

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. 9. API Well No. 30-043-21534
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration
24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/25/2025

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 1013 FSL / 334 FWL / TWSP: 23N / RANGE: 7W / SECTION: 24 / LAT: 36.207036 / LONG: -107.534787 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 1743 FSL / 330 FEL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.209074 / LONG: -107.537074 (TVD: 5568 feet, MD: 5857 feet)
PPP: SENW / 1482 FNL / 2605 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.214596 / LONG: -107.544865 (TVD: 5592 feet, MD: 10753 feet)
PPP: SWNE / 2591 FNL / 1311 FEL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.211459 / LONG: -107.540438 (TVD: 5592 feet, MD: 10753 feet)
BHL: NWNW / 330 FNL / 1263 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.217846 / LONG: -107.549452 (TVD: 5592 feet, MD: 10753 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 30-043-21534	Pool Code 98174	Pool Name ALAMITO N; MANCOS (OIL)
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 203H
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		1013' SOUTH	334' WEST	36.207036° N	107.534787° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	23	23N	7W		330' NORTH	1263' WEST	36.217846° N	107.549452° W	SANDOVAL

Dedicated Acres SEC 23: NE/SE, NW/SE, SE/NE, SW/NE, NW/NE, SE/NW, NE/NW & NW/NW = 320 ACRES	PENETRATED SPACING UNIT:	Infill or Defining Well INFILL	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
I	23	23N	7W		1743' SOUTH	330' EAST	36.209074° N	107.537074° W	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
I	23	23N	8W		1743' SOUTH	330' EAST	36.209074° N	107.537074° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
D	23	23N	7W		330' NORTH	1263' WEST	36.217846° N	107.549452° 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

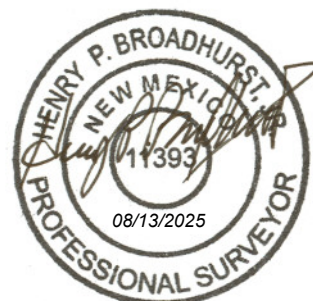
8/13/2025
Date

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

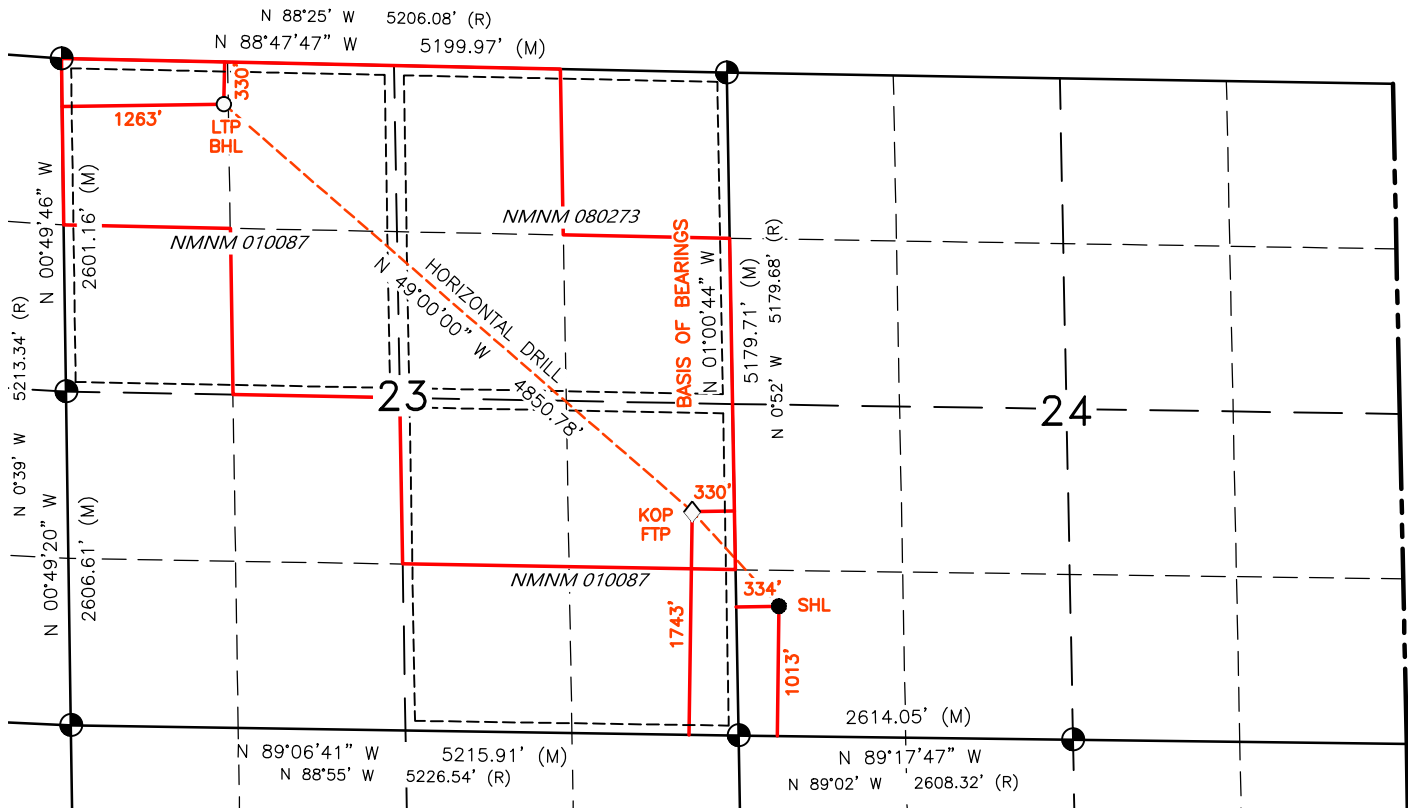
11393

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



SURFACE LOCATION (SHL)

1013' FSL 334' FWL
SEC. 24, T23N, R7W
LAT. 36.207036° N (NAD83)
LONG. 107.534787° W (NAD83)

KICK OFF POINT (KOP)

1743' FSL 330' FEL
SEC. 23, T23N, R7W
LAT. 36.209074° N (NAD83)
LONG. 107.537074° W (NAD83)

FIRST TAKE POINT (FTP)

1743' FSL 330' FEL
SEC. 23, T23N, R7W
LAT. 36.209074° N (NAD83)
LONG. 107.537074° W (NAD83)

LAST TAKE POINT (LTP)

330' FNL 1263' FWL
SEC. 23, T23N, R7W
LAT. 36.217846° N (NAD83)
LONG. 107.549452° W (NAD83)

BOTTOM HOLE LOCATION (BHL)

330' FNL 1263' FWL
SEC. 23, T23N, R7W
LAT. 36.217846° N (NAD83)
LONG. 107.549452° 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 #203H

Sandoval County, New Mexico

Surface Location

334-ft FWL & 1013-ft FSL
 Sec 24 T23N R7W
 Graded Elevation 7121' MSL
 RKB Elevation 7135' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2070360° N
 Longitude 107.5347870° W

Kick Off Point for Horizontal Build Curve

5102-ft MD
 5078-ft TVD

Local Coordinates (from SHL)

378-ft North
 275-ft West

Heel Location (Pay zone entry)

330-ft FEL & 1743-ft FSL
 Sec 23 T23N R7W

Heel Geographical Coordinates (NAD-83)

Latitude 36.209074° N
 Longitude 107.53707400° W

Bottom Hole Location (TD)

1263-ft FWL & 330-ft FNL
 Sec 23 T23N R7W

BHL Geographical Coordinates (NAD-83)

Latitude 36.217846° N
 Longitude 107.5494520° W

Well objectives

This well is planned as a 4850-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 145°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	1362	1358	Sd	W	8.3	8.4 – 8.8
Kirtland	1538	1533	Sh	-	8.3	8.4 – 8.8
Fruitland	1743	1737	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1984	1977	Sd	W	8.3	9.0 - 9.5
Lewis	2098	2090	Sh	-		9.0 - 9.5
Chacra	2829	2817	Sd	-	8.3	9.0 - 9.5
Menefee	3514	3499	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4325	4305	Sd	-	8.3	9.0 - 9.5
Mancos	4470	4450	Sh	-		9.0 - 9.5
Mancos Silt	4841	4819	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5347	5309	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5391	5345	Sd	O/G	6.6	8.8 -9.0
Gallup C	5536	5450	Sd	O/G	6.6	8.8 -9.0
Target	5903	5570	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	5857	surf	5568	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5707	10753	5532	5592	5707

Note: all casing will be new



Rev 1

Casing Design Load Cases

Description		Casing String		
		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

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

Cement Design9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
Type	American	American
Planned top	I/II	Poz/G
Density (ppg)	Surface	4470-ft
Yield (cf/sx)	12.30	13.50
Mix water (gal/sx)	2.34	1.51
Volume (sx)	13.22	7.13
Volume (bbls)	496	144
Volume (cu.ft.)	207	39
Excess %	1161	218
	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5707-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.53
Volume (bbls)	437
Volume (cu.ft)	118
Excess %	664
	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 – 5857	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5857 – 10753	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

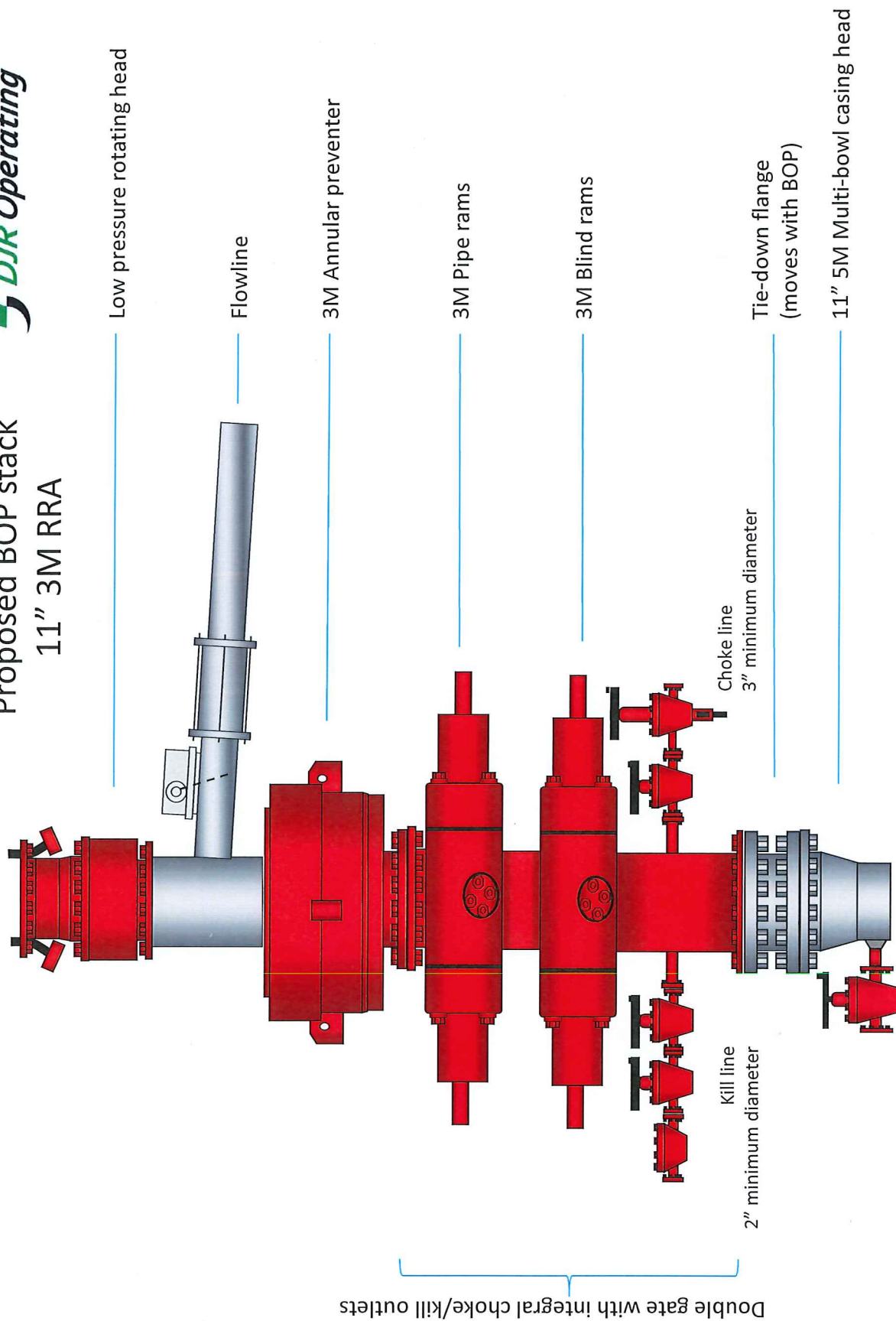
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



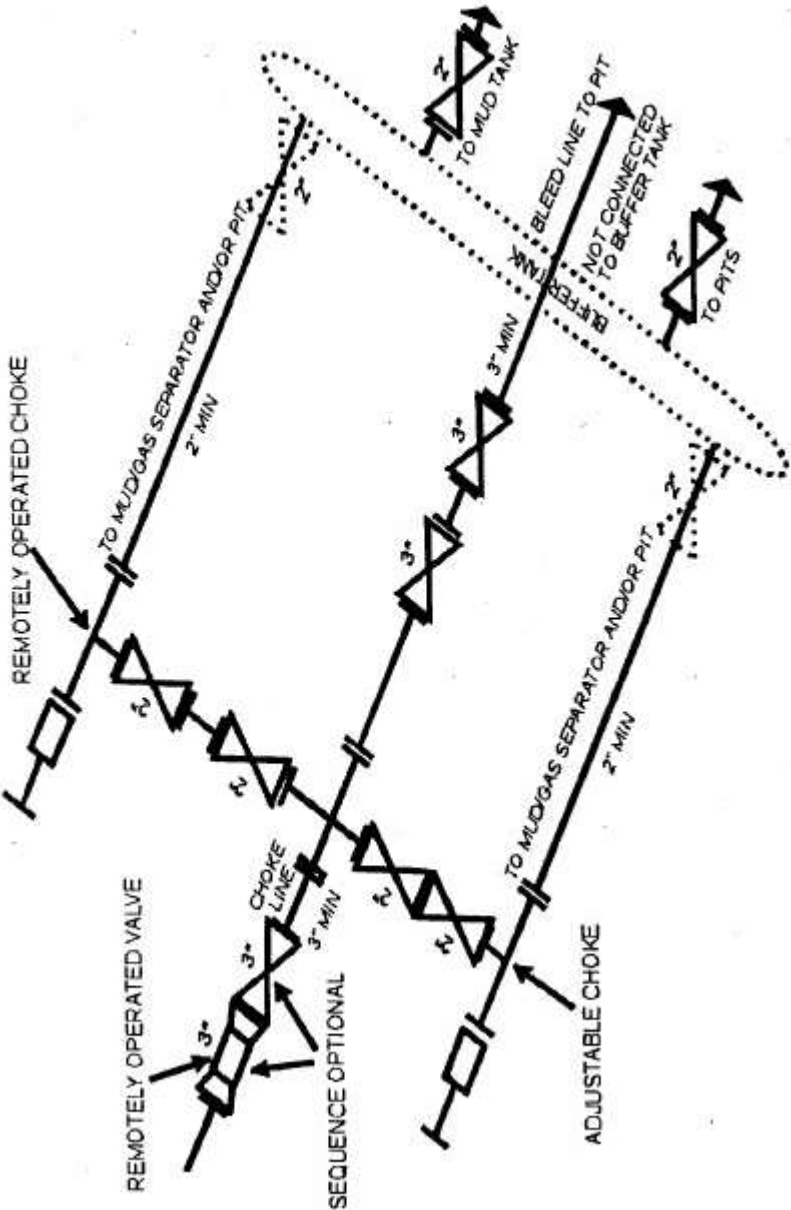
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: North Alamito Unit
Site: M24 2307 Pad
Well: # 203H
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: # 203H

GL 7121' & RKB 14' @ 7135ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1894794.24	2811166.63	36.20703600	-107.53478700

Plan: APD Rev 1 (# 203H/Original Drilling)

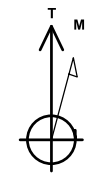
Created By: Janie Collins Date: 14:41, September 01 2023

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
203H Heel	5570	742	-675	1895534.04	2810489.67	36.20907400	-107.53707400
203H Toe Rev1	5592	3935	-4326	1898716.32	2806828.74	36.21784600	-107.54945200

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
641	5.82	323.94	641	12	-9	2.00	323.94	14
5102	5.82	323.94	5078	378	-275	0.00	0.00	458
5903	89.74	311.18	5570	742	-675	10.50	-12.83	998
10753	89.74	311.18	5592	3935	-4326	0.00	0.00	5848



Azimuths to True North
Magnetic North: 10.5°

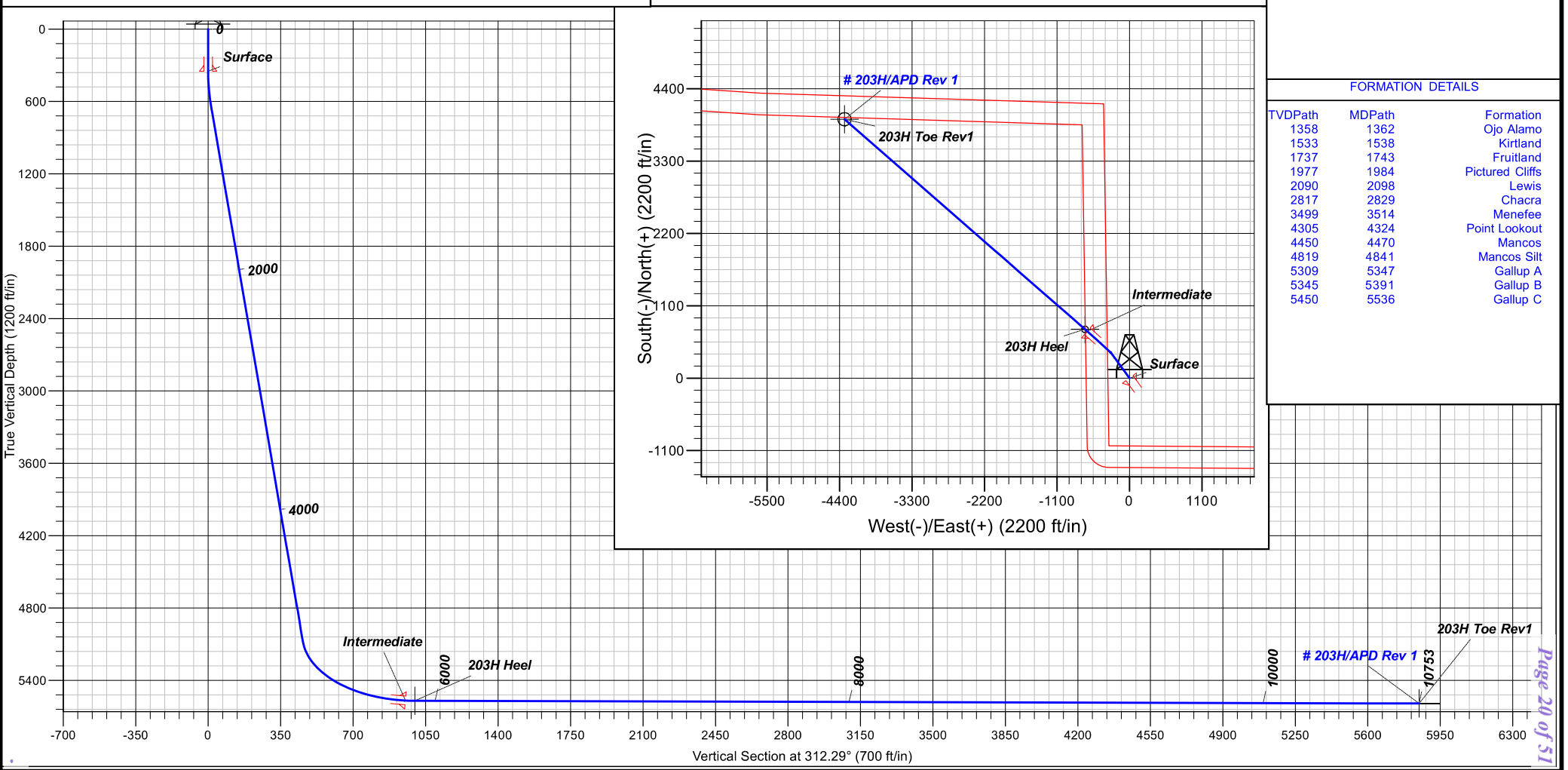
Magnetic Field
Strength: 51242.5 nT
Dip Angle: 63.2°
Date: 12/31/2004
Model: IGRF2000

CASING DETAILS

TVD	MD	Name
350	350	Surface
5568	5857	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1358	1362	Ojo Alamo
1533	1538	Kirtland
1737	1743	Fruitland
1977	1984	Pictured Cliffs
2090	2098	Lewis
2817	2829	Chacra
3499	3514	Menefee
4305	4324	Point Lookout
4450	4470	Mancos
4819	4841	Mancos Silt
5309	5347	Gallup A
5345	5391	Gallup B
5450	5536	Gallup C



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Received by OCB: 9/8/2023 4:1:33 PM

Page 20 of 51



DJR Operating

North Alamito Unit

M24 2307 Pad

203H - Slot 5

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 # 203H - Slot 5
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:	# 203H	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	# 203H - Slot 5					
Well Position	+N/-S	0 ft	Northing:	1,894,794.24 usft	Latitude:	36.20703600
	+E/-W	0 ft	Easting:	2,811,166.64 usft	Longitude:	-107.53478700
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	51,242.30624227

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	312.29

Plan Survey Tool Program	Date	9/1/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	10,753	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	
641	5.82	323.94	641	12	-9	2.00	2.00	0.00	323.94	
5102	5.82	323.94	5078	378	-275	0.00	0.00	0.00	0.00	
5903	89.74	311.18	5570	742	-675	10.50	10.48	-1.59	-12.83	203H Heel
10,753	89.74	311.18	5592	3935	-4326	0.00	0.00	0.00	0.00	203H Toe Rev1



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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	323.94	400	0	0	0	2.00	2.00	0.00
500	3.00	323.94	500	3	-2	4	2.00	2.00	0.00
600	5.00	323.94	600	9	-6	11	2.00	2.00	0.00
641	5.82	323.94	641	12	-9	14	2.00	2.00	0.00
700	5.82	323.94	699	17	-12	20	0.00	0.00	0.00
800	5.82	323.94	799	25	-18	30	0.00	0.00	0.00
900	5.82	323.94	898	33	-24	40	0.00	0.00	0.00
1000	5.82	323.94	998	41	-30	50	0.00	0.00	0.00
1100	5.82	323.94	1097	50	-36	60	0.00	0.00	0.00
1200	5.82	323.94	1197	58	-42	70	0.00	0.00	0.00
1300	5.82	323.94	1296	66	-48	80	0.00	0.00	0.00
1400	5.82	323.94	1396	74	-54	90	0.00	0.00	0.00
1500	5.82	323.94	1495	82	-60	100	0.00	0.00	0.00
1600	5.82	323.94	1595	91	-66	110	0.00	0.00	0.00
1700	5.82	323.94	1694	99	-72	120	0.00	0.00	0.00
1800	5.82	323.94	1794	107	-78	130	0.00	0.00	0.00
1900	5.82	323.94	1893	115	-84	140	0.00	0.00	0.00
2000	5.82	323.94	1992	123	-90	149	0.00	0.00	0.00
2100	5.82	323.94	2092	132	-96	159	0.00	0.00	0.00
2200	5.82	323.94	2191	140	-102	169	0.00	0.00	0.00
2300	5.82	323.94	2291	148	-108	179	0.00	0.00	0.00
2400	5.82	323.94	2390	156	-114	189	0.00	0.00	0.00
2500	5.82	323.94	2490	164	-120	199	0.00	0.00	0.00
2600	5.82	323.94	2589	173	-126	209	0.00	0.00	0.00
2700	5.82	323.94	2689	181	-132	219	0.00	0.00	0.00
2800	5.82	323.94	2788	189	-138	229	0.00	0.00	0.00
2900	5.82	323.94	2888	197	-144	239	0.00	0.00	0.00
3000	5.82	323.94	2987	205	-150	249	0.00	0.00	0.00
3100	5.82	323.94	3087	214	-156	259	0.00	0.00	0.00
3200	5.82	323.94	3186	222	-162	269	0.00	0.00	0.00
3300	5.82	323.94	3286	230	-167	279	0.00	0.00	0.00
3400	5.82	323.94	3385	238	-173	289	0.00	0.00	0.00
3500	5.82	323.94	3485	246	-179	299	0.00	0.00	0.00
3600	5.82	323.94	3584	255	-185	308	0.00	0.00	0.00
3700	5.82	323.94	3684	263	-191	318	0.00	0.00	0.00
3800	5.82	323.94	3783	271	-197	328	0.00	0.00	0.00
3900	5.82	323.94	3883	279	-203	338	0.00	0.00	0.00
4000	5.82	323.94	3982	287	-209	348	0.00	0.00	0.00
4100	5.82	323.94	4082	296	-215	358	0.00	0.00	0.00
4200	5.82	323.94	4181	304	-221	368	0.00	0.00	0.00
4300	5.82	323.94	4281	312	-227	378	0.00	0.00	0.00
4400	5.82	323.94	4380	320	-233	388	0.00	0.00	0.00
4500	5.82	323.94	4480	328	-239	398	0.00	0.00	0.00
4600	5.82	323.94	4579	337	-245	408	0.00	0.00	0.00
4700	5.82	323.94	4679	345	-251	418	0.00	0.00	0.00
4800	5.82	323.94	4778	353	-257	428	0.00	0.00	0.00
4900	5.82	323.94	4878	361	-263	438	0.00	0.00	0.00
5000	5.82	323.94	4977	369	-269	448	0.00	0.00	0.00
5100	5.82	323.94	5076	378	-275	457	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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)
5102	5.82	323.94	5078	378	-275	458	0.00	0.00	0.00
5200	16.02	315.67	5175	391	-288	476	10.50	10.40	-8.43
5300	26.50	313.76	5268	417	-313	512	10.50	10.48	-1.91
5400	36.99	312.88	5353	453	-352	565	10.50	10.49	-0.88
5500	47.49	312.35	5427	498	-401	632	10.50	10.49	-0.53
5600	57.98	311.98	5487	552	-460	711	10.50	10.50	-0.38
5700	68.48	311.68	5532	611	-526	801	10.50	10.50	-0.30
5800	78.98	311.42	5560	675	-598	896	10.50	10.50	-0.26
5900	89.47	311.18	5570	740	-673	996	10.50	10.50	-0.24
5903	89.74	311.18	5570	742	-675	998	10.50	10.50	-0.24
6000	89.74	311.18	5570	806	-748	1096	0.00	0.00	0.00
6100	89.74	311.18	5571	872	-823	1196	0.00	0.00	0.00
6200	89.74	311.18	5571	938	-899	1296	0.00	0.00	0.00
6300	89.74	311.18	5572	1004	-974	1396	0.00	0.00	0.00
6400	89.74	311.18	5572	1069	-1049	1496	0.00	0.00	0.00
6500	89.74	311.18	5573	1135	-1124	1596	0.00	0.00	0.00
6600	89.74	311.18	5573	1201	-1200	1696	0.00	0.00	0.00
6700	89.74	311.18	5574	1267	-1275	1796	0.00	0.00	0.00
6800	89.74	311.18	5574	1333	-1350	1896	0.00	0.00	0.00
6900	89.74	311.18	5575	1399	-1425	1996	0.00	0.00	0.00
7000	89.74	311.18	5575	1464	-1501	2096	0.00	0.00	0.00
7100	89.74	311.18	5575	1530	-1576	2196	0.00	0.00	0.00
7200	89.74	311.18	5576	1596	-1651	2296	0.00	0.00	0.00
7300	89.74	311.18	5576	1662	-1727	2395	0.00	0.00	0.00
7400	89.74	311.18	5577	1728	-1802	2495	0.00	0.00	0.00
7500	89.74	311.18	5577	1794	-1877	2595	0.00	0.00	0.00
7600	89.74	311.18	5578	1859	-1952	2695	0.00	0.00	0.00
7700	89.74	311.18	5578	1925	-2028	2795	0.00	0.00	0.00
7800	89.74	311.18	5579	1991	-2103	2895	0.00	0.00	0.00
7900	89.74	311.18	5579	2057	-2178	2995	0.00	0.00	0.00
8000	89.74	311.18	5580	2123	-2253	3095	0.00	0.00	0.00
8100	89.74	311.18	5580	2189	-2329	3195	0.00	0.00	0.00
8200	89.74	311.18	5580	2254	-2404	3295	0.00	0.00	0.00
8300	89.74	311.18	5581	2320	-2479	3395	0.00	0.00	0.00
8400	89.74	311.18	5581	2386	-2555	3495	0.00	0.00	0.00
8500	89.74	311.18	5582	2452	-2630	3595	0.00	0.00	0.00
8600	89.74	311.18	5582	2518	-2705	3695	0.00	0.00	0.00
8700	89.74	311.18	5583	2584	-2780	3795	0.00	0.00	0.00
8800	89.74	311.18	5583	2649	-2856	3895	0.00	0.00	0.00
8900	89.74	311.18	5584	2715	-2931	3995	0.00	0.00	0.00
9000	89.74	311.18	5584	2781	-3006	4095	0.00	0.00	0.00
9100	89.74	311.18	5584	2847	-3081	4195	0.00	0.00	0.00
9200	89.74	311.18	5585	2913	-3157	4295	0.00	0.00	0.00
9300	89.74	311.18	5585	2979	-3232	4395	0.00	0.00	0.00
9400	89.74	311.18	5586	3044	-3307	4495	0.00	0.00	0.00
9500	89.74	311.18	5586	3110	-3382	4595	0.00	0.00	0.00
9600	89.74	311.18	5587	3176	-3458	4695	0.00	0.00	0.00
9700	89.74	311.18	5587	3242	-3533	4795	0.00	0.00	0.00
9800	89.74	311.18	5588	3308	-3608	4895	0.00	0.00	0.00
9900	89.74	311.18	5588	3374	-3684	4995	0.00	0.00	0.00
10,000	89.74	311.18	5589	3439	-3759	5095	0.00	0.00	0.00
10,100	89.74	311.18	5589	3505	-3834	5195	0.00	0.00	0.00
10,200	89.74	311.18	5589	3571	-3909	5295	0.00	0.00	0.00
10,300	89.74	311.18	5590	3637	-3985	5395	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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	89.74	311.18	5590	3703	-4060	5495	0.00	0.00	0.00	
10,500	89.74	311.18	5591	3769	-4135	5595	0.00	0.00	0.00	
10,600	89.74	311.18	5591	3835	-4210	5695	0.00	0.00	0.00	
10,700	89.74	311.18	5592	3900	-4286	5795	0.00	0.00	0.00	
10,753	89.74	311.18	5592	3935	-4326	5848	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										
203H Heel	0.00	0.00	5570	742	-675	1,895,534.05	2,810,489.67	36.20907400	-107.53707400	
- plan hits target center										
- Circle (radius 50)										
203H Toe Rev1	0.00	0.00	5592	3935	-4326	1,898,716.33	2,806,828.75	36.21784600	-107.54945200	
- plan hits target center										
- Circle (radius 100)										

Casing Points										
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)						
350	350	Surface	9.63	12.25						
5857	5568	Intermediate	7.00	8.75						

Formations										
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)					
1362	1358	Ojo Alamo		0.00	0.00					
1538	1533	Kirtland		0.00	0.00					
1743	1737	Fruitland		0.00	0.00					
1984	1977	Pictured Cliffs		0.00	0.00					
2098	2090	Lewis		0.00	0.00					
2829	2817	Chacra		0.00	0.00					
3514	3499	Menefee		0.00	0.00					
4324	4305	Point Lookout		0.00	0.00					
4470	4450	Mancos		0.00	0.00					
4841	4819	Mancos Silt		0.00	0.00					
5347	5309	Gallup A		0.00	0.00					
5391	5345	Gallup B		0.00	0.00					
5536	5450	Gallup C		0.00	0.00					



DJR Operating

North Alamito Unit

M24 2307 Pad

203H

Original Drilling

APD Rev 1

Anticollision Report

01 September, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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	10,753	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						
# 201H - Original Drilling - APD Rev 1	350	350	80	78	35.436	CC, ES
# 201H - Original Drilling - APD Rev 1	641	631	108	103	25.163	SF
# 205H - Original Drilling - APD Rev 1	350	350	38	36	15.950	CC, ES
# 205H - Original Drilling - APD Rev 1	10,753	11,646	1291	995	4.363	SF
# 540H - Original Drilling - APD Rev 1	350	350	60	58	24.876	CC, ES
# 540H - Original Drilling - APD Rev 1	600	596	76	72	18.387	SF
# 550H - Original Drilling - APD Rev 1	350	350	20	18	8.292	CC, ES
# 550H - Original Drilling - APD Rev 1	10,753	11,120	691	412	2.476	SF
Lybrook Com 190H - OH - OH	5300	10,570	499	424	6.678	SF
Lybrook Com 190H - OH - OH	5400	10,570	478	410	7.033	ES
Lybrook Com 190H - OH - OH	5416	10,570	477	411	7.198	CC

Offset Design: M24 2307 Pad - # 201H - 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		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Major Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0	0	0	0	0	0	138.35	-60	53	80				
100	100	100	100	0	0	138.35	-60	53	80	79	0.46	172.783	
200	200	200	200	1	1	138.35	-60	53	80	79	1.18	67.748	
300	300	300	300	1	1	138.35	-60	53	80	78	1.90	42.134	
350	350	350	350	1	1	138.35	-60	53	80	78	2.25	35.436 CC, ES	
400	400	399	399	1	1	174.57	-60	53	81	78	2.60	31.035	
500	500	496	496	2	2	175.72	-63	54	87	84	3.29	26.531	
600	600	592	592	2	2	177.56	-70	56	100	96	3.99	25.175	
641	641	631	631	2	2	178.39	-73	57	108	103	4.28	25.163 SF	
700	699	687	686	2	2	179.57	-79	58	120	115	4.68	25.517	
800	799	780	779	3	3	-178.56	-91	62	142	137	5.36	26.502	
900	898	872	869	3	3	-176.89	-105	66	168	162	6.03	27.818	
1000	998	964	959	4	3	-175.41	-123	71	196	190	6.70	29.312	
1100	1097	1059	1052	4	4	-174.20	-141	76	226	219	7.40	30.512	
1200	1197	1155	1146	4	4	-173.27	-160	81	256	247	8.10	31.529	
1300	1296	1250	1239	5	5	-172.53	-179	87	285	276	8.81	32.355	

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 # 203H - Slot 5
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:	# 203H	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 - # 201H - 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	
1400	1396	1345	1333	5	5	-171.93	-198	92	315	305	9.52	33.055	
1500	1495	1441	1426	6	6	-171.43	-216	97	345	334	10.24	33.655	
1600	1595	1536	1520	6	6	-171.02	-235	102	374	363	10.95	34.173	
1700	1694	1632	1613	6	7	-170.66	-254	108	404	392	11.67	34.626	
1800	1794	1727	1707	7	7	-170.35	-273	113	434	421	12.39	35.024	
1900	1893	1823	1800	7	8	-170.09	-292	118	464	450	13.10	35.376	
2000	1992	1918	1893	8	8	-169.85	-310	123	493	479	13.82	35.690	
2100	2092	2014	1987	8	9	-169.64	-329	129	523	509	14.54	35.972	
2200	2191	2109	2080	8	9	-169.46	-348	134	553	538	15.26	36.227	
2300	2291	2204	2174	9	10	-169.29	-367	139	583	567	15.98	36.457	
2400	2390	2300	2267	9	10	-169.14	-385	144	612	596	16.70	36.667	
2500	2490	2395	2361	10	11	-169.00	-404	150	642	625	17.42	36.859	
2600	2589	2491	2454	10	11	-168.88	-423	155	672	654	18.15	37.035	
2700	2689	2586	2547	10	12	-168.76	-442	160	702	683	18.87	37.197	
2800	2788	2682	2641	11	12	-168.66	-460	165	732	712	19.59	37.347	
2900	2888	2777	2734	11	13	-168.56	-479	171	761	741	20.31	37.485	
3000	2987	2873	2828	12	13	-168.47	-498	176	791	770	21.04	37.614	
3100	3087	2968	2921	12	14	-168.39	-517	181	821	799	21.76	37.734	
3200	3186	3064	3015	12	14	-168.31	-536	186	851	828	22.48	37.845	
3300	3286	3159	3108	13	15	-168.24	-554	192	881	857	23.21	37.950	
3400	3385	3254	3201	13	15	-168.17	-573	197	911	887	23.93	38.048	
3500	3485	3350	3295	14	16	-168.11	-592	202	940	916	24.65	38.140	
3600	3584	3445	3388	14	16	-168.05	-611	207	970	945	25.38	38.226	
3700	3684	3541	3482	14	17	-167.99	-629	213	1000	974	26.10	38.308	
3800	3783	3636	3575	15	17	-167.94	-648	218	1030	1003	26.83	38.384	
3900	3883	3732	3669	15	18	-167.89	-667	223	1060	1032	27.55	38.457	
4000	3982	3827	3762	16	18	-167.85	-686	228	1089	1061	28.28	38.526	
4100	4082	3923	3856	16	19	-167.80	-704	234	1119	1090	29.00	38.591	
4200	4181	4018	3949	16	19	-167.76	-723	239	1149	1119	29.73	38.652	
4300	4281	4113	4042	17	20	-167.72	-742	244	1179	1148	30.45	38.711	
4400	4380	4209	4136	17	20	-167.68	-761	250	1209	1178	31.18	38.767	
4500	4480	4304	4229	18	21	-167.65	-779	255	1239	1207	31.90	38.820	
4600	4579	4400	4323	18	21	-167.61	-798	260	1268	1236	32.63	38.870	
4700	4679	4495	4416	19	22	-167.58	-817	265	1298	1265	33.36	38.919	
4800	4778	4591	4510	19	22	-167.55	-836	271	1328	1294	34.08	38.965	
4900	4878	4686	4603	19	23	-167.52	-855	276	1358	1323	34.81	39.009	
5000	4977	4782	4696	20	23	-167.49	-873	281	1388	1352	35.53	39.051	
5102	5078	4879	4792	20	24	-167.46	-892	286	1418	1382	36.27	39.092	
5150	5126	4924	4836	20	24	-160.78	-901	289	1434	1398	36.63	39.156	
5200	5175	4970	4881	21	24	-157.61	-910	291	1455	1418	37.00	39.320	
5250	5222	5013	4923	21	25	-155.34	-919	294	1479	1442	37.36	39.583	
5300	5268	5054	4963	21	25	-153.26	-927	296	1507	1469	37.72	39.943	
5350	5311	5093	5001	22	25	-151.10	-934	298	1537	1499	38.06	40.397	
5400	5353	5128	5036	22	25	-148.64	-941	300	1571	1533	38.38	40.938	
5450	5391	5160	5067	22	25	-145.72	-948	302	1608	1569	38.69	41.563	
5500	5427	5189	5095	23	25	-142.11	-953	304	1647	1608	38.97	42.267	
5550	5459	5200	5106	23	26	-137.07	-956	304	1689	1650	39.13	43.157	
5600	5487	5200	5106	24	26	-130.07	-956	304	1732	1693	39.20	44.186	
5650	5511	5200	5106	25	26	-120.86	-956	304	1777	1738	39.28	45.252	
5700	5532	5200	5106	25	26	-109.07	-956	304	1824	1784	39.35	46.339	
5750	5548	5200	5106	26	26	-94.98	-956	304	1871	1831	39.43	47.435	
5800	5560	5200	5106	27	26	-80.04	-956	304	1918	1878	39.52	48.525	

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 # 203H - Slot 5
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:	# 203H	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 - # 201H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			Minimum Separation (ft)		
5850	5567	5200	5106	28	26	-66.21	-956	304	1965	1925	39.61	49.599			
5903	5570	5200	5106	28	26	-54.27	-956	304	2014	1974	39.72	50.697			
6000	5570	5200	5106	30	26	-54.27	-956	304	2104	2064	39.93	52.693			
6100	5571	5200	5106	32	26	-54.27	-956	304	2197	2157	40.14	54.741			
6200	5571	5200	5106	34	26	-54.27	-956	304	2291	2250	40.34	56.791			
6300	5572	5193	5099	36	26	-53.81	-954	304	2385	2345	40.48	58.919			
6400	5572	5184	5090	38	25	-53.25	-952	303	2480	2439	40.60	61.070			
6500	5573	5167	5074	40	25	-52.23	-949	302	2575	2534	40.67	63.306			
6600	5573	5150	5057	42	25	-51.23	-946	301	2670	2629	40.73	65.550			
6700	5574	5134	5041	44	25	-50.25	-943	300	2765	2725	40.79	67.801			
6800	5574	5117	5025	47	25	-49.30	-939	300	2861	2820	40.84	70.059			
6900	5575	5100	5009	49	25	-48.36	-936	299	2957	2916	40.88	72.324			
7000	5575	5084	4992	51	25	-47.45	-933	298	3053	3012	40.93	74.596			
7100	5575	5067	4976	53	25	-46.56	-929	297	3149	3108	40.96	76.875			
7200	5576	5050	4960	56	25	-45.69	-926	296	3245	3204	41.00	79.160			
7300	5576	5034	4943	58	25	-44.83	-923	295	3342	3301	41.03	81.452			
7400	5577	5017	4927	60	25	-44.00	-920	294	3439	3397	41.06	83.751			
7500	5577	5001	4911	63	25	-43.19	-916	293	3535	3494	41.08	86.056			
7600	5578	4984	4895	65	24	-42.39	-913	292	3632	3591	41.10	88.366			
7700	5578	4967	4878	68	24	-41.62	-910	291	3729	3688	41.12	90.683			
7800	5579	4951	4862	70	24	-40.86	-907	290	3826	3785	41.14	93.005			
7900	5579	4934	4846	72	24	-40.12	-903	289	3923	3882	41.15	95.332			
8000	5580	4917	4829	75	24	-39.40	-900	289	4020	3979	41.16	97.664			
8100	5580	4901	4813	77	24	-38.70	-897	288	4117	4076	41.17	100.001			
8200	5580	4884	4797	80	24	-38.01	-893	287	4215	4173	41.18	102.342			
8300	5581	4867	4780	82	24	-37.34	-890	286	4312	4271	41.19	104.688			
8400	5581	4851	4764	85	24	-36.68	-887	285	4409	4368	41.19	107.038			
8500	5582	4834	4748	87	24	-36.04	-884	284	4507	4466	41.20	109.391			
8600	5582	4817	4732	89	24	-35.42	-880	283	4604	4563	41.20	111.748			
8700	5583	4801	4715	92	23	-34.81	-877	282	4702	4661	41.21	114.108			
8800	5583	4784	4699	94	23	-34.22	-874	281	4799	4758	41.21	116.471			
8900	5584	4767	4683	97	23	-33.64	-871	280	4897	4856	41.21	118.837			
9000	5584	4751	4666	99	23	-33.07	-867	279	4995	4954	41.21	121.205			
9100	5584	4734	4650	102	23	-32.51	-864	278	5092	5051	41.21	123.575			
9200	5585	4718	4634	104	23	-31.97	-861	278	5190	5149	41.21	125.947			
9300	5585	4701	4617	107	23	-31.44	-857	277	5288	5247	41.21	128.321			
9400	5586	4684	4601	109	23	-30.93	-854	276	5386	5345	41.21	130.697			
9500	5586	4668	4585	112	23	-30.42	-851	275	5484	5442	41.21	133.073			
9600	5587	4651	4569	114	23	-29.93	-848	274	5581	5540	41.21	135.451			
9700	5587	4634	4552	117	23	-29.45	-844	273	5679	5638	41.21	137.829			
9800	5588	4618	4536	119	22	-28.98	-841	272	5777	5736	41.20	140.207			
9900	5588	4601	4520	122	22	-28.52	-838	271	5875	5834	41.20	142.586			
10,000	5589	4584	4503	124	22	-28.07	-835	270	5973	5932	41.20	144.964			
10,100	5589	4568	4487	127	22	-27.63	-831	269	6071	6030	41.20	147.342			
10,200	5589	4551	4471	129	22	-27.20	-828	268	6169	6128	41.20	149.720			
10,300	5590	4534	4455	132	22	-26.78	-825	267	6267	6226	41.20	152.097			
10,400	5590	4518	4438	134	22	-26.37	-821	267	6365	6324	41.21	154.473			
10,500	5591	4501	4422	137	22	-25.96	-818	266	6463	6422	41.21	156.847			
10,600	5591	4484	4406	139	22	-25.57	-815	265	6561	6520	41.21	159.220			
10,700	5592	4468	4389	142	22	-25.18	-812	264	6659	6618	41.21	161.591			
10,753	5592	4459	4381	143	22	-24.98	-810	263	6712	6670	41.21	162.854			

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 # 203H - Slot 5
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:	# 203H	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	140.98	-30	24	38						
100	100	100	100	0	0	140.98	-30	24	38	38	0.62	62.311			
200	200	200	200	1	1	140.98	-30	24	38	37	1.33	28.812			
300	300	300	300	1	1	140.98	-30	24	38	36	2.05	18.738			
350	350	350	350	1	1	140.98	-30	24	38	36	2.41	15.950 CC, ES			
400	400	400	400	1	1	177.64	-30	24	39	36	2.76	14.160			
500	500	499	499	2	2	-178.19	-33	23	44	41	3.45	12.813			
600	600	597	597	2	2	-172.27	-40	20	55	51	4.16	13.227			
641	641	637	637	2	2	-169.90	-43	18	61	57	4.46	13.726			
700	699	694	693	2	2	-166.74	-49	16	71	66	4.87	14.616			
800	799	790	789	3	3	-161.90	-60	10	91	85	5.58	16.227			
900	898	885	882	3	3	-157.73	-75	3	113	107	6.29	17.945			
1000	998	978	973	4	4	-154.18	-92	-5	138	131	6.99	19.756			
1100	1097	1070	1062	4	4	-151.16	-112	-14	166	159	7.68	21.640			
1200	1197	1165	1155	4	5	-148.72	-133	-23	196	188	8.42	23.286			
1300	1296	1260	1247	5	5	-146.92	-154	-33	226	217	9.16	24.653			
1400	1396	1356	1339	5	6	-145.55	-175	-43	256	246	9.91	25.832			
1500	1495	1451	1432	6	6	-144.46	-197	-53	286	275	10.66	26.848			
1600	1595	1546	1524	6	7	-143.58	-218	-63	316	305	11.41	27.732			
1700	1694	1641	1616	6	7	-142.85	-239	-73	347	335	12.16	28.507			
1800	1794	1736	1708	7	8	-142.24	-260	-83	377	364	12.92	29.191			
1900	1893	1832	1801	7	8	-141.72	-282	-92	407	394	13.67	29.799			
2000	1992	1927	1893	8	9	-141.28	-303	-102	438	423	14.43	30.342			
2100	2092	2022	1985	8	9	-140.89	-324	-112	468	453	15.19	30.830			
2200	2191	2117	2078	8	10	-140.55	-345	-122	499	483	15.95	31.272			
2300	2291	2213	2170	9	11	-140.24	-367	-132	529	512	16.71	31.672			
2400	2390	2308	2262	9	11	-139.97	-388	-142	560	542	17.47	32.037			
2500	2490	2403	2354	10	12	-139.73	-409	-151	590	572	18.23	32.372			
2600	2589	2498	2447	10	12	-139.51	-430	-161	621	602	18.99	32.678			
2700	2689	2593	2539	10	13	-139.32	-452	-171	651	631	19.75	32.961			
2800	2788	2689	2631	11	13	-139.14	-473	-181	682	661	20.52	33.222			
2900	2888	2784	2724	11	14	-138.97	-494	-191	712	691	21.28	33.465			
3000	2987	2879	2816	12	14	-138.82	-515	-201	743	721	22.04	33.690			
3100	3087	2974	2908	12	15	-138.68	-537	-211	773	750	22.81	33.900			
3200	3186	3069	3000	12	16	-138.55	-558	-220	804	780	23.57	34.095			
3300	3286	3165	3093	13	16	-138.44	-579	-230	834	810	24.34	34.279			
3400	3385	3260	3185	13	17	-138.32	-600	-240	865	840	25.10	34.451			
3500	3485	3355	3277	14	17	-138.22	-622	-250	895	869	25.87	34.612			
3600	3584	3450	3370	14	18	-138.13	-643	-260	926	899	26.63	34.764			
3700	3684	3545	3462	14	18	-138.04	-664	-270	956	929	27.40	34.907			
3800	3783	3641	3554	15	19	-137.95	-685	-279	987	959	28.16	35.043			
3900	3883	3736	3646	15	19	-137.87	-707	-289	1017	989	28.93	35.171			
4000	3982	3831	3739	16	20	-137.80	-728	-299	1048	1018	29.70	35.292			
4100	4082	3926	3831	16	21	-137.73	-749	-309	1079	1048	30.46	35.407			
4200	4181	4022	3923	16	21	-137.66	-771	-319	1109	1078	31.23	35.516			
4300	4281	4117	4016	17	22	-137.60	-792	-329	1140	1108	32.00	35.620			
4400	4380	4212	4108	17	22	-137.54	-813	-339	1170	1137	32.76	35.719			
4500	4480	4307	4200	18	23	-137.48	-834	-348	1201	1167	33.53	35.813			
4600	4579	4402	4292	18	23	-137.42	-856	-358	1231	1197	34.30	35.903			
4700	4679	4498	4385	19	24	-137.37	-877	-368	1262	1227	35.06	35.988			
4800	4778	4593	4477	19	24	-137.32	-898	-378	1292	1257	35.83	36.070			
4900	4878	4688	4569	19	25	-137.28	-919	-388	1323	1286	36.60	36.148			

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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				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	4977	4783	4662	20	26	-137.23	-941	-398	1354	1316	37.37	36.223	
5102	5078	6252	5541	20	32	-104.77	-590	-1120	1366	1324	42.59	32.074	
5150	5126	6259	5541	20	32	-100.11	-586	-1126	1352	1308	43.46	31.107	
5200	5175	6271	5541	21	32	-98.80	-578	-1135	1339	1294	44.41	30.141	
5250	5222	6287	5542	21	32	-98.21	-567	-1147	1328	1282	45.42	29.225	
5300	5268	6307	5542	21	32	-97.71	-554	-1162	1318	1272	46.50	28.349	
5350	5311	6332	5542	22	32	-97.12	-538	-1181	1311	1263	47.67	27.500	
5400	5353	6360	5542	22	33	-96.38	-519	-1202	1305	1256	48.87	26.707	
5450	5391	6392	5542	22	33	-95.52	-498	-1226	1301	1251	50.10	25.969	
5500	5427	6428	5542	23	34	-94.55	-474	-1253	1298	1247	51.47	25.219	
5550	5459	6466	5543	23	34	-93.52	-449	-1282	1296	1243	52.87	24.520	
5600	5487	6508	5543	24	35	-92.49	-422	-1313	1295	1241	54.30	23.854	
5650	5511	6551	5543	25	35	-91.51	-393	-1346	1295	1239	55.71	23.246	
5662	5517	6562	5543	25	35	-91.29	-386	-1354	1295	1239	56.05	23.106	
5700	5532	6597	5543	25	36	-90.63	-363	-1380	1295	1238	57.38	22.570	
5702	5533	6599	5543	25	36	-90.59	-361	-1382	1295	1238	57.48	22.534	
5750	5548	6644	5543	26	37	-89.89	-332	-1416	1295	1236	59.05	21.937	
5800	5560	6693	5544	27	38	-89.33	-300	-1452	1296	1235	60.82	21.304	
5850	5567	6743	5544	28	38	-88.98	-267	-1489	1296	1233	62.61	20.698	
5862	5568	6754	5544	28	39	-88.94	-259	-1498	1296	1233	63.03	20.560	
5903	5570	6795	5544	28	39	-88.86	-232	-1529	1296	1231	64.55	20.078	
5981	5570	6873	5545	30	41	-88.87	-181	-1588	1296	1228	67.51	19.196	
6000	5570	6892	5545	30	41	-88.87	-168	-1602	1296	1228	68.24	18.991	
6080	5571	6973	5545	32	43	-88.87	-115	-1663	1296	1224	71.40	18.147	
6100	5571	6992	5545	32	43	-88.87	-102	-1677	1296	1224	72.18	17.951	
6180	5571	7073	5546	33	45	-88.87	-49	-1738	1296	1220	75.46	17.171	
6200	5571	7092	5546	34	45	-88.87	-36	-1753	1296	1219	76.26	16.990	
6280	5572	7173	5546	35	47	-88.88	17	-1813	1296	1216	79.63	16.270	
6300	5572	7192	5546	36	47	-88.88	30	-1828	1296	1215	80.45	16.104	
6380	5572	7273	5547	38	49	-88.88	83	-1888	1295	1212	83.90	15.441	
6400	5572	7292	5547	38	49	-88.88	96	-1903	1295	1211	84.74	15.288	
6480	5573	7373	5547	40	51	-88.88	149	-1963	1295	1207	88.25	14.678	
6500	5573	7392	5547	40	51	-88.88	161	-1978	1295	1206	89.11	14.537	
6580	5573	7473	5548	42	53	-88.89	214	-2039	1295	1203	92.68	13.976	
6600	5573	7492	5548	42	54	-88.89	227	-2053	1295	1202	93.55	13.846	
6680	5574	7573	5548	44	55	-88.89	280	-2114	1295	1198	97.17	13.329	
6700	5574	7592	5549	44	56	-88.89	293	-2129	1295	1197	98.05	13.209	
6780	5574	7673	5549	46	58	-88.89	346	-2189	1295	1193	101.71	12.733	
6800	5574	7692	5549	47	58	-88.90	359	-2204	1295	1192	102.60	12.622	
6880	5574	7773	5550	48	60	-88.90	412	-2264	1295	1189	106.30	12.182	
6900	5575	7792	5550	49	60	-88.90	425	-2279	1295	1188	107.20	12.080	
6980	5575	7873	5550	51	62	-88.90	478	-2340	1295	1184	110.93	11.673	
7000	5575	7892	5550	51	63	-88.90	491	-2354	1295	1183	111.83	11.578	
7081	5575	7973	5551	53	64	-88.91	544	-2415	1295	1179	115.59	11.201	
7100	5575	7992	5551	53	65	-88.91	557	-2429	1295	1178	116.50	11.113	
7181	5576	8073	5551	55	67	-88.91	610	-2490	1295	1174	120.29	10.762	
7200	5576	8092	5551	56	67	-88.91	623	-2505	1295	1173	121.21	10.681	
7281	5576	8173	5552	58	69	-88.91	676	-2565	1294	1169	125.01	10.355	
7300	5576	8192	5552	58	69	-88.91	689	-2580	1294	1169	125.94	10.279	
7381	5577	8273	5552	60	71	-88.92	742	-2640	1294	1165	129.76	9.975	
7400	5577	8292	5552	60	72	-88.92	755	-2655	1294	1164	130.69	9.904	
7481	5577	8373	5553	62	74	-88.92	808	-2716	1294	1160	134.53	9.620	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 203H - Slot 5
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:	# 203H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
7500	5577	8392	5553	63	74	-88.92	821	-2730	1294	1159	135.47	9.554	
7581	5578	8473	5553	65	76	-88.92	874	-2791	1294	1155	139.33	9.289	
7600	5578	8492	5553	65	77	-88.92	887	-2805	1294	1154	140.26	9.227	
7681	5578	8573	5554	67	78	-88.93	940	-2866	1294	1150	144.14	8.978	
7700	5578	8592	5554	68	79	-88.93	952	-2881	1294	1149	145.07	8.920	
7781	5579	8673	5554	70	81	-88.93	1006	-2941	1294	1145	148.96	8.687	
7800	5579	8692	5554	70	81	-88.93	1018	-2956	1294	1144	149.90	8.632	
7881	5579	8773	5555	72	83	-88.93	1071	-3016	1294	1140	153.80	8.412	
7900	5579	8792	5555	72	84	-88.94	1084	-3031	1294	1139	154.74	8.361	
7981	5579	8873	5555	74	86	-88.94	1137	-3092	1294	1135	158.65	8.154	
8000	5580	8892	5556	75	86	-88.94	1150	-3106	1294	1134	159.60	8.106	
8081	5580	8973	5556	77	88	-88.94	1203	-3167	1294	1130	163.52	7.911	
8100	5580	8992	5556	77	88	-88.94	1216	-3181	1294	1129	164.46	7.866	
8181	5580	9073	5557	79	90	-88.95	1269	-3242	1294	1125	168.39	7.681	
8200	5580	9092	5557	80	91	-88.95	1282	-3257	1293	1124	169.34	7.638	
8281	5581	9173	5557	82	93	-88.95	1335	-3317	1293	1120	173.28	7.464	
8300	5581	9192	5557	82	93	-88.95	1348	-3332	1293	1119	174.23	7.423	
8381	5581	9273	5558	84	95	-88.95	1401	-3392	1293	1115	178.17	7.259	
8400	5581	9292	5558	85	96	-88.95	1414	-3407	1293	1114	179.12	7.220	
8481	5582	9373	5558	87	98	-88.96	1467	-3468	1293	1110	183.08	7.064	
8500	5582	9392	5558	87	98	-88.96	1480	-3482	1293	1109	184.03	7.027	
8581	5582	9473	5559	89	100	-88.96	1533	-3543	1293	1105	187.99	6.878	
8600	5582	9492	5559	89	101	-88.96	1546	-3557	1293	1104	188.94	6.844	
8681	5583	9573	5559	91	103	-88.96	1599	-3618	1293	1100	192.91	6.703	
8700	5583	9592	5559	92	103	-88.96	1612	-3633	1293	1099	193.86	6.669	
8781	5583	9673	5560	94	105	-88.97	1665	-3693	1293	1095	197.83	6.535	
8800	5583	9692	5560	94	106	-88.97	1678	-3708	1293	1094	198.79	6.504	
8881	5583	9773	5560	96	107	-88.97	1731	-3768	1293	1090	202.76	6.376	
8900	5584	9792	5560	97	108	-88.97	1743	-3783	1293	1089	203.72	6.346	
8981	5584	9873	5561	99	110	-88.97	1797	-3844	1293	1085	207.70	6.224	
9000	5584	9892	5561	99	110	-88.98	1809	-3858	1293	1084	208.66	6.195	
9081	5584	9973	5561	101	112	-88.98	1862	-3919	1293	1080	212.64	6.078	
9100	5584	9992	5561	102	113	-88.98	1875	-3933	1293	1079	213.60	6.051	
9181	5585	10,073	5562	104	115	-88.98	1928	-3994	1292	1075	217.59	5.940	
9200	5585	10,092	5562	104	115	-88.98	1941	-4009	1292	1074	218.55	5.914	
9281	5585	10,173	5562	106	117	-88.99	1994	-4069	1292	1070	222.54	5.807	
9300	5585	10,192	5563	107	118	-88.99	2007	-4084	1292	1069	223.50	5.782	
9381	5586	10,273	5563	109	120	-88.99	2060	-4144	1292	1065	227.49	5.680	
9400	5586	10,292	5563	109	120	-88.99	2073	-4159	1292	1064	228.45	5.656	
9481	5586	10,373	5564	111	122	-88.99	2126	-4220	1292	1060	232.45	5.558	
9500	5586	10,392	5564	112	123	-88.99	2139	-4234	1292	1059	233.41	5.536	
9581	5587	10,473	5564	114	125	-89.00	2192	-4295	1292	1055	237.42	5.442	
9600	5587	10,492	5564	114	125	-89.00	2205	-4309	1292	1054	238.38	5.420	
9681	5587	10,573	5565	116	127	-89.00	2258	-4370	1292	1049	242.38	5.330	
9700	5587	10,592	5565	117	128	-89.00	2271	-4385	1292	1049	243.35	5.309	
9781	5588	10,673	5565	119	130	-89.00	2324	-4445	1292	1044	247.35	5.222	
9800	5588	10,692	5565	119	130	-89.00	2337	-4460	1292	1043	248.32	5.202	
9881	5588	10,773	5566	121	132	-89.01	2390	-4520	1292	1039	252.33	5.119	
9900	5588	10,792	5566	122	133	-89.01	2403	-4535	1292	1038	253.29	5.099	
9981	5588	10,873	5566	124	135	-89.01	2456	-4596	1292	1034	257.30	5.020	
10,000	5589	10,892	5566	124	135	-89.01	2468	-4610	1292	1033	258.27	5.001	
10,081	5589	10,973	5567	126	137	-89.01	2522	-4671	1291	1029	262.28	4.924	

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 # 203H - Slot 5
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:	# 203H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,100	5589	10,992	5567	127	138	-89.02	2534	-4685	1291	1028	263.25	4.906	
10,181	5589	11,073	5567	129	140	-89.02	2588	-4746	1291	1024	267.27	4.832	
10,200	5589	11,092	5567	129	140	-89.02	2600	-4761	1291	1023	268.23	4.814	
10,281	5590	11,173	5568	131	142	-89.02	2654	-4821	1291	1019	272.25	4.743	
10,300	5590	11,192	5568	132	142	-89.02	2666	-4836	1291	1018	273.21	4.726	
10,381	5590	11,273	5568	134	144	-89.03	2719	-4896	1291	1014	277.24	4.657	
10,400	5590	11,292	5568	134	145	-89.03	2732	-4911	1291	1013	278.20	4.641	
10,481	5591	11,373	5569	136	147	-89.03	2785	-4972	1291	1009	282.23	4.574	
10,500	5591	11,392	5569	137	147	-89.03	2798	-4986	1291	1008	283.19	4.559	
10,581	5591	11,473	5569	139	149	-89.03	2851	-5047	1291	1004	287.22	4.495	
10,600	5591	11,492	5570	139	150	-89.03	2864	-5061	1291	1003	288.18	4.479	
10,681	5592	11,573	5570	141	152	-89.04	2917	-5122	1291	999	292.21	4.417	
10,700	5592	11,592	5570	142	152	-89.04	2930	-5136	1291	998	293.17	4.403	
10,743	5592	11,635	5570	143	153	-89.04	2958	-5169	1291	995	295.32	4.371	
10,753	5592	11,646	5570	143	154	-89.04	2965	-5177	1291	995	295.83	4.363 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 # 203H - Slot 5
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:	# 203H	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	138.35	-45	40	60					
100	100	100	100	0	0	138.35	-45	40	60	59	0.62	97.184		
200	200	200	200	1	1	138.35	-45	40	60	59	1.33	44.936		
300	300	300	300	1	1	138.35	-45	40	60	58	2.05	29.225		
350	350	350	350	1	1	138.35	-45	40	60	58	2.41	24.876 CC, ES		
400	400	400	400	1	1	174.81	-45	40	61	58	2.76	21.964		
500	500	498	498	2	2	177.72	-48	38	66	62	3.45	19.056		
600	600	596	596	2	2	-177.67	-55	36	76	72	4.15	18.387 SF		
641	641	636	636	2	2	-175.64	-58	35	82	78	4.45	18.526		
700	699	693	692	2	2	-172.78	-64	32	92	88	4.87	18.984		
800	799	788	787	3	3	-168.17	-76	28	112	106	5.57	20.003		
900	898	883	880	3	3	-164.00	-91	22	134	127	6.28	21.260		
1000	998	975	970	4	4	-160.33	-108	15	159	152	6.98	22.707		
1100	1097	1066	1059	4	4	-157.14	-128	7	187	179	7.68	24.303		
1200	1197	1159	1149	4	5	-154.36	-150	-1	217	209	8.39	25.885		
1300	1296	1254	1240	5	5	-152.20	-173	-10	248	239	9.13	27.175		
1400	1396	1349	1332	5	6	-150.52	-196	-19	279	269	9.87	28.299		
1500	1495	1443	1423	6	6	-149.18	-218	-28	311	300	10.62	29.274		
1600	1595	1538	1515	6	7	-148.08	-241	-37	342	331	11.37	30.126		
1700	1694	1633	1606	6	7	-147.17	-264	-46	374	362	12.12	30.875		
1800	1794	1728	1698	7	8	-146.40	-287	-55	406	393	12.87	31.539		
1900	1893	1822	1789	7	8	-145.74	-309	-64	438	424	13.62	32.131		
2000	1992	1917	1881	8	9	-145.17	-332	-72	469	455	14.37	32.661		
2100	2092	2012	1972	8	9	-144.67	-355	-81	501	486	15.13	33.138		
2200	2191	2106	2064	8	10	-144.23	-378	-90	533	517	15.89	33.570		
2300	2291	2201	2155	9	11	-143.84	-401	-99	565	549	16.64	33.962		
2400	2390	2296	2247	9	11	-143.50	-423	-108	597	580	17.40	34.320		
2500	2490	2390	2338	10	12	-143.18	-446	-117	629	611	18.16	34.648		
2600	2589	2485	2430	10	12	-142.90	-469	-126	661	642	18.92	34.950		
2700	2689	2580	2521	10	13	-142.65	-492	-135	693	673	19.68	35.228		
2800	2788	2675	2613	11	13	-142.41	-515	-144	725	705	20.44	35.485		
2900	2888	2769	2704	11	14	-142.20	-537	-153	757	736	21.20	35.723		
3000	2987	2864	2796	12	15	-142.00	-560	-161	789	767	21.96	35.945		
3100	3087	2959	2887	12	15	-141.82	-583	-170	821	799	22.72	36.151		
3200	3186	3053	2978	12	16	-141.66	-606	-179	853	830	23.48	36.345		
3300	3286	3148	3070	13	16	-141.50	-628	-188	885	861	24.24	36.525		
3400	3385	3243	3161	13	17	-141.36	-651	-197	917	892	25.00	36.695		
3500	3485	3337	3253	14	17	-141.22	-674	-206	950	924	25.76	36.854		
3600	3584	3432	3344	14	18	-141.10	-697	-215	982	955	26.53	37.004		
3700	3684	3527	3436	14	19	-140.98	-720	-224	1014	986	27.29	37.145		
3800	3783	3621	3527	15	19	-140.87	-742	-233	1046	1018	28.05	37.279		
3900	3883	3716	3619	15	20	-140.76	-765	-242	1078	1049	28.81	37.405		
4000	3982	3811	3710	16	20	-140.67	-788	-250	1110	1080	29.58	37.525		
4100	4082	3906	3802	16	21	-140.57	-811	-259	1142	1112	30.34	37.638		
4200	4181	4000	3893	16	21	-140.49	-834	-268	1174	1143	31.10	37.746		
4300	4281	4095	3985	17	22	-140.40	-856	-277	1206	1174	31.87	37.849		
4400	4380	4190	4076	17	23	-140.32	-879	-286	1238	1206	32.63	37.946		
4500	4480	4284	4168	18	23	-140.25	-902	-295	1270	1237	33.40	38.039		
4600	4579	4379	4259	18	24	-140.18	-925	-304	1302	1268	34.16	38.128		
4700	4679	4474	4351	19	24	-140.11	-947	-313	1335	1300	34.93	38.212		
4800	4778	4568	4442	19	25	-140.05	-970	-322	1367	1331	35.69	38.293		
4900	4878	4663	4534	19	25	-139.99	-993	-331	1399	1362	36.45	38.370		

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 # 203H - Slot 5
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:	# 203H	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	
5000	4977	4758	4625	20	26	-139.93	-1016	-339	1431	1394	37.22	38.444	
5102	5078	4854	4718	20	27	-139.87	-1039	-349	1464	1426	38.00	38.517	
5150	5126	4899	4762	20	27	-132.49	-1050	-353	1480	1442	38.38	38.567	
5200	5175	4945	4806	21	27	-128.61	-1061	-357	1500	1461	38.80	38.658	
5250	5222	4989	4849	21	27	-125.66	-1071	-361	1522	1483	39.24	38.787	
5300	5268	5000	4859	21	28	-122.55	-1074	-362	1547	1507	39.43	39.221	
5350	5311	5020	4879	22	28	-119.41	-1079	-364	1574	1534	39.73	39.616	
5400	5353	5032	4890	22	28	-115.83	-1083	-364	1604	1564	39.98	40.117	
5450	5391	5050	4907	22	28	-112.04	-1088	-365	1636	1595	40.31	40.585	
5500	5427	5050	4907	23	28	-107.29	-1088	-365	1670	1629	40.49	41.231	
5550	5459	5050	4907	23	28	-102.01	-1088	-365	1705	1664	40.70	41.888	
5600	5487	5050	4907	24	28	-96.28	-1088	-365	1742	1701	40.94	42.543	
5650	5511	5068	4924	25	28	-91.03	-1094	-365	1779	1738	41.39	42.988	
5700	5532	5070	4926	25	28	-84.95	-1095	-365	1817	1775	41.71	43.568	
5750	5548	5072	4928	26	28	-78.80	-1095	-365	1855	1813	42.04	44.132	
5800	5560	5072	4928	27	28	-72.78	-1095	-365	1894	1851	42.39	44.673	
5850	5567	5071	4926	28	28	-67.06	-1095	-365	1931	1889	42.75	45.186	
5903	5570	5050	4907	28	28	-60.78	-1088	-365	1971	1928	42.94	45.896	
6000	5570	5050	4907	30	28	-60.78	-1088	-365	2043	1999	43.71	46.742	
6100	5571	5050	4907	32	28	-60.78	-1088	-365	2119	2075	44.48	47.649	
6200	5571	5050	4907	34	28	-60.78	-1088	-365	2198	2152	45.22	48.599	
6300	5572	5050	4907	36	28	-60.78	-1088	-365	2278	2232	45.93	49.592	
6400	5572	5050	4907	38	28	-60.78	-1088	-365	2359	2312	46.60	50.626	
6500	5573	5050	4907	40	28	-60.78	-1088	-365	2442	2395	47.23	51.699	
6600	5573	5050	4907	42	28	-60.78	-1088	-365	2526	2478	47.83	52.808	
6700	5574	5050	4907	44	28	-60.78	-1088	-365	2611	2563	48.40	53.951	
6800	5574	5050	4907	47	28	-60.78	-1088	-365	2697	2648	48.93	55.124	
6900	5575	5050	4907	49	28	-60.78	-1088	-365	2785	2735	49.44	56.326	
7000	5575	5028	4886	51	28	-59.87	-1081	-364	2872	2822	49.69	57.799	
7100	5575	5025	4883	53	28	-59.77	-1081	-364	2961	2910	50.11	59.077	
7200	5576	5023	4881	56	28	-59.68	-1080	-364	3050	2999	50.51	60.377	
7300	5576	5000	4859	58	28	-58.76	-1074	-362	3140	3090	50.69	61.957	
7400	5577	5000	4859	60	28	-58.76	-1074	-362	3231	3180	51.06	63.269	
7500	5577	5000	4859	63	28	-58.76	-1074	-362	3322	3270	51.42	64.599	
7600	5578	5000	4859	65	28	-58.76	-1074	-362	3413	3362	51.76	65.944	
7700	5578	5000	4859	68	28	-58.76	-1074	-362	3505	3453	52.08	67.303	
7800	5579	5000	4859	70	28	-58.76	-1074	-362	3598	3545	52.39	68.675	
7900	5579	5000	4859	72	28	-58.76	-1074	-362	3690	3638	52.68	70.059	
8000	5580	5000	4859	75	28	-58.76	-1074	-362	3784	3731	52.95	71.453	
8100	5580	5000	4859	77	28	-58.76	-1074	-362	3877	3824	53.22	72.857	
8200	5580	5000	4859	80	28	-58.76	-1074	-362	3971	3917	53.47	74.270	
8300	5581	5000	4859	82	28	-58.76	-1074	-362	4065	4011	53.71	75.691	
8400	5581	5000	4859	85	28	-58.76	-1074	-362	4159	4105	53.94	77.119	
8500	5582	5000	4859	87	28	-58.76	-1074	-362	4254	4200	54.15	78.554	
8600	5582	5000	4859	89	28	-58.76	-1074	-362	4349	4295	54.37	79.995	
8700	5583	5000	4859	92	28	-58.76	-1074	-362	4444	4390	54.57	81.441	
8800	5583	5000	4859	94	28	-58.76	-1074	-362	4539	4485	54.76	82.892	
8900	5584	5000	4859	97	28	-58.76	-1074	-362	4635	4580	54.95	84.348	
9000	5584	4997	4857	99	28	-58.65	-1073	-362	4731	4675	55.10	85.849	
9100	5584	4994	4854	102	28	-58.54	-1073	-362	4826	4771	55.25	87.357	
9200	5585	4994	4854	104	28	-58.54	-1073	-362	4923	4867	55.42	88.824	
9300	5585	4994	4854	107	28	-58.54	-1073	-362	5019	4963	55.58	90.294	

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 # 203H - Slot 5
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:	# 203H	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		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	
9400	5586	4988	4847	109	27	-58.27	-1071	-361	5115	5059	55.67	91.875	
9500	5586	4980	4839	112	27	-57.94	-1069	-360	5211	5156	55.74	93.489	
9600	5587	4971	4831	114	27	-57.61	-1067	-359	5308	5252	55.81	95.109	
9700	5587	4963	4823	117	27	-57.28	-1065	-359	5405	5349	55.87	96.735	
9800	5588	4955	4815	119	27	-56.95	-1063	-358	5502	5446	55.93	98.365	
9900	5588	4946	4807	122	27	-56.62	-1061	-357	5598	5542	55.98	100.001	
10,000	5589	4938	4799	124	27	-56.30	-1059	-356	5695	5639	56.03	101.641	
10,100	5589	4930	4791	127	27	-55.97	-1057	-356	5792	5736	56.08	103.286	
10,200	5589	4921	4783	129	27	-55.65	-1055	-355	5890	5833	56.13	104.935	
10,300	5590	4913	4775	132	27	-55.33	-1053	-354	5987	5931	56.17	106.588	
10,400	5590	4905	4767	134	27	-55.01	-1051	-353	6084	6028	56.21	108.245	
10,500	5591	4896	4759	137	27	-54.69	-1049	-352	6182	6125	56.24	109.906	
10,600	5591	4888	4751	139	27	-54.37	-1047	-352	6279	6223	56.28	111.571	
10,700	5592	4880	4743	142	27	-54.05	-1045	-351	6377	6320	56.31	113.239	
10,753	5592	4875	4739	143	27	-53.89	-1044	-350	6429	6372	56.33	114.129	

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 # 203H - Slot 5
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:	# 203H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
0	0	0	0	0	0	138.35	-15	13	20						
100	100	100	100	0	0	138.35	-15	13	20	19	0.62	32.395			
200	200	200	200	1	1	138.35	-15	13	20	19	1.33	14.979			
300	300	300	300	1	1	138.35	-15	13	20	18	2.05	9.742			
350	350	350	350	1	1	138.35	-15	13	20	18	2.41	8.292 CC, ES			
400	400	400	400	1	1	175.66	-15	13	21	18	2.76	7.455			
500	500	499	499	2	2	-176.49	-18	11	26	22	3.45	7.400			
600	600	598	598	2	2	-167.61	-24	8	36	32	4.16	8.725			
641	641	638	638	2	2	-164.65	-28	6	43	38	4.46	9.531			
700	699	696	695	2	2	-161.14	-33	3	53	48	4.88	10.766			
800	799	794	793	3	3	-157.33	-43	-2	70	64	5.60	12.513			
900	898	893	891	3	3	-155.05	-52	-7	88	81	6.32	13.876			
1000	998	991	988	4	4	-153.53	-62	-12	105	98	7.05	14.962			
1100	1097	1089	1086	4	4	-152.45	-72	-17	123	115	7.78	15.844			
1200	1197	1188	1184	4	4	-151.65	-81	-22	141	133	8.51	16.572			
1300	1296	1286	1282	5	5	-151.02	-91	-27	159	150	9.25	17.183			
1400	1396	1385	1380	5	5	-150.52	-101	-33	177	167	9.99	17.702			
1500	1495	1483	1477	6	6	-150.11	-110	-38	195	184	10.73	18.148			
1600	1595	1581	1575	6	6	-149.78	-120	-43	213	201	11.47	18.536			
1700	1694	1680	1673	6	6	-149.49	-129	-48	230	218	12.21	18.876			
1800	1794	1778	1771	7	7	-149.24	-139	-53	248	235	12.95	19.176			
1900	1893	1876	1868	7	7	-149.03	-149	-58	266	253	13.69	19.444			
2000	1992	1975	1966	8	8	-148.85	-158	-64	284	270	14.44	19.683			
2100	2092	2073	2064	8	8	-148.68	-168	-69	302	287	15.18	19.898			
2200	2191	2172	2162	8	8	-148.54	-178	-74	320	304	15.93	20.093			
2300	2291	2270	2259	9	9	-148.41	-187	-79	338	321	16.67	20.270			
2400	2390	2368	2357	9	9	-148.29	-197	-84	356	338	17.42	20.432			
2500	2490	2467	2455	10	10	-148.19	-207	-89	374	356	18.16	20.580			
2600	2589	2565	2553	10	10	-148.09	-216	-95	392	373	18.91	20.716			
2700	2689	2664	2651	10	10	-148.00	-226	-100	410	390	19.65	20.842			
2800	2788	2762	2748	11	11	-147.92	-235	-105	428	407	20.40	20.959			
2900	2888	2860	2846	11	11	-147.85	-245	-110	445	424	21.14	21.067			
3000	2987	2959	2944	12	12	-147.78	-255	-115	463	441	21.89	21.167			
3100	3087	3057	3042	12	12	-147.72	-264	-120	481	459	22.64	21.261			
3200	3186	3155	3139	12	13	-147.66	-274	-126	499	476	23.38	21.349			
3300	3286	3254	3237	13	13	-147.61	-284	-131	517	493	24.13	21.431			
3400	3385	3352	3335	13	13	-147.56	-293	-136	535	510	24.88	21.509			
3500	3485	3451	3433	14	14	-147.51	-303	-141	553	527	25.62	21.581			
3600	3584	3549	3530	14	14	-147.46	-312	-146	571	545	26.37	21.650			
3700	3684	3647	3628	14	15	-147.42	-322	-151	589	562	27.12	21.715			
3800	3783	3746	3726	15	15	-147.38	-332	-156	607	579	27.86	21.776			
3900	3883	3844	3824	15	15	-147.35	-341	-162	625	596	28.61	21.834			
4000	3982	3942	3922	16	16	-147.31	-351	-167	643	613	29.36	21.889			
4100	4082	4041	4019	16	16	-147.28	-361	-172	661	630	30.10	21.941			
4200	4181	4139	4117	16	17	-147.25	-370	-177	678	648	30.85	21.990			
4300	4281	4238	4215	17	17	-147.22	-380	-182	696	665	31.60	22.037			
4400	4380	4336	4313	17	17	-147.19	-389	-187	714	682	32.35	22.082			
4500	4480	4434	4410	18	18	-147.16	-399	-193	732	699	33.09	22.125			
4600	4579	4533	4508	18	18	-147.14	-409	-198	750	716	33.84	22.166			
4700	4679	4631	4606	19	19	-147.11	-418	-203	768	733	34.59	22.205			
4800	4778	4729	4704	19	19	-147.09	-428	-208	786	751	35.34	22.243			
4900	4878	5705	5350	19	24	-107.18	-115	-675	787	753	33.74	23.322			

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 # 203H - Slot 5
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:	# 203H	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
5000	4977	5716	5350	20	24	-106.26	-108	-682	733	697	36.49	20.095
5102	5078	5726	5350	20	24	-105.33	-101	-690	689	650	39.27	17.556
5150	5126	5733	5350	20	24	-100.59	-96	-696	673	633	40.53	16.608
5200	5175	5745	5350	21	24	-98.82	-89	-705	660	618	41.82	15.774
5250	5222	5761	5350	21	24	-97.40	-78	-717	650	607	43.05	15.092
5300	5268	5782	5350	21	25	-95.75	-65	-732	643	599	44.22	14.550
5350	5311	5806	5351	22	25	-93.73	-48	-751	640	595	45.31	14.131
5378	5335	5822	5351	22	25	-92.42	-38	-762	640	594	45.89	13.941
5400	5353	5835	5351	22	25	-91.35	-30	-772	640	594	46.32	13.818
5450	5391	5867	5351	22	26	-88.70	-9	-796	642	595	47.28	13.583
5500	5427	5902	5351	23	26	-85.89	14	-823	646	598	48.22	13.403
5550	5459	5940	5351	23	27	-83.05	40	-852	652	602	49.18	13.250
5600	5487	5982	5351	24	28	-80.31	67	-883	658	607	50.17	13.107
5650	5511	6025	5351	25	28	-77.79	96	-916	664	612	51.23	12.953
5700	5532	6071	5352	25	29	-75.60	126	-950	669	617	52.39	12.775
5750	5548	6118	5352	26	30	-73.82	157	-986	674	621	53.67	12.563
5800	5560	6167	5352	27	31	-72.51	189	-1023	678	623	55.07	12.312
5850	5567	6216	5352	28	32	-71.69	221	-1060	680	624	56.61	12.021
5861	5568	6228	5352	28	32	-71.58	228	-1069	681	624	56.98	11.949
5903	5570	6269	5353	28	33	-71.39	256	-1100	681	623	58.38	11.673
5925	5570	6292	5353	29	33	-71.39	270	-1117	682	622	59.18	11.516
6000	5570	6366	5353	30	35	-71.39	320	-1173	682	620	61.88	11.016
6023	5571	6390	5353	31	35	-71.39	335	-1191	682	619	62.73	10.866
6100	5571	6466	5353	32	37	-71.40	385	-1248	682	616	65.62	10.390
6123	5571	6490	5353	32	38	-71.40	400	-1266	682	615	66.51	10.252
6200	5571	6566	5354	34	39	-71.40	451	-1324	682	613	69.51	9.813
6223	5571	6590	5354	34	40	-71.40	466	-1341	682	612	70.42	9.686
6300	5572	6666	5354	36	41	-71.41	517	-1399	682	609	73.50	9.283
6323	5572	6690	5354	36	42	-71.41	532	-1417	682	608	74.44	9.166
6400	5572	6766	5355	38	44	-71.41	582	-1475	682	605	77.59	8.796
6423	5572	6790	5355	38	44	-71.41	597	-1492	683	604	78.55	8.690
6500	5573	6866	5355	40	46	-71.41	648	-1550	683	601	81.75	8.351
6523	5573	6890	5355	41	46	-71.41	663	-1568	683	600	82.73	8.253
6600	5573	6966	5356	42	48	-71.42	714	-1625	683	597	85.99	7.942
6623	5573	6990	5356	43	49	-71.42	729	-1643	683	596	86.98	7.852
6700	5574	7066	5356	44	50	-71.42	779	-1701	683	593	90.28	7.566
6723	5574	7090	5356	45	51	-71.42	794	-1718	683	592	91.29	7.483
6800	5574	7166	5356	47	53	-71.43	845	-1776	683	589	94.63	7.221
6823	5574	7190	5357	47	53	-71.43	860	-1794	683	588	95.64	7.145
6900	5575	7266	5357	49	55	-71.43	911	-1852	683	584	99.02	6.903
6923	5575	7290	5357	49	56	-71.43	926	-1869	684	584	100.04	6.833
7000	5575	7366	5357	51	57	-71.43	976	-1927	684	580	103.45	6.609
7023	5575	7390	5357	52	58	-71.43	991	-1945	684	579	104.48	6.544
7100	5575	7466	5358	53	60	-71.44	1042	-2003	684	576	107.91	6.338
7123	5576	7490	5358	54	60	-71.44	1057	-2020	684	575	108.95	6.278
7200	5576	7566	5358	56	62	-71.44	1108	-2078	684	572	112.40	6.086
7223	5576	7590	5358	56	63	-71.44	1123	-2095	684	571	113.44	6.031
7300	5576	7666	5359	58	65	-71.45	1173	-2153	684	567	116.92	5.853
7323	5576	7690	5359	59	65	-71.45	1189	-2171	684	566	117.97	5.801
7400	5577	7766	5359	60	67	-71.45	1239	-2229	685	563	121.46	5.636
7423	5577	7790	5359	61	68	-71.45	1254	-2246	685	562	122.51	5.588
7500	5577	7866	5359	63	69	-71.45	1305	-2304	685	559	126.02	5.433

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 # 203H - Slot 5
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:	# 203H	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								Rule Assigned:					Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7523	5577	7890	5360	63	70	-71.45	1320	-2322	685	558	127.08	5.389		
7600	5578	7966	5360	65	72	-71.46	1370	-2380	685	554	130.60	5.245		
7623	5578	7990	5360	66	72	-71.46	1386	-2397	685	553	131.66	5.203		
7700	5578	8066	5360	68	74	-71.46	1436	-2455	685	550	135.20	5.068		
7723	5578	8090	5360	68	75	-71.46	1451	-2472	685	549	136.26	5.028		
7800	5579	8166	5361	70	77	-71.47	1502	-2530	685	546	139.81	4.902		
7823	5579	8190	5361	71	77	-71.47	1517	-2548	685	545	140.88	4.865		
7900	5579	8266	5361	72	79	-71.47	1567	-2606	686	541	144.43	4.746		
7923	5579	8290	5361	73	80	-71.47	1583	-2623	686	540	145.50	4.712		
8000	5580	8366	5362	75	82	-71.47	1633	-2681	686	537	149.07	4.600		
8023	5580	8390	5362	75	82	-71.47	1648	-2699	686	536	150.14	4.568		
8100	5580	8466	5362	77	84	-71.48	1699	-2757	686	532	153.72	4.462		
8123	5580	8490	5362	78	85	-71.48	1714	-2774	686	531	154.80	4.432		
8200	5580	8566	5362	80	86	-71.48	1764	-2832	686	528	158.38	4.332		
8223	5581	8590	5363	80	87	-71.48	1780	-2849	686	527	159.46	4.303		
8300	5581	8666	5363	82	89	-71.49	1830	-2907	686	523	163.04	4.210		
8323	5581	8690	5363	83	89	-71.49	1845	-2925	686	522	164.13	4.182		
8400	5581	8766	5363	85	91	-71.49	1896	-2983	687	519	167.72	4.094		
8423	5581	8790	5363	85	92	-71.49	1911	-3000	687	518	168.80	4.068		
8500	5582	8866	5364	87	94	-71.49	1961	-3058	687	514	172.41	3.983		
8523	5582	8890	5364	88	94	-71.49	1977	-3076	687	513	173.49	3.959		
8600	5582	8966	5364	89	96	-71.50	2027	-3134	687	510	177.10	3.879		
8623	5582	8990	5364	90	97	-71.50	2042	-3151	687	509	178.18	3.856		
8700	5583	9066	5365	92	99	-71.50	2093	-3209	687	505	181.80	3.780		
8723	5583	9090	5365	92	99	-71.50	2108	-3226	687	504	182.88	3.758		
8800	5583	9166	5365	94	101	-71.51	2159	-3284	687	501	186.50	3.686		
8823	5583	9190	5365	95	102	-71.51	2174	-3302	687	500	187.59	3.665		
8900	5584	9266	5366	97	104	-71.51	2224	-3360	688	496	191.21	3.596		
8923	5584	9290	5366	97	104	-71.51	2239	-3377	688	495	192.30	3.576		
9000	5584	9366	5366	99	106	-71.51	2290	-3435	688	492	195.93	3.510		
9023	5584	9390	5366	100	107	-71.51	2305	-3453	688	491	197.02	3.491		
9100	5584	9466	5366	102	109	-71.52	2356	-3511	688	487	200.65	3.429		
9123	5585	9490	5366	102	109	-71.52	2371	-3528	688	486	201.74	3.411		
9200	5585	9566	5367	104	111	-71.52	2421	-3586	688	483	205.37	3.351		
9223	5585	9590	5367	105	112	-71.52	2436	-3604	688	482	206.47	3.333		
9300	5585	9666	5367	107	114	-71.53	2487	-3661	688	478	210.10	3.277		
9323	5586	9690	5367	107	114	-71.53	2502	-3679	688	477	211.20	3.260		
9400	5586	9766	5368	109	116	-71.53	2553	-3737	689	474	214.84	3.205		
9423	5586	9790	5368	110	117	-71.53	2568	-3754	689	473	215.93	3.189		
9500	5586	9866	5368	112	119	-71.53	2618	-3812	689	469	219.58	3.137		
9523	5586	9890	5368	112	119	-71.53	2633	-3830	689	468	220.67	3.122		
9600	5587	9966	5369	114	121	-71.54	2684	-3888	689	465	224.32	3.072		
9623	5587	9990	5369	115	122	-71.54	2699	-3905	689	464	225.42	3.057		
9700	5587	10,066	5369	117	124	-71.54	2750	-3963	689	460	229.06	3.009		
9723	5587	10,090	5369	117	124	-71.54	2765	-3981	689	459	230.16	2.995		
9800	5588	10,166	5369	119	126	-71.55	2815	-4039	689	456	233.81	2.949		
9823	5588	10,190	5370	120	127	-71.55	2830	-4056	689	455	234.91	2.935		
9900	5588	10,266	5370	122	129	-71.55	2881	-4114	690	451	238.56	2.891		
9923	5588	10,290	5370	122	129	-71.55	2896	-4131	690	450	239.66	2.878		
10,000	5589	10,366	5370	124	131	-71.55	2947	-4189	690	447	243.32	2.835		
10,023	5589	10,390	5370	125	132	-71.55	2962	-4207	690	445	244.42	2.823		
10,100	5589	10,466	5371	127	134	-71.56	3012	-4265	690	442	248.07	2.782		

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 # 203H - Slot 5
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:	# 203H	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		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		
10,123	5589	10,490	5371	127	134	-71.56	3028	-4282	690	441	249.17	2.770		
10,200	5589	10,566	5371	129	136	-71.56	3078	-4340	690	437	252.83	2.730		
10,223	5590	10,590	5371	130	137	-71.56	3093	-4358	690	436	253.93	2.718		
10,300	5590	10,666	5372	132	139	-71.57	3144	-4416	690	433	257.60	2.680		
10,323	5590	10,690	5372	132	139	-71.57	3159	-4433	691	432	258.70	2.669		
10,400	5590	10,766	5372	134	141	-71.57	3209	-4491	691	428	262.36	2.633		
10,423	5590	10,790	5372	135	142	-71.57	3225	-4508	691	427	263.46	2.622		
10,500	5591	10,866	5372	137	144	-71.57	3275	-4566	691	424	267.13	2.586		
10,523	5591	10,890	5373	137	144	-71.57	3290	-4584	691	423	268.23	2.576		
10,600	5591	10,966	5373	139	146	-71.58	3341	-4642	691	419	271.89	2.542		
10,623	5591	10,990	5373	140	147	-71.58	3356	-4659	691	418	273.00	2.532		
10,700	5592	11,066	5373	142	149	-71.58	3406	-4717	691	415	276.66	2.499		
10,712	5592	11,079	5373	142	149	-71.58	3415	-4726	691	414	277.25	2.493		
10,753	5592	11,120	5374	143	150	-71.58	3441	-4757	691	412	279.21	2.476 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 # 203H - Slot 5
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:	# 203H	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 190H - OH - OH													Offset Site Error:	0 ft
Survey Program: 459-MWD													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	88.84	108	5301	5303					
100	100	0	0	0	0	88.84	108	5301	5302	5301	0.31	N/A		
109	109	0	0	0	0	88.84	108	5301	5302	5301	0.34	N/A		
200	200	84	84	1	0	88.84	107	5301	5302	5301	0.76	6,989.710		
300	300	10,570	5448	1	145	6.64	565	66	5287	5244	43.58	121.324		
350	350	10,570	5448	1	145	6.64	565	66	5238	5194	43.64	120.017		
400	400	10,570	5448	1	145	49.67	565	66	5188	5144	43.70	118.710		
500	500	10,570	5448	2	145	68.90	565	66	5088	5044	43.81	116.133		
600	600	10,570	5448	2	145	93.93	565	66	4989	4945	43.91	113.616		
641	641	10,570	5448	2	145	104.19	565	66	4948	4904	43.94	112.601		
700	699	10,570	5448	2	145	104.19	565	66	4889	4845	43.98	111.153		
800	799	10,570	5448	3	145	104.19	565	66	4789	4745	44.06	108.688		
900	898	10,570	5448	3	145	104.19	565	66	4690	4645	44.15	106.215		
1000	998	10,570	5448	4	145	104.19	565	66	4590	4546	44.25	103.736		
1100	1097	10,570	5448	4	145	104.19	565	66	4490	4446	44.35	101.251		
1200	1197	10,570	5448	4	145	104.19	565	66	4391	4346	44.46	98.762		
1300	1296	10,570	5448	5	145	104.19	565	66	4291	4247	44.57	96.270		
1400	1396	10,570	5448	5	145	104.19	565	66	4192	4147	44.70	93.777		
1500	1495	10,570	5448	6	145	104.19	565	66	4092	4047	44.83	91.282		
1600	1595	10,570	5448	6	145	104.19	565	66	3993	3948	44.97	88.788		
1700	1694	10,570	5448	6	145	104.19	565	66	3893	3848	45.11	86.295		
1800	1794	10,570	5448	7	145	104.19	565	66	3794	3748	45.27	83.804		
1900	1893	10,570	5448	7	145	104.19	565	66	3694	3649	45.43	81.315		
2000	1992	10,570	5448	8	145	104.19	565	66	3595	3549	45.60	78.831		
2100	2092	10,570	5448	8	145	104.19	565	66	3495	3450	45.78	76.350		
2200	2191	10,570	5448	8	145	104.19	565	66	3396	3350	45.97	73.875		
2300	2291	10,570	5448	9	145	104.19	565	66	3297	3251	46.17	71.406		
2400	2390	10,570	5448	9	145	104.19	565	66	3197	3151	46.38	68.943		
2500	2490	10,570	5448	10	145	104.19	565	66	3098	3052	46.60	66.487		
2600	2589	10,570	5448	10	145	104.19	565	66	2999	2952	46.83	64.038		
2700	2689	10,570	5448	10	145	104.19	565	66	2900	2853	47.08	61.598		
2800	2788	10,570	5448	11	145	104.19	565	66	2801	2754	47.34	59.166		
2900	2888	10,570	5448	11	145	104.19	565	66	2702	2654	47.62	56.743		
3000	2987	10,570	5448	12	145	104.19	565	66	2603	2555	47.91	54.331		
3100	3087	10,570	5448	12	145	104.19	565	66	2504	2456	48.23	51.928		
3200	3186	10,570	5448	12	145	104.19	565	66	2406	2357	48.57	49.537		
3300	3286	10,570	5448	13	145	104.19	565	66	2307	2258	48.93	47.157		
3400	3385	10,570	5448	13	145	104.19	565	66	2209	2159	49.31	44.789		
3500	3485	10,570	5448	14	145	104.19	565	66	2110	2061	49.74	42.434		
3600	3584	10,570	5448	14	145	104.19	565	66	2012	1962	50.19	40.093		
3700	3684	10,570	5448	14	145	104.19	565	66	1914	1864	50.69	37.767		
3800	3783	10,570	5448	15	145	104.19	565	66	1817	1765	51.24	35.456		
3900	3883	10,570	5448	15	145	104.19	565	66	1719	1667	51.85	33.162		
4000	3982	10,570	5448	16	145	104.19	565	66	1622	1570	52.52	30.887		
4100	4082	10,570	5448	16	145	104.19	565	66	1525	1472	53.28	28.633		
4200	4181	10,570	5448	16	145	104.19	565	66	1429	1375	54.13	26.401		
4300	4281	10,570	5448	17	145	104.19	565	66	1333	1278	55.11	24.196		
4400	4380	10,570	5448	17	145	104.19	565	66	1238	1182	56.23	22.022		
4500	4480	10,570	5448	18	145	104.19	565	66	1144	1087	57.54	19.884		
4600	4579	10,570	5448	18	145	104.19	565	66	1051	992	59.07	17.790		
4700	4679	10,570	5448	19	145	104.19	565	66	959	898	60.89	15.750		
4800	4778	10,570	5448	19	145	104.19	565	66	869	806	63.08	13.778		

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 # 203H - Slot 5
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:	# 203H	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 190H - OH - OH													Offset Site Error:	0 ft
Survey Program: 459-MWD													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		
4900	4878	10,570	5448	19	145	104.19	565	66	782	716	65.71	11.893		
5000	4977	10,570	5448	20	145	104.19	565	66	697	628	68.89	10.121		
5102	5078	10,570	5448	20	145	104.19	565	66	616	544	72.79	8.468		
5150	5126	10,570	5448	20	145	114.85	565	66	581	507	74.54	7.797		
5200	5175	10,570	5448	21	145	120.86	565	66	548	473	75.68	7.247		
5250	5222	10,570	5448	21	145	124.78	565	66	521	445	75.85	6.866		
5300	5268	10,570	5448	21	145	127.40	565	66	499	424	74.75	6.678 SF		
5350	5311	10,570	5448	22	145	129.05	565	66	485	412	72.14	6.717		
5400	5353	10,570	5448	22	145	129.89	565	66	478	410	67.95	7.033 ES		
5416	5365	10,570	5448	22	145	130.00	565	66	477	411	66.34	7.198 CC		
5450	5391	10,570	5448	22	145	130.00	565	66	479	417	62.35	7.690		
5500	5427	10,570	5448	23	145	129.39	565	66	489	433	55.75	8.774		
5550	5459	10,570	5448	23	145	128.04	565	66	506	458	48.77	10.383		
5600	5487	10,570	5448	24	145	125.88	565	66	530	488	42.20	12.570		
5650	5511	10,570	5448	25	145	122.80	565	66	560	523	37.13	15.087		
5700	5532	10,570	5448	25	145	118.66	565	66	594	559	35.13	16.920		
5750	5548	10,570	5448	26	145	113.28	565	66	632	596	36.78	17.190		
5800	5560	10,570	5448	27	145	106.51	565	66	673	632	40.42	16.647		
5850	5567	10,570	5448	28	145	98.29	565	66	715	671	44.56	16.054		
5903	5570	10,570	5448	28	145	88.33	565	66	761	713	48.80	15.602		
6000	5570	10,570	5448	30	145	88.33	565	66	849	793	55.77	15.222		
6100	5571	10,570	5448	32	145	88.33	565	66	941	879	61.68	15.250		
6200	5571	10,570	5448	34	145	88.33	565	66	1034	967	66.56	15.533		
6300	5572	10,570	5448	36	145	88.33	565	66	1128	1058	70.63	15.977		
6400	5572	10,570	5448	38	145	88.33	565	66	1224	1150	74.05	16.527		
6500	5573	10,570	5448	40	145	88.33	565	66	1320	1243	76.96	17.149		
6600	5573	10,570	5448	42	145	88.33	565	66	1416	1337	79.46	17.825		
6700	5574	10,570	5448	44	145	88.33	565	66	1513	1432	81.64	18.538		
6800	5574	10,570	5448	47	145	88.33	565	66	1611	1527	83.54	19.282		
6900	5575	10,570	5448	49	145	88.33	565	66	1708	1623	85.22	20.048		
7000	5575	10,570	5448	51	145	88.33	565	66	1806	1720	86.71	20.832		
7100	5575	10,570	5448	53	145	88.33	565	66	1905	1817	88.05	21.631		
7200	5576	10,570	5448	56	145	88.33	565	66	2003	1914	89.25	22.441		
7300	5576	10,570	5448	58	145	88.33	565	66	2101	2011	90.34	23.261		
7400	5577	10,570	5448	60	145	88.33	565	66	2200	2109	91.33	24.089		
7500	5577	10,570	5448	63	145	88.33	565	66	2299	2207	92.24	24.923		
7600	5578	10,570	5448	65	145	88.33	565	66	2398	2305	93.07	25.763		
7700	5578	10,570	5448	68	145	88.33	565	66	2497	2403	93.83	26.608		
7800	5579	10,570	5448	70	145	88.33	565	66	2596	2501	94.54	27.456		
7900	5579	10,570	5448	72	145	88.33	565	66	2695	2600	95.19	28.308		
8000	5580	10,570	5448	75	145	88.33	565	66	2794	2698	95.80	29.163		
8100	5580	10,570	5448	77	145	88.33	565	66	2893	2797	96.37	30.020		
8200	5580	10,570	5448	80	145	88.33	565	66	2992	2895	96.91	30.879		
8300	5581	10,570	5448	82	145	88.33	565	66	3092	2994	97.41	31.740		
8400	5581	10,570	5448	85	145	88.33	565	66	3191	3093	97.88	32.602		
8500	5582	10,570	5448	87	145	88.33	565	66	3290	3192	98.32	33.465		
8600	5582	10,570	5448	89	145	88.33	565	66	3390	3291	98.74	34.330		
8700	5583	10,570	5448	92	145	88.33	565	66	3489	3390	99.14	35.195		
8800	5583	10,570	5448	94	145	88.33	565	66	3589	3489	99.52	36.061		
8900	5584	10,570	5448	97	145	88.33	565	66	3688	3589	99.88	36.928		
9000	5584	10,570	5448	99	145	88.33	565	66	3788	3688	100.23	37.794		
9100	5584	10,570	5448	102	145	88.33	565	66	3888	3787	100.55	38.661		

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 # 203H - Slot 5
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:	# 203H	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 190H - OH - OH												Offset Site Error:	0 ft
Survey Program: 459-MWD												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9200	5585	10,570	5448	104	145	88.33	565	66	3987	3886	100.87	39.529	
9300	5585	10,570	5448	107	145	88.33	565	66	4087	3986	101.17	40.396	
9400	5586	10,570	5448	109	145	88.33	565	66	4186	4085	101.46	41.263	
9500	5586	10,570	5448	112	145	88.33	565	66	4286	4184	101.73	42.130	
9600	5587	10,570	5448	114	145	88.33	565	66	4386	4284	102.00	42.997	
9700	5587	10,570	5448	117	145	88.33	565	66	4485	4383	102.26	43.863	
9800	5588	10,570	5448	119	145	88.33	565	66	4585	4483	102.51	44.730	
9900	5588	10,570	5448	122	145	88.33	565	66	4685	4582	102.75	45.596	
10,000	5589	10,570	5448	124	145	88.33	565	66	4784	4681	102.98	46.461	
10,100	5589	10,570	5448	127	145	88.33	565	66	4884	4781	103.20	47.326	
10,200	5589	10,570	5448	129	145	88.33	565	66	4984	4881	103.42	48.190	
10,300	5590	10,570	5448	132	145	88.33	565	66	5084	4980	103.63	49.054	
10,400	5590	10,570	5448	134	145	88.33	565	66	5183	5080	103.84	49.917	
10,500	5591	10,570	5448	137	145	88.33	565	66	5283	5179	104.04	50.780	
10,600	5591	10,570	5448	139	145	88.33	565	66	5383	5279	104.24	51.642	
10,700	5592	10,570	5448	142	145	88.33	565	66	5483	5378	104.43	52.503	
10,753	5592	10,570	5448	143	145	88.33	565	66	5536	5431	104.53	52.961	

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



Lonestar Consulting, LLC

Anticollision Report

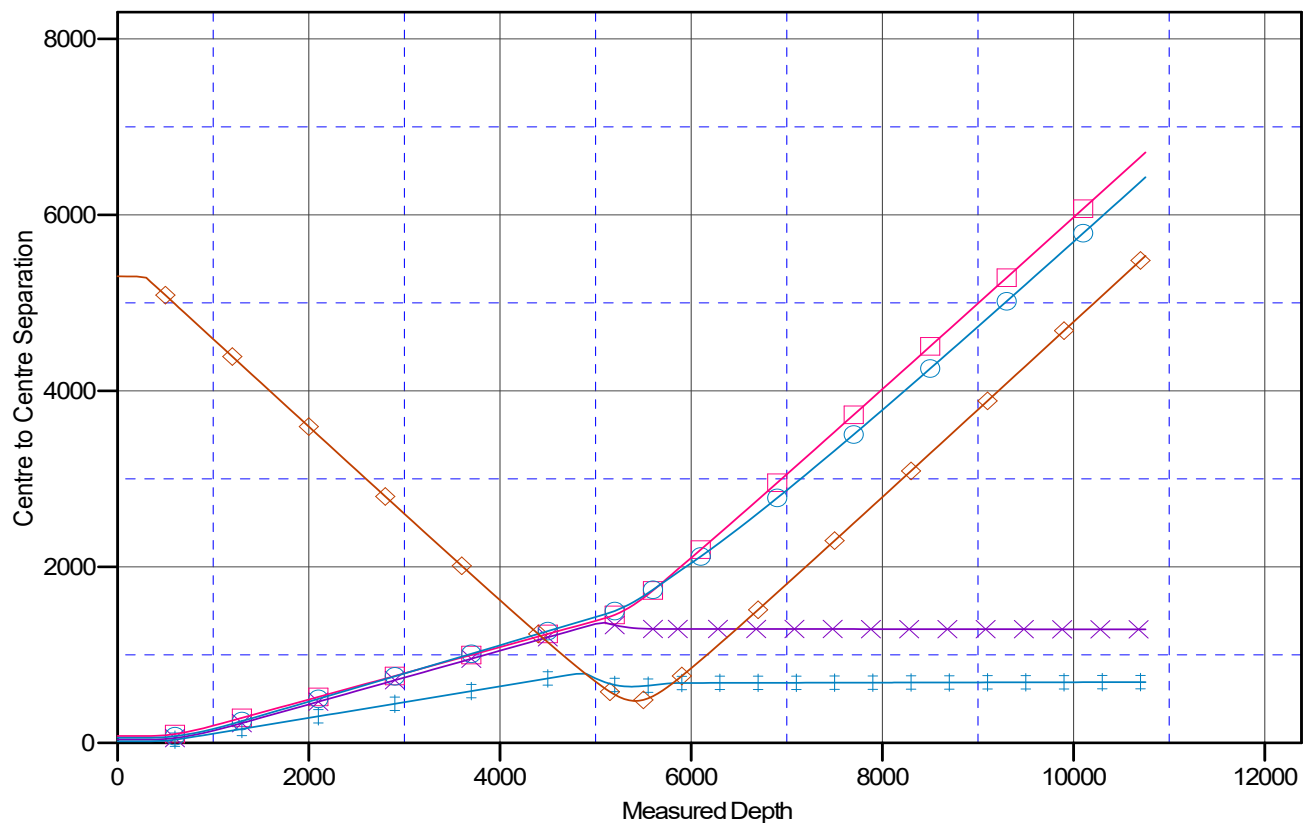


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 203H - Slot 5
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 203H	Survey Calculation Method:	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

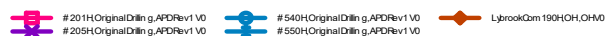
Reference Depths are relative to GL 7121' & RKB 14' @ 7135ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 203H - Slot 5
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.18°

Ladder Plot



LEGEND



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 # 203H - Slot 5
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:	# 203H	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

Coordinates are relative to: # 203H - Slot 5

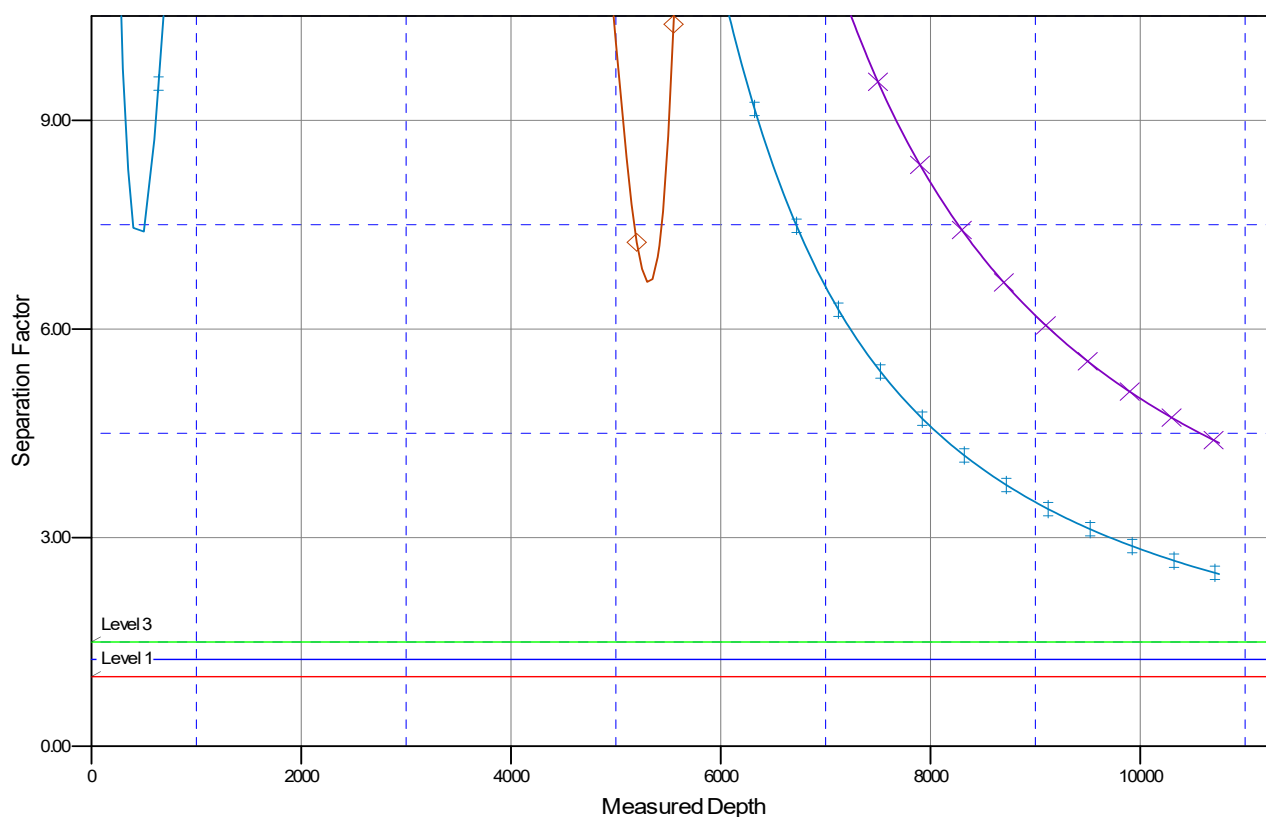
Offset Depths are relative to Offset Datum

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

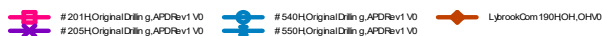
Central Meridian is -107.8333333

Grid Convergence at Surface is: 0.18°

Separation Factor Plot



LEGEND





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
#203H NORTH ALAMITO UNIT
Lease: NMNM 010087 Agreement: NMNM 135229A
SH: SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T. 23N., R. 7W.
Sandoval County, New Mexico
BH: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 23, 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/ocd/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 496079

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 496079
	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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CONDITIONS

Action 496079

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Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
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	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	This well can not be produced until operator is in compliance with Rule 5.9.	9/8/2025