873	4851	142	19	-38.94	419	-315	6573	6533	39.96	164.492		
10,700	5516	4863	4840	144	19	-38.51	418	-314	6672	6632	39.97	166.917		
10,800	5515	4852	4830	147	19	-38.10	417	-313	6771	6731	39.99	169.338		
10,900	5514	4841	4819	149	19	-37.69	416	-313	6871	6831	40.00	171.754		
11,000	5514	4831	4809	151	19	-37.28	415	-312	6970	6930	40.02	174.165		
11,100	5513	4820	4798	154	19	-36.89	414	-311	7069	7029	40.03	176.570		
11,200	5513	4809	4787	156	19	-36.50	413	-311	7168	7128	40.05	178.970		
11,300	5512	4799	4777	159	19	-36.12	413	-310	7267	7227	40.07	181.364		
11,400	5511	4788	4766	161	19	-35.74	412	-309	7366	7326	40.09	183.753		
11,500	5511	4777	4756	164	19	-35.38	411	-309	7465	7425	40.11	186.135		
11,600	5510	4767	4745	166	19	-35.01	410	-308	7564	7524	40.13	188.512		
11,621	5510	4765	4743	167	19	-34.94	410	-308	7585	7545	40.13	189.012		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 205H - 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		Distance		Rule Assigned:		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-44.09	30	-29	42						
100	100	100	100	0	0	-44.09	30	-29	42	41	0.62	67.394			
200	200	200	200	1	1	-44.09	30	-29	42	40	1.33	31.162			
300	300	300	300	1	1	-44.09	30	-29	42	40	2.05	20.266			
350	350	350	350	1	1	-44.09	30	-29	42	39	2.41	17.251 CC			
400	400	400	400	1	1	151.29	29	-29	42	39	2.75	15.186 ES			
500	500	501	501	2	2	149.15	26	-31	44	40	3.42	12.751			
600	600	601	601	2	2	145.40	20	-34	47	43	4.12	11.525			
700	699	701	700	2	2	140.80	10	-38	54	49	4.85	11.041			
800	798	801	799	3	3	136.10	-2	-44	62	56	5.62	11.027 SF			
900	897	900	897	3	3	131.78	-18	-51	73	67	6.46	11.309			
939	935	939	935	3	3	130.24	-25	-54	78	71	6.80	11.462			
1000	995	999	994	4	4	127.83	-37	-60	86	79	7.35	11.714			
1100	1092	1098	1090	4	4	123.29	-58	-70	100	92	8.30	12.040			
1200	1190	1197	1185	5	5	119.52	-80	-80	114	105	9.29	12.316			
1300	1288	1295	1281	5	5	116.60	-102	-90	129	119	10.30	12.555			
1400	1386	1394	1377	6	6	114.29	-124	-100	144	133	11.31	12.762			
1500	1484	1493	1472	6	6	112.41	-146	-110	160	147	12.33	12.941			
1600	1582	1592	1568	7	7	110.87	-168	-121	175	162	13.36	13.098			
1700	1680	1690	1664	7	7	109.57	-190	-131	191	176	14.40	13.235			
1800	1778	1789	1759	8	8	108.47	-212	-141	206	191	15.44	13.357			
1900	1876	1888	1855	8	9	107.53	-234	-151	222	205	16.48	13.464			
2000	1974	1986	1951	9	9	106.70	-256	-161	238	220	17.52	13.561			
2100	2071	2085	2046	9	10	105.99	-278	-172	253	235	18.56	13.647			
2200	2169	2184	2142	10	10	105.35	-300	-182	269	249	19.61	13.726			
2300	2267	2283	2238	10	11	104.79	-323	-192	285	264	20.65	13.797			
2400	2365	2381	2333	11	11	104.28	-345	-202	301	279	21.70	13.861			
2500	2463	2480	2429	11	12	103.83	-367	-213	317	294	22.75	13.920			
2600	2561	2579	2525	12	13	103.42	-389	-223	333	309	23.79	13.974			
2700	2659	2677	2620	12	13	103.04	-411	-233	348	324	24.84	14.024			
2800	2757	2776	2716	13	14	102.70	-433	-243	364	338	25.89	14.070			
2900	2855	2875	2812	13	14	102.39	-455	-253	380	353	26.94	14.113			
3000	2952	2973	2907	14	15	102.10	-477	-264	396	368	27.99	14.153			
3100	3050	3072	3003	15	16	101.84	-499	-274	412	383	29.04	14.189			
3200	3148	3171	3099	15	16	101.59	-521	-284	428	398	30.10	14.224			
3300	3246	3270	3194	16	17	101.36	-543	-294	444	413	31.15	14.256			
3400	3344	3368	3290	16	17	101.15	-565	-304	460	428	32.20	14.286			
3500	3442	3467	3386	17	18	100.95	-587	-315	476	443	33.25	14.315			
3600	3540	3566	3481	17	18	100.77	-609	-325	492	458	34.30	14.341			
3700	3638	3664	3577	18	19	100.60	-631	-335	508	473	35.35	14.366			
3800	3736	3763	3673	18	20	100.43	-653	-345	524	487	36.41	14.390			
3900	3833	3862	3768	19	20	100.28	-675	-355	540	502	37.46	14.413			
4000	3931	3960	3864	19	21	100.14	-697	-366	556	517	38.51	14.434			
4100	4029	4059	3960	20	21	100.00	-719	-376	572	532	39.57	14.454			
4200	4127	4158	4055	20	22	99.87	-741	-386	588	547	40.62	14.473			
4300	4225	4257	4151	21	22	99.75	-763	-396	604	562	41.67	14.491			
4400	4323	4355	4247	21	23	99.63	-785	-406	620	577	42.72	14.509			
4500	4421	4454	4342	22	24	99.52	-807	-417	636	592	43.78	14.525			
4600	4519	4553	4438	22	24	99.42	-829	-427	652	607	44.83	14.541			
4700	4617	4651	4534	23	25	99.32	-851	-437	668	622	45.88	14.556			
4800	4715	4750	4629	24	25	99.22	-873	-447	684	637	46.94	14.570			
4900	4812	4849	4725	24	26	99.13	-896	-457	700	652	47.99	14.584			

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 205H - 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		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5000	4910	4948	4821	25	27	99.05	-918	-468	716	667	49.05	14.597	
5100	5008	5046	4916	25	27	98.96	-940	-478	732	682	50.10	14.610	
5193	5099	5122	4989	26	28	98.92	-956	-486	747	696	50.89	14.682	
5200	5106	5125	4993	26	28	100.52	-957	-486	749	698	50.92	14.699	
5250	5154	5150	5017	26	28	107.70	-962	-490	760	709	51.17	14.860	
5300	5201	5174	5040	26	28	111.07	-965	-494	776	725	51.42	15.101	
5350	5247	5200	5066	27	28	112.59	-968	-500	797	745	51.75	15.393	
5400	5290	5215	5080	27	28	112.58	-970	-504	820	768	51.91	15.804	
5450	5331	5232	5097	28	28	111.68	-971	-508	848	796	52.14	16.258	
5500	5369	5250	5114	28	28	109.99	-972	-513	878	826	52.43	16.753	
5550	5404	5250	5114	29	28	106.45	-972	-513	912	860	52.40	17.405	
5600	5436	5269	5132	29	28	103.21	-973	-519	948	895	52.79	17.955	
5650	5464	5276	5139	30	28	98.34	-973	-522	986	933	53.00	18.603	
5700	5488	5282	5144	31	28	92.41	-973	-524	1026	972	53.21	19.277	
5750	5508	5300	5161	31	28	86.91	-973	-530	1067	1013	53.73	19.857	
5800	5524	5300	5161	32	28	79.18	-973	-530	1109	1055	53.92	20.561	
5850	5536	5300	5161	33	28	71.19	-973	-530	1151	1097	54.14	21.253	
5900	5543	5300	5161	34	28	63.36	-973	-530	1193	1139	54.40	21.927	
5950	5545	5281	5143	35	28	54.58	-973	-523	1234	1180	54.33	22.722	
5955	5545	5281	5143	35	28	53.81	-973	-523	1239	1185	54.35	22.794	
6000	5545	5277	5139	36	28	53.56	-973	-522	1276	1222	54.56	23.390	
6100	5544	5270	5133	37	28	53.02	-973	-520	1361	1306	54.96	24.763	
6200	5543	5250	5114	39	28	51.55	-972	-513	1448	1393	55.06	26.303	
6300	5543	5250	5114	41	28	51.55	-972	-513	1536	1481	55.44	27.709	
6400	5542	5250	5114	43	28	51.55	-972	-513	1626	1570	55.77	29.153	
6500	5542	5250	5114	45	28	51.55	-972	-513	1716	1660	56.04	30.629	
6600	5541	5250	5114	47	28	51.55	-972	-513	1808	1752	56.27	32.131	
6700	5540	5250	5114	49	28	51.55	-972	-513	1901	1844	56.47	33.656	
6800	5540	5250	5114	52	28	51.55	-972	-513	1994	1937	56.64	35.200	
6900	5539	5250	5114	54	28	51.55	-972	-513	2088	2031	56.79	36.760	
7000	5539	5229	5094	56	28	50.05	-971	-508	2182	2125	56.63	38.528	
7100	5538	5226	5091	58	28	49.84	-971	-507	2276	2220	56.71	40.145	
7200	5537	5224	5088	60	28	49.65	-971	-506	2372	2315	56.78	41.771	
7300	5537	5221	5086	63	28	49.47	-970	-505	2467	2410	56.84	43.405	
7400	5536	5200	5066	65	28	47.98	-968	-500	2563	2507	56.64	45.259	
7500	5535	5200	5066	67	28	47.98	-968	-500	2659	2603	56.72	46.884	
7600	5535	5200	5066	70	28	47.98	-968	-500	2756	2699	56.80	48.515	
7700	5534	5200	5066	72	28	47.98	-968	-500	2852	2795	56.87	50.152	
7800	5534	5200	5066	74	28	47.98	-968	-500	2949	2892	56.94	51.793	
7900	5533	5200	5066	77	28	47.98	-968	-500	3046	2989	57.00	53.438	
8000	5532	5200	5066	79	28	47.98	-968	-500	3143	3086	57.06	55.086	
8100	5532	5200	5066	81	28	47.98	-968	-500	3241	3184	57.12	56.738	
8200	5531	5200	5066	84	28	47.98	-968	-500	3338	3281	57.17	58.391	
8300	5531	5200	5066	86	28	47.98	-968	-500	3436	3379	57.22	60.047	
8400	5530	5200	5066	88	28	47.98	-968	-500	3534	3477	57.27	61.704	
8500	5529	5200	5066	91	28	47.98	-968	-500	3632	3574	57.32	63.362	
8600	5529	5200	5066	93	28	47.98	-968	-500	3730	3672	57.36	65.022	
8700	5528	5200	5066	96	28	47.98	-968	-500	3828	3770	57.41	66.682	
8800	5527	5200	5066	98	28	47.98	-968	-500	3926	3869	57.45	68.342	
8900	5527	5200	5066	100	28	47.98	-968	-500	4024	3967	57.49	70.002	
9000	5526	5200	5066	103	28	47.98	-968	-500	4123	4065	57.53	71.662	
9100	5526	5200	5066	105	28	47.98	-968	-500	4221	4164	57.57	73.322	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 205H - 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			Offset Wellbore Centre		Distance			Rule Assigned:	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
9200	5525	5200	5066	108	28	47.98	-968	-500	4320	4262	57.61	74.981	
9300	5524	5200	5066	110	28	47.98	-968	-500	4418	4361	57.65	76.639	
9400	5524	5200	5066	113	28	47.98	-968	-500	4517	4459	57.69	78.297	
9500	5523	5200	5066	115	28	47.98	-968	-500	4616	4558	57.73	79.954	
9600	5522	5200	5066	117	28	47.98	-968	-500	4715	4657	57.77	81.609	
9700	5522	5200	5066	120	28	47.98	-968	-500	4813	4756	57.81	83.263	
9800	5521	5200	5066	122	28	47.98	-968	-500	4912	4855	57.85	84.916	
9900	5521	5200	5066	125	28	47.98	-968	-500	5011	4953	57.89	86.567	
10,000	5520	5200	5066	127	28	47.98	-968	-500	5110	5052	57.93	88.216	
10,100	5519	5200	5066	130	28	47.98	-968	-500	5209	5151	57.97	89.864	
10,200	5519	5200	5066	132	28	47.98	-968	-500	5308	5250	58.01	91.510	
10,300	5518	5200	5066	134	28	47.98	-968	-500	5407	5349	58.05	93.153	
10,400	5518	5200	5066	137	28	47.98	-968	-500	5506	5448	58.09	94.795	
10,500	5517	5200	5066	139	28	47.98	-968	-500	5606	5548	58.13	96.434	
10,600	5516	5200	5066	142	28	47.98	-968	-500	5705	5647	58.17	98.071	
10,700	5516	5200	5066	144	28	47.98	-968	-500	5804	5746	58.21	99.706	
10,800	5515	5200	5066	147	28	47.98	-968	-500	5903	5845	58.25	101.339	
10,900	5514	5200	5066	149	28	47.98	-968	-500	6002	5944	58.29	102.969	
11,000	5514	5200	5066	151	28	47.98	-968	-500	6102	6043	58.34	104.596	
11,100	5513	5200	5066	154	28	47.98	-968	-500	6201	6143	58.38	106.220	
11,200	5513	5200	5066	156	28	47.98	-968	-500	6300	6242	58.42	107.842	
11,300	5512	5200	5066	159	28	47.98	-968	-500	6400	6341	58.47	109.461	
11,400	5511	5200	5066	161	28	47.98	-968	-500	6499	6441	58.51	111.078	
11,500	5511	5200	5066	164	28	47.98	-968	-500	6598	6540	58.55	112.691	
11,600	5510	5200	5066	166	28	47.98	-968	-500	6698	6639	58.60	114.301	
11,621	5510	5200	5066	167	28	47.98	-968	-500	6719	6660	58.61	114.641	

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 540H - 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		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-41.65	15	-13	20					
100	100	100	100	0	0	-41.65	15	-13	20	19	0.62	32.395		
200	200	200	200	1	1	-41.65	15	-13	20	19	1.33	14.979		
300	300	300	300	1	1	-41.65	15	-13	20	18	2.05	9.742		
350	350	350	350	1	1	-41.65	15	-13	20	18	2.41	8.292 CC		
400	400	400	400	1	1	153.43	15	-13	20	17	2.75	7.332 ES		
500	500	500	500	2	2	149.26	11	-15	22	18	3.42	6.371		
600	600	601	600	2	2	142.61	5	-17	25	21	4.12	6.146		
700	699	701	700	2	2	135.59	-5	-21	31	26	4.85	6.395		
800	798	800	798	3	3	129.52	-18	-26	39	33	5.63	6.942		
900	897	900	896	3	3	124.74	-34	-32	49	43	6.47	7.654		
939	935	938	934	3	3	123.20	-41	-35	54	47	6.82	7.950		
1000	995	999	993	4	4	120.73	-53	-40	62	55	7.37	8.399		
1100	1092	1097	1089	4	4	115.71	-75	-49	75	67	8.33	9.026		
1200	1190	1196	1184	5	5	111.12	-99	-58	89	80	9.32	9.575		
1300	1288	1295	1280	5	5	107.79	-123	-67	104	93	10.34	10.044		
1400	1386	1394	1375	6	6	105.28	-147	-76	119	107	11.36	10.443		
1500	1484	1492	1471	6	6	103.33	-170	-86	134	121	12.38	10.785		
1600	1582	1591	1566	7	7	101.77	-194	-95	149	135	13.42	11.079		
1700	1680	1690	1661	7	8	100.50	-218	-104	164	149	14.45	11.334		
1800	1778	1789	1757	8	8	99.44	-242	-114	179	164	15.49	11.557		
1900	1876	1888	1852	8	9	98.56	-266	-123	194	178	16.53	11.753		
2000	1974	1986	1948	9	9	97.80	-289	-132	210	192	17.58	11.926		
2100	2071	2085	2043	9	10	97.14	-313	-141	225	206	18.62	12.081		
2200	2169	2184	2139	10	11	96.57	-337	-151	240	221	19.67	12.219		
2300	2267	2283	2234	10	11	96.07	-361	-160	256	235	20.72	12.344		
2400	2365	2382	2329	11	12	95.62	-384	-169	271	249	21.77	12.457		
2500	2463	2480	2425	11	12	95.22	-408	-179	287	264	22.82	12.559		
2600	2561	2579	2520	12	13	94.86	-432	-188	302	278	23.87	12.653		
2700	2659	2678	2616	12	13	94.54	-456	-197	317	293	24.92	12.739		
2800	2757	2777	2711	13	14	94.25	-479	-206	333	307	25.98	12.818		
2900	2855	2875	2807	13	15	93.98	-503	-216	348	321	27.03	12.891		
3000	2952	2974	2902	14	15	93.74	-527	-225	364	336	28.08	12.958		
3100	3050	3073	2998	15	16	93.51	-551	-234	379	350	29.14	13.020		
3200	3148	3172	3093	15	16	93.31	-574	-243	395	365	30.19	13.079		
3300	3246	3271	3188	16	17	93.12	-598	-253	410	379	31.25	13.133		
3400	3344	3369	3284	16	18	92.94	-622	-262	426	394	32.30	13.183		
3500	3442	3468	3379	17	18	92.77	-646	-271	441	408	33.36	13.231		
3600	3540	3567	3475	17	19	92.62	-670	-281	457	422	34.41	13.275		
3700	3638	3666	3570	18	19	92.48	-693	-290	472	437	35.47	13.317		
3800	3736	3764	3666	18	20	92.34	-717	-299	488	451	36.53	13.357		
3900	3833	3863	3761	19	21	92.22	-741	-308	503	466	37.58	13.394		
4000	3931	3962	3856	19	21	92.10	-765	-318	519	480	38.64	13.429		
4100	4029	4061	3952	20	22	91.99	-788	-327	534	495	39.70	13.462		
4200	4127	4160	4047	20	22	91.88	-812	-336	550	509	40.75	13.494		
4300	4225	4258	4143	21	23	91.78	-836	-346	565	524	41.81	13.524		
4400	4323	4357	4238	21	24	91.69	-860	-355	581	538	42.87	13.552		
4500	4421	4456	4334	22	24	91.60	-883	-364	596	553	43.93	13.580		
4600	4519	4555	4429	22	25	91.51	-907	-373	612	567	44.98	13.605		
4700	4617	4654	4524	23	25	91.43	-931	-383	628	581	46.04	13.630		
4800	4715	4752	4620	24	26	91.36	-955	-392	643	596	47.10	13.654		
4900	4812	4851	4715	24	27	91.28	-979	-401	659	610	48.16	13.676		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 540H - 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 Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
5000	4910	4950	4811	25	27	91.21	-1002	-411	674	625	49.21	13.697			
5100	5008	5151	5001	25	29	89.49	-1066	-413	686	635	50.88	13.473			
5193	5099	5371	5177	26	30	81.83	-1183	-358	678	627	51.19	13.246			
5200	5106	5385	5186	26	30	82.96	-1192	-353	677	626	51.19	13.225			
5250	5154	5471	5238	26	31	87.20	-1249	-314	670	618	51.31	13.049			
5300	5201	5544	5273	26	32	88.20	-1300	-276	663	611	51.67	12.825			
5350	5247	5608	5297	27	32	87.80	-1346	-239	657	604	52.26	12.565			
5400	5290	5664	5313	27	33	86.69	-1387	-204	652	599	53.05	12.291			
5450	5331	5715	5323	28	34	85.19	-1424	-170	649	595	53.96	12.024			
5500	5369	5762	5327	28	34	83.44	-1458	-139	647	592	54.97	11.774			
5529	5390	5788	5328	28	34	82.33	-1477	-121	647	591	55.58	11.640			
5550	5404	5805	5328	29	35	81.58	-1488	-109	647	591	56.07	11.541			
5600	5436	5843	5328	29	35	79.82	-1516	-82	649	591	57.27	11.324			
5650	5464	5884	5327	30	36	77.93	-1545	-53	651	593	58.24	11.180			
5700	5488	5928	5327	31	36	76.06	-1576	-22	654	595	59.43	11.012			
5750	5508	5973	5327	31	37	74.34	-1608	10	658	597	60.67	10.844			
5800	5524	6021	5327	32	37	72.89	-1642	43	661	599	62.01	10.660			
5850	5536	6069	5326	33	38	71.78	-1677	77	664	600	63.44	10.460			
5859	5537	6079	5326	33	38	71.62	-1683	84	664	600	63.73	10.419			
5900	5543	6119	5326	34	39	71.07	-1712	112	665	600	65.01	10.236			
5911	5543	6129	5326	34	39	70.98	-1719	119	666	600	65.36	10.185			
5950	5545	6169	5326	35	40	70.80	-1747	147	666	599	66.69	9.989			
5950	5545	6169	5326	35	40	70.80	-1748	147	666	599	66.70	9.987			
5955	5545	6174	5326	35	40	70.79	-1751	151	666	599	66.88	9.961			
5966	5545	6184	5326	35	40	70.79	-1758	158	666	599	67.25	9.907			
6000	5545	6219	5326	36	41	70.80	-1783	182	666	598	68.47	9.731			
6023	5545	6242	5325	36	41	70.80	-1799	198	666	597	69.31	9.614			
6100	5544	6319	5325	37	42	70.81	-1854	252	667	594	72.13	9.241			
6123	5544	6342	5325	38	43	70.81	-1870	269	667	594	73.00	9.132			
6200	5543	6419	5324	39	44	70.82	-1925	323	667	591	75.90	8.784			
6223	5543	6442	5324	40	44	70.82	-1942	339	667	590	76.80	8.683			
6300	5543	6519	5324	41	46	70.83	-1996	393	667	587	79.78	8.361			
6323	5543	6542	5324	42	46	70.83	-2013	409	667	586	80.69	8.267			
6400	5542	6619	5323	43	48	70.84	-2067	463	667	584	83.74	7.968			
6423	5542	6642	5323	44	48	70.85	-2084	479	667	583	84.68	7.881			
6500	5542	6719	5323	45	50	70.85	-2139	533	667	580	87.78	7.604			
6523	5541	6742	5323	46	50	70.86	-2155	550	668	579	88.73	7.523			
6600	5541	6819	5322	47	52	70.87	-2210	604	668	576	91.89	7.267			
6623	5541	6842	5322	48	52	70.87	-2226	620	668	575	92.85	7.193			
6700	5540	6919	5322	49	54	70.88	-2281	674	668	572	96.05	6.955			
6723	5540	6942	5321	50	54	70.88	-2297	690	668	571	97.02	6.886			
6800	5540	7019	5321	52	56	70.89	-2352	744	668	568	100.26	6.665			
6823	5540	7042	5321	52	56	70.89	-2368	760	668	567	101.24	6.601			
6900	5539	7119	5320	54	58	70.90	-2423	814	668	564	104.51	6.396			
6923	5539	7142	5320	54	58	70.90	-2440	831	669	563	105.50	6.337			
7000	5539	7219	5320	56	60	70.91	-2494	885	669	560	108.80	6.146			
7023	5538	7242	5320	57	61	70.91	-2511	901	669	559	109.80	6.091			
7100	5538	7319	5319	58	62	70.92	-2565	955	669	556	113.13	5.913			
7123	5538	7342	5319	59	63	70.93	-2582	971	669	555	114.14	5.862			
7200	5537	7419	5319	60	64	70.94	-2636	1025	669	552	117.49	5.696			
7223	5537	7442	5319	61	65	70.94	-2653	1042	669	551	118.50	5.648			
7300	5537	7519	5318	63	67	70.95	-2708	1096	669	548	121.87	5.493			

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 540H - 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 Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
7323	5537	7542	5318	63	67	70.95	-2724	1112	670	547	122.89	5.448		
7400	5536	7619	5318	65	69	70.96	-2779	1166	670	543	126.28	5.303		
7423	5536	7642	5317	66	69	70.96	-2795	1182	670	542	127.31	5.261		
7500	5535	7719	5317	67	71	70.97	-2850	1236	670	539	130.71	5.125		
7523	5535	7742	5317	68	72	70.97	-2866	1252	670	538	131.74	5.086		
7600	5535	7819	5316	70	73	70.98	-2921	1306	670	535	135.17	4.958		
7623	5535	7842	5316	70	74	70.98	-2938	1323	670	534	136.20	4.921		
7700	5534	7919	5316	72	76	70.99	-2992	1377	670	531	139.64	4.801		
7723	5534	7942	5316	73	76	70.99	-3009	1393	670	530	140.68	4.766		
7800	5534	8019	5315	74	78	71.00	-3063	1447	671	527	144.12	4.653		
7823	5533	8042	5315	75	79	71.01	-3080	1463	671	526	145.17	4.620		
7900	5533	8119	5315	77	80	71.01	-3134	1517	671	522	148.63	4.514		
7923	5533	8142	5315	77	81	71.02	-3151	1534	671	521	149.67	4.483		
8000	5532	8219	5314	79	83	71.03	-3206	1588	671	518	153.14	4.383		
8023	5532	8242	5314	80	83	71.03	-3222	1604	671	517	154.19	4.353		
8100	5532	8319	5314	81	85	71.04	-3277	1658	671	514	157.67	4.258		
8123	5532	8342	5313	82	86	71.04	-3293	1674	671	513	158.72	4.230		
8200	5531	8419	5313	84	87	71.05	-3348	1728	672	509	162.21	4.141		
8223	5531	8442	5313	84	88	71.05	-3364	1744	672	508	163.27	4.114		
8300	5531	8519	5312	86	90	71.06	-3419	1798	672	505	166.76	4.029		
8323	5530	8542	5312	87	90	71.06	-3435	1815	672	504	167.82	4.004		
8400	5530	8619	5312	88	92	71.07	-3490	1869	672	501	171.33	3.923		
8423	5530	8642	5312	89	93	71.07	-3507	1885	672	500	172.38	3.899		
8500	5529	8719	5311	91	94	71.08	-3561	1939	672	496	175.90	3.823		
8523	5529	8742	5311	91	95	71.09	-3578	1955	672	495	176.96	3.800		
8600	5529	8819	5311	93	97	71.09	-3632	2009	673	492	180.47	3.727		
8623	5529	8842	5311	94	97	71.10	-3649	2026	673	491	181.54	3.706		
8700	5528	8919	5310	96	99	71.11	-3704	2080	673	488	185.06	3.636		
8723	5528	8942	5310	96	100	71.11	-3720	2096	673	487	186.13	3.616		
8800	5527	9019	5310	98	102	71.12	-3775	2150	673	483	189.66	3.549		
8823	5527	9042	5309	99	102	71.12	-3791	2166	673	482	190.72	3.530		
8900	5527	9119	5309	100	104	71.13	-3846	2220	673	479	194.26	3.466		
8923	5527	9142	5309	101	105	71.13	-3862	2236	673	478	195.33	3.448		
9000	5526	9219	5308	103	106	71.14	-3917	2290	674	475	198.87	3.387		
9023	5526	9242	5308	103	107	71.14	-3933	2307	674	474	199.93	3.369		
9100	5526	9319	5308	105	109	71.15	-3988	2361	674	470	203.48	3.312		
9123	5525	9342	5308	106	109	71.15	-4005	2377	674	469	204.55	3.295		
9200	5525	9419	5307	108	111	71.16	-4059	2431	674	466	208.10	3.239		
9223	5525	9442	5307	108	112	71.16	-4076	2447	674	465	209.17	3.223		
9300	5524	9519	5307	110	114	71.17	-4130	2501	674	462	212.73	3.170		
9323	5524	9542	5307	111	114	71.18	-4147	2517	674	461	213.80	3.154		
9400	5524	9619	5306	113	116	71.18	-4201	2571	675	457	217.36	3.104		
9423	5524	9642	5306	113	116	71.19	-4218	2588	675	456	218.43	3.089		
9500	5523	9719	5306	115	118	71.20	-4273	2642	675	453	221.99	3.040		
9523	5523	9742	5305	115	119	71.20	-4289	2658	675	452	223.07	3.026		
9600	5522	9819	5305	117	121	71.21	-4344	2712	675	448	226.63	2.979		
9623	5522	9842	5305	118	121	71.21	-4360	2728	675	447	227.71	2.965		
9700	5522	9919	5304	120	123	71.22	-4415	2782	675	444	231.27	2.920		
9723	5522	9942	5304	120	124	71.22	-4431	2799	675	443	232.35	2.907		
9800	5521	10,019	5304	122	126	71.23	-4486	2853	676	440	235.92	2.864		
9823	5521	10,042	5304	123	126	71.23	-4503	2869	676	439	237.00	2.851		
9900	5521	10,119	5303	125	128	71.24	-4557	2923	676	435	240.57	2.809		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 540H - 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 Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
9923	5520	10,142	5303	125	129	71.24	-4574	2939	676	434	241.65	2.797			
10,000	5520	10,219	5303	127	130	71.25	-4628	2993	676	431	245.23	2.757			
10,023	5520	10,242	5303	128	131	71.25	-4645	3009	676	430	246.31	2.745			
10,100	5519	10,319	5302	130	133	71.26	-4699	3063	676	426	249.89	2.706			
10,123	5519	10,342	5302	130	133	71.27	-4716	3080	676	425	250.97	2.695			
10,200	5519	10,419	5302	132	135	71.27	-4771	3134	677	422	254.55	2.658			
10,223	5519	10,442	5301	133	136	71.28	-4787	3150	677	421	255.63	2.647			
10,300	5518	10,519	5301	134	138	71.29	-4842	3204	677	418	259.22	2.611			
10,323	5518	10,542	5301	135	138	71.29	-4858	3220	677	417	260.30	2.600			
10,400	5518	10,619	5300	137	140	71.30	-4913	3274	677	413	263.89	2.566			
10,423	5517	10,642	5300	137	141	71.30	-4929	3291	677	412	264.97	2.555			
10,500	5517	10,719	5300	139	143	71.31	-4984	3345	677	409	268.56	2.522			
10,523	5517	10,742	5300	140	143	71.31	-5000	3361	677	408	269.64	2.512			
10,600	5516	10,819	5299	142	145	71.32	-5055	3415	678	404	273.23	2.480			
10,623	5516	10,842	5299	142	146	71.32	-5072	3431	678	403	274.32	2.470			
10,700	5516	10,919	5299	144	147	71.33	-5126	3485	678	400	277.91	2.439			
10,723	5516	10,942	5299	145	148	71.33	-5143	3501	678	399	278.99	2.430			
10,800	5515	11,019	5298	147	150	71.34	-5197	3555	678	395	282.59	2.399			
10,823	5515	11,042	5298	147	150	71.34	-5214	3572	678	394	283.67	2.390			
10,900	5514	11,119	5298	149	152	71.35	-5269	3626	678	391	287.27	2.361			
10,923	5514	11,142	5297	150	153	71.36	-5285	3642	678	390	288.36	2.352			
11,000	5514	11,219	5297	151	155	71.36	-5340	3696	679	387	291.96	2.324			
11,023	5514	11,242	5297	152	155	71.37	-5356	3712	679	386	293.04	2.316			
11,100	5513	11,319	5296	154	157	71.37	-5411	3766	679	382	296.64	2.288			
11,123	5513	11,342	5296	154	158	71.38	-5427	3782	679	381	297.73	2.280			
11,200	5513	11,419	5296	156	160	71.39	-5482	3836	679	378	301.33	2.253			
11,223	5512	11,442	5296	157	160	71.39	-5498	3853	679	377	302.42	2.245			
11,300	5512	11,519	5295	159	162	71.40	-5553	3907	679	373	306.02	2.220			
11,323	5512	11,542	5295	159	163	71.40	-5570	3923	679	372	307.11	2.212			
11,400	5511	11,619	5295	161	164	71.41	-5624	3977	680	369	310.72	2.187			
11,423	5511	11,642	5295	162	165	71.41	-5641	3993	680	368	311.80	2.179			
11,500	5511	11,719	5294	164	167	71.42	-5695	4047	680	364	315.41	2.155			
11,523	5511	11,742	5294	164	168	71.42	-5712	4064	680	363	316.50	2.148			
11,600	5510	11,819	5294	166	169	71.43	-5767	4118	680	360	320.11	2.124			
11,605	5510	11,823	5294	166	170	71.43	-5770	4121	680	360	320.34	2.123			
11,621	5510	11,840	5293	167	170	71.43	-5782	4132	680	359	321.10	2.118 SF			

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 550H - 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		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-41.65	45	-40	60					
100	100	100	100	0	0	-41.65	45	-40	60	59	0.62	97.184		
200	200	200	200	1	1	-41.65	45	-40	60	59	1.33	44.936		
300	300	300	300	1	1	-41.65	45	-40	60	58	2.05	29.225		
350	350	350	350	1	1	-41.65	45	-40	60	58	2.41	24.876 CC		
400	400	400	400	1	1	153.79	44	-40	60	57	2.75	21.863 ES		
500	500	501	501	2	2	152.13	41	-42	62	59	3.42	18.147		
600	600	602	601	2	2	149.12	35	-45	66	62	4.12	16.056		
700	699	702	701	2	2	145.41	26	-50	73	68	4.85	14.964		
800	798	801	800	3	3	143.22	16	-55	82	76	5.60	14.603 SF		
900	897	900	898	3	3	142.75	6	-60	94	88	6.38	14.724		
939	935	939	937	3	3	142.91	3	-62	99	93	6.69	14.860		
1000	995	999	997	4	4	143.35	-3	-66	108	101	7.17	15.101		
1100	1092	1098	1095	4	4	143.94	-13	-71	123	115	7.97	15.419		
1200	1190	1197	1193	5	4	144.40	-23	-76	138	129	8.78	15.666		
1300	1288	1296	1292	5	5	144.78	-32	-81	152	143	9.59	15.863		
1400	1386	1395	1390	6	5	145.09	-42	-86	167	156	10.41	16.023		
1500	1484	1494	1488	6	6	145.35	-52	-91	181	170	11.23	16.155		
1600	1582	1593	1587	7	6	145.57	-61	-97	196	184	12.05	16.265		
1700	1680	1692	1685	7	6	145.76	-71	-102	211	198	12.87	16.359		
1800	1778	1791	1783	8	7	145.92	-81	-107	225	212	13.70	16.440		
1900	1876	1890	1881	8	7	146.07	-90	-112	240	225	14.53	16.510		
2000	1974	1989	1980	9	8	146.20	-100	-117	254	239	15.36	16.571		
2100	2071	2088	2078	9	8	146.31	-110	-123	269	253	16.19	16.625		
2200	2169	2186	2176	10	8	146.41	-119	-128	284	267	17.02	16.673		
2300	2267	2285	2275	10	9	146.50	-129	-133	298	280	17.85	16.716		
2400	2365	2384	2373	11	9	146.59	-139	-138	313	294	18.68	16.754		
2500	2463	2483	2471	11	10	146.67	-148	-143	328	308	19.51	16.789		
2600	2561	2582	2570	12	10	146.74	-158	-149	342	322	20.35	16.821		
2700	2659	2681	2668	12	11	146.80	-168	-154	357	336	21.18	16.849		
2800	2757	2780	2766	13	11	146.86	-177	-159	371	349	22.01	16.876		
2900	2855	2879	2865	13	11	146.91	-187	-164	386	363	22.85	16.900		
3000	2952	2978	2963	14	12	146.96	-197	-169	401	377	23.68	16.922		
3100	3050	3077	3061	15	12	147.01	-207	-174	415	391	24.52	16.943		
3200	3148	3176	3160	15	13	147.05	-216	-180	430	405	25.35	16.962		
3300	3246	3275	3258	16	13	147.10	-226	-185	445	418	26.19	16.979		
3400	3344	3374	3356	16	13	147.13	-236	-190	459	432	27.02	16.996		
3500	3442	3472	3454	17	14	147.17	-245	-195	474	446	27.86	17.011		
3600	3540	3571	3553	17	14	147.20	-255	-200	489	460	28.70	17.025		
3700	3638	3670	3651	18	15	147.24	-265	-206	503	474	29.53	17.039		
3800	3736	3769	3749	18	15	147.27	-274	-211	518	487	30.37	17.052		
3900	3833	3868	3848	19	15	147.29	-284	-216	532	501	31.20	17.063		
4000	3931	3967	3946	19	16	147.32	-294	-221	547	515	32.04	17.075		
4100	4029	4066	4044	20	16	147.35	-303	-226	562	529	32.88	17.085		
4200	4127	4165	4143	20	17	147.37	-313	-232	576	543	33.71	17.095		
4300	4225	4264	4241	21	17	147.39	-323	-237	591	556	34.55	17.105		
4400	4323	4363	4339	21	18	147.42	-332	-242	606	570	35.39	17.114		
4500	4421	4462	4438	22	18	147.44	-342	-247	620	584	36.23	17.122		
4600	4519	4561	4536	22	18	147.46	-352	-252	635	598	37.06	17.130		
4700	4617	4660	4634	23	19	147.48	-361	-258	650	612	37.90	17.138		
4800	4715	4758	4732	24	19	147.49	-371	-263	664	625	38.74	17.145		
4900	4812	4837	4810	24	20	147.51	-379	-267	679	640	39.40	17.240		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 550H - 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			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		
5000	4910	4880	4853	25	20	147.51	-381	-272	701	661	39.63	17.686		
5100	5008	4921	4894	25	20	147.50	-381	-278	730	690	39.64	18.413		
5193	5099	4950	4922	26	20	147.50	-380	-284	763	724	39.33	19.402		
5200	5106	4950	4922	26	20	149.19	-380	-284	766	727	39.26	19.514		
5250	5154	4979	4950	26	20	157.08	-377	-291	789	750	39.33	20.058		
5300	5201	5000	4970	26	20	161.33	-375	-297	817	778	39.29	20.806		
5350	5247	5000	4970	27	20	163.82	-375	-297	851	812	38.83	21.905		
5400	5290	5023	4992	27	20	165.34	-372	-305	888	849	38.93	22.805		
5450	5331	5050	5017	28	20	166.22	-368	-314	929	890	39.14	23.731		
5500	5369	5050	5017	28	20	166.45	-368	-314	972	933	38.85	25.023		
5550	5404	5050	5017	29	20	165.99	-368	-314	1018	980	38.63	26.358		
5600	5436	5050	5017	29	20	164.36	-368	-314	1066	1027	38.47	27.710		
5650	5464	5050	5017	30	20	159.73	-368	-314	1115	1077	38.37	29.057		
5700	5488	5050	5017	31	20	138.48	-368	-314	1165	1126	38.34	30.381		
5750	5508	5050	5017	31	20	28.20	-368	-314	1215	1176	38.36	31.668		
5800	5524	5050	5017	32	20	6.63	-368	-314	1264	1226	38.43	32.905		
5850	5536	5050	5017	33	20	1.67	-368	-314	1314	1275	38.54	34.084		
5900	5543	5050	5017	34	20	-0.47	-368	-314	1362	1323	38.69	35.199		
5950	5545	5050	5017	35	20	-1.66	-368	-314	1409	1370	38.88	36.242		
5955	5545	5050	5017	35	20	-1.76	-368	-314	1414	1375	38.90	36.354		
6000	5545	5050	5017	36	20	-1.76	-368	-314	1455	1416	39.08	37.245		
6100	5544	5050	5017	37	20	-1.76	-368	-314	1549	1509	39.44	39.274		
6200	5543	5024	4993	39	20	-2.02	-372	-305	1642	1603	39.36	41.719		
6300	5543	5000	4970	41	20	-2.24	-375	-297	1737	1697	39.30	44.192		
6400	5542	5000	4970	43	20	-2.24	-375	-297	1831	1792	39.57	46.283		
6500	5542	5000	4970	45	20	-2.24	-375	-297	1926	1886	39.80	48.400		
6600	5541	5000	4970	47	20	-2.24	-375	-297	2022	1982	40.01	50.538		
6700	5540	5000	4970	49	20	-2.24	-375	-297	2118	2078	40.19	52.694		
6800	5540	5000	4970	52	20	-2.24	-375	-297	2214	2174	40.36	54.864		
6900	5539	4979	4950	54	20	-2.41	-377	-291	2310	2270	40.27	57.366		
7000	5539	4974	4945	56	20	-2.45	-378	-290	2407	2366	40.36	59.629		
7100	5538	4950	4922	58	20	-2.63	-380	-284	2504	2464	40.24	62.223		
7200	5537	4950	4922	60	20	-2.63	-380	-284	2601	2561	40.37	64.421		
7300	5537	4950	4922	63	20	-2.63	-380	-284	2698	2658	40.50	66.627		
7400	5536	4950	4922	65	20	-2.63	-380	-284	2795	2755	40.61	68.838		
7500	5535	4950	4922	67	20	-2.63	-380	-284	2893	2852	40.71	71.054		
7600	5535	4950	4922	70	20	-2.63	-380	-284	2991	2950	40.81	73.273		
7700	5534	4950	4922	72	20	-2.63	-380	-284	3088	3048	40.91	75.496		
7800	5534	4950	4922	74	20	-2.63	-380	-284	3186	3145	41.00	77.720		
7900	5533	4950	4922	77	20	-2.63	-380	-284	3284	3243	41.08	79.945		
8000	5532	4950	4922	79	20	-2.63	-380	-284	3383	3341	41.17	82.171		
8100	5532	4950	4922	81	20	-2.63	-380	-284	3481	3440	41.24	84.397		
8200	5531	4950	4922	84	20	-2.63	-380	-284	3579	3538	41.32	86.622		
8300	5531	4950	4922	86	20	-2.63	-380	-284	3678	3636	41.39	88.846		
8400	5530	4950	4922	88	20	-2.63	-380	-284	3776	3735	41.47	91.069		
8500	5529	4927	4900	91	20	-2.77	-381	-279	3874	3833	41.35	93.689		
8600	5529	4925	4898	93	20	-2.79	-381	-279	3973	3932	41.41	95.946		
8700	5528	4923	4896	96	20	-2.80	-381	-279	4072	4030	41.46	98.200		
8800	5527	4900	4873	98	20	-2.93	-381	-274	4171	4130	41.35	100.866		
8900	5527	4900	4873	100	20	-2.93	-381	-274	4270	4228	41.42	103.081		
9000	5526	4900	4873	103	20	-2.93	-381	-274	4368	4327	41.49	105.292		
9100	5526	4900	4873	105	20	-2.93	-381	-274	4467	4426	41.55	107.499		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - # 550H - 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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9200	5525	4900	4873	108	20	-2.93	-381	-274	4566	4524	41.62	109.703	
9300	5524	4900	4873	110	20	-2.93	-381	-274	4665	4623	41.69	111.903	
9400	5524	4900	4873	113	20	-2.93	-381	-274	4764	4722	41.75	114.099	
9500	5523	4900	4873	115	20	-2.93	-381	-274	4863	4821	41.82	116.290	
9600	5522	4900	4873	117	20	-2.93	-381	-274	4962	4920	41.88	118.477	
9700	5522	4900	4873	120	20	-2.93	-381	-274	5061	5019	41.94	120.659	
9800	5521	4900	4873	122	20	-2.93	-381	-274	5160	5118	42.01	122.835	
9900	5521	4900	4873	125	20	-2.93	-381	-274	5259	5217	42.07	125.007	
10,000	5520	4900	4873	127	20	-2.93	-381	-274	5358	5316	42.13	127.173	
10,100	5519	4900	4873	130	20	-2.93	-381	-274	5458	5415	42.20	129.334	
10,200	5519	4900	4873	132	20	-2.93	-381	-274	5557	5515	42.26	131.488	
10,300	5518	4900	4873	134	20	-2.93	-381	-274	5656	5614	42.32	133.637	
10,400	5518	4900	4873	137	20	-2.93	-381	-274	5755	5713	42.39	135.780	
10,500	5517	4900	4873	139	20	-2.93	-381	-274	5855	5812	42.45	137.917	
10,600	5516	4900	4873	142	20	-2.93	-381	-274	5954	5911	42.51	140.048	
10,700	5516	4900	4873	144	20	-2.93	-381	-274	6053	6011	42.58	142.172	
10,800	5515	4900	4873	147	20	-2.93	-381	-274	6153	6110	42.64	144.290	
10,900	5514	4900	4873	149	20	-2.93	-381	-274	6252	6209	42.71	146.401	
11,000	5514	4900	4873	151	20	-2.93	-381	-274	6352	6309	42.77	148.505	
11,100	5513	4900	4873	154	20	-2.93	-381	-274	6451	6408	42.83	150.603	
11,200	5513	4900	4873	156	20	-2.93	-381	-274	6550	6508	42.90	152.694	
11,300	5512	4900	4873	159	20	-2.93	-381	-274	6650	6607	42.96	154.778	
11,400	5511	4900	4873	161	20	-2.93	-381	-274	6749	6706	43.03	156.854	
11,500	5511	4900	4873	164	20	-2.93	-381	-274	6849	6806	43.10	158.924	
11,600	5510	4900	4873	166	20	-2.93	-381	-274	6948	6905	43.16	160.986	
11,621	5510	4900	4873	167	20	-2.93	-381	-274	6969	6926	43.18	161.420	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - Lybrook Com 191H - OH - OH													Offset Site Error: 0 ft	
Survey Program: 491-MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0 ft	
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	Warning	
0	0	0	0	0	0	87.84	200	5292	5297					
100	100	0	0	0	0	87.84	200	5292	5295	5295	0.31	N/A		
109	109	0	0	0	0	87.84	200	5292	5295	5295	0.34	N/A		
200	200	79	79	1	0	87.84	200	5292	5296	5295	0.75	7,015.869		
300	300	10,367	5430	1	138	165.99	-576	144	5272	5230	42.28	124.697		
350	350	10,367	5430	1	138	165.99	-576	144	5222	5180	42.34	123.357		
400	400	10,367	5430	1	138	1.94	-576	144	5173	5130	42.39	122.017		
500	500	10,367	5430	2	138	2.99	-576	144	5073	5031	42.49	119.381		
600	600	10,367	5430	2	138	6.46	-576	144	4973	4931	42.57	116.816		
700	699	10,367	5430	2	138	141.66	-576	144	4873	4831	42.62	114.336		
800	798	10,367	5430	3	138	174.88	-576	144	4773	4731	42.64	111.943		
900	897	10,367	5430	3	138	177.25	-576	144	4673	4631	42.62	109.640		
939	935	10,367	5430	3	138	177.67	-576	144	4634	4592	42.61	108.768		
1000	995	10,367	5430	4	138	177.67	-576	144	4574	4531	42.58	107.407		
1100	1092	10,367	5430	4	138	177.67	-576	144	4474	4432	42.55	105.160		
1200	1190	10,367	5430	5	138	177.67	-576	144	4375	4332	42.51	102.902		
1300	1288	10,367	5430	5	138	177.67	-576	144	4275	4233	42.48	100.636		
1400	1386	10,367	5430	6	138	177.67	-576	144	4176	4133	42.45	98.362		
1500	1484	10,367	5430	6	138	177.67	-576	144	4076	4034	42.42	96.080		
1600	1582	10,367	5430	7	138	177.67	-576	144	3977	3934	42.40	93.791		
1700	1680	10,367	5430	7	138	177.67	-576	144	3877	3835	42.38	91.496		
1800	1778	10,367	5430	8	138	177.67	-576	144	3778	3735	42.36	89.194		
1900	1876	10,367	5430	8	138	177.67	-576	144	3678	3636	42.34	86.887		
2000	1974	10,367	5430	9	138	177.67	-576	144	3579	3537	42.32	84.574		
2100	2071	10,367	5430	9	138	177.67	-576	144	3480	3438	42.31	82.255		
2200	2169	10,367	5430	10	138	177.67	-576	144	3381	3338	42.29	79.930		
2300	2267	10,367	5430	10	138	177.67	-576	144	3281	3239	42.29	77.600		
2400	2365	10,367	5430	11	138	177.67	-576	144	3182	3140	42.28	75.263		
2500	2463	10,367	5430	11	138	177.67	-576	144	3083	3041	42.28	72.919		
2600	2561	10,367	5430	12	138	177.67	-576	144	2984	2942	42.29	70.568		
2700	2659	10,367	5430	12	138	177.67	-576	144	2885	2843	42.30	68.208		
2800	2757	10,367	5430	13	138	177.67	-576	144	2786	2744	42.32	65.838		
2900	2855	10,367	5430	13	138	177.67	-576	144	2687	2645	42.35	63.457		
3000	2952	10,367	5430	14	138	177.67	-576	144	2589	2546	42.39	61.063		
3100	3050	10,367	5430	15	138	177.67	-576	144	2490	2448	42.45	58.654		
3200	3148	10,367	5430	15	138	177.67	-576	144	2391	2349	42.53	56.228		
3300	3246	10,367	5430	16	138	177.67	-576	144	2293	2250	42.64	53.781		
3400	3344	10,367	5430	16	138	177.67	-576	144	2195	2152	42.78	51.310		
3500	3442	10,367	5430	17	138	177.67	-576	144	2097	2054	42.95	48.813		
3600	3540	10,367	5430	17	138	177.67	-576	144	1999	1956	43.19	46.284		
3700	3638	10,365	5430	18	138	177.90	-576	146	1901	1858	43.47	43.730		
3800	3736	10,359	5430	18	138	178.68	-576	152	1804	1760	43.82	41.162		
3900	3833	10,353	5430	19	138	179.48	-576	157	1707	1662	44.28	38.543		
4000	3931	10,347	5430	19	138	-179.73	-576	163	1610	1565	44.88	35.871		
4100	4029	10,342	5430	20	138	-178.92	-576	169	1513	1468	45.66	33.144		
4200	4127	10,336	5430	20	138	-178.12	-575	175	1417	1371	46.68	30.362		
4300	4225	10,330	5430	21	137	-177.31	-575	181	1322	1274	48.01	27.533		
4400	4323	10,324	5430	21	137	-176.49	-575	187	1227	1177	49.75	24.668		
4500	4421	10,318	5430	22	137	-175.67	-575	193	1133	1081	52.01	21.791		
4600	4519	10,312	5430	22	137	-174.85	-574	199	1041	986	54.97	18.934		
4700	4617	10,307	5430	23	137	-174.15	-574	204	949	891	58.83	16.140		
4800	4715	10,299	5430	24	137	-173.06	-574	212	860	796	63.82	13.476		

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - Lybrook Com 191H - OH - OH												Offset Site Error:	0 ft
Survey Program: 491-MWD												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4900	4812	10,292	5430	24	136	-172.01	-574	219	773	703	70.32	10.996	
5000	4910	10,284	5430	25	136	-171.01	-574	226	690	611	78.73	8.764	
5100	5008	10,278	5431	25	136	-170.03	-573	233	612	522	89.47	6.837	
5193	5099	10,271	5431	26	136	-169.17	-573	239	545	444	101.77	5.359	
5200	5106	10,271	5431	26	136	-167.82	-573	240	541	438	102.84	5.257	
5250	5154	10,266	5431	26	136	-161.56	-573	245	510	400	110.65	4.613	
5300	5201	10,257	5431	26	135	-157.79	-573	254	487	368	119.06	4.088	
5350	5247	10,245	5431	27	135	-154.68	-572	266	470	343	127.50	3.689	
5400	5290	10,230	5431	27	135	-151.53	-572	281	462	327	135.28	3.415	
5425	5311	10,221	5431	27	134	-149.85	-572	290	461	322	138.71	3.324 CC	
5450	5331	10,211	5431	28	134	-148.02	-572	300	462	320	141.80	3.259	
5452	5333	10,210	5431	28	134	-147.85	-572	300	462	320	142.06	3.254 ES	
5500	5369	10,189	5431	28	134	-143.99	-572	321	470	323	146.71	3.204 SF	
5550	5404	10,165	5431	29	133	-139.33	-571	346	485	335	149.98	3.235	
5600	5436	10,138	5431	29	132	-133.99	-571	373	506	354	151.84	3.334	
5650	5464	10,110	5431	30	131	-128.11	-571	400	532	380	152.67	3.486	
5700	5488	10,080	5431	31	131	-121.66	-571	431	562	409	152.78	3.678	
5750	5508	10,048	5431	31	130	-114.84	-571	463	594	442	152.45	3.897	
5800	5524	10,014	5431	32	129	-107.95	-572	497	628	476	151.90	4.134	
5850	5536	9977	5431	33	128	-101.26	-572	534	663	512	151.22	4.383	
5900	5543	9939	5432	34	127	-95.15	-573	572	698	547	150.56	4.635	
5950	5545	9903	5432	35	126	-89.74	-573	608	733	583	149.98	4.887	
5955	5545	9899	5432	35	126	-89.20	-573	612	737	587	149.92	4.914	
6000	5545	9867	5432	36	125	-89.27	-574	643	768	618	149.45	5.138	
6100	5544	9795	5433	37	123	-89.44	-575	716	838	689	148.44	5.643	
6200	5543	9721	5434	39	121	-89.61	-576	790	907	760	147.49	6.150	
6300	5543	9641	5436	41	119	-89.80	-578	870	976	830	146.51	6.665	
6400	5542	9555	5437	43	116	-89.94	-581	955	1045	899	145.51	7.181	
6500	5542	9476	5438	45	114	-90.05	-585	1034	1113	968	144.70	7.689	
6600	5541	9408	5439	47	112	-90.13	-588	1103	1180	1036	144.11	8.190	
6700	5540	9336	5441	49	110	-90.24	-591	1174	1248	1105	143.51	8.698	
6800	5540	9259	5442	52	108	-90.35	-594	1251	1316	1173	142.89	9.212	
6900	5539	9199	5443	54	107	-90.39	-596	1311	1384	1242	142.51	9.714	
7000	5539	9111	5445	56	104	-90.48	-600	1399	1452	1311	141.81	10.242	
7100	5538	9051	5446	58	102	-90.55	-603	1459	1520	1379	141.47	10.747	
7200	5537	9003	5447	60	101	-90.58	-604	1507	1590	1448	141.27	11.252	
7300	5537	8956	5447	63	100	-90.59	-604	1554	1660	1519	141.05	11.768	
7400	5536	8893	5448	65	98	-90.61	-604	1617	1731	1590	140.69	12.301	
7500	5535	8814	5448	67	96	-90.64	-604	1696	1801	1661	140.23	12.846	
7600	5535	8750	5449	70	94	-90.66	-604	1760	1872	1732	139.90	13.383	
7700	5534	8697	5450	72	93	-90.67	-604	1813	1944	1804	139.64	13.918	
7800	5534	8638	5450	74	91	-90.68	-604	1872	2015	1876	139.36	14.462	
7900	5533	8596	5451	77	90	-90.70	-603	1914	2088	1948	139.16	15.001	
8000	5532	8558	5452	79	89	-90.74	-602	1951	2161	2022	138.96	15.550	
8100	5532	8450	5456	81	86	-90.87	-598	2060	2234	2096	138.50	16.131	
8200	5531	8351	5459	84	84	-90.94	-596	2159	2306	2168	138.06	16.705	
8300	5531	8236	5461	86	80	-90.99	-596	2273	2377	2240	137.53	17.285	
8400	5530	8182	5463	88	79	-91.03	-597	2328	2448	2310	137.33	17.824	
8500	5529	8055	5466	91	76	-91.11	-599	2455	2518	2381	136.74	18.411	
8600	5529	7954	5469	93	73	-91.16	-602	2555	2587	2450	136.29	18.979	
8700	5528	7874	5470	96	71	-91.17	-605	2635	2655	2519	135.97	19.524	
8800	5527	7806	5471	98	69	-91.19	-607	2703	2723	2587	135.74	20.059	

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 # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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: M24 2307 Pad - Lybrook Com 191H - OH - OH											Offset Site Error:	0 ft
Survey Program: 491-MWD											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
8900	5527	7755	5472	100	67	-91.21	-609	2755	2791	2656	135.61	20.583
9000	5526	7688	5474	103	66	-91.23	-611	2821	2860	2725	135.40	21.126
9100	5526	7615	5475	105	64	-91.25	-613	2894	2929	2794	135.15	21.675
9200	5525	7560	5476	108	62	-91.26	-614	2950	2999	2864	135.01	22.211
9300	5524	7499	5478	110	61	-91.29	-616	3011	3068	2933	134.84	22.755
9400	5524	7434	5480	113	59	-91.32	-617	3075	3138	3003	134.65	23.304
9500	5523	7370	5482	115	57	-91.35	-618	3139	3208	3073	134.47	23.855
9600	5522	7311	5483	117	56	-91.37	-618	3198	3278	3144	134.32	24.405
9700	5522	7249	5484	120	54	-91.38	-619	3260	3348	3214	134.16	24.959
9800	5521	7161	5487	122	52	-91.41	-620	3348	3419	3285	133.90	25.531
9900	5521	7093	5489	125	50	-91.44	-621	3416	3489	3355	133.73	26.088
10,000	5520	7029	5491	127	48	-91.45	-621	3480	3559	3426	133.58	26.643
10,100	5519	6939	5493	130	46	-91.48	-622	3570	3629	3496	133.35	27.216
10,200	5519	6833	5495	132	43	-91.50	-624	3676	3699	3566	133.08	27.797
10,300	5518	6724	5498	134	41	-91.53	-627	3784	3768	3635	132.80	28.372
10,400	5518	6685	5499	137	40	-91.53	-629	3824	3837	3704	132.79	28.893
10,500	5517	6651	5500	139	39	-91.54	-629	3858	3906	3773	132.78	29.416
10,600	5516	6625	5500	142	38	-91.55	-630	3884	3976	3844	132.79	29.945
10,700	5516	6600	5501	144	37	-91.55	-630	3909	4048	3915	132.78	30.482
10,800	5515	6542	5503	147	36	-91.57	-629	3967	4119	3987	132.72	31.039
10,900	5514	6380	5507	149	32	-91.59	-629	4129	4190	4057	132.51	31.620
11,000	5514	6283	5509	151	30	-91.61	-631	4225	4260	4127	132.45	32.160
11,100	5513	6206	5511	154	28	-91.62	-632	4303	4330	4197	132.46	32.685
11,200	5513	6087	5513	156	26	-91.63	-635	4421	4398	4266	132.52	33.190
11,300	5512	6026	5514	159	25	-91.62	-637	4483	4467	4335	132.65	33.679
11,400	5511	5947	5510	161	23	-91.55	-639	4562	4537	4404	132.85	34.149
11,500	5511	5877	5502	164	22	-91.39	-641	4631	4605	4472	133.09	34.603
11,600	5510	5804	5485	166	21	-91.08	-642	4702	4674	4541	133.43	35.033
11,621	5510	5798	5483	167	21	-91.05	-642	4708	4689	4556	133.47	35.131

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



Lonestar Consulting, LLC

Anticollision Report

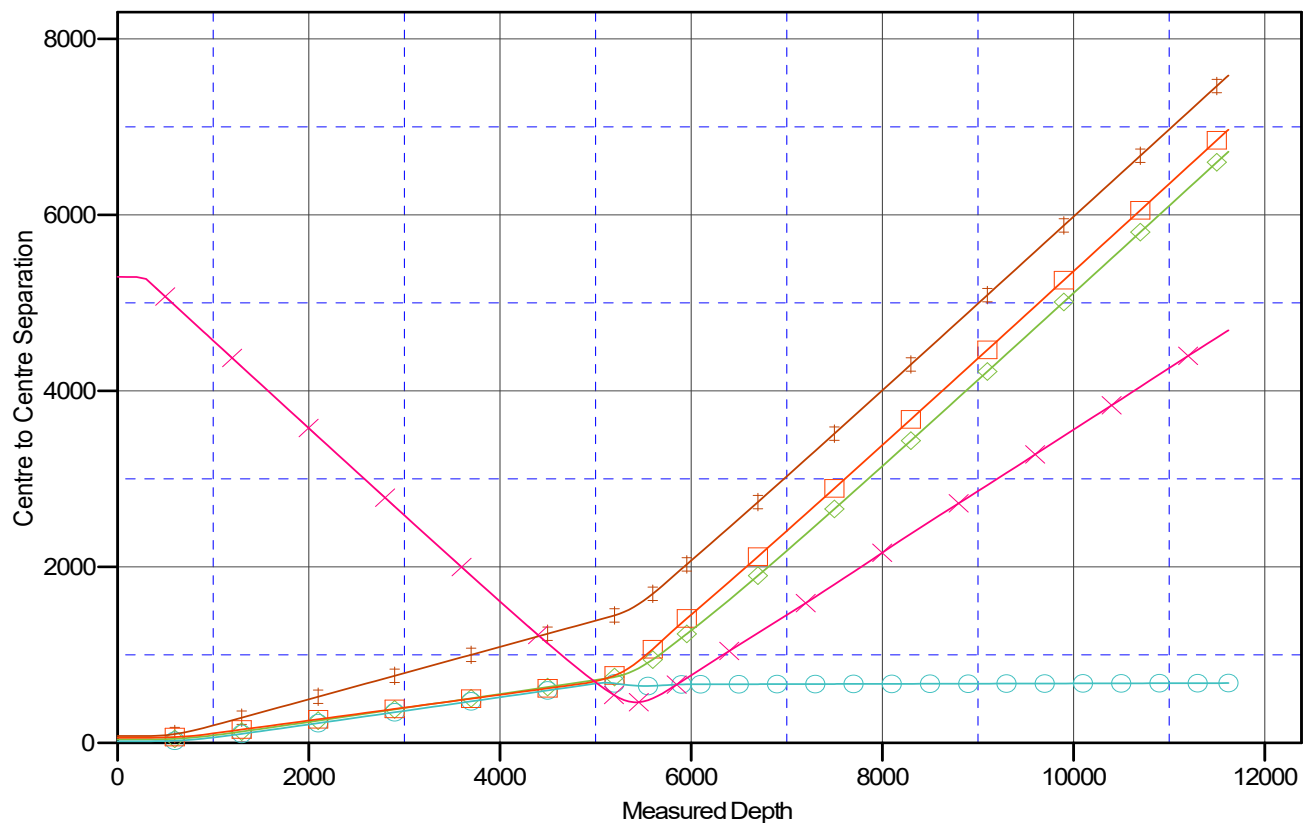


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	Survey Calculation Method:	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 7121' & RKB 14' @ 7135ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 201H - Slot 1
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.18°

Ladder Plot



LEGEND

203H Original Drilling, APD Rev 1 V0
 # 540H Original Drilling, APD Rev 1 V0
 Lybrook Qm 191H OH, OHV0

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 201H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 201H	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 7121' & RKB 14' @ 7135ft

Offset Depths are relative to Offset Datum

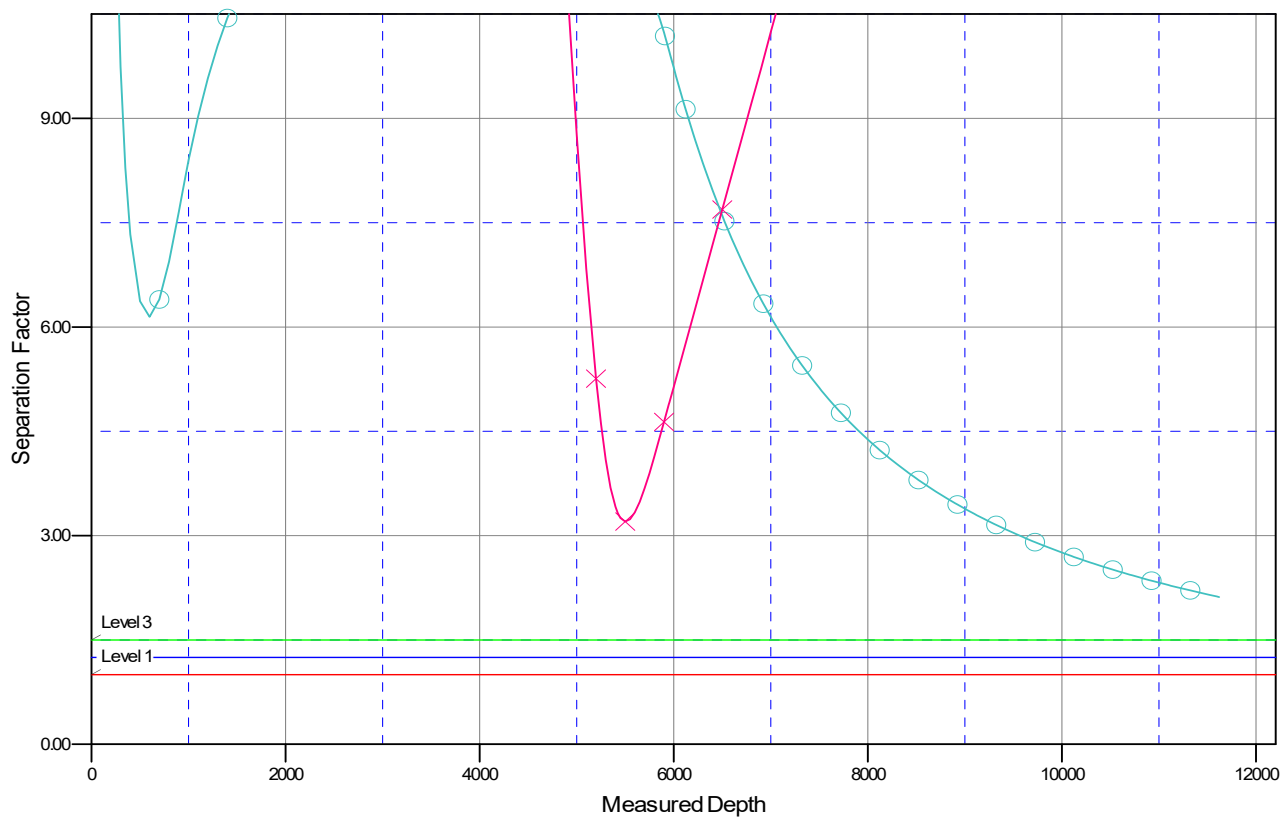
Central Meridian is -107.8333333

Coordinates are relative to: # 201H - Slot 1

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

Grid Convergence at Surface is: 0.18°

Separation Factor Plot



LEGEND

203HOriginalDrilling.APDRev1 V0
 # 540HOriginalDrilling.APDRev1 V0
 LjbrookQm191HOH.QH.V0

205HOriginalDrilling.APDRev1 V0
 # 550HOriginalDrilling.APDRev1 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
#201H NORTH ALAMITO UNIT
Lease: NMNM 028747 Agreement: NMNM 135229A
SH: SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T. 23N., R. 7W.
Sandoval County, New Mexico
BH: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25, T. 23N., R. 7W.
Sandoval 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. 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.
- L. 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.
- M. **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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 496077

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 496077
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 496077

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 496077
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	8/14/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	8/14/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/8/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/8/2025
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.	9/8/2025
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.	9/8/2025
ward.rikala	Operator can not produce this well until they are in compliance with Rule 5.9.	9/8/2025