

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-043-21535	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	
13. State			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		16. No of acres in lease	
17. Spacing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		19. Proposed Depth	
20. BLM/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will start*	
23. Estimated duration			
24. Attachments			
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/25/2025

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 984 FSL / 358 FWL / TWSP: 23N / RANGE: 7W / SECTION: 24 / LAT: 36.206954 / LONG: -107.534705 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 238 FSL / 606 FEL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.204952 / LONG: -107.537934 (TVD: 5538 feet, MD: 5951 feet)
PPP: SENW / 2595 FNL / 1883 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.211579 / LONG: -107.547265 (TVD: 5579 feet, MD: 13252 feet)
PPP: NENE / 1 FSL / 1 FEL / TWSP: 23N / RANGE: 7W / SECTION: 26 / LAT: 36.20399 / LONG: -107.53806 (TVD: 5579 feet, MD: 13252 feet)
PPP: NESW / 1973 FSL / 2608 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.209814 / LONG: -107.54478 (TVD: 5579 feet, MD: 13252 feet)
BHL: NENE / 330 FNL / 794 FEL / TWSP: 23N / RANGE: 7W / SECTION: 22 / LAT: 36.218087 / LONG: -107.55643 (TVD: 5579 feet, MD: 13252 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 30-043-21535	Pool Code 98174	Pool Name ALAMITO N; MANCOS (OIL)
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 205H
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		984' SOUTH	358' WEST	36.206954° N	107.534705° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	22	23N	7W		330' NORTH	794' EAST	36.218087° N	107.556430° W	SANDOVAL

Dedicated Acres SEC 26: NE/NE (40 AC.); SEC 23: SE/4, NE/SW, SE/NW, SW/NW & NW/NW (320 AC.); SEC 22: SE/NE & NE/NE (80 AC.) = 440 ACRES	PENETRATED SPACING UNIT: INFILL	Infill or Defining Well INFILL	Defining Well API N	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
P	23	23N	7W		238' SOUTH	606' EAST	36.204952° N	107.537934° W	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	23	23N	7W		238' SOUTH	606' EAST	36.204952° N	107.537934° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	22	23N	7W		330' NORTH	794' EAST	36.218087° N	107.556430° 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

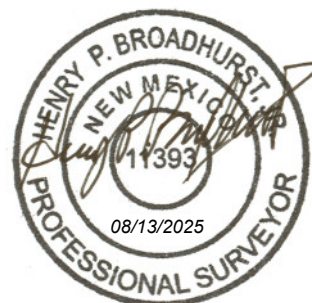
8/13/2025
Date

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

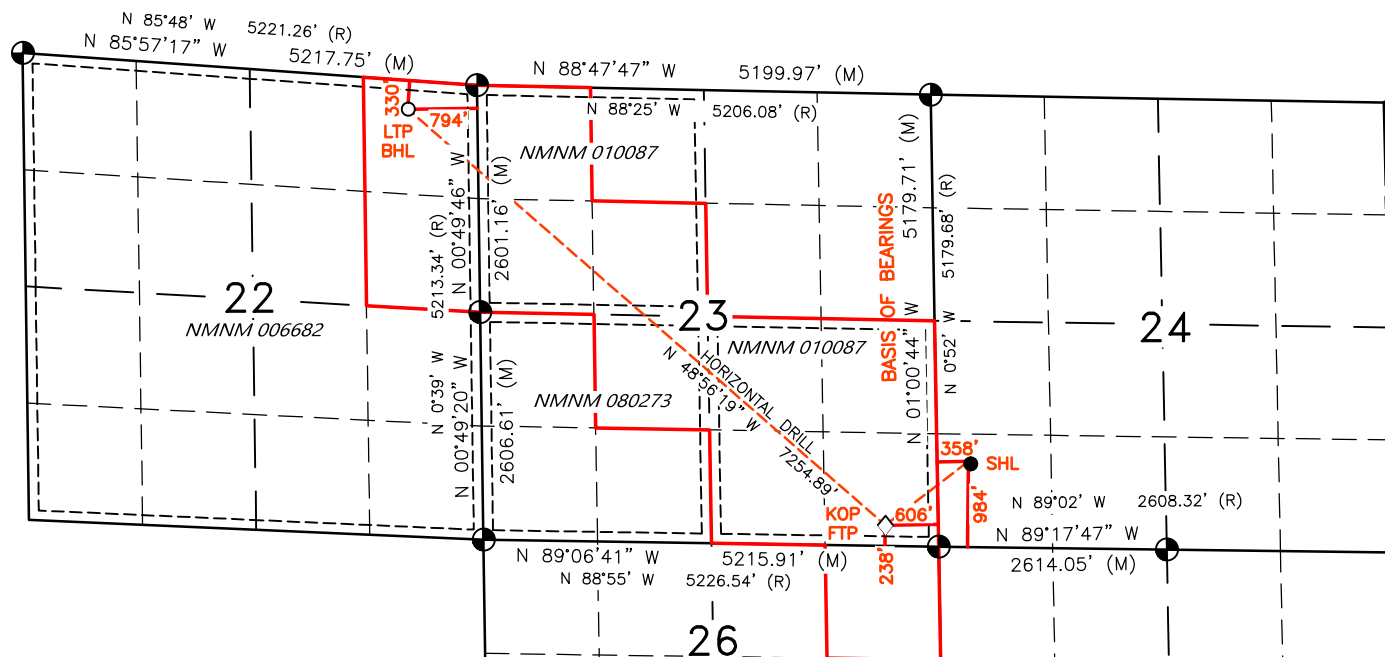
11393

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 2½" BC
 GLO 1948



SURFACE LOCATION (SHL)
984' FSL 358' FWL
SEC. 24, T23N, R7W
LAT. 36.206954° N (NAD83)
LONG. 107.534705° W (NAD83)

KICK OFF POINT (KOP) 
238' FSL 606' FEL
SEC. 23, T23N, R7W
LAT. 36.204952° N (NAD83)
LONG. 107.537934° W (NAD83)

FIRST TAKE POINT (FTP)
238' FSL 606' FEL
SEC. 23, T23N, R7W
LAT. 36.204952° N (NAD83)
LONG. 107.537934° W (NAD83)

LAST TAKE POINT (LTP) 
330' FNL 794' FEL
SEC. 22, T23N, R7W
LAT. 36.218087° N (NAD83)
LONG. 107.556430° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
330' FNL 794' FEL
SEC. 22, T23N, R7W
LAT. 36.218087° N (NAD83)
LONG. 107.556430° 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 #205H

Sandoval County, New Mexico

Surface Location

358-ft FWL & 984-ft FSL
 Sec 24 T23N R7W
 Graded Elevation 7121' MSL
 RKB Elevation 7135' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2069540° N
 Longitude 107.5347050° W

Kick Off Point for Horizontal Build Curve

5104-ft MD
 4973-ft TVD

Local Coordinates (from SHL)

982-ft South
 455-ft West

Heel Location (Pay zone entry)

606-ft FEL & 238-ft FSL
 Sec 23 T23N R7W

Heel Geographical Coordinates (NAD-83)

Latitude 36.20495191° N
 Longitude 107.53793441° W

Bottom Hole Location (TD)

794-ft FEL & 330-ft FNL
 Sec 22 T23N R7W

BHL Geographical Coordinates (NAD-83)

Latitude 36.218087° N
 Longitude 107.5564300° W

Well objectives

This well is planned as a 7250-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	1344	1328	Sd	W	8.3	8.4 – 8.8
Kirtland	1525	1503	Sh	-	8.3	8.4 – 8.8
Fruitland	1735	1707	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1983	1947	Sd	W	8.3	9.0 - 9.5
Lewis	2099	2060	Sh	-		9.0 - 9.5
Chacra	2849	2787	Sd	-	8.3	9.0 - 9.5
Menefee	3553	3469	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4384	4275	Sd	-	8.3	9.0 - 9.5
Mancos	4534	4420	Sh	-		9.0 - 9.5
Mancos Silt	4915	4789	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5433	5279	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5477	5315	Sd	O/G	6.6	8.8 - 9.0
Gallup C	5625	5420	Sd	O/G	6.6	8.8 - 9.0
Target	5997	5540	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	5951	surf	5538	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5705	13252	5464	5579	5705

Note: all casing will be new

Rev 1



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

	<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	4534-ft
Yield (cf/sx)	12.30	13.50
Mix water (gal/sx)	2.34	1.51
Volume (sx)	13.22	7.13
Volume (bbls)	503	147
Volume (cu.ft.)	210	40
Excess %	1178	222
	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5705-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	653
Volume (cu.ft)	177
Excess %	992
	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 – 5951	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5951 – 13252	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

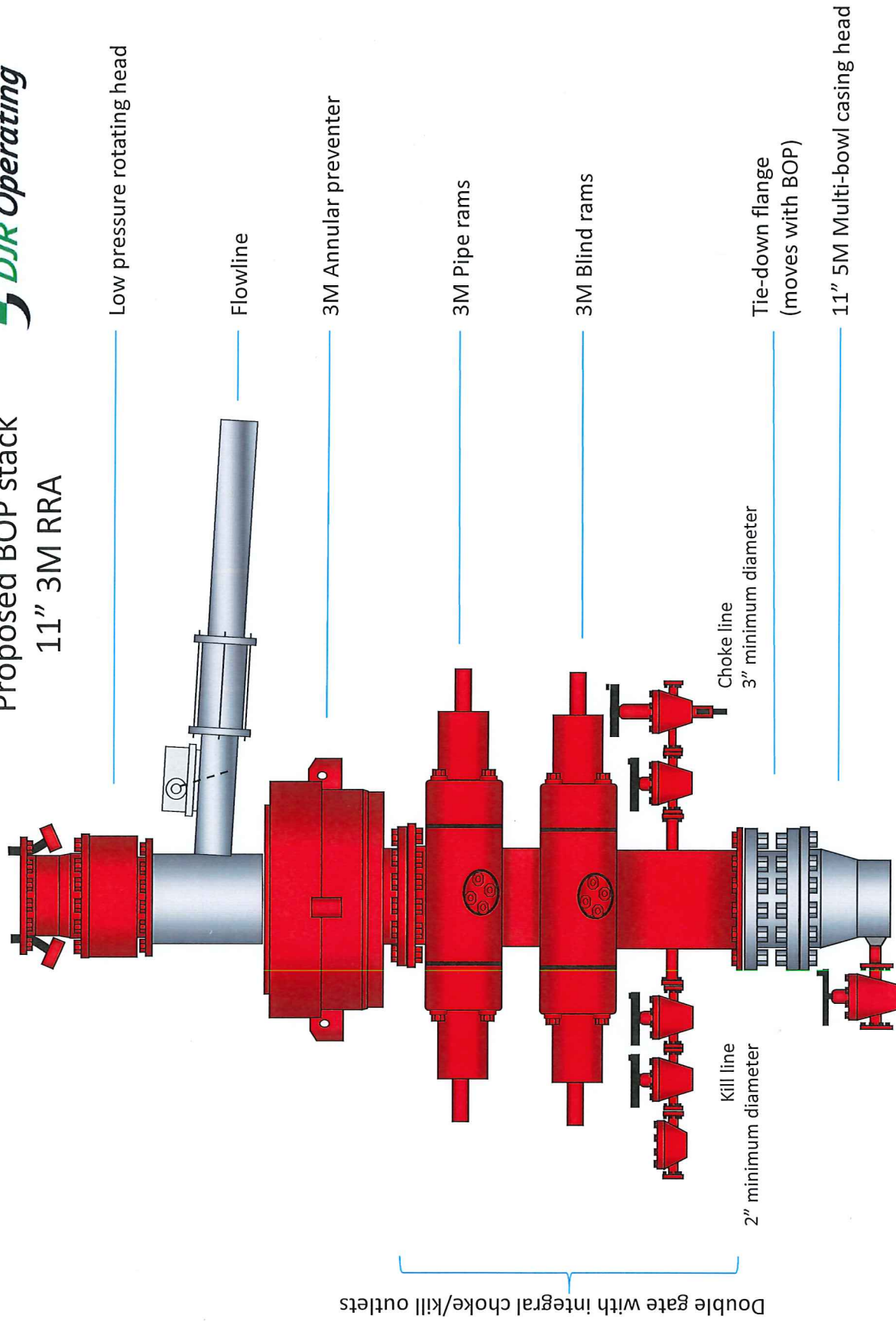
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



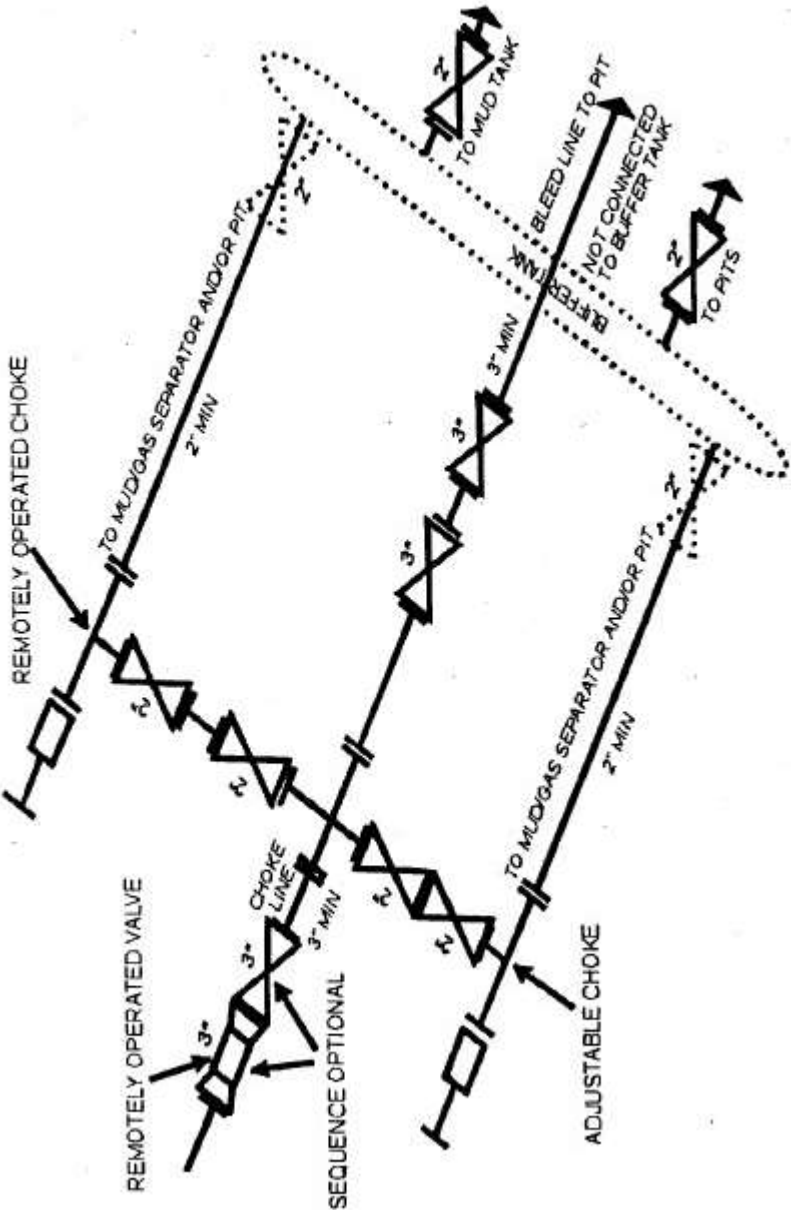
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: North Alamito Unit
Site: M24 2307 Pad
Well: # 205H
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: # 205H

GL 7121' & RKB 14' @ 7135ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0	0	1894764.46	2811190.92	36.20695400	-107.53470500	3

Plan: APD Rev 1 (# 205H/Original Drilling)

Created By: Janie Collins Date: 14:34, September 01 2023

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
205H Heel	5540	-729	-953	1894032.74	2810240.42	36.20495191	-107.53793441
205H Toe Rev1	5579	4053	-6408	1898798.10	2804770.17	36.21808700	-107.55643000

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
1062	14.24	204.85	1055	-80	-37	2.00	204.85	-11
5104	14.24	204.85	4973	-92	-455	0.00	0.00	-141
5997	89.69	311.24	5540	-729	-953	10.50	105.98	416
13252	89.69	311.24	5579	4053	-6408	0.00	0.00	7583



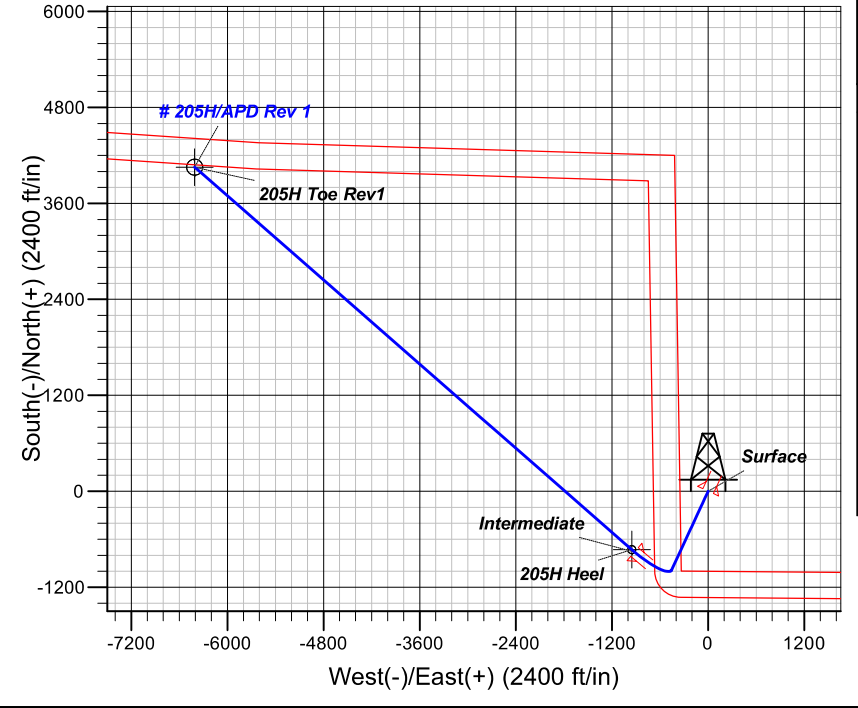
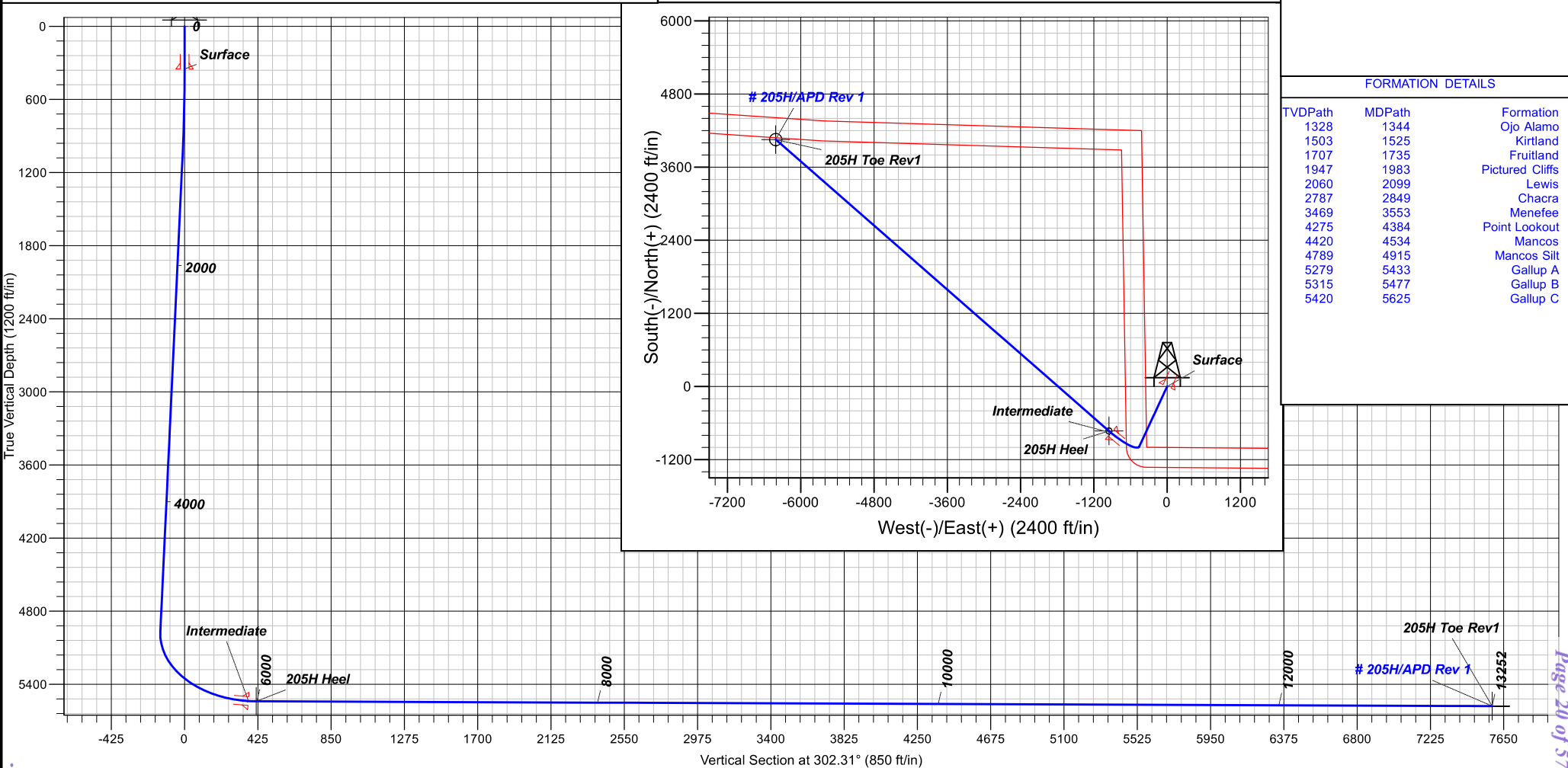
Azimuths to True North
Magnetic North: 10.5°
Magnetic Field
Strength: 51242.85
Dip Angle: 63.85°
Date: 12/31/2004
Model: IGRF2000

CASING DETAILS

TVD	MD	Name
350	350	Surface
5538	5951	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1328	1344	Ojo Alamo
1503	1525	Kirtland
1707	1735	Fruitland
1947	1983	Pictured Cliffs
2060	2099	Lewis
2787	2849	Chacra
3469	3553	Menefee
4275	4384	Point Lookout
4420	4534	Mancos
4789	4915	Mancos Silt
5279	5433	Gallup A
5315	5477	Gallup B
5420	5625	Gallup C





DJR Operating

North Alamito Unit

M24 2307 Pad

205H - Slot 3

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 # 205H - Slot 3
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:	# 205H	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	# 205H - Slot 3					
Well Position	+N/-S	0 ft	Northing:	1,894,764.46 usft	Latitude:	36.20695400
	+E/-W	0 ft	Easting:	2,811,190.92 usft	Longitude:	-107.53470500
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	302.31

Plan Survey Tool Program	Date	9/1/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	13,252 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	
1062	14.24	204.85	1055	-80	-37	2.00	2.00	0.00	204.85	
5104	14.24	204.85	4973	-982	-455	0.00	0.00	0.00	0.00	
5997	89.69	311.24	5540	-729	-953	10.50	8.46	11.92	105.98	205H Heel
13,252	89.69	311.24	5579	4053	-6408	0.00	0.00	0.00	0.00	205H Toe Rev1



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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	204.85	400	0	0	0	2.00	2.00	0.00
500	3.00	204.85	500	-4	-2	-1	2.00	2.00	0.00
600	5.00	204.85	600	-10	-5	-1	2.00	2.00	0.00
700	7.00	204.85	699	-19	-9	-3	2.00	2.00	0.00
800	9.00	204.85	798	-32	-15	-5	2.00	2.00	0.00
900	11.00	204.85	897	-48	-22	-7	2.00	2.00	0.00
1000	13.00	204.85	994	-67	-31	-10	2.00	2.00	0.00
1062	14.24	204.85	1055	-80	-37	-11	2.00	2.00	0.00
1100	14.24	204.85	1092	-88	-41	-13	0.00	0.00	0.00
1200	14.24	204.85	1188	-111	-51	-16	0.00	0.00	0.00
1300	14.24	204.85	1285	-133	-62	-19	0.00	0.00	0.00
1400	14.24	204.85	1382	-155	-72	-22	0.00	0.00	0.00
1500	14.24	204.85	1479	-178	-82	-25	0.00	0.00	0.00
1600	14.24	204.85	1576	-200	-93	-29	0.00	0.00	0.00
1700	14.24	204.85	1673	-222	-103	-32	0.00	0.00	0.00
1800	14.24	204.85	1770	-245	-113	-35	0.00	0.00	0.00
1900	14.24	204.85	1867	-267	-124	-38	0.00	0.00	0.00
2000	14.24	204.85	1964	-289	-134	-41	0.00	0.00	0.00
2100	14.24	204.85	2061	-312	-144	-45	0.00	0.00	0.00
2200	14.24	204.85	2158	-334	-155	-48	0.00	0.00	0.00
2300	14.24	204.85	2255	-356	-165	-51	0.00	0.00	0.00
2400	14.24	204.85	2352	-379	-175	-54	0.00	0.00	0.00
2500	14.24	204.85	2448	-401	-186	-57	0.00	0.00	0.00
2600	14.24	204.85	2545	-423	-196	-61	0.00	0.00	0.00
2700	14.24	204.85	2642	-446	-206	-64	0.00	0.00	0.00
2800	14.24	204.85	2739	-468	-217	-67	0.00	0.00	0.00
2900	14.24	204.85	2836	-490	-227	-70	0.00	0.00	0.00
3000	14.24	204.85	2933	-513	-237	-73	0.00	0.00	0.00
3100	14.24	204.85	3030	-535	-248	-77	0.00	0.00	0.00
3200	14.24	204.85	3127	-557	-258	-80	0.00	0.00	0.00
3300	14.24	204.85	3224	-580	-268	-83	0.00	0.00	0.00
3400	14.24	204.85	3321	-602	-279	-86	0.00	0.00	0.00
3500	14.24	204.85	3418	-624	-289	-89	0.00	0.00	0.00
3600	14.24	204.85	3515	-647	-299	-93	0.00	0.00	0.00
3700	14.24	204.85	3612	-669	-310	-96	0.00	0.00	0.00
3800	14.24	204.85	3709	-691	-320	-99	0.00	0.00	0.00
3900	14.24	204.85	3805	-714	-330	-102	0.00	0.00	0.00
4000	14.24	204.85	3902	-736	-341	-105	0.00	0.00	0.00
4100	14.24	204.85	3999	-758	-351	-109	0.00	0.00	0.00
4200	14.24	204.85	4096	-781	-361	-112	0.00	0.00	0.00
4300	14.24	204.85	4193	-803	-372	-115	0.00	0.00	0.00
4400	14.24	204.85	4290	-825	-382	-118	0.00	0.00	0.00
4500	14.24	204.85	4387	-847	-392	-121	0.00	0.00	0.00
4600	14.24	204.85	4484	-870	-403	-125	0.00	0.00	0.00
4700	14.24	204.85	4581	-892	-413	-128	0.00	0.00	0.00
4800	14.24	204.85	4678	-914	-424	-131	0.00	0.00	0.00
4900	14.24	204.85	4775	-937	-434	-134	0.00	0.00	0.00
5000	14.24	204.85	4872	-959	-444	-137	0.00	0.00	0.00
5100	14.24	204.85	4969	-981	-455	-141	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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)
5104	14.24	204.85	4973	-982	-455	-141	0.00	0.00	0.00
5200	14.93	245.40	5066	-998	-471	-135	10.50	0.72	42.43
5300	21.34	272.77	5161	-1003	-501	-113	10.50	6.41	27.37
5400	30.07	286.44	5251	-995	-543	-72	10.50	8.73	13.68
5500	39.60	294.20	5333	-975	-597	-17	10.50	9.54	7.76
5600	49.48	299.30	5404	-943	-659	53	10.50	9.88	5.10
5700	59.53	303.08	5462	-901	-729	134	10.50	10.04	3.77
5800	69.66	306.13	5505	-849	-803	224	10.50	10.13	3.06
5900	79.84	308.81	5531	-791	-879	320	10.50	10.18	2.68
5997	89.69	311.24	5540	-729	-953	416	10.50	10.20	2.51
6000	89.69	311.24	5540	-727	-955	419	0.00	0.00	0.00
6100	89.69	311.24	5541	-661	-1030	518	0.00	0.00	0.00
6200	89.69	311.24	5541	-595	-1106	617	0.00	0.00	0.00
6300	89.69	311.24	5542	-529	-1181	715	0.00	0.00	0.00
6400	89.69	311.24	5542	-463	-1256	814	0.00	0.00	0.00
6500	89.69	311.24	5543	-397	-1331	913	0.00	0.00	0.00
6600	89.69	311.24	5543	-331	-1406	1012	0.00	0.00	0.00
6700	89.69	311.24	5544	-265	-1482	1110	0.00	0.00	0.00
6800	89.69	311.24	5544	-199	-1557	1209	0.00	0.00	0.00
6900	89.69	311.24	5545	-133	-1632	1308	0.00	0.00	0.00
7000	89.69	311.24	5545	-67	-1707	1407	0.00	0.00	0.00
7100	89.69	311.24	5546	-1	-1782	1506	0.00	0.00	0.00
7200	89.69	311.24	5546	64	-1858	1604	0.00	0.00	0.00
7300	89.69	311.24	5547	130	-1933	1703	0.00	0.00	0.00
7400	89.69	311.24	5548	196	-2008	1802	0.00	0.00	0.00
7500	89.69	311.24	5548	262	-2083	1901	0.00	0.00	0.00
7600	89.69	311.24	5549	328	-2158	2000	0.00	0.00	0.00
7700	89.69	311.24	5549	394	-2234	2098	0.00	0.00	0.00
7800	89.69	311.24	5550	460	-2309	2197	0.00	0.00	0.00
7900	89.69	311.24	5550	526	-2384	2296	0.00	0.00	0.00
8000	89.69	311.24	5551	592	-2459	2395	0.00	0.00	0.00
8100	89.69	311.24	5551	658	-2534	2493	0.00	0.00	0.00
8200	89.69	311.24	5552	724	-2610	2592	0.00	0.00	0.00
8300	89.69	311.24	5552	790	-2685	2691	0.00	0.00	0.00
8400	89.69	311.24	5553	855	-2760	2790	0.00	0.00	0.00
8500	89.69	311.24	5553	921	-2835	2889	0.00	0.00	0.00
8600	89.69	311.24	5554	987	-2910	2987	0.00	0.00	0.00
8700	89.69	311.24	5555	1053	-2986	3086	0.00	0.00	0.00
8800	89.69	311.24	5555	1119	-3061	3185	0.00	0.00	0.00
8900	89.69	311.24	5556	1185	-3136	3284	0.00	0.00	0.00
9000	89.69	311.24	5556	1251	-3211	3383	0.00	0.00	0.00
9100	89.69	311.24	5557	1317	-3286	3481	0.00	0.00	0.00
9200	89.69	311.24	5557	1383	-3362	3580	0.00	0.00	0.00
9300	89.69	311.24	5558	1449	-3437	3679	0.00	0.00	0.00
9400	89.69	311.24	5558	1515	-3512	3778	0.00	0.00	0.00
9500	89.69	311.24	5559	1581	-3587	3877	0.00	0.00	0.00
9600	89.69	311.24	5559	1646	-3662	3975	0.00	0.00	0.00
9700	89.69	311.24	5560	1712	-3738	4074	0.00	0.00	0.00
9800	89.69	311.24	5560	1778	-3813	4173	0.00	0.00	0.00
9900	89.69	311.24	5561	1844	-3888	4272	0.00	0.00	0.00
10,000	89.69	311.24	5562	1910	-3963	4370	0.00	0.00	0.00
10,100	89.69	311.24	5562	1976	-4038	4469	0.00	0.00	0.00
10,200	89.69	311.24	5563	2042	-4114	4568	0.00	0.00	0.00
10,300	89.69	311.24	5563	2108	-4189	4667	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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	89.69	311.24	5564	2174	-4264	4766	0.00	0.00	0.00	
10,500	89.69	311.24	5564	2240	-4339	4864	0.00	0.00	0.00	
10,600	89.69	311.24	5565	2306	-4414	4963	0.00	0.00	0.00	
10,700	89.69	311.24	5565	2371	-4490	5062	0.00	0.00	0.00	
10,800	89.69	311.24	5566	2437	-4565	5161	0.00	0.00	0.00	
10,900	89.69	311.24	5566	2503	-4640	5260	0.00	0.00	0.00	
11,000	89.69	311.24	5567	2569	-4715	5358	0.00	0.00	0.00	
11,100	89.69	311.24	5567	2635	-4790	5457	0.00	0.00	0.00	
11,200	89.69	311.24	5568	2701	-4866	5556	0.00	0.00	0.00	
11,300	89.69	311.24	5568	2767	-4941	5655	0.00	0.00	0.00	
11,400	89.69	311.24	5569	2833	-5016	5754	0.00	0.00	0.00	
11,500	89.69	311.24	5570	2899	-5091	5852	0.00	0.00	0.00	
11,600	89.69	311.24	5570	2965	-5166	5951	0.00	0.00	0.00	
11,700	89.69	311.24	5571	3031	-5242	6050	0.00	0.00	0.00	
11,800	89.69	311.24	5571	3097	-5317	6149	0.00	0.00	0.00	
11,900	89.69	311.24	5572	3162	-5392	6247	0.00	0.00	0.00	
12,000	89.69	311.24	5572	3228	-5467	6346	0.00	0.00	0.00	
12,100	89.69	311.24	5573	3294	-5542	6445	0.00	0.00	0.00	
12,200	89.69	311.24	5573	3360	-5618	6544	0.00	0.00	0.00	
12,300	89.69	311.24	5574	3426	-5693	6643	0.00	0.00	0.00	
12,400	89.69	311.24	5574	3492	-5768	6741	0.00	0.00	0.00	
12,500	89.69	311.24	5575	3558	-5843	6840	0.00	0.00	0.00	
12,600	89.69	311.24	5575	3624	-5918	6939	0.00	0.00	0.00	
12,700	89.69	311.24	5576	3690	-5994	7038	0.00	0.00	0.00	
12,800	89.69	311.24	5577	3756	-6069	7137	0.00	0.00	0.00	
12,900	89.69	311.24	5577	3822	-6144	7235	0.00	0.00	0.00	
13,000	89.69	311.24	5578	3888	-6219	7334	0.00	0.00	0.00	
13,100	89.69	311.24	5578	3953	-6294	7433	0.00	0.00	0.00	
13,200	89.69	311.24	5579	4019	-6370	7532	0.00	0.00	0.00	
13,252	89.69	311.24	5579	4053	-6408	7583	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
205H Heel - hit/miss target - Shape	0.00	0.00	5540	-729	-953	1,894,032.74	2,810,240.42	36.20495191		-107.53793442
- plan hits target center - Circle (radius 50)										
205H Toe Rev1 - plan hits target center - Circle (radius 100)	0.00	0.00	5579	4053	-6408	1,898,798.10	2,804,770.17	36.21808700		-107.55643000

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.63	12.25	
5951	5538	Intermediate	7.00	8.75	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1344	1328	Ojo Alamo		0.00	0.00	
1525	1503	Kirtland		0.00	0.00	
1735	1707	Fruitland		0.00	0.00	
1983	1947	Pictured Cliffs		0.00	0.00	
2099	2060	Lewis		0.00	0.00	
2849	2787	Chacra		0.00	0.00	
3553	3469	Menefee		0.00	0.00	
4384	4275	Point Lookout		0.00	0.00	
4534	4420	Mancos		0.00	0.00	
4915	4789	Mancos Silt		0.00	0.00	
5433	5279	Gallup A		0.00	0.00	
5477	5315	Gallup B		0.00	0.00	
5625	5420	Gallup C		0.00	0.00	



DJR Operating

North Alamito Unit

M24 2307 Pad

205H

Original Drilling

APD Rev 1

Anticollision Report

01 September, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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	13,252	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	42	39	18.430	CC
# 201H - Original Drilling - APD Rev 1	400	399	42	39	16.102	ES
# 201H - Original Drilling - APD Rev 1	800	793	62	56	11.351	SF
# 203H - Original Drilling - APD Rev 1	350	350	38	36	15.950	CC, ES
# 203H - Original Drilling - APD Rev 1	11,700	10,753	1292	995	4.359	SF
# 540H - Original Drilling - APD Rev 1	350	350	22	19	8.973	CC
# 540H - Original Drilling - APD Rev 1	700	699	23	18	4.707	ES
# 540H - Original Drilling - APD Rev 1	5000	4997	104	54	2.070	SF
# 550H - Original Drilling - APD Rev 1	350	350	18	16	7.676	CC
# 550H - Original Drilling - APD Rev 1	700	701	20	15	4.050	ES
# 550H - Original Drilling - APD Rev 1	12,434	11,910	662	335	2.024	SF
Federal 1-A - OH - OH	11,030	5586	242	-65	0.788	Level 3, CC, ES, SF
Federal B-10 - OH - OH	12,865	5664	409	53	1.150	Level 3, CC
Federal B-10 - OH - OH	12,900	5664	410	53	1.149	Level 3, ES, SF

Offset Design: M24 2307 Pad - # 201H - Original Drilling - APD Rev 1													Offset Site Error: 0 ft		
Survey Program: Reference		0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0	0	0	0	0	0	135.91	-30	29	42						
100	100	100	100	0	0	135.91	-30	29	42	41	0.46	89.856			
200	200	200	200	1	1	135.91	-30	29	42	40	1.18	35.234			
300	300	300	300	1	1	135.91	-30	29	42	40	1.90	21.914			
350	350	350	350	1	1	135.91	-30	29	42	39	2.25	18.430	CC		
400	400	399	399	1	1	-69.20	-30	29	42	39	2.59	16.102	ES		
500	500	498	498	2	2	-71.26	-34	30	44	40	3.26	13.374			
600	600	597	596	2	2	-74.87	-40	32	47	43	3.95	11.995			
700	699	695	694	2	2	-79.28	-50	35	53	49	4.67	11.422			
800	798	793	791	3	3	-83.76	-63	38	62	56	5.43	11.351	SF		
900	897	891	888	3	3	-87.84	-79	43	72	66	6.25	11.590			
1000	994	989	984	4	4	-91.58	-98	48	85	78	7.14	11.964			
1062	1055	1050	1044	4	4	-94.29	-110	51	94	86	7.73	12.143			
1100	1092	1088	1080	4	4	-96.04	-117	53	99	91	8.10	12.246			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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:								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1200	1188	1186	1177	5	4	-99.86	-137	59	114	105	9.10	12.490		
1300	1285	1285	1274	5	5	-102.81	-156	64	128	118	10.11	12.703		
1400	1382	1384	1370	6	5	-105.15	-175	70	144	132	11.14	12.890		
1500	1479	1483	1467	6	6	-107.05	-195	75	159	147	12.17	13.054		
1600	1576	1581	1564	7	6	-108.61	-214	81	174	161	13.20	13.198		
1700	1673	1680	1660	8	7	-109.92	-234	86	190	176	14.24	13.325		
1800	1770	1779	1757	8	8	-111.03	-253	91	205	190	15.28	13.438		
1900	1867	1877	1853	9	8	-111.98	-272	97	221	205	16.32	13.539		
2000	1964	1976	1950	9	9	-112.81	-292	102	237	219	17.37	13.629		
2100	2061	2075	2047	10	9	-113.53	-311	108	252	234	18.41	13.711		
2200	2158	2173	2143	10	10	-114.17	-331	113	268	249	19.46	13.784		
2300	2255	2272	2240	11	10	-114.74	-350	119	284	264	20.51	13.851		
2400	2352	2371	2337	12	11	-115.25	-369	124	300	278	21.56	13.913		
2500	2448	2470	2433	12	11	-115.70	-389	130	316	293	22.61	13.969		
2600	2545	2568	2530	13	12	-116.12	-408	135	332	308	23.66	14.020		
2700	2642	2667	2626	13	12	-116.49	-428	140	348	323	24.71	14.067		
2800	2739	2766	2723	14	13	-116.83	-447	146	363	338	25.76	14.111		
2900	2836	2864	2820	15	13	-117.15	-467	151	379	353	26.81	14.152		
3000	2933	2963	2916	15	14	-117.44	-486	157	395	367	27.86	14.190		
3100	3030	3062	3013	16	14	-117.70	-505	162	411	382	28.91	14.225		
3200	3127	3160	3110	16	15	-117.95	-525	168	427	397	29.97	14.258		
3300	3224	3259	3206	17	15	-118.18	-544	173	443	412	31.02	14.289		
3400	3321	3358	3303	17	16	-118.39	-564	178	459	427	32.07	14.318		
3500	3418	3457	3399	18	16	-118.59	-583	184	475	442	33.12	14.345		
3600	3515	3555	3496	19	17	-118.78	-602	189	491	457	34.17	14.370		
3700	3612	3654	3593	19	17	-118.95	-622	195	507	472	35.23	14.395		
3800	3709	3753	3689	20	18	-119.11	-641	200	523	487	36.28	14.417		
3900	3805	3851	3786	20	18	-119.27	-661	206	539	502	37.33	14.439		
4000	3902	3950	3883	21	19	-119.41	-680	211	555	517	38.39	14.459		
4100	3999	4049	3979	22	19	-119.55	-699	217	571	532	39.44	14.479		
4200	4096	4148	4076	22	20	-119.68	-719	222	587	547	40.49	14.497		
4300	4193	4246	4172	23	21	-119.80	-738	227	603	561	41.55	14.515		
4400	4290	4345	4269	23	21	-119.91	-758	233	619	576	42.60	14.531		
4500	4387	4444	4366	24	22	-120.02	-777	238	635	591	43.65	14.547		
4600	4484	4542	4462	25	22	-120.13	-796	244	651	606	44.71	14.562		
4700	4581	4641	4559	25	23	-120.23	-816	249	667	621	45.76	14.577		
4800	4678	4740	4656	26	23	-120.32	-835	255	683	636	46.82	14.591		
4900	4775	4838	4752	26	24	-120.41	-855	260	699	651	47.87	14.604		
5000	4872	4937	4849	27	24	-120.50	-874	265	715	666	48.92	14.616		
5104	4973	5040	4950	27	25	-120.59	-894	271	732	682	50.03	14.629		
5150	5017	5085	4993	28	25	-140.39	-903	274	740	690	50.50	14.663		
5200	5066	5133	5041	28	25	-161.19	-913	276	753	702	50.99	14.763		
5250	5114	5180	5087	28	25	-177.31	-922	279	768	717	51.45	14.930		
5300	5161	5200	5106	28	26	170.74	-926	280	787	735	51.58	15.253		
5350	5207	5231	5136	29	26	162.19	-933	283	809	758	51.84	15.613		
5400	5251	5250	5154	29	26	155.17	-938	285	836	784	51.90	16.106		
5450	5293	5267	5170	29	26	149.03	-942	287	866	814	51.91	16.680		
5500	5333	5281	5183	29	26	143.13	-946	289	899	847	51.85	17.338		
5550	5370	5300	5201	29	26	137.57	-952	293	935	883	51.89	18.021		
5600	5404	5300	5201	29	26	130.33	-952	293	973	922	51.58	18.871		
5650	5435	5300	5201	29	26	122.32	-952	293	1014	962	51.28	19.766		
5700	5462	5300	5201	30	26	113.53	-952	293	1055	1004	51.01	20.692		

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 # 205H - Slot 3
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:	# 205H	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
5750	5485	5300	5201	30	26	104.12	-952	293	1098	1047	50.77	21.631
5800	5505	5300	5201	30	26	94.49	-952	293	1141	1091	50.57	22.572
5850	5520	5300	5201	30	26	85.14	-952	293	1185	1135	50.41	23.504
5900	5531	5300	5201	30	26	76.55	-952	293	1228	1178	50.30	24.418
5950	5538	5300	5201	30	26	69.00	-952	293	1271	1221	50.22	25.306
5997	5540	5300	5201	30	26	62.99	-952	293	1310	1260	50.18	26.106
6000	5540	5300	5201	30	26	62.99	-952	293	1313	1263	50.18	26.164
6100	5541	5300	5201	31	26	62.99	-952	293	1397	1347	50.12	27.873
6200	5541	5279	5182	31	26	61.74	-946	289	1482	1433	49.76	29.789
6300	5542	5270	5174	32	26	61.21	-943	288	1570	1520	49.60	31.646
6400	5542	5250	5154	33	26	60.03	-938	285	1658	1609	49.31	33.628
6500	5543	5250	5154	35	26	60.03	-938	285	1748	1698	49.28	35.465
6600	5543	5250	5154	36	26	60.03	-938	285	1838	1789	49.25	37.329
6700	5544	5250	5154	38	26	60.03	-938	285	1930	1881	49.21	39.215
6800	5544	5250	5154	39	26	60.03	-938	285	2022	1973	49.17	41.121
6900	5545	5250	5154	41	26	60.03	-938	285	2115	2066	49.14	43.043
7000	5545	5226	5131	43	26	58.65	-931	282	2208	2159	48.91	45.148
7100	5546	5221	5127	45	26	58.39	-930	282	2302	2253	48.85	47.125
7200	5546	5200	5106	47	26	57.20	-926	280	2397	2348	48.66	49.248
7300	5547	5200	5106	49	26	57.20	-926	280	2491	2443	48.65	51.207
7400	5548	5200	5106	52	26	57.20	-926	280	2586	2538	48.64	53.175
7500	5548	5200	5106	54	26	57.20	-926	280	2682	2633	48.62	55.150
7600	5549	5200	5106	56	26	57.20	-926	280	2777	2729	48.61	57.133
7700	5549	5200	5106	58	26	57.20	-926	280	2873	2825	48.60	59.120
7800	5550	5200	5106	60	26	57.20	-926	280	2970	2921	48.59	61.113
7900	5550	5193	5099	63	26	56.80	-924	280	3066	3018	48.54	63.163
8000	5551	5186	5092	65	25	56.44	-923	279	3163	3114	48.50	65.212
8100	5551	5169	5076	67	25	55.55	-920	278	3260	3211	48.41	67.337
8200	5552	5153	5060	70	25	54.69	-916	277	3357	3308	48.32	69.466
8300	5552	5136	5044	72	25	53.85	-913	276	3454	3405	48.24	71.596
8400	5553	5120	5028	74	25	53.03	-910	276	3551	3502	48.16	73.729
8500	5553	5103	5011	77	25	52.24	-907	275	3648	3600	48.08	75.863
8600	5554	5087	4995	79	25	51.46	-903	274	3745	3697	48.02	77.998
8700	5555	5070	4979	81	25	50.71	-900	273	3842	3794	47.95	80.135
8800	5555	5053	4963	84	25	49.97	-897	272	3940	3892	47.89	82.272
8900	5556	5037	4946	86	25	49.26	-894	271	4037	3989	47.83	84.410
9000	5556	5020	4930	89	25	48.56	-890	270	4135	4087	47.77	86.547
9100	5557	5004	4914	91	25	47.88	-887	269	4232	4185	47.72	88.685
9200	5557	4987	4898	94	24	47.22	-884	268	4330	4282	47.67	90.823
9300	5558	4971	4881	96	24	46.58	-881	267	4428	4380	47.63	92.960
9400	5558	4954	4865	98	24	45.95	-877	266	4525	4478	47.59	95.096
9500	5559	4937	4849	101	24	45.34	-874	265	4623	4575	47.55	97.231
9600	5559	4921	4833	103	24	44.75	-871	265	4721	4673	47.51	99.365
9700	5560	4904	4817	106	24	44.17	-868	264	4819	4771	47.47	101.498
9800	5560	4888	4800	108	24	43.60	-864	263	4916	4869	47.44	103.629
9900	5561	4871	4784	111	24	43.05	-861	262	5014	4967	47.41	105.758
10,000	5562	4855	4768	113	24	42.52	-858	261	5112	5065	47.38	107.885
10,100	5562	4838	4752	115	24	41.99	-855	260	5210	5163	47.36	110.010
10,200	5563	4821	4735	118	24	41.48	-851	259	5308	5261	47.34	112.133
10,300	5563	4805	4719	120	23	40.99	-848	258	5406	5359	47.32	114.253
10,400	5564	4788	4703	123	23	40.50	-845	257	5504	5457	47.30	116.371
10,500	5564	4772	4687	125	23	40.03	-841	256	5602	5555	47.28	118.485

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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	
10,600	5565	4755	4671	128	23	39.57	-838	255	5700	5653	47.27	120.596	
10,700	5565	4738	4654	130	23	39.12	-835	255	5798	5751	47.25	122.705	
10,800	5566	4722	4638	133	23	38.68	-832	254	5896	5849	47.24	124.809	
10,900	5566	4705	4622	135	23	38.25	-828	253	5994	5947	47.23	126.911	
11,000	5567	4689	4606	138	23	37.83	-825	252	6092	6045	47.22	129.008	
11,100	5567	4672	4589	140	23	37.42	-822	251	6190	6143	47.22	131.102	
11,200	5568	4656	4573	143	23	37.02	-819	250	6289	6241	47.21	133.192	
11,300	5568	4639	4557	145	23	36.63	-815	249	6387	6340	47.21	135.277	
11,400	5569	4622	4541	148	22	36.25	-812	248	6485	6438	47.21	137.359	
11,500	5570	4606	4524	150	22	35.88	-809	247	6583	6536	47.21	139.436	
11,600	5570	4589	4508	153	22	35.51	-806	246	6681	6634	47.22	141.508	
11,700	5571	4573	4492	155	22	35.16	-802	245	6780	6732	47.22	143.576	
11,800	5571	4556	4476	158	22	34.81	-799	244	6878	6831	47.22	145.639	
11,900	5572	4540	4460	160	22	34.47	-796	244	6976	6929	47.23	147.698	
12,000	5572	4523	4443	163	22	34.13	-793	243	7074	7027	47.24	149.751	
12,100	5573	4506	4427	165	22	33.81	-789	242	7172	7125	47.25	151.799	
12,200	5573	4490	4411	168	22	33.49	-786	241	7271	7223	47.26	153.842	
12,300	5574	4473	4395	170	22	33.18	-783	240	7369	7322	47.27	155.880	
12,400	5574	4457	4378	173	22	32.87	-780	239	7467	7420	47.29	157.912	
12,500	5575	4440	4362	175	22	32.57	-776	238	7566	7518	47.30	159.939	
12,600	5575	4424	4346	178	21	32.28	-773	237	7664	7617	47.32	161.960	
12,700	5576	4407	4330	180	21	31.99	-770	236	7762	7715	47.34	163.976	
12,800	5577	4390	4314	183	21	31.71	-767	235	7861	7813	47.36	165.986	
12,900	5577	4374	4297	185	21	31.44	-763	234	7959	7911	47.38	167.990	
13,000	5578	4357	4281	188	21	31.17	-760	234	8057	8010	47.40	169.988	
13,100	5578	4341	4265	190	21	30.90	-757	233	8155	8108	47.42	171.979	
13,200	5579	4324	4249	193	21	30.64	-753	232	8254	8206	47.45	173.965	
13,252	5579	4316	4240	194	21	30.51	-752	231	8305	8257	47.46	174.987	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: M24 2307 Pad - # 203H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-39.02	30	-24	38					
100	100	100	100	0	0	-39.02	30	-24	38	38	0.62	62.311		
200	200	200	200	1	1	-39.02	30	-24	38	37	1.33	28.812		
300	300	300	300	1	1	-39.02	30	-24	38	36	2.05	18.738		
350	350	350	350	1	1	-39.02	30	-24	38	36	2.41	15.950 CC, ES		
400	400	399	399	1	1	116.72	30	-24	39	36	2.76	14.164		
500	500	498	498	2	2	120.80	33	-26	44	41	3.45	12.817		
600	600	595	595	2	2	126.57	38	-30	55	51	4.15	13.230		
700	699	693	692	2	2	131.99	46	-36	71	66	4.86	14.626		
800	798	791	789	3	3	136.78	54	-42	91	85	5.59	16.207		
900	897	888	886	3	3	140.90	62	-48	113	107	6.33	17.884		
1000	994	984	982	4	4	144.40	70	-53	139	132	7.08	19.640		
1062	1055	1044	1041	4	4	146.29	75	-57	157	149	7.54	20.760		
1100	1092	1080	1077	4	4	147.43	78	-59	168	160	7.83	21.430		
1200	1188	1175	1171	5	4	149.83	86	-65	197	189	8.57	23.036		
1300	1285	1270	1266	5	5	151.60	93	-70	227	218	9.32	24.403		
1400	1382	1365	1361	6	5	152.96	101	-76	257	247	10.07	25.576		
1500	1479	1460	1456	6	5	154.04	109	-82	288	277	10.82	26.590		
1600	1576	1556	1550	7	6	154.91	117	-87	318	306	11.57	27.475		
1700	1673	1651	1645	8	6	155.63	125	-93	348	336	12.32	28.252		
1800	1770	1746	1740	8	7	156.23	132	-99	379	365	13.08	28.940		
1900	1867	1841	1835	9	7	156.75	140	-105	409	395	13.84	29.552		
2000	1964	1936	1929	9	7	157.19	148	-110	439	425	14.60	30.101		
2100	2061	2032	2024	10	8	157.58	156	-116	470	454	15.35	30.595		
2200	2158	2127	2119	10	8	157.92	164	-122	500	484	16.11	31.042		
2300	2255	2222	2213	11	9	158.22	171	-127	531	514	16.87	31.448		
2400	2352	2317	2308	12	9	158.49	179	-133	561	544	17.64	31.819		
2500	2448	2412	2403	12	9	158.73	187	-139	592	573	18.40	32.158		
2600	2545	2508	2498	13	10	158.94	195	-144	622	603	19.16	32.471		
2700	2642	2603	2592	13	10	159.14	203	-150	653	633	19.92	32.759		
2800	2739	2698	2687	14	10	159.32	210	-156	683	662	20.69	33.025		
2900	2836	2793	2782	15	11	159.48	218	-161	714	692	21.45	33.273		
3000	2933	2889	2876	15	11	159.63	226	-167	744	722	22.21	33.503		
3100	3030	2984	2971	16	12	159.77	234	-173	775	752	22.98	33.717		
3200	3127	3079	3066	16	12	159.90	242	-178	805	781	23.74	33.917		
3300	3224	3174	3161	17	12	160.02	250	-184	836	811	24.50	34.105		
3400	3321	3269	3255	17	13	160.13	257	-190	866	841	25.27	34.281		
3500	3418	3365	3350	18	13	160.23	265	-196	897	871	26.03	34.447		
3600	3515	3460	3445	19	14	160.33	273	-201	927	901	26.80	34.603		
3700	3612	3555	3539	19	14	160.42	281	-207	958	930	27.57	34.750		
3800	3709	3650	3634	20	14	160.50	289	-213	988	960	28.33	34.889		
3900	3805	3745	3729	20	15	160.58	296	-218	1019	990	29.10	35.020		
4000	3902	3841	3824	21	15	160.65	304	-224	1050	1020	29.86	35.145		
4100	3999	3936	3918	22	15	160.73	312	-230	1080	1049	30.63	35.263		
4200	4096	4031	4013	22	16	160.79	320	-235	1111	1079	31.39	35.375		
4300	4193	4126	4108	23	16	160.85	328	-241	1141	1109	32.16	35.482		
4400	4290	4222	4203	23	17	160.91	335	-247	1172	1139	32.93	35.584		
4500	4387	4317	4297	24	17	160.97	343	-252	1202	1169	33.69	35.681		
4600	4484	4412	4392	25	17	161.03	351	-258	1233	1198	34.46	35.773		
4700	4581	4507	4487	25	18	161.08	359	-264	1263	1228	35.23	35.862		
4800	4678	4602	4581	26	18	161.13	367	-269	1294	1258	36.00	35.946		
4900	4775	4698	4676	26	18	161.17	374	-275	1324	1288	36.76	36.027		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: M24 2307 Pad - # 203H - Original Drilling - APD Rev 1													Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5000	4872	4793	4771	27	19	161.22	382	-281	1355	1317	37.53	36.105		
5104	4973	4892	4870	27	19	161.26	390	-287	1387	1349	38.33	36.182		
5150	5017	4936	4913	28	19	140.99	394	-289	1400	1361	38.68	36.186		
5200	5066	4984	4961	28	20	120.07	398	-292	1411	1372	39.07	36.123		
5250	5114	5032	5009	28	20	104.24	402	-295	1421	1381	39.46	35.995		
5300	5161	5080	5057	28	20	93.55	406	-298	1427	1387	39.85	35.805		
5350	5207	5102	5078	29	20	86.20	408	-299	1431	1391	40.04	35.739		
5400	5251	5132	5108	29	20	81.36	411	-302	1433	1393	40.30	35.563		
5450	5293	5150	5126	29	20	77.94	413	-304	1434	1393	40.46	35.437		
5500	5333	5170	5146	29	20	75.67	416	-307	1433	1392	40.65	35.243		
5550	5370	5200	5175	29	21	74.41	421	-312	1430	1389	40.96	34.916		
5600	5404	5200	5175	29	21	73.17	421	-312	1426	1385	40.97	34.810		
5650	5435	5227	5200	29	21	73.01	427	-317	1421	1379	41.32	34.381		
5700	5462	5250	5222	30	21	73.22	433	-323	1414	1372	41.68	33.928		
5750	5485	5263	5234	30	21	73.55	436	-327	1406	1364	41.96	33.508		
5800	5505	5281	5251	30	21	74.31	441	-332	1397	1355	42.36	32.979		
5850	5520	5300	5268	30	21	75.40	447	-338	1387	1344	42.83	32.379		
5900	5531	5315	5281	30	21	76.65	452	-343	1376	1333	43.33	31.758		
5950	5538	5332	5296	30	21	78.16	457	-348	1364	1320	43.90	31.082		
5997	5540	5350	5311	30	22	79.87	463	-355	1353	1309	44.53	30.387		
6000	5540	5350	5311	30	22	79.87	463	-355	1352	1308	44.56	30.350		
6100	5541	5381	5337	31	22	80.99	475	-368	1331	1285	45.92	28.976		
6200	5541	5422	5370	31	22	82.41	492	-386	1315	1267	47.58	27.631		
6297	5542	5471	5406	32	23	83.99	514	-410	1304	1255	49.45	26.373		
6300	5542	5472	5407	32	23	84.04	515	-410	1304	1255	49.51	26.338		
6394	5542	5529	5446	33	23	85.72	543	-442	1298	1247	51.61	25.155		
6400	5542	5534	5448	33	23	85.84	545	-444	1298	1246	51.74	25.083		
6490	5543	5600	5487	34	24	87.53	581	-484	1296	1241	54.09	23.950		
6500	5543	5608	5491	35	24	87.72	586	-489	1295	1241	54.35	23.836		
6562	5543	5662	5517	35	25	88.84	618	-525	1295	1239	56.06	23.102		
6600	5543	5697	5531	36	25	89.46	639	-549	1295	1238	57.39	22.568		
6700	5544	5800	5560	38	27	90.71	704	-622	1296	1235	60.91	21.274		
6704	5544	5805	5561	38	27	90.75	707	-626	1296	1235	61.07	21.217		
6800	5544	5909	5570	39	29	91.14	776	-704	1296	1231	64.77	20.008		
6823	5544	5932	5570	40	29	91.14	791	-721	1296	1230	65.63	19.748		
6900	5545	6009	5570	41	30	91.13	842	-779	1296	1227	68.57	18.898		
6923	5545	6032	5571	42	31	91.13	857	-796	1296	1226	69.46	18.655		
7000	5545	6109	5571	43	32	91.13	908	-854	1296	1223	72.53	17.866		
7023	5546	6132	5571	44	33	91.13	923	-871	1296	1222	73.45	17.641		
7100	5546	6209	5571	45	34	91.13	973	-930	1296	1219	76.62	16.911		
7123	5546	6232	5571	46	34	91.12	989	-947	1296	1218	77.57	16.703		
7200	5546	6309	5572	47	36	91.12	1039	-1005	1296	1215	80.81	16.031		
7223	5547	6332	5572	48	37	91.12	1054	-1022	1296	1214	81.79	15.840		
7300	5547	6409	5572	49	38	91.12	1105	-1080	1295	1210	85.11	15.221		
7323	5547	6432	5572	50	39	91.12	1120	-1097	1295	1209	86.10	15.045		
7400	5548	6509	5573	52	40	91.11	1171	-1155	1295	1206	89.48	14.475		
7423	5548	6532	5573	52	41	91.11	1186	-1173	1295	1205	90.50	14.313		
7500	5548	6609	5573	54	42	91.11	1237	-1231	1295	1201	93.93	13.789		
7523	5548	6632	5573	54	43	91.11	1252	-1248	1295	1200	94.96	13.640		
7600	5549	6709	5574	56	45	91.11	1303	-1306	1295	1197	98.43	13.157		
7623	5549	6732	5574	56	45	91.11	1318	-1323	1295	1196	99.47	13.020		
7700	5549	6809	5574	58	47	91.10	1368	-1381	1295	1192	102.99	12.574		

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 # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: M24 2307 Pad - # 203H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
7723	5549	6832	5574	59	47	91.10	1384	-1398	1295	1191	104.04	12.447	
7800	5550	6909	5575	60	49	91.10	1434	-1456	1295	1187	107.59	12.035	
7823	5550	6932	5575	61	50	91.10	1449	-1474	1295	1186	108.65	11.918	
7900	5550	7009	5575	63	51	91.10	1500	-1532	1295	1183	112.23	11.537	
7923	5550	7032	5575	63	52	91.10	1515	-1549	1295	1181	113.30	11.428	
8000	5551	7109	5575	65	54	91.09	1566	-1607	1295	1178	116.90	11.075	
8023	5551	7132	5576	66	54	91.09	1581	-1624	1295	1177	117.98	10.974	
8100	5551	7209	5576	67	56	91.09	1632	-1682	1295	1173	121.61	10.645	
8123	5551	7232	5576	68	57	91.09	1647	-1699	1295	1172	122.69	10.551	
8200	5552	7309	5576	70	58	91.09	1698	-1757	1294	1168	126.34	10.246	
8223	5552	7332	5576	70	59	91.08	1713	-1775	1294	1167	127.43	10.158	
8300	5552	7409	5577	72	61	91.08	1764	-1833	1294	1163	131.10	9.873	
8323	5552	7432	5577	73	61	91.08	1779	-1850	1294	1162	132.19	9.791	
8400	5553	7509	5577	74	63	91.08	1829	-1908	1294	1158	135.87	9.525	
8423	5553	7532	5577	75	64	91.08	1844	-1925	1294	1157	136.97	9.449	
8500	5553	7609	5578	77	65	91.07	1895	-1983	1294	1153	140.67	9.200	
8523	5554	7632	5578	77	66	91.07	1910	-2001	1294	1152	141.77	9.128	
8600	5554	7709	5578	79	68	91.07	1961	-2059	1294	1149	145.48	8.895	
8623	5554	7732	5578	80	68	91.07	1976	-2076	1294	1147	146.59	8.827	
8700	5555	7809	5579	81	70	91.07	2027	-2134	1294	1144	150.31	8.608	
8723	5555	7832	5579	82	71	91.07	2042	-2151	1294	1142	151.42	8.545	
8800	5555	7909	5579	84	73	91.06	2093	-2209	1294	1139	155.16	8.339	
8823	5555	7932	5579	84	73	91.06	2108	-2226	1294	1138	156.27	8.279	
8900	5556	8009	5580	86	75	91.06	2159	-2284	1294	1134	160.01	8.085	
8923	5556	8032	5580	87	76	91.06	2174	-2302	1294	1133	161.13	8.029	
9000	5556	8109	5580	89	77	91.06	2224	-2360	1294	1129	164.88	7.846	
9023	5556	8132	5580	89	78	91.06	2239	-2377	1294	1128	166.00	7.793	
9100	5557	8209	5580	91	80	91.05	2290	-2435	1293	1124	169.76	7.620	
9123	5557	8232	5581	92	80	91.05	2305	-2452	1293	1123	170.88	7.569	
9200	5557	8309	5581	94	82	91.05	2356	-2510	1293	1119	174.65	7.406	
9223	5557	8332	5581	94	83	91.05	2371	-2527	1293	1118	175.77	7.358	
9300	5558	8409	5581	96	85	91.05	2422	-2585	1293	1114	179.54	7.203	
9323	5558	8432	5581	96	85	91.04	2437	-2603	1293	1113	180.67	7.158	
9400	5558	8509	5582	98	87	91.04	2488	-2661	1293	1109	184.45	7.011	
9423	5558	8532	5582	99	88	91.04	2503	-2678	1293	1108	185.58	6.968	
9500	5559	8609	5582	101	90	91.04	2554	-2736	1293	1104	189.36	6.828	
9523	5559	8632	5582	101	90	91.04	2569	-2753	1293	1103	190.49	6.788	
9600	5559	8709	5583	103	92	91.03	2619	-2811	1293	1099	194.28	6.655	
9623	5559	8732	5583	104	93	91.03	2635	-2829	1293	1097	195.41	6.616	
9700	5560	8809	5583	106	95	91.03	2685	-2887	1293	1094	199.21	6.490	
9723	5560	8832	5583	106	95	91.03	2700	-2904	1293	1092	200.34	6.453	
9800	5560	8909	5584	108	97	91.03	2751	-2962	1293	1089	204.14	6.332	
9823	5561	8932	5584	109	98	91.03	2766	-2979	1293	1087	205.28	6.297	
9900	5561	9009	5584	111	100	91.02	2817	-3037	1293	1084	209.08	6.182	
9923	5561	9032	5584	111	100	91.02	2832	-3054	1293	1082	210.21	6.149	
10,000	5562	9109	5585	113	102	91.02	2883	-3112	1292	1078	214.02	6.039	
10,023	5562	9132	5585	114	103	91.02	2898	-3130	1292	1077	215.16	6.007	
10,100	5562	9209	5585	115	104	91.02	2949	-3188	1292	1073	218.97	5.902	
10,123	5562	9232	5585	116	105	91.02	2964	-3205	1292	1072	220.11	5.871	
10,200	5563	9309	5585	118	107	91.01	3014	-3263	1292	1068	223.92	5.771	
10,223	5563	9332	5586	119	108	91.01	3030	-3280	1292	1067	225.06	5.742	
10,300	5563	9409	5586	120	109	91.01	3080	-3338	1292	1063	228.88	5.646	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: M24 2307 Pad - # 203H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
10,323	5563	9432	5586	121	110	91.01	3095	-3355	1292	1062	230.02	5.618	
10,400	5564	9509	5586	123	112	91.01	3146	-3413	1292	1058	233.84	5.525	
10,423	5564	9532	5586	123	112	91.00	3161	-3431	1292	1057	234.98	5.498	
10,500	5564	9609	5587	125	114	91.00	3212	-3489	1292	1053	238.80	5.410	
10,523	5564	9632	5587	126	115	91.00	3227	-3506	1292	1052	239.95	5.384	
10,600	5565	9709	5587	128	117	91.00	3278	-3564	1292	1048	243.77	5.299	
10,623	5565	9732	5587	128	117	91.00	3293	-3581	1292	1047	244.92	5.275	
10,700	5565	9809	5588	130	119	90.99	3344	-3639	1292	1043	248.74	5.193	
10,723	5565	9832	5588	131	120	90.99	3359	-3657	1292	1042	249.89	5.169	
10,800	5566	9909	5588	133	122	90.99	3409	-3714	1292	1038	253.72	5.091	
10,823	5566	9932	5588	133	122	90.99	3425	-3732	1292	1037	254.86	5.068	
10,900	5566	10,009	5589	135	124	90.99	3475	-3790	1292	1033	258.69	4.992	
10,923	5566	10,032	5589	136	125	90.99	3490	-3807	1291	1032	259.84	4.970	
11,000	5567	10,109	5589	138	127	90.98	3541	-3865	1291	1028	263.67	4.898	
11,023	5567	10,132	5589	138	127	90.98	3556	-3882	1291	1027	264.82	4.876	
11,100	5567	10,209	5590	140	129	90.98	3607	-3940	1291	1023	268.65	4.807	
11,123	5568	10,232	5590	141	130	90.98	3622	-3958	1291	1021	269.80	4.786	
11,200	5568	10,309	5590	143	132	90.98	3673	-4016	1291	1018	273.64	4.719	
11,223	5568	10,332	5590	143	132	90.98	3688	-4033	1291	1016	274.79	4.699	
11,300	5568	10,409	5590	145	134	90.97	3739	-4091	1291	1012	278.63	4.634	
11,323	5569	10,432	5591	146	135	90.97	3754	-4108	1291	1011	279.78	4.615	
11,400	5569	10,509	5591	148	137	90.97	3804	-4166	1291	1007	283.61	4.552	
11,423	5569	10,532	5591	148	137	90.97	3820	-4183	1291	1006	284.77	4.533	
11,500	5570	10,609	5591	150	139	90.97	3870	-4241	1291	1002	288.61	4.473	
11,523	5570	10,632	5591	151	140	90.96	3885	-4259	1291	1001	289.76	4.455	
11,600	5570	10,709	5592	153	142	90.96	3936	-4317	1291	997	293.60	4.396	
11,645	5570	10,753	5592	154	143	90.96	3965	-4350	1291	995	295.82	4.363	
11,700	5571	10,753	5592	155	143	90.96	3965	-4350	1292	995	296.36	4.359 SF	
11,800	5571	10,753	5592	158	143	90.96	3965	-4350	1300	1004	296.01	4.391	
11,900	5572	10,753	5592	160	143	90.96	3965	-4350	1316	1021	294.01	4.474	
12,000	5572	10,753	5592	163	143	90.96	3965	-4350	1338	1048	290.51	4.607	
12,100	5573	10,753	5592	165	143	90.96	3965	-4350	1368	1083	285.71	4.789	
12,200	5573	10,753	5592	168	143	90.96	3965	-4350	1405	1125	279.86	5.019	
12,300	5574	10,753	5592	170	143	90.96	3965	-4350	1447	1174	273.21	5.297	
12,400	5574	10,753	5592	173	143	90.96	3965	-4350	1495	1229	265.99	5.620	
12,500	5575	10,753	5592	175	143	90.96	3965	-4350	1548	1289	258.42	5.989	
12,600	5575	10,753	5592	178	143	90.96	3965	-4350	1605	1354	250.69	6.403	
12,700	5576	10,753	5592	180	143	90.96	3965	-4350	1667	1424	242.93	6.860	
12,800	5577	10,753	5592	183	143	90.96	3965	-4350	1732	1496	235.26	7.360	
12,900	5577	10,753	5592	185	143	90.96	3965	-4350	1800	1572	227.78	7.901	
13,000	5578	10,753	5592	188	143	90.96	3965	-4350	1871	1650	220.53	8.483	
13,100	5578	10,753	5592	190	143	90.96	3965	-4350	1944	1731	213.56	9.105	
13,200	5579	10,753	5592	193	143	90.96	3965	-4350	2020	1813	206.89	9.765	
13,252	5579	10,753	5592	194	143	90.96	3965	-4350	2060	1857	203.57	10.120	

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 # 205H - Slot 3
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:	# 205H	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	133.67	-15	16	22					
100	100	100	100	0	0	133.67	-15	16	22	21	0.62	35.053		
200	200	200	200	1	1	133.67	-15	16	22	20	1.33	16.208		
300	300	300	300	1	1	133.67	-15	16	22	20	2.05	10.541		
350	350	350	350	1	1	133.67	-15	16	22	19	2.41	8.973 CC		
400	400	400	400	1	1	-71.21	-15	15	22	19	2.75	7.869		
500	500	500	500	2	2	-71.43	-19	14	22	18	3.42	6.388		
600	600	599	599	2	2	-71.85	-25	12	22	18	4.12	5.402		
700	699	699	698	2	2	-72.45	-35	8	23	18	4.85	4.707 ES		
800	798	799	797	3	3	-73.21	-48	3	24	18	5.63	4.195		
900	897	898	895	3	3	-74.09	-64	-3	25	18	6.47	3.803		
1000	994	998	993	4	4	-75.05	-83	-11	26	18	7.39	3.494		
1062	1055	1060	1053	4	4	-75.67	-96	-16	27	19	8.00	3.331		
1100	1092	1098	1089	4	4	-75.56	-105	-20	27	19	8.38	3.255		
1200	1188	1198	1186	5	5	-74.01	-129	-29	29	20	9.41	3.094		
1300	1285	1298	1283	5	5	-72.65	-153	-38	31	21	10.46	2.962		
1400	1382	1398	1379	6	6	-71.45	-177	-48	33	21	11.53	2.852		
1500	1479	1498	1476	6	6	-70.37	-202	-57	35	22	12.59	2.761		
1600	1576	1598	1572	7	7	-69.41	-226	-67	37	23	13.67	2.684		
1700	1673	1698	1669	8	8	-68.55	-250	-76	39	24	14.74	2.618		
1800	1770	1798	1765	8	8	-67.76	-274	-85	41	25	15.82	2.561		
1900	1867	1898	1862	9	9	-67.05	-298	-95	42	26	16.90	2.512		
2000	1964	1998	1959	9	9	-66.40	-322	-104	44	26	17.97	2.470		
2100	2061	2098	2055	10	10	-65.80	-346	-114	46	27	19.05	2.432		
2200	2158	2198	2152	10	11	-65.25	-370	-123	48	28	20.13	2.399		
2300	2255	2298	2248	11	11	-64.74	-394	-132	50	29	21.20	2.369		
2400	2352	2398	2345	12	12	-64.28	-418	-142	52	30	22.28	2.342		
2500	2448	2498	2442	12	12	-63.84	-442	-151	54	31	23.35	2.318		
2600	2545	2598	2538	13	13	-63.44	-466	-161	56	32	24.43	2.297		
2700	2642	2698	2635	13	14	-63.06	-490	-170	58	33	25.50	2.277		
2800	2739	2797	2731	14	14	-62.71	-514	-179	60	33	26.57	2.259		
2900	2836	2897	2828	15	15	-62.38	-538	-189	62	34	27.64	2.243		
3000	2933	2997	2925	15	15	-62.07	-562	-198	64	35	28.72	2.228		
3100	3030	3097	3021	16	16	-61.78	-586	-208	66	36	29.79	2.214		
3200	3127	3197	3118	16	17	-61.50	-610	-217	68	37	30.86	2.201		
3300	3224	3297	3214	17	17	-61.24	-635	-226	70	38	31.93	2.189		
3400	3321	3397	3311	17	18	-61.00	-659	-236	72	39	32.99	2.178		
3500	3418	3497	3407	18	18	-60.77	-683	-245	74	40	34.06	2.168		
3600	3515	3597	3504	19	19	-60.55	-707	-255	76	41	35.13	2.158		
3700	3612	3697	3601	19	20	-60.34	-731	-264	78	42	36.20	2.149		
3800	3709	3797	3697	20	20	-60.14	-755	-273	80	43	37.26	2.141		
3900	3805	3897	3794	20	21	-59.96	-779	-283	82	43	38.33	2.133		
4000	3902	3997	3890	21	21	-59.78	-803	-292	84	44	39.40	2.125		
4100	3999	4097	3987	22	22	-59.61	-827	-302	86	45	40.46	2.118		
4200	4096	4197	4084	22	23	-59.44	-851	-311	88	46	41.53	2.112		
4300	4193	4297	4180	23	23	-59.29	-875	-320	90	47	42.59	2.106		
4400	4290	4397	4277	23	24	-59.14	-899	-330	92	48	43.66	2.100		
4500	4387	4497	4373	24	24	-58.99	-923	-339	94	49	44.72	2.094		
4600	4484	4597	4470	25	25	-58.86	-947	-349	96	50	45.79	2.089		
4700	4581	4697	4566	25	26	-58.73	-971	-358	98	51	46.85	2.084		
4800	4678	4797	4663	26	26	-58.60	-995	-367	100	52	47.91	2.079		
4900	4775	4897	4760	26	27	-58.48	-1019	-377	102	53	48.98	2.074		

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 # 205H - Slot 3
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:	# 205H	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		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)			
5000	4872	4997	4856	27	28	-58.36	-1043	-386	104	54	50.03	2.070 SF	
5104	4973	5084	4939	27	28	-59.02	-1069	-389	114	64	50.48	2.263	
5150	5017	5120	4972	28	28	-78.71	-1083	-387	126	75	50.45	2.491	
5200	5066	5157	5006	28	29	-99.53	-1098	-384	145	95	50.33	2.889	
5250	5114	5189	5035	28	29	-115.55	-1113	-379	172	122	50.08	3.433	
5300	5161	5218	5059	28	29	-126.51	-1126	-374	204	155	49.74	4.108	
5350	5207	5241	5078	29	29	-133.67	-1138	-369	242	192	49.38	4.896	
5400	5251	5260	5093	29	29	-138.09	-1148	-365	283	234	49.04	5.774	
5450	5293	5274	5105	29	29	-140.28	-1156	-361	328	279	48.76	6.719	
5500	5333	5285	5113	29	30	-140.10	-1161	-358	374	326	48.56	7.709	
5550	5370	5300	5125	29	30	-137.97	-1170	-353	423	374	49.05	8.621	
5600	5404	5300	5125	29	30	-124.53	-1170	-353	472	423	48.74	9.686	
5650	5435	5300	5125	29	30	-75.71	-1170	-353	522	473	48.71	10.713	
5700	5462	5300	5125	30	30	-20.64	-1170	-353	572	523	48.91	11.689	
5750	5485	5300	5125	30	30	-4.11	-1170	-353	621	572	49.27	12.609	
5800	5505	5300	5125	30	30	2.00	-1170	-353	670	620	49.75	13.469	
5850	5520	5281	5110	30	30	5.86	-1159	-359	717	668	49.47	14.503	
5900	5531	5273	5104	30	29	7.50	-1155	-361	764	714	49.83	15.328	
5950	5538	5250	5086	30	29	8.84	-1143	-367	809	759	49.66	16.291	
5997	5540	5250	5086	30	29	9.44	-1143	-367	849	799	50.43	16.836	
6000	5540	5250	5086	30	29	9.44	-1143	-367	852	801	50.48	16.874	
6100	5541	5250	5086	31	29	9.44	-1143	-367	938	886	51.90	18.069	
6200	5541	5217	5059	31	29	9.82	-1126	-374	1025	973	52.05	19.688	
6300	5542	5200	5044	32	29	10.01	-1118	-377	1114	1061	52.53	21.200	
6400	5542	5200	5044	33	29	10.01	-1118	-377	1204	1151	53.30	22.586	
6500	5543	5175	5022	35	29	10.25	-1106	-381	1295	1241	53.39	24.249	
6600	5543	5150	5000	36	29	10.47	-1095	-385	1387	1333	53.42	25.962	
6700	5544	5150	5000	38	29	10.47	-1095	-385	1479	1425	53.90	27.447	
6800	5544	5150	5000	39	29	10.47	-1095	-385	1573	1518	54.29	28.968	
6900	5545	5150	5000	41	29	10.47	-1095	-385	1667	1612	54.62	30.517	
7000	5545	5128	4980	43	28	10.64	-1086	-387	1761	1706	54.56	32.277	
7100	5546	5121	4973	45	28	10.70	-1083	-387	1856	1801	54.71	33.924	
7200	5546	5100	4954	47	28	10.84	-1075	-388	1951	1897	54.65	35.710	
7300	5547	5100	4954	49	28	10.84	-1075	-388	2047	1992	54.85	37.316	
7400	5548	5100	4954	52	28	10.84	-1075	-388	2143	2088	55.03	38.937	
7500	5548	5100	4954	54	28	10.84	-1075	-388	2239	2184	55.19	40.569	
7600	5549	5100	4954	56	28	10.84	-1075	-388	2336	2280	55.33	42.211	
7700	5549	5100	4954	58	28	10.84	-1075	-388	2433	2377	55.46	43.862	
7800	5550	5100	4954	60	28	10.84	-1075	-388	2530	2474	55.57	45.521	
7900	5550	5078	4934	63	28	10.98	-1067	-389	2626	2571	55.44	47.377	
8000	5551	5074	4930	65	28	11.00	-1066	-389	2724	2668	55.50	49.081	
8100	5551	5050	4907	67	28	11.13	-1058	-389	2822	2766	55.34	50.989	
8200	5552	5050	4907	70	28	11.13	-1058	-389	2919	2864	55.43	52.665	
8300	5552	5050	4907	72	28	11.13	-1058	-389	3017	2961	55.51	54.345	
8400	5553	5050	4907	74	28	11.13	-1058	-389	3115	3059	55.59	56.029	
8500	5553	5050	4907	77	28	11.13	-1058	-389	3212	3157	55.66	57.716	
8600	5554	5050	4907	79	28	11.13	-1058	-389	3311	3255	55.73	59.406	
8700	5555	5050	4907	81	28	11.13	-1058	-389	3409	3353	55.79	61.097	
8800	5555	5050	4907	84	28	11.13	-1058	-389	3507	3451	55.85	62.791	
8900	5556	5050	4907	86	28	11.13	-1058	-389	3605	3549	55.91	64.485	
9000	5556	5050	4907	89	28	11.13	-1058	-389	3704	3648	55.96	66.181	
9100	5557	5050	4907	91	28	11.13	-1058	-389	3802	3746	56.02	67.877	

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 # 205H - Slot 3
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:	# 205H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9200	5557	5050	4907	94	28	11.13	-1058	-389	3901	3845	56.07	69.574	
9300	5558	5050	4907	96	28	11.13	-1058	-389	4000	3943	56.12	71.271	
9400	5558	5050	4907	98	28	11.13	-1058	-389	4098	4042	56.17	72.968	
9500	5559	5050	4907	101	28	11.13	-1058	-389	4197	4141	56.21	74.665	
9600	5559	5050	4907	103	28	11.13	-1058	-389	4296	4240	56.26	76.361	
9700	5560	5050	4907	106	28	11.13	-1058	-389	4395	4339	56.30	78.056	
9800	5560	5050	4907	108	28	11.13	-1058	-389	4494	4437	56.35	79.751	
9900	5561	5050	4907	111	28	11.13	-1058	-389	4593	4536	56.39	81.444	
10,000	5562	5027	4885	113	28	11.25	-1051	-388	4691	4635	56.25	83.397	
10,100	5562	5025	4883	115	28	11.25	-1051	-388	4790	4734	56.29	85.107	
10,200	5563	5024	4882	118	28	11.26	-1051	-388	4889	4833	56.32	86.816	
10,300	5563	5023	4881	120	28	11.27	-1050	-388	4988	4932	56.35	88.523	
10,400	5564	5000	4859	123	28	11.36	-1044	-386	5088	5032	56.22	90.498	
10,500	5564	5000	4859	125	28	11.36	-1044	-386	5187	5131	56.27	92.187	
10,600	5565	5000	4859	128	28	11.36	-1044	-386	5286	5230	56.31	93.876	
10,700	5565	5000	4859	130	28	11.36	-1044	-386	5385	5329	56.36	95.562	
10,800	5566	5000	4859	133	28	11.36	-1044	-386	5485	5428	56.40	97.246	
10,900	5566	5000	4859	135	28	11.36	-1044	-386	5584	5527	56.44	98.928	
11,000	5567	5000	4859	138	28	11.36	-1044	-386	5683	5627	56.49	100.608	
11,100	5567	5000	4859	140	28	11.36	-1044	-386	5782	5726	56.53	102.285	
11,200	5568	5000	4859	143	28	11.36	-1044	-386	5882	5825	56.58	103.960	
11,300	5568	5000	4859	145	28	11.36	-1044	-386	5981	5924	56.62	105.633	
11,400	5569	5000	4859	148	28	11.36	-1044	-386	6080	6024	56.66	107.303	
11,500	5570	5000	4859	150	28	11.36	-1044	-386	6180	6123	56.71	108.970	
11,600	5570	5000	4859	153	28	11.36	-1044	-386	6279	6222	56.75	110.635	
11,700	5571	5000	4859	155	28	11.36	-1044	-386	6378	6322	56.80	112.297	
11,800	5571	5000	4859	158	28	11.36	-1044	-386	6478	6421	56.85	113.956	
11,900	5572	5000	4859	160	28	11.36	-1044	-386	6577	6520	56.89	115.611	
12,000	5572	5000	4859	163	28	11.36	-1044	-386	6677	6620	56.94	117.264	
12,100	5573	5000	4859	165	28	11.36	-1044	-386	6776	6719	56.98	118.914	
12,200	5573	5000	4859	168	28	11.36	-1044	-386	6876	6819	57.03	120.561	
12,300	5574	5000	4859	170	28	11.36	-1044	-386	6975	6918	57.08	122.204	
12,400	5574	5000	4859	173	28	11.36	-1044	-386	7075	7018	57.13	123.844	
12,500	5575	5000	4859	175	28	11.36	-1044	-386	7174	7117	57.17	125.481	
12,600	5575	5000	4859	178	28	11.36	-1044	-386	7274	7217	57.22	127.114	
12,700	5576	5000	4859	180	28	11.36	-1044	-386	7373	7316	57.27	128.744	
12,800	5577	5000	4859	183	28	11.36	-1044	-386	7473	7416	57.32	130.370	
12,900	5577	5000	4859	185	28	11.36	-1044	-386	7572	7515	57.37	131.993	
13,000	5578	5000	4859	188	28	11.36	-1044	-386	7672	7615	57.42	133.612	
13,100	5578	5000	4859	190	28	11.36	-1044	-386	7772	7714	57.47	135.227	
13,200	5579	4997	4857	193	28	11.37	-1044	-386	7871	7814	57.50	136.882	
13,252	5579	4997	4856	194	28	11.37	-1044	-386	7923	7865	57.53	137.716	

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 # 205H - Slot 3
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:	# 205H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Offset Design: M24 2307 Pad - # 550H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (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	-36.18	15	-11	18					
100	100	100	100	0	0	-36.18	15	-11	18	18	0.62	29.985		
200	200	200	200	1	1	-36.18	15	-11	18	17	1.33	13.865		
300	300	300	300	1	1	-36.18	15	-11	18	16	2.05	9.017		
350	350	350	350	1	1	-36.18	15	-11	18	16	2.41	7.676 CC		
400	400	400	400	1	1	118.93	15	-11	19	16	2.75	6.728		
500	500	500	500	2	2	118.61	11	-13	19	15	3.42	5.461		
600	600	601	600	2	2	118.00	5	-16	19	15	4.12	4.621		
700	699	701	700	2	2	117.60	-4	-21	20	15	4.85	4.050 ES		
800	798	801	799	3	3	123.47	-14	-26	22	16	5.61	3.863		
900	897	901	899	3	3	134.26	-23	-31	26	20	6.36	4.117		
1000	994	1000	997	4	4	145.27	-33	-37	34	27	7.08	4.820		
1062	1055	1062	1059	4	4	151.00	-39	-40	41	34	7.53	5.452		
1100	1092	1099	1096	4	4	153.87	-43	-42	46	38	7.80	5.867		
1200	1188	1198	1194	5	4	159.21	-53	-47	59	50	8.52	6.881		
1300	1285	1297	1293	5	5	162.61	-62	-52	72	63	9.25	7.766		
1400	1382	1396	1391	6	5	164.95	-72	-57	85	75	9.98	8.534		
1500	1479	1495	1490	6	6	166.66	-82	-63	99	88	10.72	9.202		
1600	1576	1595	1588	7	6	167.95	-91	-68	112	101	11.46	9.788		
1700	1673	1694	1687	8	6	168.97	-101	-73	126	113	12.20	10.303		
1800	1770	1793	1785	8	7	169.78	-111	-78	139	126	12.95	10.760		
1900	1867	1892	1883	9	7	170.46	-120	-83	153	139	13.69	11.167		
2000	1964	1991	1982	9	8	171.02	-130	-89	167	152	14.44	11.533		
2100	2061	2090	2080	10	8	171.50	-140	-94	180	165	15.19	11.862		
2200	2158	2189	2179	10	8	171.91	-149	-99	194	178	15.94	12.160		
2300	2255	2288	2277	11	9	172.26	-159	-104	208	191	16.69	12.431		
2400	2352	2387	2376	12	9	172.58	-169	-109	221	204	17.45	12.679		
2500	2448	2486	2474	12	10	172.85	-179	-115	235	217	18.20	12.906		
2600	2545	2585	2573	13	10	173.10	-188	-120	249	230	18.95	13.115		
2700	2642	2684	2671	13	11	173.32	-198	-125	262	243	19.71	13.308		
2800	2739	2783	2769	14	11	173.51	-208	-130	276	255	20.46	13.486		
2900	2836	2882	2868	15	11	173.69	-217	-135	290	268	21.22	13.652		
3000	2933	2981	2966	15	12	173.86	-227	-141	303	281	21.97	13.806		
3100	3030	3080	3065	16	12	174.01	-237	-146	317	294	22.73	13.950		
3200	3127	3179	3163	16	13	174.14	-246	-151	331	307	23.48	14.084		
3300	3224	3278	3262	17	13	174.27	-256	-156	344	320	24.24	14.210		
3400	3321	3378	3360	17	13	174.38	-266	-161	358	333	25.00	14.328		
3500	3418	3477	3459	18	14	174.49	-275	-167	372	346	25.75	14.440		
3600	3515	3576	3557	19	14	174.59	-285	-172	386	359	26.51	14.545		
3700	3612	3675	3655	19	15	174.68	-295	-177	399	372	27.27	14.644		
3800	3709	3774	3754	20	15	174.77	-305	-182	413	385	28.03	14.737		
3900	3805	3873	3852	20	15	174.85	-314	-187	427	398	28.78	14.826		
4000	3902	3972	3951	21	16	174.93	-324	-193	440	411	29.54	14.910		
4100	3999	4071	4049	22	16	175.00	-334	-198	454	424	30.30	14.989		
4200	4096	4170	4148	22	17	175.07	-343	-203	468	437	31.06	15.065		
4300	4193	4269	4246	23	17	175.13	-353	-208	482	450	31.81	15.137		
4400	4290	4368	4345	23	18	175.19	-363	-213	495	463	32.57	15.206		
4500	4387	4467	4443	24	18	175.25	-372	-219	509	476	33.33	15.272		
4600	4484	4566	4541	25	18	175.30	-382	-224	523	489	34.09	15.334		
4700	4581	4665	4640	25	19	175.35	-392	-229	536	502	34.85	15.394		
4800	4678	4764	4738	26	19	175.40	-402	-234	550	515	35.61	15.452		
4900	4775	4850	4823	26	20	175.37	-409	-239	564	528	36.27	15.558		

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 # 205H - Slot 3
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:	# 205H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
5000	4872	4923	4895	27	20	174.58	-411	-250	582	546	36.82	15.819			
5104	4973	5000	4970	27	20	172.83	-405	-268	607	569	37.39	16.229			
5150	5017	5021	4990	28	20	151.95	-402	-275	618	581	37.44	16.518			
5200	5066	5050	5017	28	20	129.98	-398	-285	631	593	37.53	16.810			
5250	5114	5084	5048	28	20	112.82	-391	-298	643	605	37.67	17.056			
5300	5161	5115	5075	28	20	100.68	-384	-311	654	616	37.74	17.319			
5350	5207	5150	5104	29	21	92.08	-374	-326	664	626	37.85	17.536			
5400	5251	5177	5127	29	21	85.94	-366	-340	673	635	37.79	17.806			
5450	5293	5200	5145	29	21	81.40	-358	-351	681	643	37.59	18.117			
5500	5333	5239	5174	29	21	77.94	-344	-372	688	650	37.79	18.201			
5550	5370	5270	5196	29	21	75.34	-332	-390	694	656	37.81	18.344			
5600	5404	5300	5217	29	21	73.40	-319	-408	698	660	37.84	18.451			
5650	5435	5331	5236	29	21	71.98	-304	-428	702	664	37.96	18.482			
5700	5462	5362	5254	30	21	71.01	-290	-448	704	666	38.12	18.460			
5710	5467	5369	5258	30	21	70.87	-286	-452	704	666	38.16	18.445			
5750	5485	5400	5275	30	21	70.49	-270	-473	705	666	38.54	18.282			
5790	5501	5418	5283	30	21	70.22	-261	-486	704	666	38.60	18.243			
5800	5505	5424	5286	30	21	70.20	-257	-490	704	665	38.67	18.205			
5841	5518	5450	5298	30	21	70.25	-243	-508	703	664	39.02	18.013			
5850	5520	5450	5298	30	21	70.22	-243	-508	702	664	38.94	18.039			
5893	5530	5482	5311	30	22	70.60	-225	-531	700	661	39.54	17.707			
5900	5531	5486	5312	30	22	70.68	-222	-535	700	660	39.62	17.659			
5943	5537	5513	5321	30	22	71.25	-207	-554	696	656	40.16	17.335			
5950	5538	5518	5323	30	22	71.37	-204	-558	696	655	40.26	17.280			
5991	5540	5550	5332	30	22	72.27	-184	-582	692	651	41.03	16.856			
5997	5540	5550	5332	30	22	72.32	-184	-582	691	650	41.02	16.846			
6000	5540	5550	5332	30	22	72.32	-184	-582	691	650	41.01	16.840			
6000	5540	5550	5332	30	22	72.32	-184	-582	691	650	41.01	16.839			
6085	5540	5600	5342	30	23	73.11	-153	-619	683	641	42.29	16.159			
6100	5541	5614	5345	31	23	73.27	-144	-630	682	640	42.71	15.977			
6181	5541	5668	5350	31	23	73.63	-109	-671	680	635	44.05	15.427			
6200	5541	5682	5350	31	23	73.65	-100	-681	679	635	44.36	15.312			
6279	5542	5757	5350	32	24	73.64	-51	-738	679	633	46.41	14.630			
6300	5542	5778	5350	32	25	73.64	-37	-754	679	632	46.99	14.448			
6379	5542	5857	5351	33	26	73.63	15	-813	679	629	49.42	13.734			
6400	5542	5878	5351	33	26	73.62	29	-829	679	629	50.05	13.560			
6479	5543	5957	5351	34	27	73.61	81	-889	678	626	52.71	12.872			
6500	5543	5978	5351	35	28	73.61	94	-904	678	625	53.37	12.711			
6579	5543	6057	5352	36	29	73.59	146	-964	678	622	56.04	12.103			
6600	5543	6078	5352	36	29	73.59	160	-980	678	621	56.91	11.915			
6679	5544	6157	5352	37	31	73.58	212	-1040	678	618	59.83	11.331			
6700	5544	6178	5352	38	31	73.58	226	-1055	678	617	60.64	11.179			
6779	5544	6257	5352	39	33	73.56	278	-1115	678	614	63.69	10.640			
6800	5544	6278	5353	39	33	73.56	291	-1131	678	613	64.52	10.503			
6879	5545	6357	5353	41	35	73.55	343	-1190	677	610	67.67	10.010			
6900	5545	6378	5353	41	35	73.54	357	-1206	677	609	68.52	9.885			
6979	5545	6457	5353	43	37	73.53	409	-1266	677	605	71.76	9.436			
7000	5545	6478	5353	43	37	73.53	423	-1281	677	604	72.63	9.322			
7079	5546	6557	5354	45	39	73.51	475	-1341	677	601	75.94	8.913			
7100	5546	6578	5354	45	39	73.51	488	-1357	677	600	76.82	8.810			
7179	5546	6657	5354	47	41	73.50	540	-1417	677	596	80.19	8.437			
7200	5546	6678	5354	47	42	73.50	554	-1432	676	595	81.09	8.343			

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 # 205H - Slot 3
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:	# 205H	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		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
7279	5547	6757	5355	49	43	73.48	606	-1492	676	592	84.51	8.002		
7300	5547	6778	5355	49	44	73.48	620	-1508	676	591	85.42	7.917		
7379	5547	6857	5355	51	46	73.47	672	-1567	676	587	88.89	7.605		
7400	5548	6878	5355	52	46	73.46	685	-1583	676	586	89.80	7.527		
7479	5548	6957	5355	53	48	73.45	737	-1643	676	582	93.31	7.242		
7500	5548	6978	5356	54	48	73.45	751	-1658	676	581	94.23	7.170		
7579	5548	7057	5356	55	50	73.43	803	-1718	675	578	97.77	6.909		
7600	5549	7078	5356	56	51	73.43	817	-1734	675	577	98.70	6.843		
7679	5549	7157	5356	58	53	73.42	869	-1794	675	573	102.26	6.602		
7700	5549	7178	5356	58	53	73.42	882	-1809	675	572	103.21	6.542		
7779	5550	7257	5357	60	55	73.40	934	-1869	675	568	106.79	6.320		
7800	5550	7278	5357	60	55	73.40	948	-1885	675	567	107.74	6.264		
7879	5550	7357	5357	62	57	73.39	1000	-1944	675	563	111.35	6.059		
7900	5550	7378	5357	63	58	73.38	1014	-1960	675	562	112.30	6.007		
7979	5551	7457	5358	65	60	73.37	1066	-2020	674	558	115.93	5.817		
8000	5551	7478	5358	65	60	73.37	1080	-2036	674	557	116.88	5.769		
8079	5551	7557	5358	67	62	73.35	1131	-2095	674	554	120.52	5.593		
8100	5551	7578	5358	67	62	73.35	1145	-2111	674	553	121.49	5.548		
8179	5552	7657	5359	69	64	73.34	1197	-2171	674	549	125.14	5.384		
8200	5552	7678	5359	70	65	73.33	1211	-2186	674	548	126.11	5.343		
8279	5552	7757	5359	71	67	73.32	1263	-2246	674	544	129.78	5.190		
8300	5552	7778	5359	72	67	73.32	1277	-2262	673	543	130.74	5.151		
8379	5553	7857	5359	74	69	73.31	1329	-2321	673	539	134.42	5.009		
8400	5553	7878	5359	74	70	73.30	1342	-2337	673	538	135.39	4.972		
8479	5553	7957	5360	76	72	73.29	1394	-2397	673	534	139.09	4.839		
8500	5553	7978	5360	77	72	73.29	1408	-2413	673	533	140.06	4.805		
8579	5554	8057	5360	79	74	73.27	1460	-2472	673	529	143.76	4.679		
8600	5554	8078	5360	79	74	73.27	1474	-2488	673	528	144.73	4.648		
8679	5554	8157	5361	81	76	73.26	1526	-2548	672	524	148.44	4.530		
8700	5555	8178	5361	81	77	73.25	1539	-2563	672	523	149.42	4.500		
8779	5555	8257	5361	83	79	73.24	1591	-2623	672	519	153.14	4.389		
8800	5555	8278	5361	84	79	73.24	1605	-2639	672	518	154.12	4.361		
8879	5555	8357	5362	86	81	73.22	1657	-2698	672	514	157.84	4.257		
8900	5556	8378	5362	86	82	73.22	1671	-2714	672	513	158.82	4.230		
8979	5556	8457	5362	88	84	73.21	1723	-2774	672	509	162.55	4.132		
9000	5556	8478	5362	89	84	73.20	1736	-2790	672	508	163.53	4.107		
9079	5557	8557	5362	91	86	73.19	1788	-2849	671	504	167.26	4.014		
9100	5557	8578	5363	91	87	73.19	1802	-2865	671	503	168.25	3.990		
9179	5557	8657	5363	93	89	73.18	1854	-2925	671	499	171.99	3.902		
9200	5557	8678	5363	94	89	73.17	1868	-2940	671	498	172.97	3.879		
9279	5558	8757	5363	95	91	73.16	1920	-3000	671	494	176.72	3.796		
9300	5558	8778	5363	96	92	73.16	1933	-3016	671	493	177.70	3.775		
9379	5558	8857	5364	98	94	73.14	1985	-3075	671	489	181.45	3.695		
9400	5558	8878	5364	98	94	73.14	1999	-3091	670	488	182.44	3.675		
9479	5559	8957	5364	100	96	73.13	2051	-3151	670	484	186.19	3.600		
9500	5559	8978	5364	101	97	73.12	2065	-3167	670	483	187.18	3.581		
9579	5559	9057	5365	103	99	73.11	2117	-3226	670	479	190.93	3.509		
9600	5559	9078	5365	103	99	73.11	2130	-3242	670	478	191.92	3.491		
9679	5560	9157	5365	105	101	73.09	2182	-3302	670	474	195.68	3.422		
9700	5560	9178	5365	106	102	73.09	2196	-3317	670	473	196.67	3.405		
9779	5560	9257	5365	108	103	73.08	2248	-3377	669	469	200.43	3.340		
9800	5560	9278	5366	108	104	73.07	2262	-3393	669	468	201.42	3.323		

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 # 205H - Slot 3
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:	# 205H	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		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (fts)	Minimum Separation (ft)	Separation Factor	Warning	
9879	5561	9357	5366	110	106	73.06	2314	-3453	669	464	205.19	3.261		
9900	5561	9378	5366	111	106	73.06	2327	-3468	669	463	206.18	3.245		
9979	5561	9457	5366	113	108	73.04	2379	-3528	669	459	209.94	3.186		
10,000	5562	9478	5366	113	109	73.04	2393	-3544	669	458	210.94	3.171		
10,079	5562	9557	5367	115	111	73.03	2445	-3603	669	454	214.70	3.114		
10,100	5562	9578	5367	115	111	73.02	2459	-3619	669	453	215.70	3.100		
10,179	5562	9657	5367	117	113	73.01	2511	-3679	668	449	219.47	3.045		
10,200	5563	9678	5367	118	114	73.01	2524	-3694	668	448	220.46	3.031		
10,279	5563	9757	5368	120	116	73.00	2576	-3754	668	444	224.23	2.979		
10,300	5563	9778	5368	120	116	72.99	2590	-3770	668	443	225.23	2.966		
10,379	5564	9857	5368	122	118	72.98	2642	-3830	668	439	229.00	2.916		
10,400	5564	9878	5368	123	119	72.98	2656	-3845	668	438	229.99	2.903		
10,479	5564	9957	5369	125	121	72.96	2708	-3905	668	434	233.77	2.855		
10,500	5564	9978	5369	125	121	72.96	2721	-3921	667	433	234.76	2.843		
10,579	5565	10,057	5369	127	123	72.95	2773	-3980	667	429	238.54	2.797		
10,600	5565	10,078	5369	128	124	72.94	2787	-3996	667	428	239.54	2.785		
10,679	5565	10,157	5369	130	126	72.93	2839	-4056	667	424	243.31	2.741		
10,700	5565	10,178	5369	130	126	72.93	2853	-4072	667	423	244.31	2.730		
10,779	5566	10,257	5370	132	128	72.91	2905	-4131	667	419	248.09	2.687		
10,800	5566	10,278	5370	133	129	72.91	2918	-4147	667	418	249.08	2.676		
10,879	5566	10,357	5370	135	131	72.90	2970	-4207	666	414	252.86	2.636		
10,900	5566	10,378	5370	135	131	72.89	2984	-4222	666	413	253.86	2.625		
10,979	5567	10,457	5371	137	133	72.88	3036	-4282	666	409	257.64	2.586		
11,000	5567	10,478	5371	138	134	72.88	3050	-4298	666	407	258.64	2.575		
11,079	5567	10,557	5371	140	136	72.86	3102	-4357	666	403	262.42	2.538		
11,100	5567	10,578	5371	140	136	72.86	3116	-4373	666	402	263.42	2.528		
11,179	5568	10,657	5372	142	138	72.85	3167	-4433	666	398	267.20	2.491		
11,200	5568	10,678	5372	143	139	72.84	3181	-4449	666	397	268.20	2.482		
11,279	5568	10,757	5372	145	141	72.83	3233	-4508	665	393	271.98	2.446		
11,300	5568	10,778	5372	145	141	72.83	3247	-4524	665	392	272.98	2.437		
11,379	5569	10,857	5372	147	143	72.81	3299	-4584	665	388	276.76	2.403		
11,400	5569	10,878	5373	148	144	72.81	3313	-4599	665	387	277.76	2.394		
11,479	5569	10,957	5373	150	146	72.80	3365	-4659	665	383	281.54	2.361		
11,500	5570	10,978	5373	150	146	72.79	3378	-4675	665	382	282.54	2.353		
11,579	5570	11,057	5373	152	148	72.78	3430	-4734	665	378	286.33	2.321		
11,600	5570	11,078	5373	153	149	72.78	3444	-4750	664	377	287.32	2.313		
11,679	5571	11,157	5374	155	151	72.76	3496	-4810	664	373	291.11	2.282		
11,700	5571	11,178	5374	155	151	72.76	3510	-4826	664	372	292.11	2.274		
11,779	5571	11,257	5374	157	153	72.75	3562	-4885	664	368	295.89	2.244		
11,800	5571	11,278	5374	158	154	72.74	3575	-4901	664	367	296.89	2.236		
11,879	5572	11,357	5375	160	156	72.73	3627	-4961	664	363	300.68	2.207		
11,900	5572	11,378	5375	160	156	72.73	3641	-4976	664	362	301.68	2.200		
11,979	5572	11,457	5375	162	158	72.71	3693	-5036	663	358	305.46	2.172		
12,000	5572	11,478	5375	163	159	72.71	3707	-5052	663	357	306.46	2.165		
12,079	5573	11,557	5375	165	161	72.70	3759	-5111	663	353	310.25	2.138		
12,100	5573	11,578	5376	165	161	72.69	3772	-5127	663	352	311.24	2.131		
12,179	5573	11,657	5376	167	163	72.68	3824	-5187	663	348	315.03	2.104		
12,200	5573	11,678	5376	168	164	72.68	3838	-5203	663	347	316.03	2.097		
12,279	5574	11,757	5376	170	166	72.66	3890	-5262	663	343	319.82	2.072		
12,300	5574	11,778	5376	170	166	72.66	3904	-5278	663	342	320.82	2.065		
12,379	5574	11,857	5377	172	168	72.65	3956	-5338	662	338	324.60	2.041		
12,400	5574	11,878	5377	173	169	72.64	3969	-5353	662	337	325.60	2.034		

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 # 205H - Slot 3
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:	# 205H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
12,434	5575	11,910	5377	173	170	72.64	3990	-5377	662	335	327.11	2.024 SF	
12,500	5575	11,910	5377	175	170	72.64	3990	-5377	666	341	324.89	2.048	
12,600	5575	11,910	5377	178	170	72.64	3990	-5377	683	367	315.95	2.161	
12,700	5576	11,910	5377	180	170	72.64	3990	-5377	714	412	301.71	2.366	
12,800	5577	11,910	5377	183	170	72.64	3990	-5377	757	473	284.21	2.663	
12,900	5577	11,910	5377	185	170	72.64	3990	-5377	810	545	265.39	3.052	
13,000	5578	11,910	5377	188	170	72.64	3990	-5377	871	625	246.66	3.533	
13,100	5578	11,910	5377	190	170	72.64	3990	-5377	939	711	228.90	4.104	
13,200	5579	11,910	5377	193	170	72.64	3990	-5377	1013	800	212.54	4.766	
13,252	5579	11,910	5377	194	170	72.64	3990	-5377	1052	848	204.70	5.141	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
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:	# 205H	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 - Federal 1-A - OH - OH													Offset Site Error:	0 ft
Survey Program: 5680-INCLINOMETER													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	19	19	0	1	-63.83	2407	-4898	5457					
100	100	119	119	0	4	-63.83	2407	-4898	5457	5453	3.92	1,391.310		
200	200	219	219	1	7	-63.83	2407	-4898	5457	5450	7.32	745.760		
300	300	319	319	1	10	-63.83	2407	-4898	5457	5447	10.71	509.403		
350	350	369	369	1	11	-63.83	2407	-4898	5457	5445	12.41	439.722		
400	400	419	419	1	13	91.33	2407	-4898	5457	5443	14.10	387.043		
500	500	519	519	2	16	91.36	2407	-4898	5457	5440	17.47	312.394		
600	600	619	619	2	19	91.43	2407	-4898	5458	5437	20.85	261.762		
700	699	718	718	2	22	91.54	2407	-4898	5458	5434	24.24	225.162		
800	798	817	817	3	25	91.67	2407	-4898	5458	5431	27.64	197.455		
900	897	916	916	3	28	91.84	2407	-4898	5459	5428	31.06	175.739		
1000	994	1013	1013	4	31	92.04	2407	-4898	5459	5425	34.50	158.253		
1062	1055	1074	1074	4	33	92.18	2407	-4898	5460	5423	36.65	148.995		
1100	1092	1111	1111	4	34	92.27	2407	-4898	5460	5422	37.95	143.870		
1200	1188	1207	1207	5	37	92.52	2407	-4898	5461	5420	41.43	131.831		
1300	1285	1304	1304	5	40	92.77	2407	-4898	5463	5418	44.91	121.624		
1400	1382	1401	1401	6	43	93.02	2407	-4898	5464	5416	48.41	112.868		
1500	1479	1498	1498	6	45	93.27	2407	-4898	5465	5413	51.91	105.281		
1600	1576	1595	1595	7	48	93.52	2407	-4898	5467	5411	55.42	98.645		
1700	1673	1692	1692	8	51	93.77	2407	-4898	5468	5410	58.93	92.796		
1800	1770	1789	1789	8	54	94.02	2407	-4898	5470	5408	62.44	87.602		
1900	1867	1886	1886	9	57	94.27	2407	-4898	5472	5406	65.96	82.960		
2000	1964	1983	1983	9	60	94.52	2407	-4898	5474	5404	69.48	78.787		
2100	2061	2080	2080	10	63	94.77	2407	-4898	5476	5403	73.00	75.017		
2200	2158	2177	2177	10	66	95.02	2407	-4898	5478	5402	76.52	71.594		
2300	2255	2274	2274	11	69	95.27	2407	-4898	5480	5400	80.04	68.473		
2400	2352	2371	2371	12	72	95.51	2407	-4898	5483	5399	83.56	65.616		
2500	2448	2467	2467	12	75	95.76	2407	-4898	5485	5398	87.08	62.990		
2600	2545	2564	2564	13	78	96.01	2407	-4898	5488	5397	90.60	60.570		
2700	2642	2661	2661	13	81	96.26	2407	-4898	5491	5396	94.13	58.332		
2800	2739	2758	2758	14	84	96.51	2407	-4898	5493	5396	97.65	56.257		
2900	2836	2855	2855	15	87	96.75	2407	-4898	5496	5395	101.17	54.327		
3000	2933	2952	2952	15	90	97.00	2407	-4898	5499	5395	104.70	52.528		
3100	3030	3049	3049	16	93	97.25	2407	-4898	5503	5394	108.22	50.847		
3200	3127	3146	3146	16	96	97.49	2407	-4898	5506	5394	111.74	49.273		
3300	3224	3243	3243	17	98	97.74	2407	-4898	5509	5394	115.26	47.797		
3400	3321	3340	3340	17	101	97.98	2407	-4898	5513	5394	118.78	46.409		
3500	3418	3437	3437	18	104	98.23	2407	-4898	5516	5394	122.31	45.102		
3600	3515	3534	3534	19	107	98.47	2407	-4898	5520	5394	125.83	43.869		
3700	3612	3631	3631	19	110	98.72	2407	-4898	5524	5394	129.35	42.704		
3800	3709	3728	3728	20	113	98.96	2407	-4898	5528	5395	132.87	41.602		
3900	3805	3824	3824	20	116	99.21	2407	-4898	5532	5395	136.39	40.558		
4000	3902	3921	3921	21	119	99.45	2407	-4898	5536	5396	139.91	39.567		
4100	3999	4018	4018	22	122	99.70	2407	-4898	5540	5397	143.43	38.626		
4200	4096	4115	4115	22	125	99.94	2407	-4898	5544	5397	146.94	37.730		
4300	4193	4212	4212	23	128	100.18	2407	-4898	5549	5398	150.46	36.878		
4400	4290	4309	4309	23	131	100.42	2407	-4898	5553	5399	153.98	36.065		
4500	4387	4406	4406	24	134	100.67	2407	-4898	5558	5400	157.50	35.289		
4600	4484	4503	4503	25	137	100.91	2407	-4898	5563	5402	161.01	34.548		
4700	4581	4600	4600	25	140	101.15	2407	-4898	5567	5403	164.53	33.839		
4800	4678	4697	4697	26	143	101.39	2407	-4898	5572	5404	168.04	33.161		
4900	4775	4794	4794	26	146	101.63	2407	-4898	5577	5406	171.55	32.511		

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 # 205H - Slot 3
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:	# 205H	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 - Federal 1-A - OH - OH											Offset Site Error:	0 ft
Survey Program: 5680-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
5000	4872	4891	4891	27	149	101.87	2407	-4898	5583	5408	175.07	31.888
5104	4973	4992	4992	27	152	102.12	2407	-4898	5588	5409	178.74	31.265
5150	5017	5036	5036	28	153	83.02	2407	-4898	5589	5408	180.33	30.991
5200	5066	5085	5085	28	154	62.98	2407	-4898	5585	5403	182.08	30.673
5250	5114	5133	5133	28	156	47.60	2407	-4898	5577	5393	183.80	30.342
5300	5161	5180	5180	28	157	36.97	2407	-4898	5564	5378	185.47	29.999
5350	5207	5226	5226	29	159	29.68	2407	-4898	5547	5360	187.09	29.648
5400	5251	5270	5270	29	160	24.54	2407	-4898	5526	5337	188.65	29.291
5450	5293	5312	5312	29	161	20.77	2407	-4898	5500	5310	190.12	28.930
5500	5333	5352	5352	29	163	17.90	2407	-4898	5471	5280	191.51	28.569
5550	5370	5389	5389	29	164	15.63	2407	-4898	5439	5246	192.80	28.209
5600	5404	5423	5423	29	165	13.73	2407	-4898	5403	5209	193.97	27.852
5650	5435	5454	5454	29	166	12.06	2407	-4898	5364	5169	195.03	27.502
5700	5462	5481	5481	30	166	10.47	2407	-4898	5322	5126	195.95	27.159
5750	5485	5504	5504	30	167	8.79	2407	-4898	5278	5081	196.74	26.826
5800	5505	5524	5524	30	168	6.76	2407	-4898	5232	5035	197.39	26.506
5850	5520	5539	5539	30	168	3.81	2407	-4898	5184	4986	197.89	26.198
5900	5531	5550	5550	30	169	-1.69	2407	-4898	5136	4937	198.24	25.906
5950	5538	5557	5557	30	169	-17.27	2407	-4898	5086	4888	198.43	25.631
5997	5540	5559	5559	30	169	-83.62	2407	-4898	5040	4841	198.48	25.391
6000	5540	5559	5559	30	169	-83.63	2407	-4898	5036	4838	198.48	25.374
6100	5541	5560	5560	31	169	-83.75	2407	-4898	4936	4738	198.43	24.877
6200	5541	5560	5560	31	169	-83.88	2407	-4898	4836	4638	198.38	24.379
6300	5542	5561	5561	32	169	-84.00	2407	-4898	4737	4538	198.33	23.882
6400	5542	5561	5561	33	169	-84.13	2407	-4898	4637	4438	198.28	23.385
6500	5543	5562	5562	35	169	-84.26	2407	-4898	4537	4339	198.23	22.887
6600	5543	5562	5562	36	169	-84.38	2407	-4898	4437	4239	198.17	22.390
6700	5544	5563	5563	38	169	-84.51	2407	-4898	4337	4139	198.11	21.893
6800	5544	5563	5563	39	169	-84.63	2407	-4898	4237	4039	198.05	21.395
6900	5545	5564	5564	41	169	-84.76	2407	-4898	4137	3939	197.99	20.898
7000	5545	5564	5564	43	169	-84.89	2407	-4898	4038	3840	197.92	20.400
7100	5546	5565	5565	45	169	-85.01	2407	-4898	3938	3740	197.85	19.903
7200	5546	5565	5565	47	169	-85.14	2407	-4898	3838	3640	197.78	19.406
7300	5547	5566	5566	49	169	-85.26	2407	-4898	3738	3541	197.70	18.908
7400	5548	5567	5567	52	169	-85.39	2407	-4898	3638	3441	197.63	18.411
7500	5548	5567	5567	54	169	-85.52	2407	-4898	3539	3341	197.55	17.913
7600	5549	5568	5568	56	169	-85.64	2407	-4898	3439	3241	197.46	17.416
7700	5549	5568	5568	58	169	-85.77	2407	-4898	3339	3142	197.37	16.918
7800	5550	5569	5569	60	169	-85.90	2407	-4898	3239	3042	197.28	16.421
7900	5550	5569	5569	63	169	-86.02	2407	-4898	3140	2943	197.18	15.923
8000	5551	5570	5570	65	169	-86.15	2407	-4898	3040	2843	197.08	15.425
8100	5551	5570	5570	67	169	-86.28	2407	-4898	2940	2743	196.98	14.927
8200	5552	5571	5571	70	169	-86.40	2407	-4898	2841	2644	196.87	14.430
8300	5552	5571	5571	72	169	-86.53	2407	-4898	2741	2544	196.76	13.931
8400	5553	5572	5572	74	169	-86.66	2407	-4898	2642	2445	196.64	13.433
8500	5553	5572	5572	77	169	-86.78	2407	-4898	2542	2345	196.52	12.935
8600	5554	5573	5573	79	169	-86.91	2407	-4898	2442	2246	196.40	12.436
8700	5555	5574	5574	81	169	-87.04	2407	-4898	2343	2147	196.27	11.937
8800	5555	5574	5574	84	169	-87.16	2407	-4898	2244	2047	196.15	11.438
8900	5556	5575	5575	86	169	-87.29	2407	-4898	2144	1948	196.02	10.938
9000	5556	5575	5575	89	169	-87.42	2407	-4898	2045	1849	195.91	10.438
9100	5557	5576	5576	91	169	-87.55	2407	-4898	1946	1750	195.79	9.937

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 # 205H - Slot 3
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:	# 205H	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 - Federal 1-A - OH - OH											Offset Site Error:	0 ft
Survey Program: 5680-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)	
9200	5557	5576	5576	94	169	-87.67	2407	-4898	1846	1651	195.70	9.435
9300	5558	5577	5577	96	169	-87.80	2407	-4898	1747	1552	195.62	8.932
9400	5558	5577	5577	98	169	-87.93	2407	-4898	1648	1453	195.58	8.428
9500	5559	5578	5578	101	169	-88.05	2407	-4898	1549	1354	195.59	7.922
9600	5559	5578	5578	103	169	-88.18	2407	-4898	1451	1255	195.68	7.414
9700	5560	5579	5579	106	169	-88.31	2407	-4898	1352	1156	195.87	6.904
9800	5560	5579	5579	108	169	-88.43	2407	-4898	1254	1058	196.21	6.391
9900	5561	5580	5580	111	169	-88.56	2407	-4898	1156	959	196.78	5.875
10,000	5562	5581	5581	113	169	-88.69	2407	-4898	1058	861	197.68	5.355
10,100	5562	5581	5581	115	169	-88.82	2407	-4898	961	762	199.03	4.830
10,200	5563	5582	5582	118	170	-88.94	2407	-4898	865	664	201.05	4.302
10,300	5563	5582	5582	120	170	-89.07	2407	-4898	770	565	204.03	3.772
10,400	5564	5583	5583	123	170	-89.20	2407	-4898	675	467	208.38	3.241
10,500	5564	5583	5583	125	170	-89.33	2407	-4898	583	368	214.74	2.715
10,600	5565	5584	5584	128	170	-89.45	2407	-4898	494	270	224.01	2.205
10,700	5565	5584	5584	130	170	-89.58	2407	-4898	410	172	237.53	1.725
10,800	5566	5585	5585	133	170	-89.71	2407	-4898	334	77	256.80	1.301 Level 3
10,900	5566	5585	5585	135	170	-89.83	2407	-4898	275	-7	281.54	0.977 Level 3
11,000	5567	5586	5586	138	170	-89.96	2407	-4898	244	-60	303.61	0.804 Level 3
11,030	5567	5586	5586	138	170	-90.00	2407	-4898	242	-65	307.27	0.788 Level 3, CC, ES, SF
11,100	5567	5586	5586	140	170	-90.09	2407	-4898	252	-56	307.94	0.818 Level 3
11,200	5568	5587	5587	143	170	-90.22	2407	-4898	296	0	295.42	1.000 Level 3
11,300	5568	5587	5587	145	170	-90.34	2407	-4898	362	83	279.16	1.298 Level 3
11,400	5569	5588	5588	148	170	-90.47	2407	-4898	442	176	265.44	1.664
11,500	5570	5589	5589	150	170	-90.60	2407	-4898	528	273	254.98	2.072
11,600	5570	5589	5589	153	170	-90.72	2407	-4898	619	372	247.10	2.504
11,700	5571	5590	5590	155	170	-90.85	2407	-4898	712	471	241.10	2.953
11,800	5571	5590	5590	158	170	-90.98	2407	-4898	807	570	236.44	3.412
11,900	5572	5591	5591	160	170	-91.11	2407	-4898	903	670	232.75	3.878
12,000	5572	5591	5591	163	170	-91.23	2407	-4898	999	770	229.77	4.349
12,100	5573	5592	5592	165	170	-91.36	2407	-4898	1097	869	227.34	4.824
12,200	5573	5592	5592	168	170	-91.49	2407	-4898	1194	969	225.31	5.301
12,300	5574	5593	5593	170	170	-91.61	2407	-4898	1292	1069	223.61	5.780
12,400	5574	5593	5593	173	170	-91.74	2407	-4898	1391	1169	222.16	6.260
12,500	5575	5594	5594	175	170	-91.87	2407	-4898	1489	1268	220.92	6.742
12,600	5575	5594	5594	178	170	-92.00	2407	-4898	1588	1368	219.85	7.224
12,700	5576	5595	5595	180	170	-92.12	2407	-4898	1687	1468	218.91	7.706
12,800	5577	5596	5596	183	170	-92.25	2407	-4898	1786	1568	218.09	8.189
12,900	5577	5596	5596	185	170	-92.38	2407	-4898	1885	1668	217.37	8.673
13,000	5578	5597	5597	188	170	-92.50	2407	-4898	1984	1768	216.73	9.156
13,100	5578	5597	5597	190	170	-92.63	2407	-4898	2084	1867	216.16	9.639
13,200	5579	5598	5598	193	170	-92.76	2407	-4898	2183	1967	215.65	10.123
13,252	5579	5598	5598	194	170	-92.82	2407	-4898	2234	2019	215.41	10.372

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 # 205H - Slot 3
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:	# 205H	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 - Federal B-10 - OH - OH													Offset Site Error:	0 ft
Survey Program: 104-INCLINOMETER													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	87	87	0	3	-61.34	3491	-6387	7279					
100	100	187	187	0	6	-61.34	3491	-6387	7279	7273	5.99	1,215.732		
200	200	288	288	1	9	-61.34	3491	-6387	7279	7270	9.43	772.110		
300	300	387	387	1	12	-61.34	3491	-6387	7279	7266	12.78	569.642		
350	350	437	437	1	13	-61.34	3491	-6387	7279	7264	14.48	502.837		
400	400	487	487	1	15	93.81	3491	-6387	7279	7263	16.16	450.293		
500	500	587	587	2	18	93.83	3491	-6387	7279	7260	19.53	372.633		
600	600	690	690	2	21	93.88	3491	-6387	7280	7257	23.02	316.187		
700	699	796	796	2	24	93.96	3491	-6387	7281	7254	26.60	273.658		
800	798	901	901	3	27	94.05	3491	-6387	7281	7251	30.20	241.115		
900	897	984	984	3	30	94.14	3491	-6387	7283	7249	33.13	219.839		
1000	994	1081	1081	4	33	94.27	3491	-6387	7284	7248	36.56	199.220		
1062	1055	1148	1148	4	35	94.38	3491	-6387	7286	7247	38.90	187.295		
1100	1092	1190	1189	4	36	94.46	3491	-6387	7286	7246	40.35	180.576		
1200	1188	1299	1299	5	39	94.66	3491	-6387	7288	7244	44.21	164.861		
1300	1285	1372	1372	5	42	94.80	3491	-6387	7290	7243	46.98	155.185		
1400	1382	1469	1469	6	45	94.99	3491	-6387	7292	7242	50.47	144.484		
1500	1479	1567	1567	6	48	95.18	3491	-6387	7295	7241	53.99	135.114		
1600	1576	1667	1667	7	51	95.37	3491	-6387	7297	7239	57.59	126.699		
1700	1673	1767	1767	8	54	95.57	3491	-6387	7299	7238	61.20	119.267		
1800	1770	1857	1857	8	56	95.74	3491	-6387	7302	7237	64.50	113.201		
1900	1867	1987	1987	9	60	95.99	3491	-6387	7305	7236	69.02	105.832		
2000	1964	2051	2051	9	62	96.11	3491	-6387	7307	7235	71.54	102.145		
2100	2061	2148	2148	10	65	96.30	3491	-6387	7310	7235	75.05	97.394		
2200	2158	2272	2272	10	69	96.54	3491	-6387	7313	7233	79.41	92.090		
2300	2255	2342	2342	11	71	96.67	3491	-6387	7315	7233	82.09	89.111		
2400	2352	2439	2439	12	74	96.85	3491	-6387	7318	7233	85.62	85.481		
2500	2448	2559	2559	12	78	97.09	3491	-6387	7322	7232	89.84	81.495		
2600	2545	2633	2632	13	80	97.22	3491	-6387	7325	7232	92.66	79.049		
2700	2642	2730	2729	13	83	97.41	3491	-6387	7328	7232	96.18	76.188		
2800	2739	2829	2828	14	86	97.60	3491	-6387	7332	7232	99.77	73.484		
2900	2836	2940	2940	15	89	97.81	3491	-6387	7335	7231	103.73	70.714		
3000	2933	3020	3020	15	92	97.96	3491	-6387	7338	7231	106.75	68.741		
3100	3030	3117	3117	16	95	98.15	3491	-6387	7342	7231	110.27	66.577		
3200	3127	3214	3214	16	98	98.33	3491	-6387	7345	7231	113.80	64.548		
3300	3224	3319	3319	17	101	98.54	3492	-6387	7350	7232	117.57	62.515		
3400	3321	3433	3432	17	104	98.75	3491	-6387	7353	7232	121.59	60.477		
3500	3418	3546	3546	18	108	98.96	3490	-6387	7357	7231	125.61	58.565		
3600	3515	3602	3602	19	109	99.07	3491	-6387	7361	7233	127.89	57.556		
3700	3612	3717	3717	19	113	99.29	3492	-6387	7365	7233	131.97	55.810		
3800	3709	3868	3867	20	117	99.56	3490	-6387	7369	7232	137.10	53.746		
3900	3805	3893	3892	20	118	99.62	3491	-6387	7373	7235	138.45	53.253		
4000	3902	3990	3989	21	121	99.80	3491	-6387	7377	7235	141.97	51.962		
4100	3999	4087	4086	22	124	99.99	3492	-6387	7382	7237	145.50	50.736		
4200	4096	4195	4195	22	127	100.19	3491	-6387	7386	7237	149.37	49.452		
4300	4193	4304	4303	23	131	100.39	3491	-6387	7391	7238	153.24	48.230		
4400	4290	4378	4377	23	133	100.53	3491	-6387	7395	7239	156.05	47.389		
4500	4387	4475	4474	24	136	100.71	3491	-6387	7400	7240	159.57	46.373		
4600	4484	4582	4582	25	139	100.91	3491	-6387	7405	7241	163.42	45.310		
4700	4581	4668	4668	25	142	101.07	3491	-6387	7409	7243	166.61	44.472		
4800	4678	4765	4765	26	145	101.25	3491	-6387	7414	7244	170.13	43.581		
4900	4775	4879	4879	26	148	101.47	3491	-6387	7420	7246	174.16	42.604		

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 # 205H - Slot 3
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:	# 205H	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 - Federal B-10 - OH - OH											Offset Site Error:	0 ft
Survey Program: 104-INCLINOMETER											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
5000	4872	5006	5006	27	152	101.70	3490	-6387	7424	7246	178.60	41.570
5104	4973	5060	5060	27	154	101.80	3491	-6387	7430	7249	180.83	41.086
5150	5017	5105	5104	28	155	82.68	3491	-6387	7430	7248	182.43	40.728
5200	5066	5153	5153	28	156	62.60	3491	-6387	7426	7242	184.18	40.322
5250	5114	5201	5201	28	158	47.19	3491	-6387	7418	7232	185.90	39.904
5300	5161	5254	5254	28	160	36.53	3492	-6387	7406	7218	187.76	39.444
5350	5207	5309	5308	29	161	29.21	3492	-6387	7389	7199	189.64	38.961
5400	5251	5362	5361	29	163	24.04	3491	-6387	7367	7176	191.45	38.481
5450	5293	5412	5411	29	164	20.23	3491	-6387	7342	7149	193.17	38.007
5500	5333	5459	5458	29	166	17.30	3491	-6387	7312	7118	194.78	37.542
5550	5370	5503	5502	29	167	14.95	3490	-6387	7279	7083	196.27	37.089
5600	5404	5492	5491	29	167	12.86	3491	-6387	7243	7047	196.07	36.944
5650	5435	5522	5522	29	168	11.05	3491	-6387	7204	7007	197.12	36.549
5700	5462	5550	5549	30	169	9.28	3491	-6387	7163	6965	198.04	36.169
5750	5485	5573	5572	30	169	7.35	3491	-6387	7119	6920	198.82	35.805
5800	5505	5593	5592	30	170	4.93	3491	-6387	7073	6873	199.46	35.459
5850	5520	5608	5607	30	170	1.35	3491	-6387	7025	6825	199.95	35.134
5900	5531	5619	5618	30	171	-5.39	3491	-6387	6976	6776	200.29	34.830
5950	5538	5625	5625	30	171	-23.80	3491	-6387	6927	6726	200.48	34.551
5997	5540	5628	5627	30	171	-84.85	3491	-6387	6880	6680	200.52	34.312
6000	5540	5628	5627	30	171	-84.85	3491	-6387	6877	6676	200.52	34.295
6100	5541	5628	5628	31	171	-84.92	3491	-6387	6777	6577	200.46	33.808
6200	5541	5629	5628	31	171	-85.00	3491	-6387	6677	6477	200.40	33.320
6300	5542	5629	5629	32	171	-85.07	3491	-6387	6577	6377	200.33	32.833
6400	5542	5630	5629	33	171	-85.15	3491	-6387	6478	6277	200.27	32.345
6500	5543	5630	5630	35	171	-85.22	3491	-6387	6378	6178	200.20	31.857
6600	5543	5631	5630	36	171	-85.30	3491	-6387	6278	6078	200.14	31.369
6700	5544	5631	5631	38	171	-85.38	3491	-6387	6179	5979	200.07	30.882
6800	5544	5632	5631	39	171	-85.46	3491	-6387	6079	5879	200.01	30.394
6900	5545	5633	5632	41	171	-85.55	3491	-6387	5979	5779	199.94	29.905
7000	5545	5633	5633	43	171	-85.64	3491	-6387	5879	5679	199.87	29.416
7100	5546	5634	5633	45	171	-85.72	3491	-6387	5780	5580	199.80	28.927
7200	5546	5635	5634	47	171	-85.81	3491	-6387	5680	5480	199.73	28.438
7300	5547	5635	5635	49	171	-85.89	3491	-6387	5580	5380	199.65	27.949
7400	5548	5636	5635	52	171	-85.98	3491	-6387	5480	5281	199.58	27.460
7500	5548	5636	5636	54	171	-86.06	3491	-6387	5381	5181	199.50	26.970
7600	5549	5637	5636	56	171	-86.14	3491	-6387	5281	5082	199.43	26.481
7700	5549	5638	5637	58	171	-86.23	3491	-6387	5181	4982	199.35	25.991
7800	5550	5638	5638	60	171	-86.31	3491	-6387	5082	4882	199.27	25.502
7900	5550	5639	5638	63	171	-86.39	3491	-6387	4982	4783	199.19	25.012
8000	5551	5639	5639	65	171	-86.47	3491	-6387	4882	4683	199.10	24.521
8100	5551	5640	5639	67	171	-86.55	3491	-6387	4783	4584	199.02	24.031
8200	5552	5641	5640	70	171	-86.63	3491	-6387	4683	4484	198.94	23.540
8300	5552	5641	5640	72	171	-86.71	3491	-6387	4583	4385	198.85	23.050
8400	5553	5642	5641	74	171	-86.79	3491	-6387	4484	4285	198.77	22.558
8500	5553	5642	5642	77	171	-86.87	3491	-6387	4384	4186	198.68	22.067
8600	5554	5643	5642	79	171	-86.95	3491	-6387	4285	4086	198.59	21.575
8700	5555	5643	5643	81	171	-87.03	3491	-6387	4185	3987	198.51	21.083
8800	5555	5644	5643	84	171	-87.11	3491	-6387	4086	3887	198.43	20.590
8900	5556	5644	5644	86	171	-87.18	3491	-6387	3986	3788	198.34	20.097
9000	5556	5645	5644	89	171	-87.26	3491	-6387	3887	3688	198.26	19.604
9100	5557	5646	5645	91	171	-87.34	3491	-6387	3787	3589	198.19	19.109

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 # 205H - Slot 3
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:	# 205H	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 - Federal B-10 - OH - OH												Offset Site Error:	0 ft
Survey Program: 104-INCLINOMETER												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9200	5557	5646	5645	94	171	-87.41	3491	-6387	3688	3490	198.12	18.615	
9300	5558	5647	5646	96	171	-87.49	3491	-6387	3589	3390	198.05	18.119	
9400	5558	5647	5647	98	171	-87.56	3491	-6387	3489	3291	197.99	17.623	
9500	5559	5648	5647	101	172	-87.64	3491	-6387	3390	3192	197.94	17.126	
9600	5559	5648	5648	103	172	-87.71	3491	-6387	3291	3093	197.91	16.627	
9700	5560	5649	5648	106	172	-87.79	3491	-6387	3191	2994	197.88	16.128	
9800	5560	5649	5649	108	172	-87.86	3491	-6387	3092	2894	197.88	15.627	
9900	5561	5650	5649	111	172	-87.94	3491	-6387	2993	2795	197.89	15.126	
10,000	5562	5650	5650	113	172	-88.01	3491	-6387	2894	2696	197.93	14.622	
10,100	5562	5651	5650	115	172	-88.08	3491	-6387	2795	2597	198.00	14.117	
10,200	5563	5651	5651	118	172	-88.15	3491	-6387	2696	2498	198.12	13.610	
10,300	5563	5652	5651	120	172	-88.22	3491	-6387	2598	2399	198.27	13.101	
10,400	5564	5652	5652	123	172	-88.30	3491	-6387	2499	2300	198.49	12.590	
10,500	5564	5653	5652	125	172	-88.37	3491	-6387	2400	2201	198.77	12.076	
10,600	5565	5653	5653	128	172	-88.44	3491	-6387	2302	2103	199.13	11.559	
10,700	5565	5654	5653	130	172	-88.51	3491	-6387	2203	2004	199.59	11.040	
10,800	5566	5654	5654	133	172	-88.58	3491	-6387	2105	1905	200.17	10.517	
10,900	5566	5655	5654	135	172	-88.65	3491	-6387	2007	1806	200.89	9.992	
11,000	5567	5655	5655	138	172	-88.72	3491	-6387	1909	1708	201.79	9.463	
11,100	5567	5656	5655	140	172	-88.79	3491	-6387	1812	1609	202.89	8.931	
11,200	5568	5656	5656	143	172	-88.85	3491	-6387	1715	1510	204.23	8.396	
11,300	5568	5657	5656	145	172	-88.92	3491	-6387	1618	1412	205.86	7.858	
11,400	5569	5657	5657	148	172	-88.99	3491	-6387	1521	1313	207.85	7.318	
11,500	5570	5658	5657	150	172	-89.06	3491	-6387	1425	1215	210.26	6.778	
11,600	5570	5658	5658	153	172	-89.12	3491	-6387	1330	1116	213.18	6.237	
11,700	5571	5659	5658	155	172	-89.19	3491	-6387	1235	1018	216.72	5.698	
11,800	5571	5659	5659	158	172	-89.26	3491	-6387	1141	920	221.01	5.162	
11,900	5572	5660	5659	160	172	-89.32	3491	-6387	1048	822	226.23	4.633	
12,000	5572	5660	5660	163	172	-89.39	3491	-6387	957	724	232.60	4.114	
12,100	5573	5661	5660	165	172	-89.46	3491	-6387	868	627	240.39	3.609	
12,200	5573	5661	5660	168	172	-89.52	3491	-6387	781	531	249.96	3.124	
12,300	5574	5662	5661	170	172	-89.58	3491	-6387	698	436	261.72	2.665	
12,400	5574	5662	5661	173	172	-89.65	3491	-6387	619	343	276.09	2.243	
12,500	5575	5663	5662	175	172	-89.71	3491	-6387	548	255	293.30	1.869	
12,600	5575	5663	5662	178	172	-89.78	3491	-6387	487	174	312.92	1.557	
12,700	5576	5663	5663	180	172	-89.84	3491	-6387	441	108	332.96	1.324	Level 3
12,800	5577	5664	5663	183	172	-89.90	3491	-6387	414	65	349.28	1.185	Level 3
12,865	5577	5664	5664	184	172	-89.94	3491	-6387	409	53	355.53	1.150	Level 3, CC
12,900	5577	5664	5664	185	172	-89.97	3491	-6387	410	53	357.04	1.149	Level 3, ES, SF
13,000	5578	5665	5664	188	172	-90.03	3491	-6387	431	76	354.49	1.214	Level 3
13,100	5578	5665	5665	190	172	-90.09	3491	-6387	471	127	344.41	1.369	Level 3
13,200	5579	5666	5665	193	172	-90.15	3491	-6387	528	197	331.14	1.596	
13,252	5579	5666	5665	194	172	-90.18	3491	-6387	563	238	324.13	1.736	

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



Lonestar Consulting, LLC

Anticollision Report

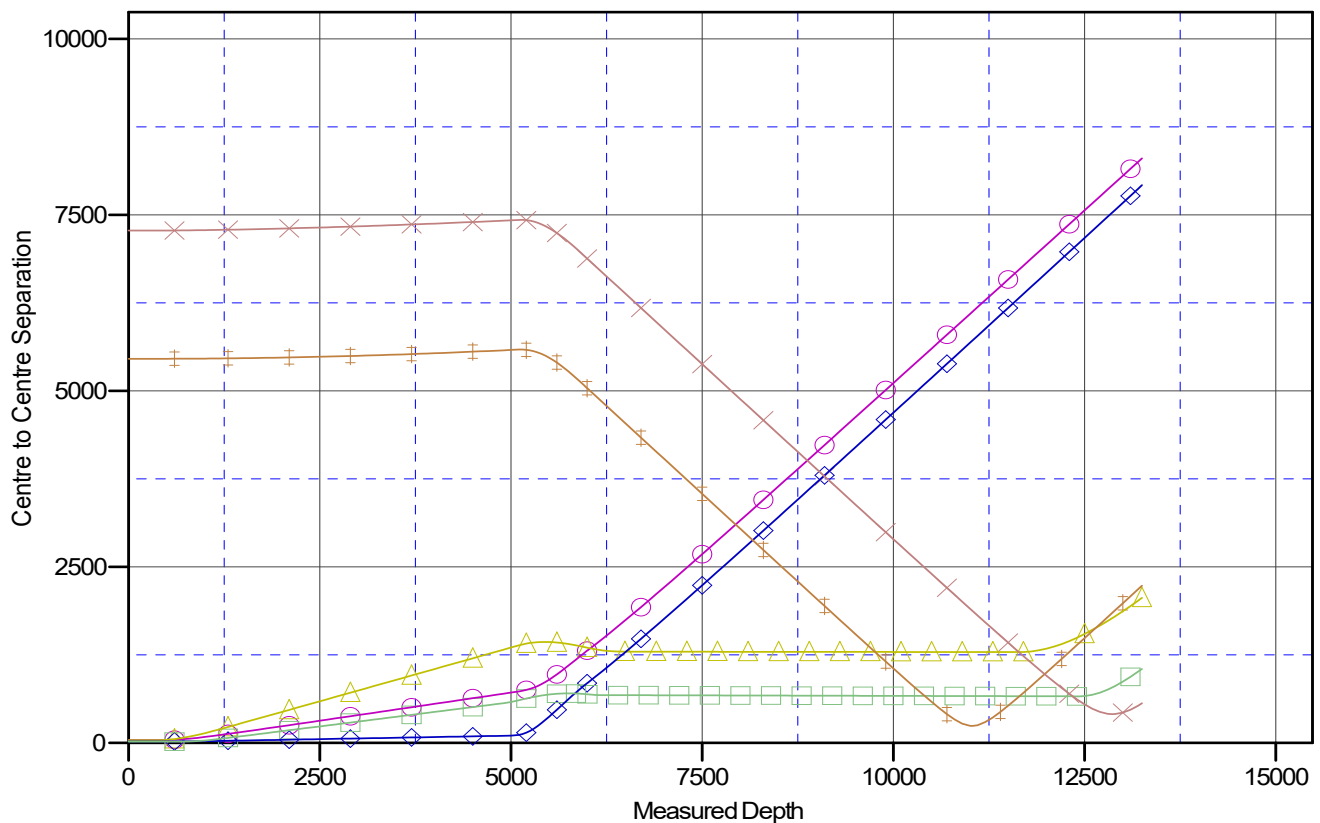


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 205H	Survey Calculation Method:	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: # 205H - Slot 3
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.18°

Ladder Plot



LEGEND

201H Original Drilling, APD Rev 1 V0
 # 540H Original Drilling, APD Rev 1 V0
 Federal 1-A, OH/OH V0
 Federal B-10, OH/OH V0
 # 203H Original Drilling, APD Rev 1 V0
 # 550H Original Drilling, APD Rev 1 V0

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



Lonestar Consulting, LLC

Anticollision Report

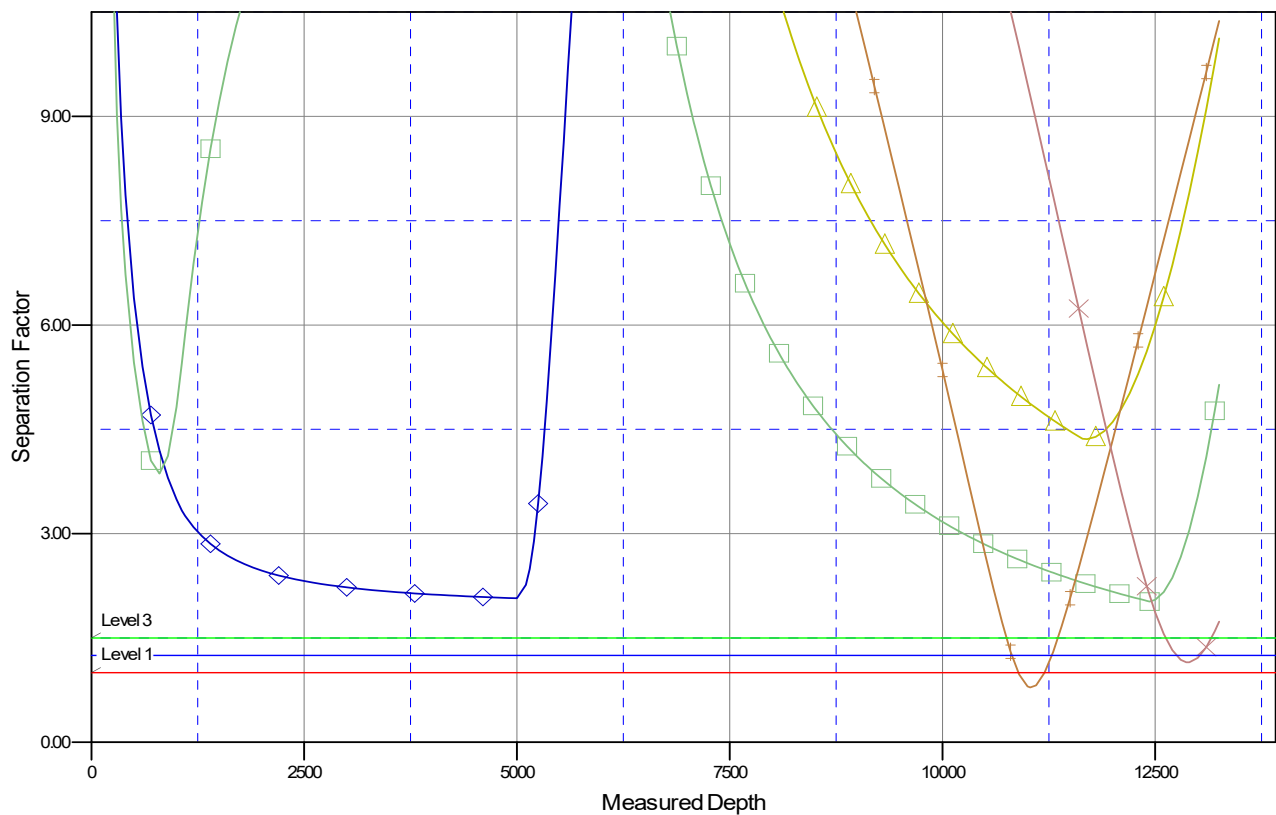


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 205H - Slot 3
Project:	North Alamito Unit	TVD Reference:	GL 7121' & RKB 14' @ 7135ft
Reference Site:	M24 2307 Pad	MD Reference:	GL 7121' & RKB 14' @ 7135ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 205H	Survey Calculation Method:	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: # 205H - Slot 3
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.18°

Separation Factor Plot



LEGEND

201HOriginalDrilling.APDRev1 V0
 # 540HOriginalDrilling.APDRev1 V0
 Federal1-A.OH.OH.V0
 # 550HOriginalDrilling.APDRev1 V0
 # 203HOriginalDrilling.APDRev1 V0
 FederalB-10.OH.OH.V0



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

* DJR OPERATING LLC
#205H 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: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22, 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 496084

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 496084
	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 496084

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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