

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 9. API Well No. 30-043-21541
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration
24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/25/2025

Additional Operator Remarks

Location of Well

0. SHL: NENE / 1141 FNL / 923 FEL / TWSP: 23N / RANGE: 7W / SECTION: 26 / LAT: 36.201177 / LONG: -107.538936 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 191 FNL / 1279 FEL / TWSP: 23N / RANGE: 7W / SECTION: 26 / LAT: 36.203805 / LONG: -107.540196 (TVD: 5504 feet, MD: 5807 feet)
PPP: SENE / 1986 FNL / 1 FEL / TWSP: 23N / RANGE: 7W / SECTION: 22 / LAT: 36.213381 / LONG: -107.553671 (TVD: 5549 feet, MD: 13877 feet)
PPP: SWNW / 2598 FNL / 712 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.211649 / LONG: -107.551233 (TVD: 5549 feet, MD: 13877 feet)
PPP: SWSE / 1 FSL / 1499 FEL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.204341 / LONG: -107.54095 (TVD: 5549 feet, MD: 13877 feet)
PPP: SESW / 958 FSL / 2611 FWL / TWSP: 23N / RANGE: 7W / SECTION: 23 / LAT: 36.207028 / LONG: -107.544731 (TVD: 5549 feet, MD: 13877 feet)
BHL: NWNE / 330 FNL / 2037 FEL / TWSP: 23N / RANGE: 7W / SECTION: 22 / LAT: 36.218339 / LONG: -107.560649 (TVD: 5549 feet, MD: 13877 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 30-043-21541	Pool Code 98174	Pool Name ALAMITO N; MANCOS (OIL)
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 544H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 7307'
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
A	26	23N	7W		1141' NORTH	923' EAST	36.201177° N	107.538936° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
B	22	23N	7W		330' NORTH	2037' EAST	36.218339° N	107.560649° W	SANDOVAL

Dedicated Acres SEC 26: NE/NE & NW/NE (80 AC.); SEC 23: SE/SE, SW/SE, NW/SE, SE/SW, NE/SW, NW/SW & SW/NW (280 AC.); SEC 22: NW/4 (160 AC.) = 520 ACRES	PENETRATED SPACING UNIT: IN FILL	Infill or Defining Well IN FILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code UNITIZATION
Order Numbers: R-13457			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
A	26	23N	7W		191' NORTH	1279' EAST	36.203805° N	107.540196° W	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	26	23N	7W		191' NORTH	1279' EAST	36.203805° N	107.540196° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
B	22	23N	7W		330' NORTH	2037' EAST	36.218339° N	107.560649° 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

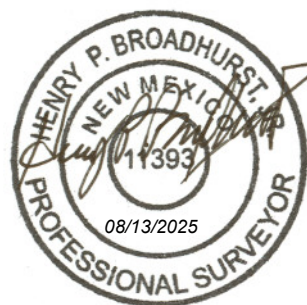
Printed Name

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

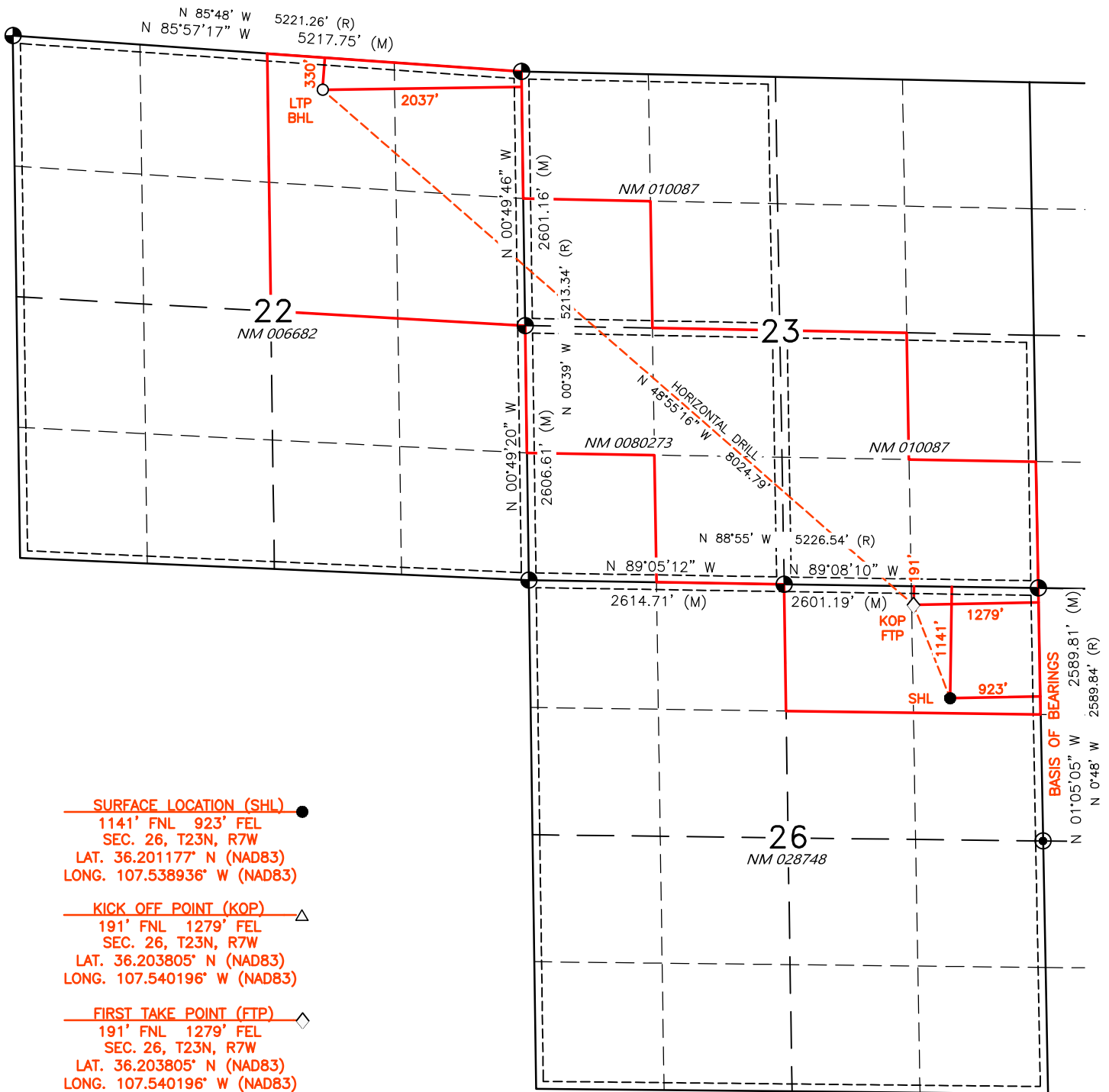
11393

Date of Survey

AUGUST 10, 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
 FND 1.5" AC
 2010



SURFACE LOCATION (SHL) ●
 1141' FNL 923' FEL
 SEC. 26, T23N, R7W
 LAT. 36.201177° N (NAD83)
 LONG. 107.538936° W (NAD83)

KICK OFF POINT (KOP) ▲
 191' FNL 1279' FEL
 SEC. 26, T23N, R7W
 LAT. 36.203805° N (NAD83)
 LONG. 107.540196° W (NAD83)

FIRST TAKE POINT (FTP) ◇
 191' FNL 1279' FEL
 SEC. 26, T23N, R7W
 LAT. 36.203805° N (NAD83)
 LONG. 107.540196° W (NAD83)

LAST TAKE POINT (LTP) □
 330' FNL 2037' FEL
 SEC. 22, T23N, R7W
 LAT. 36.218339° N (NAD83)
 LONG. 107.560649° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
 330' FNL 2037' FEL
 SEC. 22, T23N, R7W
 LAT. 36.218339° N (NAD83)
 LONG. 107.560649° 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 206H	TBD	A-26-23N-7W	1151 FNL x 906 FEL	434	1278	173
N. Alamito Unit 542H	TBD	A-26-23N-7W	1162 FNL x 890 FEL	374	675	150
N. Alamito Unit 543H	TBD	A-26-23N-7W	1172 FNL x 873 FEL	268	1331	107
N. Alamito Unit 544H	TBD	A-26-23N-7W	1141 FNL x 923 FEL	459	540	184
				3-yr Decline	3-yr Decline	3-yr Decline
N. Alamito Unit 206H	TBD	A-26-23N-7W	1151 FNL x 906 FEL	98	392	39
N. Alamito Unit 542H	TBD	A-26-23N-7W	1162 FNL x 890 FEL	85	338	34
N. Alamito Unit 543H	TBD	A-26-23N-7W	1172 FNL x 873 FEL	61	242	24
N. Alamito Unit 544H	TBD	A-26-23N-7W	1141 FNL x 923 FEL	104	415	41

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 206H	TBD	11/1/2026	3/4/2026	4/22/2026	6/1/2026	6/3/2026
N. Alamito Unit 542H	TBD	11/2/2026	3/14/2026	4/22/2026	6/1/2026	6/3/2026
N. Alamito Unit 543H	TBD	11/3/2026	3/22/2026	4/22/2026	6/1/2026	6/3/2026
N. Alamito Unit 544H	TBD	11/4/2026	3/30/2026	4/22/2026	6/1/2026	6/3/2026

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@enduringresources.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 206H 542H 543H 544H

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 206H 542H 543H 544H

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 206H 542H 543H 544H

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 206H 542H 543H 544H

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 tall 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 its designed with an auto ignition system.
3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.



DJR Operating LLC.
OGRID No: 371838
NATURAL GAS MANAGEMENT PLAN
N. Alamito Unit 206H 542H 543H 544H

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

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

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



DJR Operating LLC.
OGRID No: 371838
NATURAL GAS MANAGEMENT PLAN
N. Alamito Unit 206H 542H 543H 544H

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 0



DRILLING PLAN

North Alamito Unit #544H

Sandoval County, New Mexico

Surface Location

923-ft FEL & 1141-ft FNL
 Sec 26 T23N R7W
 Graded Elevation 7307' MSL
 RKB Elevation 7321' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2011770° N
 Longitude 107.5389360° W

Kick Off Point for Horizontal Build Curve

5042-ft MD
 5007-ft TVD

Local Coordinates (from SHL)

564-ft North
 4-ft East

Heel Location (Pay zone entry)

1279-ft FEL & 191-ft FNL
 Sec 26 T23N R7W

Heel Geographical Coordinates (NAD-83)

Latitude 36.203805° N
 Longitude 107.54019600° W

Bottom Hole Location (TD)

2037-ft FEL & 330-ft FNL
 Sec 22 T23N R7W

BHL Geographical Coordinates (NAD-83)

Latitude 36.218339° N
 Longitude 107.5606490° W

Well objectives

This well is planned as a 8020-ft lateral in the Gallup B sand.

Bottom Hole temperature and pressure

The temperature in the Gallup B horizontal objective is 145°F. Bottom hole pressure in the Gallup B is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1516	1509	Sd	W	8.3	8.4 – 8.8
Kirtland	1693	1684	Sh	-	8.3	8.4 – 8.8
Fruitland	1898	1888	C	G	8.3	9.0 - 9.5
Pictured Cliffs	2140	2128	Sd	W	8.3	9.0 - 9.5
Lewis	2254	2241	Sh	-		9.0 - 9.5
Chacra	2987	2968	Sd	-	8.3	9.0 - 9.5
Menefee	3674	3650	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4487	4456	Sd	-	8.3	9.0 - 9.5
Mancos	4633	4601	Sh	-		9.0 - 9.5
Mancos Silt	5005	4970	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5628	5460	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5750	5496	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5852	5506	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	5807	surf	5504	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5567	13877	5433	5549	5567

Note: all casing will be new

Rev 0



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	4633-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	515	123
Volume (bbls)	215	33
Volume (cu.ft.)	1205	186
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5567-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	719
Volume (cu.ft)	195
Excess %	1093
	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 – 5807	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5807 – 13877	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

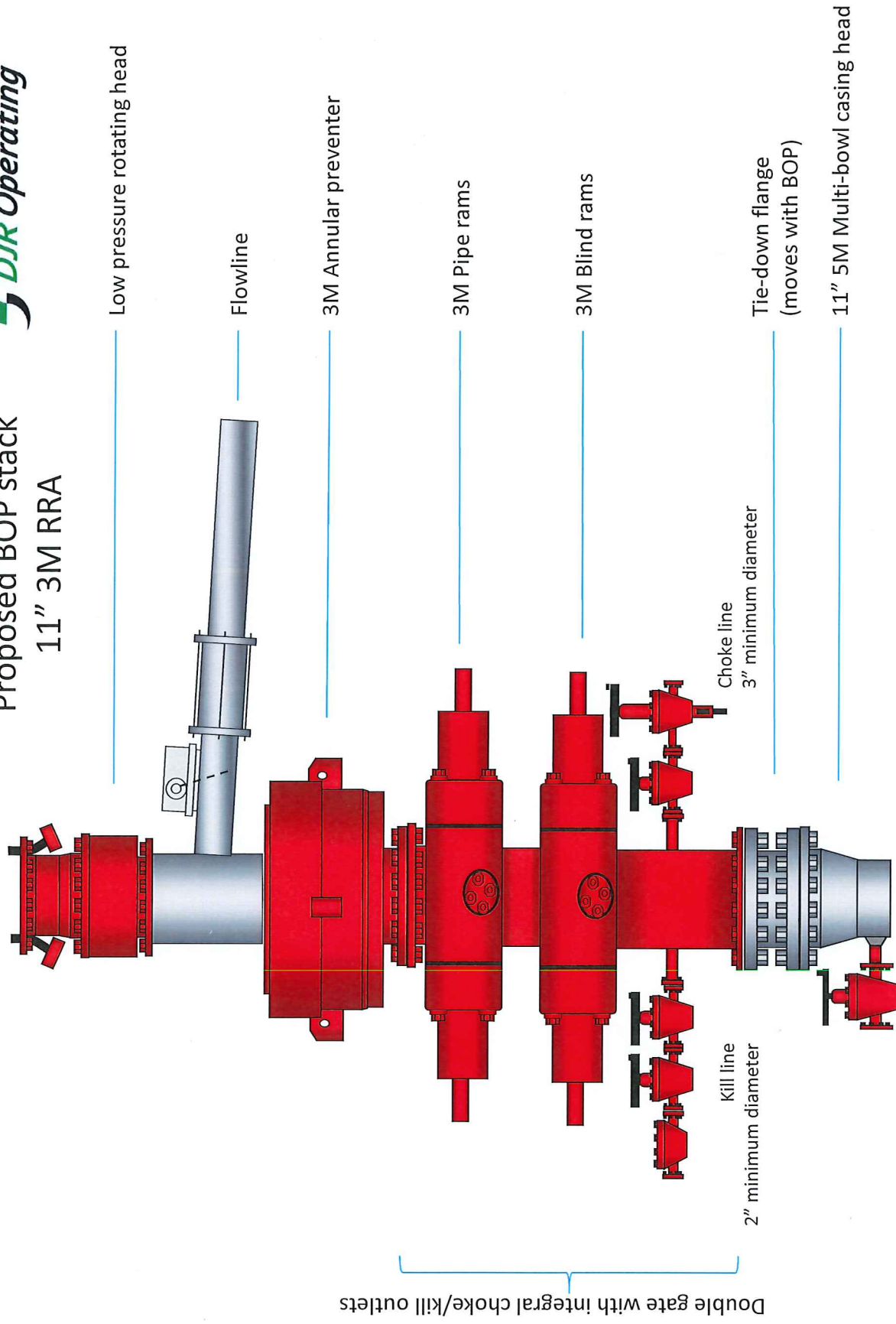
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



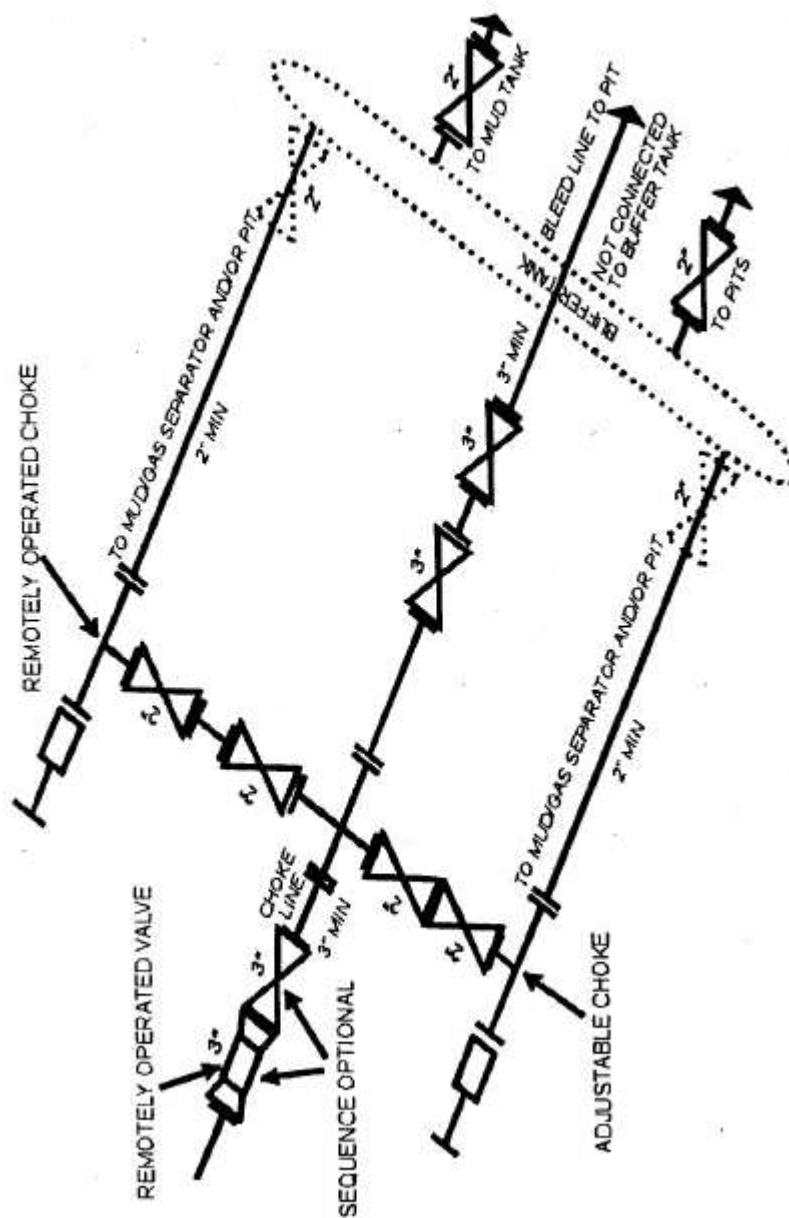
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: North Alamito Unit
Site: A26 2307 Pad
Well: # 544H
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: # 544H

GL 7307' & RKB 14' @ 7321ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1892658.06	2809948.80	36.20117800	-107.53893700

Plan: APD Rev 1 (# 544H/Original Drilling)

Created By: Janie Collins Date: 14:35, August 23 2023

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
544H Heel	5506	956	-371	1893613.21	2809574.46	36.20380500	-107.54019600
544H Toe	5549	6248	-6404	1898886.31	2803525.43	36.21833900	-107.56064900

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
709	7.18	0.41	708	22	0	2.00	0.41	16
5042	7.18	0.41	5007	564	4	0.00	0.00	391
5852	89.69	311.25	5506	956	-371	10.50	-49.41	934
13877	89.69	311.25	5549	6248	-6404	0.00	0.00	8947



Azimuths to True North
Magnetic North: 10.5°

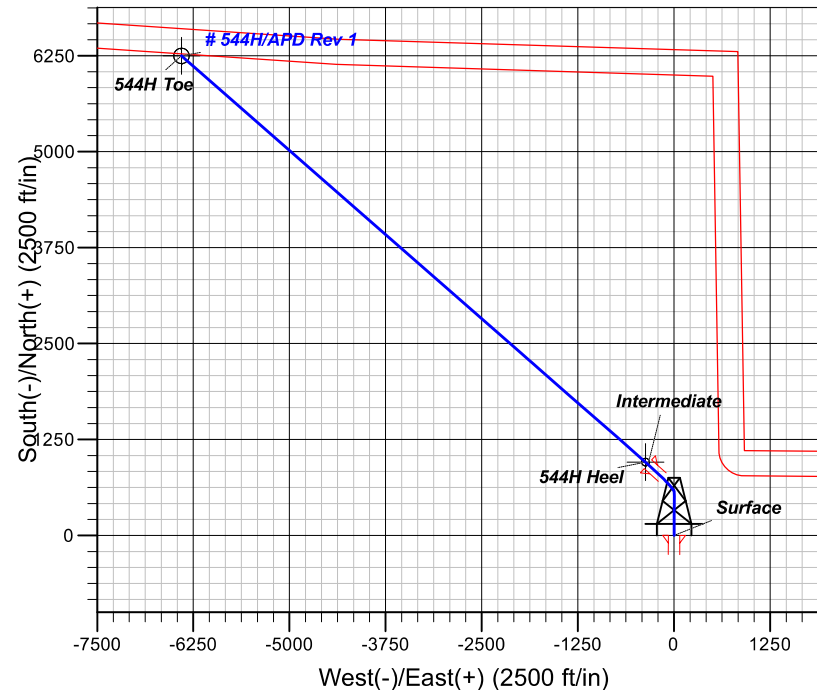
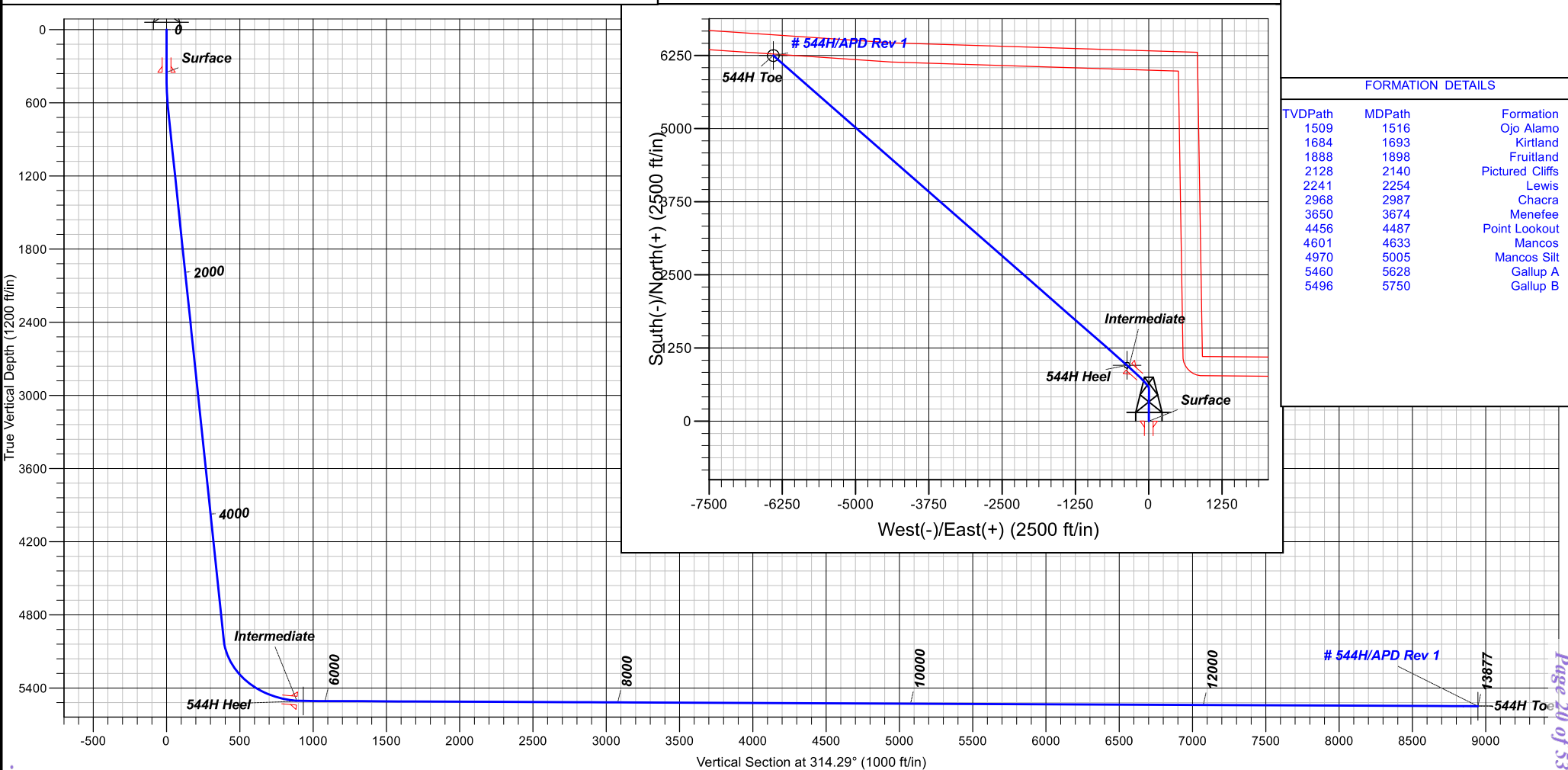
Magnetic Field
Strength: 51236 nT
Dip Angle: 63.2°
Date: 12/31/2004
Model: IGRF2000

CASING DETAILS

TVD	MD	Name
350	350	Surface
5504	5807	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1509	1516	Ojo Alamo
1684	1693	Kirtland
1888	1898	Fruitland
2128	2140	Pictured Cliffs
2241	2254	Lewis
2968	2987	Chacra
3650	3674	Menefee
4456	4487	Point Lookout
4601	4633	Mancos
4970	5005	Mancos Silt
5460	5628	Gallup A
5496	5750	Gallup B



544H/APD Rev 1

13877

544H Toe



DJR Operating

North Alamito Unit

A26 2307 Pad

544H - Slot 4

Original Drilling

Plan: APD Rev 1

Standard Planning Report

23 August, 2023





Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 544H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 544H	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	A26 2307 Pad				
Site Position:		Northing:	1,892,625.45 usft	Latitude:	36.20108800
From:	Lat/Long	Easting:	2,809,999.35 usft	Longitude:	-107.53876600
Position Uncertainty:	0 ft	Slot Radius:	13.20 in		

Well	# 544H - Slot 4					
Well Position	+N/-S	0 ft	Northing:	1,892,658.06 usft	Latitude:	36.20117800
	+E/-W	0 ft	Easting:	2,809,948.80 usft	Longitude:	-107.53893700
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	7307 ft
Grid Convergence:	0.17 °					

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	10.77	63.25	51,236.85803385

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	314.29

Plan Survey Tool Program	Date	8/23/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	13,877	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	
709	7.18	0.41	708	22	0	2.00	2.00	0.00	0.41	
5042	7.18	0.41	5007	564	4	0.00	0.00	0.00	0.00	
5852	89.69	311.25	5506	956	-371	10.50	10.19	-6.07	-49.41	544H Heel
13,877	89.69	311.25	5549	6248	-6404	0.00	0.00	0.00	0.00	544H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 544H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 544H	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	0.41	400	0	0	0	2.00	2.00	0.00
500	3.00	0.41	500	4	0	3	2.00	2.00	0.00
600	5.00	0.41	600	11	0	8	2.00	2.00	0.00
700	7.00	0.41	699	21	0	15	2.00	2.00	0.00
709	7.18	0.41	708	22	0	16	2.00	2.00	0.00
800	7.18	0.41	798	34	0	23	0.00	0.00	0.00
900	7.18	0.41	898	46	0	32	0.00	0.00	0.00
1000	7.18	0.41	997	59	0	41	0.00	0.00	0.00
1100	7.18	0.41	1096	71	1	49	0.00	0.00	0.00
1200	7.18	0.41	1195	84	1	58	0.00	0.00	0.00
1300	7.18	0.41	1294	96	1	67	0.00	0.00	0.00
1400	7.18	0.41	1394	109	1	75	0.00	0.00	0.00
1500	7.18	0.41	1493	121	1	84	0.00	0.00	0.00
1600	7.18	0.41	1592	134	1	93	0.00	0.00	0.00
1700	7.18	0.41	1691	146	1	101	0.00	0.00	0.00
1800	7.18	0.41	1791	159	1	110	0.00	0.00	0.00
1900	7.18	0.41	1890	171	1	119	0.00	0.00	0.00
2000	7.18	0.41	1989	184	1	127	0.00	0.00	0.00
2100	7.18	0.41	2088	196	1	136	0.00	0.00	0.00
2200	7.18	0.41	2187	209	2	145	0.00	0.00	0.00
2300	7.18	0.41	2287	221	2	153	0.00	0.00	0.00
2400	7.18	0.41	2386	234	2	162	0.00	0.00	0.00
2500	7.18	0.41	2485	246	2	171	0.00	0.00	0.00
2600	7.18	0.41	2584	259	2	179	0.00	0.00	0.00
2700	7.18	0.41	2683	271	2	188	0.00	0.00	0.00
2800	7.18	0.41	2783	284	2	197	0.00	0.00	0.00
2900	7.18	0.41	2882	296	2	205	0.00	0.00	0.00
3000	7.18	0.41	2981	309	2	214	0.00	0.00	0.00
3100	7.18	0.41	3080	321	2	223	0.00	0.00	0.00
3200	7.18	0.41	3180	334	2	231	0.00	0.00	0.00
3300	7.18	0.41	3279	346	2	240	0.00	0.00	0.00
3400	7.18	0.41	3378	359	3	249	0.00	0.00	0.00
3500	7.18	0.41	3477	371	3	257	0.00	0.00	0.00
3600	7.18	0.41	3576	384	3	266	0.00	0.00	0.00
3700	7.18	0.41	3676	396	3	275	0.00	0.00	0.00
3800	7.18	0.41	3775	409	3	283	0.00	0.00	0.00
3900	7.18	0.41	3874	421	3	292	0.00	0.00	0.00
4000	7.18	0.41	3973	434	3	301	0.00	0.00	0.00
4100	7.18	0.41	4072	446	3	309	0.00	0.00	0.00
4200	7.18	0.41	4172	459	3	318	0.00	0.00	0.00
4300	7.18	0.41	4271	471	3	327	0.00	0.00	0.00
4400	7.18	0.41	4370	484	3	335	0.00	0.00	0.00
4500	7.18	0.41	4469	496	4	344	0.00	0.00	0.00
4600	7.18	0.41	4569	509	4	353	0.00	0.00	0.00
4700	7.18	0.41	4668	521	4	361	0.00	0.00	0.00
4800	7.18	0.41	4767	534	4	370	0.00	0.00	0.00
4900	7.18	0.41	4866	546	4	379	0.00	0.00	0.00
5000	7.18	0.41	4965	559	4	387	0.00	0.00	0.00
5042	7.18	0.41	5007	564	4	391	0.00	0.00	0.00



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 544H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 544H	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)	
5100	12.05	337.75	5064	573	2	399	10.50	8.41	-39.13	
5200	21.92	324.93	5160	598	-13	427	10.50	9.87	-12.82	
5300	32.18	319.94	5249	634	-41	472	10.50	10.26	-4.99	
5400	42.55	317.18	5328	679	-81	532	10.50	10.37	-2.75	
5500	52.96	315.35	5395	733	-132	606	10.50	10.41	-1.84	
5600	63.40	313.96	5448	792	-193	691	10.50	10.43	-1.39	
5700	73.84	312.81	5484	856	-260	784	10.50	10.45	-1.15	
5800	84.29	311.77	5503	922	-333	882	10.50	10.45	-1.04	
5852	89.69	311.25	5506	956	-371	934	10.50	10.45	-1.00	
5900	89.69	311.25	5506	988	-408	982	0.00	0.00	0.00	
6000	89.69	311.25	5507	1054	-483	1082	0.00	0.00	0.00	
6100	89.69	311.25	5507	1120	-558	1182	0.00	0.00	0.00	
6200	89.69	311.25	5508	1186	-633	1281	0.00	0.00	0.00	
6300	89.69	311.25	5508	1252	-709	1381	0.00	0.00	0.00	
6400	89.69	311.25	5509	1318	-784	1481	0.00	0.00	0.00	
6500	89.69	311.25	5509	1384	-859	1581	0.00	0.00	0.00	
6600	89.69	311.25	5510	1450	-934	1681	0.00	0.00	0.00	
6700	89.69	311.25	5511	1516	-1009	1781	0.00	0.00	0.00	
6800	89.69	311.25	5511	1582	-1084	1881	0.00	0.00	0.00	
6900	89.69	311.25	5512	1648	-1160	1980	0.00	0.00	0.00	
7000	89.69	311.25	5512	1713	-1235	2080	0.00	0.00	0.00	
7100	89.69	311.25	5513	1779	-1310	2180	0.00	0.00	0.00	
7200	89.69	311.25	5513	1845	-1385	2280	0.00	0.00	0.00	
7300	89.69	311.25	5514	1911	-1460	2380	0.00	0.00	0.00	
7400	89.69	311.25	5514	1977	-1535	2480	0.00	0.00	0.00	
7500	89.69	311.25	5515	2043	-1611	2580	0.00	0.00	0.00	
7600	89.69	311.25	5515	2109	-1686	2680	0.00	0.00	0.00	
7700	89.69	311.25	5516	2175	-1761	2779	0.00	0.00	0.00	
7800	89.69	311.25	5516	2241	-1836	2879	0.00	0.00	0.00	
7900	89.69	311.25	5517	2307	-1911	2979	0.00	0.00	0.00	
8000	89.69	311.25	5517	2373	-1987	3079	0.00	0.00	0.00	
8100	89.69	311.25	5518	2439	-2062	3179	0.00	0.00	0.00	
8200	89.69	311.25	5519	2505	-2137	3279	0.00	0.00	0.00	
8300	89.69	311.25	5519	2571	-2212	3379	0.00	0.00	0.00	
8400	89.69	311.25	5520	2637	-2287	3478	0.00	0.00	0.00	
8500	89.69	311.25	5520	2702	-2362	3578	0.00	0.00	0.00	
8600	89.69	311.25	5521	2768	-2438	3678	0.00	0.00	0.00	
8700	89.69	311.25	5521	2834	-2513	3778	0.00	0.00	0.00	
8800	89.69	311.25	5522	2900	-2588	3878	0.00	0.00	0.00	
8900	89.69	311.25	5522	2966	-2663	3978	0.00	0.00	0.00	
9000	89.69	311.25	5523	3032	-2738	4078	0.00	0.00	0.00	
9100	89.69	311.25	5523	3098	-2814	4177	0.00	0.00	0.00	
9200	89.69	311.25	5524	3164	-2889	4277	0.00	0.00	0.00	
9300	89.69	311.25	5524	3230	-2964	4377	0.00	0.00	0.00	
9400	89.69	311.25	5525	3296	-3039	4477	0.00	0.00	0.00	
9500	89.69	311.25	5526	3362	-3114	4577	0.00	0.00	0.00	
9600	89.69	311.25	5526	3428	-3189	4677	0.00	0.00	0.00	
9700	89.69	311.25	5527	3494	-3265	4777	0.00	0.00	0.00	
9800	89.69	311.25	5527	3560	-3340	4876	0.00	0.00	0.00	
9900	89.69	311.25	5528	3626	-3415	4976	0.00	0.00	0.00	
10,000	89.69	311.25	5528	3692	-3490	5076	0.00	0.00	0.00	
10,100	89.69	311.25	5529	3757	-3565	5176	0.00	0.00	0.00	
10,200	89.69	311.25	5529	3823	-3641	5276	0.00	0.00	0.00	
10,300	89.69	311.25	5530	3889	-3716	5376	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 544H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 544H	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	311.25	5530	3955	-3791	5476	0.00	0.00	0.00	
10,500	89.69	311.25	5531	4021	-3866	5575	0.00	0.00	0.00	
10,600	89.69	311.25	5531	4087	-3941	5675	0.00	0.00	0.00	
10,700	89.69	311.25	5532	4153	-4016	5775	0.00	0.00	0.00	
10,800	89.69	311.25	5532	4219	-4092	5875	0.00	0.00	0.00	
10,900	89.69	311.25	5533	4285	-4167	5975	0.00	0.00	0.00	
11,000	89.69	311.25	5534	4351	-4242	6075	0.00	0.00	0.00	
11,100	89.69	311.25	5534	4417	-4317	6175	0.00	0.00	0.00	
11,200	89.69	311.25	5535	4483	-4392	6274	0.00	0.00	0.00	
11,300	89.69	311.25	5535	4549	-4468	6374	0.00	0.00	0.00	
11,400	89.69	311.25	5536	4615	-4543	6474	0.00	0.00	0.00	
11,500	89.69	311.25	5536	4681	-4618	6574	0.00	0.00	0.00	
11,600	89.69	311.25	5537	4746	-4693	6674	0.00	0.00	0.00	
11,700	89.69	311.25	5537	4812	-4768	6774	0.00	0.00	0.00	
11,800	89.69	311.25	5538	4878	-4843	6874	0.00	0.00	0.00	
11,900	89.69	311.25	5538	4944	-4919	6973	0.00	0.00	0.00	
12,000	89.69	311.25	5539	5010	-4994	7073	0.00	0.00	0.00	
12,100	89.69	311.25	5539	5076	-5069	7173	0.00	0.00	0.00	
12,200	89.69	311.25	5540	5142	-5144	7273	0.00	0.00	0.00	
12,300	89.69	311.25	5541	5208	-5219	7373	0.00	0.00	0.00	
12,400	89.69	311.25	5541	5274	-5295	7473	0.00	0.00	0.00	
12,500	89.69	311.25	5542	5340	-5370	7573	0.00	0.00	0.00	
12,600	89.69	311.25	5542	5406	-5445	7672	0.00	0.00	0.00	
12,700	89.69	311.25	5543	5472	-5520	7772	0.00	0.00	0.00	
12,800	89.69	311.25	5543	5538	-5595	7872	0.00	0.00	0.00	
12,900	89.69	311.25	5544	5604	-5670	7972	0.00	0.00	0.00	
13,000	89.69	311.25	5544	5670	-5746	8072	0.00	0.00	0.00	
13,100	89.69	311.25	5545	5736	-5821	8172	0.00	0.00	0.00	
13,200	89.69	311.25	5545	5801	-5896	8272	0.00	0.00	0.00	
13,300	89.69	311.25	5546	5867	-5971	8371	0.00	0.00	0.00	
13,400	89.69	311.25	5546	5933	-6046	8471	0.00	0.00	0.00	
13,500	89.69	311.25	5547	5999	-6122	8571	0.00	0.00	0.00	
13,600	89.69	311.25	5547	6065	-6197	8671	0.00	0.00	0.00	
13,700	89.69	311.25	5548	6131	-6272	8771	0.00	0.00	0.00	
13,800	89.69	311.25	5549	6197	-6347	8871	0.00	0.00	0.00	
13,877	89.69	311.25	5549	6248	-6404	8947	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
544H Heel	0.00	0.00	5506	956	-371	1,893,613.22	2,809,574.46	36.20380500	-107.54019600	
- plan hits target center										
- Circle (radius 50)										
544H Toe	0.00	0.00	5549	6248	-6404	1,898,886.31	2,803,525.43	36.21833900	-107.56064900	
- plan hits target center										
- Circle (radius 100)										



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 544H - Slot 4
Company:	DJR Operating	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 544H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.63	12.25	
5807	5504	Intermediate	7.00	8.75	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1516	1509	Ojo Alamo		0.00	0.00	
1693	1684	Kirtland		0.00	0.00	
1898	1888	Fruitland		0.00	0.00	
2140	2128	Pictured Cliffs		0.00	0.00	
2254	2241	Lewis		0.00	0.00	
2987	2968	Chacra		0.00	0.00	
3674	3650	Menefee		0.00	0.00	
4487	4456	Point Lookout		0.00	0.00	
4633	4601	Mancos		0.00	0.00	
5005	4970	Mancos Silt		0.00	0.00	
5628	5460	Gallup A		0.00	0.00	
5750	5496	Gallup B		0.00	0.00	



DJR Operating

North Alamito Unit

A26 2307 Pad

544H

Original Drilling

APD Rev 1

Anticollision Report

23 August, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	APD Rev 1	Offset TVD Reference:	Offset Datum

Reference	APD Rev 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 15,000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 8/23/2023	
From (ft)	To (ft)	Survey (Wellbore)
0	13,877	APD Rev 1 (Original Drilling)
		Tool Name
		MWD+IGRF
		Description
		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						
A26 2307 Pad						
# 206H - Original Drilling - APD Rev 1	406	406	20	18	7.637	CC, ES
# 206H - Original Drilling - APD Rev 1	13,877	14,286	768	336	1.779	SF
# 542H - Original Drilling - APD Rev 1	350	350	40	38	17.786	CC
# 542H - Original Drilling - APD Rev 1	600	602	41	37	10.141	ES
# 542H - Original Drilling - APD Rev 1	5050	5052	107	65	2.575	SF
# 543H - Original Drilling - APD Rev 1	442	443	60	57	20.701	CC
# 543H - Original Drilling - APD Rev 1	500	502	60	57	18.173	ES
# 543H - Original Drilling - APD Rev 1	13,877	13,890	1477	1033	3.332	SF
Federal 1-A - OH - OH	10,659	5365	510	207	1.684	CC, ES
Federal 1-A - OH - OH	10,700	5365	512	208	1.683	SF
Federal B-10 - OH - OH	12,494	5445	343	-9	0.975	Level 3, CC
Federal B-10 - OH - OH	12,500	5445	343	-9	0.974	Level 3, ES, SF

Offset Design:	A26 2307 Pad - # 206H - Original Drilling - APD Rev 1												Offset Site Error:	0 ft
Survey Program:	0-MWD+IGRF												Offset Well Error:	0 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	123.86	-11	17	20					
100	100	100	100	0	0	123.86	-11	17	20	20	0.46	43.796		
200	200	200	200	1	1	123.86	-11	17	20	19	1.18	17.172		
300	300	300	300	1	1	123.86	-11	17	20	18	1.90	10.680		
350	350	350	350	1	1	123.86	-11	17	20	18	2.25	8.982		
400	400	400	400	1	1	125.46	-11	16	20	18	2.61	7.757		
406	406	406	406	1	1	125.96	-11	16	20	18	2.65	7.637	CC, ES	
500	500	500	500	2	2	141.15	-12	13	21	18	3.31	6.330		
600	600	600	600	2	2	162.94	-14	8	26	22	4.03	6.511		
709	708	708	707	3	2	177.50	-16	2	39	34	4.82	8.023		
800	798	798	797	3	3	-176.29	-18	-3	52	46	5.48	9.452		
900	898	897	896	3	3	-172.31	-20	-9	67	60	6.20	10.743		
1000	997	995	995	4	3	-169.79	-21	-14	82	75	6.92	11.789		
1100	1096	1094	1093	4	4	-168.05	-23	-20	97	89	7.65	12.646		
1200	1195	1193	1192	4	4	-166.79	-25	-25	112	103	8.37	13.360		
1300	1294	1292	1290	5	4	-165.82	-27	-31	127	118	9.10	13.961		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 206H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1400	1394	1391	1389	5	5	-165.06	-28	-36	142	132	9.83	14.474		
1500	1493	1490	1488	6	5	-164.45	-30	-42	158	147	10.56	14.916		
1600	1592	1588	1586	6	6	-163.95	-32	-47	173	162	11.30	15.301		
1700	1691	1687	1685	7	6	-163.53	-34	-53	188	176	12.03	15.640		
1800	1791	1786	1784	7	6	-163.17	-36	-58	203	191	12.76	15.939		
1900	1890	1885	1882	7	7	-162.86	-37	-64	219	205	13.50	16.206		
2000	1989	1984	1981	8	7	-162.59	-39	-69	234	220	14.23	16.445		
2100	2088	2082	2080	8	7	-162.36	-41	-75	249	234	14.97	16.661		
2200	2187	2181	2178	9	8	-162.15	-43	-80	265	249	15.70	16.856		
2300	2287	2280	2277	9	8	-161.97	-44	-86	280	264	16.44	17.034		
2400	2386	2379	2376	10	9	-161.80	-46	-91	295	278	17.17	17.196		
2500	2485	2478	2474	10	9	-161.65	-48	-97	311	293	17.91	17.345		
2600	2584	2576	2573	10	9	-161.51	-50	-102	326	307	18.64	17.482		
2700	2683	2675	2672	11	10	-161.39	-52	-108	341	322	19.38	17.609		
2800	2783	2774	2770	11	10	-161.28	-53	-113	357	336	20.11	17.726		
2900	2882	2873	2869	12	10	-161.17	-55	-119	372	351	20.85	17.835		
3000	2981	2972	2967	12	11	-161.08	-57	-124	387	366	21.59	17.937		
3100	3080	3071	3066	12	11	-160.99	-59	-130	403	380	22.32	18.032		
3200	3180	3169	3165	13	12	-160.91	-60	-135	418	395	23.06	18.120		
3300	3279	3268	3263	13	12	-160.83	-62	-141	433	409	23.80	18.203		
3400	3378	3367	3362	14	12	-160.76	-64	-146	449	424	24.53	18.282		
3500	3477	3466	3461	14	13	-160.70	-66	-152	464	439	25.27	18.355		
3600	3576	3565	3559	15	13	-160.64	-67	-157	479	453	26.01	18.424		
3700	3676	3663	3658	15	13	-160.58	-69	-163	495	468	26.75	18.490		
3800	3775	3762	3757	15	14	-160.52	-71	-168	510	482	27.48	18.552		
3900	3874	3861	3855	16	14	-160.47	-73	-174	525	497	28.22	18.610		
4000	3973	3960	3954	16	14	-160.42	-75	-180	541	512	28.96	18.666		
4100	4072	4059	4053	17	15	-160.38	-76	-185	556	526	29.69	18.719		
4200	4172	4158	4151	17	15	-160.34	-78	-191	571	541	30.43	18.769		
4300	4271	4256	4250	18	16	-160.29	-80	-196	587	555	31.17	18.817		
4400	4370	4355	4349	18	16	-160.26	-82	-202	602	570	31.91	18.863		
4500	4469	4454	4447	18	16	-160.22	-83	-207	617	585	32.64	18.906		
4600	4569	4553	4546	19	17	-160.18	-85	-213	633	599	33.38	18.948		
4700	4668	4652	4644	19	17	-160.15	-87	-218	648	614	34.12	18.988		
4800	4767	4750	4743	20	17	-160.12	-89	-224	663	628	34.86	19.026		
4900	4866	4849	4842	20	18	-160.09	-91	-229	679	643	35.59	19.062		
5000	4965	4948	4940	21	18	-160.06	-92	-235	694	658	36.33	19.097		
5042	5007	4990	4982	21	18	-160.05	-93	-237	700	664	36.64	19.112		
5050	5015	4997	4990	21	18	-155.28	-93	-237	702	665	36.70	19.115		
5100	5064	5047	5039	21	19	-136.90	-94	-240	710	673	37.08	19.156		
5150	5113	5095	5087	21	19	-128.44	-95	-243	721	683	37.46	19.234		
5200	5160	5142	5134	21	19	-123.75	-96	-245	732	695	37.85	19.352		
5250	5205	5198	5190	22	19	-121.05	-97	-249	746	708	38.30	19.476		
5300	5249	5306	5296	22	20	-120.24	-89	-265	759	720	39.04	19.435		
5350	5290	5425	5407	22	20	-119.43	-65	-301	769	729	39.71	19.370		
5400	5328	5552	5512	23	21	-118.20	-22	-358	776	736	40.35	19.240		
5450	5363	5680	5598	23	22	-116.37	37	-432	780	739	41.19	18.939		
5452	5365	5686	5601	23	22	-116.27	40	-435	780	739	41.24	18.920		
5500	5395	5804	5658	24	23	-113.97	105	-515	781	738	42.47	18.378		
5550	5424	5918	5691	24	24	-111.22	176	-597	778	734	44.27	17.578		
5600	5448	6019	5701	25	25	-108.36	242	-674	774	727	46.43	16.665		
5650	5468	6064	5701	25	26	-107.25	271	-708	769	721	48.01	16.024		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 206H - 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		
5700	5484	6112	5701	26	27	-106.29	303	-743	766	716	49.61	15.442		
5750	5496	6160	5702	27	28	-105.55	335	-780	764	713	51.25	14.907		
5762	5498	6172	5702	27	28	-105.41	343	-789	764	712	51.65	14.785		
5800	5503	6210	5702	27	28	-105.09	367	-817	763	710	52.90	14.422		
5811	5504	6221	5702	28	29	-105.02	375	-826	763	709	53.27	14.317		
5852	5506	6262	5702	28	29	-104.91	401	-856	762	708	54.60	13.964		
5854	5506	6264	5702	28	29	-104.91	403	-858	762	708	54.67	13.946		
5900	5506	6310	5702	29	30	-104.91	433	-892	763	706	56.21	13.566		
5904	5506	6314	5702	29	30	-104.91	436	-896	763	706	56.36	13.529		
6000	5507	6410	5703	31	32	-104.91	499	-968	763	703	59.70	12.773		
6004	5507	6414	5703	31	32	-104.91	502	-971	763	703	59.87	12.738		
6100	5507	6510	5703	32	34	-104.90	565	-1043	763	699	63.39	12.032		
6104	5507	6514	5704	32	34	-104.90	568	-1046	763	699	63.56	11.999		
6200	5508	6610	5704	34	36	-104.90	631	-1118	763	695	67.23	11.346		
6204	5508	6614	5704	34	36	-104.90	634	-1122	763	695	67.40	11.316		
6300	5508	6710	5704	36	38	-104.90	697	-1193	763	692	71.19	10.714		
6304	5508	6714	5705	36	38	-104.90	700	-1197	763	691	71.38	10.687		
6400	5509	6810	5705	38	40	-104.89	763	-1269	763	688	75.27	10.135		
6404	5509	6814	5705	38	40	-104.89	765	-1272	763	687	75.46	10.110		
6500	5509	6910	5706	40	42	-104.89	828	-1344	763	683	79.44	9.603		
6504	5509	6914	5706	40	42	-104.89	831	-1347	763	683	79.63	9.580		
6600	5510	7010	5706	42	44	-104.89	894	-1419	763	679	83.69	9.117		
6604	5510	7014	5706	42	45	-104.89	897	-1422	763	679	83.89	9.096		
6700	5511	7110	5707	45	47	-104.88	960	-1494	763	675	88.01	8.670		
6704	5511	7114	5707	45	47	-104.88	963	-1498	763	675	88.21	8.651		
6800	5511	7210	5707	47	49	-104.88	1026	-1570	763	671	92.39	8.260		
6804	5511	7214	5707	47	49	-104.88	1029	-1573	763	671	92.59	8.242		
6900	5512	7310	5708	49	51	-104.88	1092	-1645	763	666	96.82	7.883		
6904	5512	7314	5708	49	51	-104.88	1095	-1648	763	666	97.02	7.867		
7000	5512	7410	5708	51	54	-104.87	1158	-1720	763	662	101.29	7.536		
7004	5512	7414	5708	51	54	-104.87	1161	-1723	763	662	101.49	7.521		
7100	5513	7510	5709	54	56	-104.87	1224	-1795	763	658	105.79	7.215		
7104	5513	7514	5709	54	56	-104.87	1227	-1799	763	657	106.00	7.202		
7200	5513	7610	5709	56	58	-104.87	1290	-1870	763	653	110.34	6.919		
7204	5513	7614	5709	56	58	-104.87	1292	-1874	763	653	110.54	6.906		
7300	5514	7710	5710	58	61	-104.86	1355	-1946	764	649	114.91	6.644		
7304	5514	7714	5710	58	61	-104.86	1358	-1949	764	648	115.12	6.633		
7400	5514	7810	5710	61	63	-104.86	1421	-2021	764	644	119.51	6.389		
7404	5514	7814	5710	61	63	-104.86	1424	-2024	764	644	119.71	6.378		
7500	5515	7910	5711	63	65	-104.85	1487	-2096	764	640	124.13	6.152		
7504	5515	7914	5711	63	66	-104.85	1490	-2100	764	639	124.34	6.142		
7600	5515	8010	5711	65	68	-104.85	1553	-2171	764	635	128.77	5.931		
7604	5515	8014	5711	65	68	-104.85	1556	-2175	764	635	128.98	5.921		
7700	5516	8110	5712	68	70	-104.85	1619	-2247	764	630	133.43	5.724		
7704	5516	8114	5712	68	70	-104.85	1622	-2250	764	630	133.64	5.715		
7800	5516	8210	5712	70	73	-104.84	1685	-2322	764	626	138.11	5.531		
7804	5516	8214	5712	70	73	-104.84	1688	-2325	764	626	138.32	5.522		
7900	5517	8310	5713	72	75	-104.84	1751	-2397	764	621	142.80	5.350		
7904	5517	8314	5713	73	75	-104.84	1754	-2400	764	621	143.01	5.342		
8000	5517	8410	5713	75	77	-104.84	1817	-2472	764	616	147.51	5.179		
8004	5518	8414	5713	75	78	-104.84	1819	-2476	764	616	147.72	5.172		
8100	5518	8510	5714	77	80	-104.83	1882	-2548	764	612	152.22	5.019		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 206H - 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	Rule Assigned:									Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8104	5518	8514	5714	77	80	-104.83	1885	-2551	764	612	152.44	5.012	
8200	5519	8610	5714	80	82	-104.83	1948	-2623	764	607	156.95	4.869	
8204	5519	8614	5714	80	82	-104.83	1951	-2626	764	607	157.17	4.862	
8300	5519	8710	5715	82	85	-104.83	2014	-2698	764	603	161.69	4.726	
8304	5519	8714	5715	82	85	-104.83	2017	-2701	764	602	161.91	4.720	
8400	5520	8810	5715	85	87	-104.82	2080	-2773	764	598	166.44	4.592	
8404	5520	8814	5715	85	87	-104.82	2083	-2777	764	598	166.66	4.586	
8500	5520	8910	5716	87	90	-104.82	2146	-2849	764	593	171.20	4.465	
8504	5520	8914	5716	87	90	-104.82	2149	-2852	764	593	171.42	4.459	
8600	5521	9010	5716	89	92	-104.81	2212	-2924	764	588	175.97	4.344	
8604	5521	9014	5716	89	92	-104.81	2215	-2927	764	588	176.18	4.339	
8700	5521	9110	5717	92	95	-104.81	2278	-2999	764	584	180.74	4.230	
8704	5521	9114	5717	92	95	-104.81	2281	-3002	764	584	180.96	4.225	
8800	5522	9210	5717	94	97	-104.81	2344	-3074	765	579	185.52	4.121	
8804	5522	9214	5717	94	97	-104.81	2346	-3078	765	579	185.74	4.116	
8900	5522	9310	5718	97	100	-104.80	2409	-3149	765	574	190.31	4.018	
8904	5522	9314	5718	97	100	-104.80	2412	-3153	765	574	190.53	4.013	
9000	5523	9410	5718	99	102	-104.80	2475	-3225	765	570	195.10	3.920	
9004	5523	9414	5718	99	102	-104.80	2478	-3228	765	569	195.32	3.915	
9100	5523	9510	5719	102	105	-104.80	2541	-3300	765	565	199.90	3.826	
9104	5523	9514	5719	102	105	-104.80	2544	-3303	765	565	200.12	3.822	
9200	5524	9610	5719	104	107	-104.79	2607	-3375	765	560	204.70	3.736	
9204	5524	9614	5719	104	107	-104.79	2610	-3379	765	560	204.92	3.732	
9300	5524	9710	5720	107	109	-104.79	2673	-3450	765	555	209.51	3.651	
9304	5524	9714	5720	107	110	-104.79	2676	-3454	765	555	209.73	3.647	
9400	5525	9810	5720	109	112	-104.79	2739	-3526	765	551	214.32	3.569	
9404	5525	9814	5720	109	112	-104.79	2742	-3529	765	550	214.54	3.566	
9500	5526	9910	5721	112	114	-104.78	2805	-3601	765	546	219.14	3.491	
9504	5526	9914	5721	112	115	-104.78	2808	-3604	765	546	219.36	3.488	
9600	5526	10,010	5721	114	117	-104.78	2871	-3676	765	541	223.96	3.416	
9604	5526	10,014	5721	114	117	-104.78	2873	-3679	765	541	224.18	3.413	
9700	5527	10,110	5722	116	119	-104.78	2936	-3751	765	536	228.79	3.345	
9704	5527	10,114	5722	117	119	-104.77	2939	-3755	765	536	229.00	3.341	
9800	5527	10,210	5722	119	122	-104.77	3002	-3827	765	532	233.61	3.276	
9804	5527	10,214	5722	119	122	-104.77	3005	-3830	765	531	233.83	3.273	
9900	5528	10,310	5723	121	124	-104.77	3068	-3902	765	527	238.44	3.210	
9904	5528	10,314	5723	122	124	-104.77	3071	-3905	765	527	238.66	3.207	
10,000	5528	10,410	5723	124	127	-104.76	3134	-3977	765	522	243.28	3.146	
10,004	5528	10,414	5723	124	127	-104.76	3137	-3980	765	522	243.49	3.143	
10,100	5529	10,510	5724	126	129	-104.76	3200	-4052	765	517	248.11	3.085	
10,104	5529	10,514	5724	127	129	-104.76	3203	-4056	765	517	248.33	3.083	
10,200	5529	10,610	5724	129	132	-104.76	3266	-4127	766	513	252.95	3.026	
10,204	5529	10,614	5724	129	132	-104.76	3269	-4131	766	512	253.17	3.024	
10,300	5530	10,710	5725	131	134	-104.75	3332	-4203	766	508	257.80	2.970	
10,304	5530	10,714	5725	131	134	-104.75	3335	-4206	766	508	258.01	2.967	
10,400	5530	10,810	5725	134	137	-104.75	3398	-4278	766	503	262.64	2.915	
10,404	5530	10,814	5725	134	137	-104.75	3400	-4281	766	503	262.86	2.913	
10,500	5531	10,910	5726	136	139	-104.75	3463	-4353	766	498	267.49	2.863	
10,504	5531	10,914	5726	136	139	-104.75	3466	-4357	766	498	267.70	2.861	
10,600	5531	11,010	5726	139	142	-104.74	3529	-4428	766	494	272.34	2.812	
10,604	5531	11,014	5726	139	142	-104.74	3532	-4432	766	493	272.55	2.810	
10,700	5532	11,110	5727	141	144	-104.74	3595	-4504	766	489	277.19	2.763	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 206H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,704	5532	11,114	5727	141	144	-104.74	3598	-4507	766	489	277.40	2.761		
10,800	5532	11,210	5727	144	147	-104.74	3661	-4579	766	484	282.04	2.716		
10,804	5532	11,214	5727	144	147	-104.74	3664	-4582	766	484	282.26	2.714		
10,900	5533	11,310	5728	146	149	-104.73	3727	-4654	766	479	286.89	2.670		
10,904	5533	11,314	5728	146	149	-104.73	3730	-4658	766	479	287.11	2.668		
11,000	5534	11,410	5728	149	152	-104.73	3793	-4729	766	474	291.75	2.626		
11,004	5534	11,414	5728	149	152	-104.73	3796	-4733	766	474	291.97	2.624		
11,100	5534	11,510	5729	151	154	-104.72	3859	-4805	766	470	296.61	2.583		
11,104	5534	11,514	5729	151	154	-104.72	3862	-4808	766	469	296.83	2.581		
11,200	5535	11,610	5729	154	157	-104.72	3925	-4880	766	465	301.47	2.542		
11,204	5535	11,614	5729	154	157	-104.72	3927	-4883	766	465	301.69	2.540		
11,300	5535	11,710	5730	156	159	-104.72	3990	-4955	766	460	306.33	2.502		
11,304	5535	11,714	5730	156	159	-104.72	3993	-4958	766	460	306.55	2.500		
11,400	5536	11,810	5730	159	162	-104.71	4056	-5030	766	455	311.19	2.463		
11,404	5536	11,814	5730	159	162	-104.71	4059	-5034	766	455	311.41	2.461		
11,500	5536	11,910	5731	161	164	-104.71	4122	-5106	766	450	316.06	2.425		
11,504	5536	11,914	5731	161	164	-104.71	4125	-5109	766	450	316.28	2.423		
11,600	5537	12,010	5731	164	167	-104.71	4188	-5181	767	446	320.92	2.389		
11,604	5537	12,014	5731	164	167	-104.71	4191	-5184	767	445	321.14	2.387		
11,700	5537	12,110	5732	166	169	-104.70	4254	-5256	767	441	325.79	2.353		
11,704	5537	12,114	5732	166	169	-104.70	4257	-5259	767	441	326.01	2.352		
11,800	5538	12,210	5732	169	172	-104.70	4320	-5331	767	436	330.66	2.319		
11,804	5538	12,214	5732	169	172	-104.70	4323	-5335	767	436	330.88	2.317		
11,900	5538	12,310	5733	171	174	-104.70	4386	-5406	767	431	335.53	2.285		
11,904	5538	12,314	5733	171	174	-104.70	4389	-5410	767	431	335.75	2.284		
12,000	5539	12,410	5733	174	177	-104.69	4452	-5482	767	426	340.40	2.253		
12,004	5539	12,414	5733	174	177	-104.69	4454	-5485	767	426	340.62	2.251		
12,100	5539	12,510	5734	176	179	-104.69	4517	-5557	767	422	345.27	2.221		
12,104	5539	12,514	5734	176	179	-104.69	4520	-5560	767	421	345.49	2.220		
12,200	5540	12,610	5734	179	182	-104.69	4583	-5632	767	417	350.15	2.190		
12,204	5540	12,614	5734	179	182	-104.69	4586	-5636	767	417	350.37	2.189		
12,300	5541	12,710	5735	181	184	-104.68	4649	-5707	767	412	355.02	2.161		
12,304	5541	12,714	5735	181	184	-104.68	4652	-5711	767	412	355.24	2.159		
12,400	5541	12,810	5735	184	187	-104.68	4715	-5783	767	407	359.90	2.131		
12,404	5541	12,814	5735	184	187	-104.68	4718	-5786	767	407	360.12	2.130		
12,500	5542	12,910	5736	186	189	-104.67	4781	-5858	767	402	364.77	2.103		
12,504	5542	12,914	5736	186	189	-104.67	4784	-5861	767	402	364.99	2.102		
12,600	5542	13,010	5736	189	192	-104.67	4847	-5933	767	398	369.65	2.076		
12,604	5542	13,014	5736	189	192	-104.67	4850	-5937	767	397	369.87	2.074		
12,700	5543	13,110	5737	191	194	-104.67	4913	-6008	767	393	374.53	2.049		
12,704	5543	13,114	5737	191	195	-104.67	4916	-6012	767	393	374.75	2.048		
12,800	5543	13,210	5737	194	197	-104.66	4979	-6084	767	388	379.41	2.023		
12,804	5543	13,214	5737	194	197	-104.66	4981	-6087	767	388	379.63	2.021		
12,900	5544	13,310	5738	196	199	-104.66	5044	-6159	767	383	384.29	1.997		
12,904	5544	13,314	5738	196	200	-104.66	5047	-6162	767	383	384.51	1.996		
13,000	5544	13,410	5738	199	202	-104.66	5110	-6234	768	378	389.17	1.972		
13,004	5544	13,414	5738	199	202	-104.66	5113	-6237	768	378	389.39	1.971		
13,100	5545	13,510	5739	201	204	-104.65	5176	-6309	768	374	394.05	1.948		
13,104	5545	13,514	5739	202	205	-104.65	5179	-6313	768	373	394.27	1.947		
13,200	5545	13,610	5739	204	207	-104.65	5242	-6385	768	369	398.93	1.924		
13,204	5545	13,614	5739	204	207	-104.65	5245	-6388	768	369	399.15	1.923		
13,300	5546	13,710	5740	206	209	-104.65	5308	-6460	768	364	403.82	1.901		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 206H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
13,304	5546	13,714	5740	207	210	-104.65	5311	-6463	768	364	404.03	1.900		
13,400	5546	13,810	5740	209	212	-104.64	5374	-6535	768	359	408.70	1.879		
13,404	5546	13,814	5741	209	212	-104.64	5377	-6538	768	359	408.92	1.878		
13,500	5547	13,910	5741	211	214	-104.64	5440	-6610	768	354	413.58	1.857		
13,504	5547	13,914	5741	212	215	-104.64	5443	-6614	768	354	413.80	1.856		
13,600	5547	14,010	5741	214	217	-104.64	5506	-6685	768	349	418.47	1.835		
13,604	5547	14,014	5742	214	217	-104.64	5508	-6689	768	349	418.69	1.834		
13,700	5548	14,110	5742	216	220	-104.63	5571	-6761	768	345	423.35	1.814		
13,704	5548	14,114	5742	217	220	-104.63	5574	-6764	768	344	423.57	1.813		
13,800	5549	14,210	5743	219	222	-104.63	5637	-6836	768	340	428.24	1.794		
13,803	5549	14,213	5743	219	222	-104.63	5640	-6839	768	340	428.41	1.793		
13,877	5549	14,286	5743	221	224	-104.62	5688	-6894	768	336	432.00	1.779 SF		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 542H - 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	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	123.00	-22	34	40					
100	100	100	100	0	0	123.00	-22	34	40	40	0.46	86.724		
200	200	200	200	1	1	123.00	-22	34	40	39	1.18	34.004		
300	300	300	300	1	1	123.00	-22	34	40	38	1.90	21.148		
350	350	350	350	1	1	123.00	-22	34	40	38	2.25	17.786 CC		
400	400	400	400	1	1	122.55	-21	34	40	38	2.61	15.358		
500	500	501	501	2	2	122.23	-18	34	40	37	3.33	12.147		
600	600	602	601	2	2	121.62	-11	35	41	37	4.06	10.141 ES		
709	708	711	710	3	2	120.64	1	36	42	37	4.88	8.680		
800	798	802	801	3	3	118.83	13	38	43	38	5.59	7.733		
900	898	902	900	3	3	116.74	26	40	44	38	6.39	6.915		
1000	997	1002	999	4	4	114.74	40	41	45	38	7.20	6.273		
1100	1096	1102	1098	4	4	112.83	53	43	46	38	8.02	5.760		
1200	1195	1202	1197	4	4	111.00	67	45	47	38	8.85	5.343		
1300	1294	1302	1296	5	5	109.26	80	46	48	39	9.69	5.000		
1400	1394	1402	1395	5	5	107.60	94	48	50	39	10.53	4.712		
1500	1493	1502	1494	6	6	106.02	107	50	51	39	11.38	4.469		
1600	1592	1602	1593	6	6	104.52	120	51	52	40	12.23	4.262		
1700	1691	1702	1692	7	7	103.09	134	53	53	40	13.08	4.084		
1800	1791	1802	1791	7	7	101.72	147	55	55	41	13.93	3.929		
1900	1890	1902	1890	7	7	100.43	161	56	56	41	14.79	3.794		
2000	1989	2002	1989	8	8	99.19	174	58	57	42	15.64	3.675		
2100	2088	2102	2088	8	8	98.01	188	60	59	42	16.50	3.570		
2200	2187	2202	2187	9	9	96.89	201	61	60	43	17.35	3.477		
2300	2287	2302	2286	9	9	95.82	215	63	62	44	18.21	3.394		
2400	2386	2402	2386	10	10	94.80	228	65	63	44	19.06	3.319		
2500	2485	2502	2485	10	10	93.83	241	66	65	45	19.92	3.252		
2600	2584	2602	2584	10	10	92.90	255	68	66	46	20.77	3.191		
2700	2683	2702	2683	11	11	92.02	268	70	68	46	21.63	3.136		
2800	2783	2802	2782	11	11	91.17	282	71	69	47	22.48	3.086		
2900	2882	2902	2881	12	12	90.36	295	73	71	48	23.33	3.040		
3000	2981	3002	2980	12	12	89.58	309	75	73	48	24.18	2.998		
3100	3080	3102	3079	12	13	88.84	322	76	74	49	25.03	2.960		
3200	3180	3202	3178	13	13	88.13	336	78	76	50	25.88	2.925		
3300	3279	3302	3277	13	13	87.45	349	80	77	51	26.73	2.892		
3400	3378	3402	3376	14	14	86.80	362	81	79	51	27.58	2.862		
3500	3477	3502	3475	14	14	86.17	376	83	81	52	28.43	2.834		
3600	3576	3602	3574	15	15	85.57	389	85	82	53	29.27	2.808		
3700	3676	3702	3673	15	15	84.99	403	86	84	54	30.12	2.784		
3800	3775	3802	3772	15	16	84.43	416	88	86	55	30.96	2.762		
3900	3874	3902	3871	16	16	83.90	430	90	87	55	31.81	2.741		
4000	3973	4002	3970	16	16	83.38	443	91	89	56	32.65	2.721		
4100	4072	4102	4070	17	17	82.89	457	93	91	57	33.49	2.703		
4200	4172	4202	4169	17	17	82.41	470	95	92	58	34.34	2.686		
4300	4271	4302	4268	18	18	81.95	483	96	94	59	35.18	2.670		
4400	4370	4402	4367	18	18	81.51	497	98	96	60	36.02	2.654		
4500	4469	4502	4466	18	19	81.08	510	100	97	60	36.86	2.640		
4600	4569	4602	4565	19	19	80.66	524	101	99	61	37.70	2.627		
4700	4668	4702	4664	19	20	80.26	537	103	101	62	38.54	2.614		
4800	4767	4802	4763	20	20	79.88	551	105	102	63	39.38	2.602		
4900	4866	4902	4862	20	20	79.50	564	106	104	64	40.21	2.591		
5000	4965	5002	4961	21	21	79.14	578	108	106	65	41.05	2.580		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 542H - 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	
5042	5007	5044	5003	21	21	78.99	583	109	107	65	41.40	2.575	
5050	5015	5052	5011	21	21	83.62	584	109	107	65	41.47	2.575 SF	
5100	5064	5101	5060	21	21	102.19	591	110	110	68	41.96	2.611	
5150	5113	5151	5109	21	21	112.43	598	111	115	73	42.52	2.713	
5200	5160	5195	5152	21	22	119.86	603	112	125	82	43.04	2.909	
5250	5205	5233	5191	22	22	126.20	606	115	141	98	43.35	3.261	
5300	5249	5267	5225	22	22	131.31	607	119	164	121	43.41	3.786	
5350	5290	5300	5257	22	22	135.49	606	125	194	150	43.39	4.466	
5400	5328	5320	5277	23	22	136.91	605	129	229	186	42.95	5.326	
5450	5363	5339	5295	23	22	137.16	603	133	268	226	42.63	6.295	
5500	5395	5350	5305	24	22	134.56	602	136	311	269	42.18	7.384	
5550	5424	5364	5318	24	22	130.74	601	139	357	315	42.08	8.488	
5600	5448	5370	5325	25	22	121.51	600	141	405	363	41.89	9.659	
5650	5468	5374	5328	25	22	104.38	599	142	453	411	41.76	10.852	
5700	5484	5374	5328	26	22	77.46	599	142	502	461	41.70	12.047	
5750	5496	5372	5327	27	22	49.91	600	142	552	510	41.68	13.231	
5800	5503	5369	5323	27	22	31.56	600	141	600	559	41.72	14.391	
5852	5506	5350	5305	28	22	19.12	602	136	650	609	41.47	15.684	
5900	5506	5350	5305	29	22	19.12	602	136	696	655	41.72	16.692	
6000	5507	5350	5305	31	22	19.12	602	136	792	750	42.11	18.813	
6100	5507	5350	5305	32	22	19.12	602	136	889	847	42.40	20.971	
6200	5508	5328	5284	34	22	16.94	604	131	986	944	42.27	23.324	
6300	5508	5321	5277	36	22	16.28	605	129	1083	1041	42.36	25.573	
6400	5509	5300	5257	38	22	14.55	606	125	1181	1139	42.25	27.966	
6500	5509	5300	5257	40	22	14.55	606	125	1279	1237	42.41	30.168	
6600	5510	5300	5257	42	22	14.55	606	125	1377	1335	42.54	32.382	
6700	5511	5300	5257	45	22	14.55	606	125	1476	1433	42.65	34.604	
6800	5511	5300	5257	47	22	14.55	606	125	1574	1532	42.75	36.832	
6900	5512	5300	5257	49	22	14.55	606	125	1673	1630	42.83	39.065	
7000	5512	5300	5257	51	22	14.55	606	125	1772	1729	42.91	41.302	
7100	5513	5300	5257	54	22	14.55	606	125	1871	1828	42.98	43.540	
7200	5513	5300	5257	56	22	14.55	606	125	1970	1927	43.04	45.779	
7300	5514	5279	5236	58	22	13.04	607	121	2069	2026	42.91	48.217	
7400	5514	5276	5233	61	22	12.87	607	121	2168	2125	42.95	50.482	
7500	5515	5274	5231	63	22	12.72	607	120	2267	2224	42.98	52.746	
7600	5515	5272	5229	65	22	12.58	607	120	2367	2324	43.02	55.008	
7700	5516	5250	5207	68	22	11.29	606	117	2466	2423	42.90	57.488	
7800	5516	5250	5207	70	22	11.29	606	117	2566	2523	42.96	59.726	
7900	5517	5250	5207	72	22	11.29	606	117	2665	2622	43.01	61.962	
8000	5517	5250	5207	75	22	11.29	606	117	2764	2721	43.06	64.197	
8100	5518	5250	5207	77	22	11.29	606	117	2864	2821	43.11	66.429	
8200	5519	5250	5207	80	22	11.29	606	117	2963	2920	43.16	68.658	
8300	5519	5250	5207	82	22	11.29	606	117	3063	3019	43.21	70.885	
8400	5520	5250	5207	85	22	11.29	606	117	3162	3119	43.25	73.108	
8500	5520	5250	5207	87	22	11.29	606	117	3262	3218	43.30	75.329	
8600	5521	5250	5207	89	22	11.29	606	117	3361	3318	43.35	77.545	
8700	5521	5250	5207	92	22	11.29	606	117	3461	3418	43.39	79.758	
8800	5522	5250	5207	94	22	11.29	606	117	3561	3517	43.44	81.966	
8900	5522	5250	5207	97	22	11.29	606	117	3660	3617	43.49	84.171	
9000	5523	5250	5207	99	22	11.29	606	117	3760	3716	43.53	86.371	
9100	5523	5250	5207	102	22	11.29	606	117	3860	3816	43.58	88.567	
9200	5524	5250	5207	104	22	11.29	606	117	3959	3916	43.63	90.758	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 542H - 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 (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9300	5524	5250	5207	107	22	11.29	606	117	4059	4015	43.67	92.944	
9400	5525	5250	5207	109	22	11.29	606	117	4159	4115	43.72	95.125	
9500	5526	5250	5207	112	22	11.29	606	117	4259	4215	43.77	97.301	
9600	5526	5250	5207	114	22	11.29	606	117	4358	4314	43.81	99.472	
9700	5527	5250	5207	116	22	11.29	606	117	4458	4414	43.86	101.637	
9800	5527	5250	5207	119	22	11.29	606	117	4558	4514	43.91	103.797	
9900	5528	5250	5207	121	22	11.29	606	117	4658	4614	43.96	105.952	
10,000	5528	5250	5207	124	22	11.29	606	117	4757	4713	44.01	108.100	
10,100	5529	5250	5207	126	22	11.29	606	117	4857	4813	44.06	110.243	
10,200	5529	5250	5207	129	22	11.29	606	117	4957	4913	44.11	112.380	
10,300	5530	5250	5207	131	22	11.29	606	117	5057	5013	44.16	114.511	
10,400	5530	5250	5207	134	22	11.29	606	117	5157	5112	44.21	116.636	
10,500	5531	5250	5207	136	22	11.29	606	117	5256	5212	44.26	118.754	
10,600	5531	5250	5207	139	22	11.29	606	117	5356	5312	44.32	120.866	
10,700	5532	5250	5207	141	22	11.29	606	117	5456	5412	44.37	122.972	
10,800	5532	5250	5207	144	22	11.29	606	117	5556	5512	44.42	125.071	
10,900	5533	5250	5207	146	22	11.29	606	117	5656	5611	44.48	127.164	
11,000	5534	5250	5207	149	22	11.29	606	117	5756	5711	44.53	129.250	
11,100	5534	5250	5207	151	22	11.29	606	117	5856	5811	44.59	131.329	
11,200	5535	5250	5207	154	22	11.29	606	117	5955	5911	44.64	133.402	
11,300	5535	5250	5207	156	22	11.29	606	117	6055	6011	44.70	135.467	
11,400	5536	5250	5207	159	22	11.29	606	117	6155	6110	44.76	137.526	
11,500	5536	5250	5207	161	22	11.29	606	117	6255	6210	44.81	139.578	
11,600	5537	5250	5207	164	22	11.29	606	117	6355	6310	44.87	141.622	
11,700	5537	5250	5207	166	22	11.29	606	117	6455	6410	44.93	143.660	
11,800	5538	5250	5207	169	22	11.29	606	117	6555	6510	44.99	145.690	
11,900	5538	5250	5207	171	22	11.29	606	117	6655	6610	45.05	147.713	
12,000	5539	5250	5207	174	22	11.29	606	117	6755	6709	45.11	149.729	
12,100	5539	5250	5207	176	22	11.29	606	117	6854	6809	45.17	151.737	
12,200	5540	5250	5207	179	22	11.29	606	117	6954	6909	45.24	153.738	
12,300	5541	5250	5207	181	22	11.29	606	117	7054	7009	45.30	155.732	
12,400	5541	5250	5207	184	22	11.29	606	117	7154	7109	45.36	157.718	
12,500	5542	5250	5207	186	22	11.29	606	117	7254	7209	45.42	159.696	
12,600	5542	5250	5207	189	22	11.29	606	117	7354	7309	45.49	161.667	
12,700	5543	5250	5207	191	22	11.29	606	117	7454	7408	45.55	163.630	
12,800	5543	5250	5207	194	22	11.29	606	117	7554	7508	45.62	165.586	
12,900	5544	5250	5207	196	22	11.29	606	117	7654	7608	45.68	167.534	
13,000	5544	5250	5207	199	22	11.29	606	117	7754	7708	45.75	169.474	
13,100	5545	5250	5207	201	22	11.29	606	117	7854	7808	45.82	171.406	
13,200	5545	5250	5207	204	22	11.29	606	117	7954	7908	45.89	173.331	
13,300	5546	5250	5207	206	22	11.29	606	117	8053	8008	45.95	175.248	
13,400	5546	5250	5207	209	22	11.29	606	117	8153	8107	46.02	177.157	
13,500	5547	5250	5207	211	22	11.29	606	117	8253	8207	46.09	179.057	
13,600	5547	5250	5207	214	22	11.29	606	117	8353	8307	46.16	180.951	
13,700	5548	5250	5207	216	22	11.29	606	117	8453	8407	46.23	182.836	
13,800	5549	5250	5207	219	22	11.29	606	117	8553	8507	46.31	184.713	
13,877	5549	5250	5207	221	22	11.24	606	117	8630	8583	46.36	186.154	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 543H - 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		Distance		Minimum Separation (ft)	Separation Factor	Warning	
+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)											
0	0	0	0	0	0	123.00	-33	50	60					
100	100	100	100	0	0	123.00	-33	50	60	60	0.46	130.086		
200	200	200	200	1	1	123.00	-33	50	60	59	1.18	51.007		
300	300	300	300	1	1	123.00	-33	50	60	58	1.90	31.722		
350	350	350	350	1	1	123.00	-33	50	60	58	2.25	26.679		
400	400	401	401	1	1	123.28	-33	50	60	58	2.61	23.042		
442	442	443	443	2	1	124.92	-33	49	60	57	2.90	20.701 CC		
500	500	502	502	2	2	128.83	-34	47	60	57	3.32	18.173 ES		
600	600	602	602	2	2	139.48	-37	40	62	58	4.04	15.391		
709	708	710	709	3	2	154.64	-41	29	69	65	4.85	14.321		
800	798	798	797	3	3	167.03	-45	18	81	75	5.54	14.558		
900	898	895	891	3	3	178.57	-51	2	97	91	6.29	15.436		
1000	997	990	984	4	4	-172.09	-57	-16	118	111	7.05	16.747		
1100	1096	1086	1078	4	4	-165.18	-64	-36	142	134	7.81	18.142		
1200	1195	1182	1172	4	5	-160.26	-72	-55	167	158	8.57	19.458		
1300	1294	1278	1266	5	5	-156.63	-79	-74	193	183	9.33	20.643		
1400	1394	1374	1359	5	6	-153.86	-86	-94	219	209	10.10	21.700		
1500	1493	1469	1453	6	6	-151.68	-93	-113	246	235	10.87	22.637		
1600	1592	1565	1547	6	7	-149.93	-100	-132	273	262	11.64	23.470		
1700	1691	1661	1640	7	7	-148.50	-107	-152	300	288	12.41	24.212		
1800	1791	1757	1734	7	8	-147.31	-114	-171	328	315	13.18	24.875		
1900	1890	1853	1828	7	8	-146.30	-122	-190	356	342	13.96	25.470		
2000	1989	1949	1921	8	9	-145.43	-129	-210	383	368	14.74	26.006		
2100	2088	2045	2015	8	9	-144.68	-136	-229	411	395	15.51	26.492		
2200	2187	2141	2109	9	10	-144.03	-143	-249	439	422	16.29	26.933		
2300	2287	2237	2203	9	10	-143.45	-150	-268	467	450	17.07	27.336		
2400	2386	2333	2296	10	11	-142.94	-157	-287	494	477	17.85	27.704		
2500	2485	2429	2390	10	11	-142.49	-164	-307	522	504	18.63	28.043		
2600	2584	2525	2484	10	12	-142.08	-172	-326	550	531	19.41	28.355		
2700	2683	2621	2577	11	12	-141.70	-179	-345	578	558	20.19	28.644		
2800	2783	2717	2671	11	13	-141.37	-186	-365	606	585	20.97	28.911		
2900	2882	2813	2765	12	13	-141.06	-193	-384	634	613	21.75	29.159		
3000	2981	2909	2858	12	14	-140.78	-200	-403	662	640	22.53	29.391		
3100	3080	3005	2952	12	14	-140.52	-207	-423	690	667	23.32	29.607		
3200	3180	3101	3046	13	15	-140.28	-214	-442	718	694	24.10	29.809		
3300	3279	3197	3140	13	15	-140.06	-222	-462	746	722	24.88	29.999		
3400	3378	3292	3233	14	16	-139.86	-229	-481	775	749	25.67	30.177		
3500	3477	3388	3327	14	16	-139.67	-236	-500	803	776	26.45	30.345		
3600	3576	3484	3421	15	17	-139.49	-243	-520	831	803	27.23	30.503		
3700	3676	3580	3514	15	17	-139.33	-250	-539	859	831	28.02	30.652		
3800	3775	3676	3608	15	18	-139.17	-257	-558	887	858	28.80	30.793		
3900	3874	3772	3702	16	18	-139.03	-264	-578	915	885	29.58	30.926		
4000	3973	3868	3795	16	19	-138.89	-272	-597	943	913	30.37	31.053		
4100	4072	3964	3889	17	20	-138.76	-279	-616	971	940	31.15	31.173		
4200	4172	4060	3983	17	20	-138.64	-286	-636	999	967	31.94	31.288		
4300	4271	4156	4077	18	21	-138.52	-293	-655	1027	995	32.72	31.396		
4400	4370	4252	4170	18	21	-138.41	-300	-674	1056	1022	33.51	31.500		
4500	4469	4348	4264	18	22	-138.31	-307	-694	1084	1049	34.29	31.599		
4600	4569	4444	4358	19	22	-138.21	-314	-713	1112	1077	35.08	31.693		
4700	4668	4540	4451	19	23	-138.12	-322	-733	1140	1104	35.86	31.784		
4800	4767	4636	4545	20	23	-138.03	-329	-752	1168	1131	36.65	31.870		
4900	4866	4732	4639	20	24	-137.95	-336	-771	1196	1159	37.44	31.953		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 543H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5000	4965	4828	4732	21	24	-137.87	-343	-791	1224	1186	38.22	32.032		
5042	5007	4868	4772	21	24	-137.83	-346	-799	1236	1198	38.55	32.064		
5050	5015	4876	4779	21	25	-132.94	-347	-800	1238	1200	38.62	32.070		
5100	5064	4924	4826	21	25	-113.80	-350	-810	1252	1213	39.03	32.083		
5150	5113	4971	4873	21	25	-104.64	-354	-820	1266	1227	39.49	32.060		
5200	5160	5018	4918	21	25	-99.34	-357	-829	1280	1240	39.98	32.001		
5250	5205	5064	4963	22	26	-95.91	-361	-838	1293	1252	40.51	31.911		
5300	5249	5108	5006	22	26	-93.54	-364	-847	1306	1265	41.07	31.792		
5350	5290	5156	5053	22	26	-91.87	-366	-859	1318	1277	41.72	31.601		
5400	5328	5206	5101	23	26	-90.61	-365	-874	1331	1288	42.46	31.339		
5450	5363	5259	5150	23	27	-89.67	-361	-893	1342	1299	43.31	31.000		
5500	5395	5315	5200	24	27	-88.99	-353	-917	1354	1309	44.26	30.581		
5550	5424	5375	5250	24	28	-88.54	-340	-947	1364	1319	45.35	30.081		
5600	5448	5439	5300	25	28	-88.28	-322	-983	1374	1327	46.57	29.498		
5650	5468	5508	5348	25	29	-88.19	-297	-1025	1382	1334	47.94	28.830		
5700	5484	5581	5393	26	30	-88.24	-266	-1075	1389	1340	49.49	28.076		
5750	5496	5660	5431	27	30	-88.41	-227	-1131	1395	1344	51.21	27.249		
5800	5503	5743	5461	27	31	-88.66	-181	-1193	1400	1347	53.10	26.359		
5852	5506	5834	5480	28	33	-88.95	-126	-1262	1402	1347	55.23	25.391		
5900	5506	5913	5485	29	34	-89.14	-75	-1323	1403	1346	57.18	24.541		
6000	5507	6013	5485	31	35	-89.13	-10	-1399	1404	1343	60.68	23.141		
6100	5507	6113	5486	32	37	-89.13	55	-1475	1405	1341	64.37	21.827		
6200	5508	6213	5486	34	38	-89.13	121	-1551	1406	1338	68.24	20.603		
6300	5508	6313	5487	36	40	-89.13	186	-1626	1407	1335	72.25	19.472		
6400	5509	6413	5487	38	42	-89.12	251	-1702	1408	1331	76.39	18.429		
6500	5509	6513	5488	40	44	-89.12	316	-1778	1409	1328	80.63	17.471		
6600	5510	6613	5488	42	46	-89.12	382	-1854	1410	1325	84.96	16.592		
6700	5511	6713	5489	45	48	-89.12	447	-1929	1411	1321	89.36	15.784		
6800	5511	6813	5489	47	50	-89.11	512	-2005	1411	1318	93.83	15.042		
6900	5512	6913	5490	49	52	-89.11	577	-2081	1412	1314	98.36	14.359		
7000	5512	7013	5490	51	54	-89.11	643	-2157	1413	1310	102.94	13.730		
7100	5513	7113	5491	54	57	-89.11	708	-2233	1414	1307	107.55	13.149		
7200	5513	7213	5491	56	59	-89.10	773	-2308	1415	1303	112.21	12.611		
7300	5514	7313	5491	58	61	-89.10	838	-2384	1416	1299	116.90	12.113		
7400	5514	7413	5492	61	63	-89.10	904	-2460	1417	1295	121.62	11.651		
7500	5515	7513	5492	63	66	-89.10	969	-2536	1418	1291	126.36	11.221		
7600	5515	7613	5493	65	68	-89.09	1034	-2611	1419	1288	131.13	10.820		
7700	5516	7713	5493	68	70	-89.09	1099	-2687	1420	1284	135.91	10.445		
7800	5516	7813	5494	70	73	-89.09	1165	-2763	1421	1280	140.72	10.095		
7900	5517	7913	5494	72	75	-89.09	1230	-2839	1421	1276	145.54	9.767		
8000	5517	8013	5495	75	77	-89.09	1295	-2915	1422	1272	150.38	9.459		
8100	5518	8113	5495	77	80	-89.08	1360	-2990	1423	1268	155.23	9.169		
8200	5519	8213	5496	80	82	-89.08	1426	-3066	1424	1264	160.09	8.896		
8300	5519	8313	5496	82	85	-89.08	1491	-3142	1425	1260	164.97	8.639		
8400	5520	8413	5497	85	87	-89.08	1556	-3218	1426	1256	169.85	8.396		
8500	5520	8513	5497	87	89	-89.07	1621	-3293	1427	1252	174.75	8.166		
8600	5521	8613	5497	89	92	-89.07	1687	-3369	1428	1248	179.65	7.948		
8700	5521	8713	5498	92	94	-89.07	1752	-3445	1429	1244	184.56	7.742		
8800	5522	8813	5498	94	97	-89.07	1817	-3521	1430	1240	189.48	7.546		
8900	5522	8913	5499	97	99	-89.06	1882	-3597	1431	1236	194.41	7.359		
9000	5523	9013	5499	99	102	-89.06	1947	-3672	1432	1232	199.34	7.182		
9100	5523	9113	5500	102	104	-89.06	2013	-3748	1432	1228	204.28	7.013		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - # 543H - 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	
9200	5524	9213	5500	104	106	-89.06	2078	-3824	1433	1224	209.22	6.851	
9300	5524	9313	5501	107	109	-89.05	2143	-3900	1434	1220	214.17	6.697	
9400	5525	9413	5501	109	111	-89.05	2208	-3975	1435	1216	219.12	6.550	
9500	5526	9513	5502	112	114	-89.05	2274	-4051	1436	1212	224.08	6.409	
9600	5526	9613	5502	114	116	-89.05	2339	-4127	1437	1208	229.04	6.274	
9700	5527	9713	5503	116	119	-89.04	2404	-4203	1438	1204	234.01	6.145	
9800	5527	9813	5503	119	121	-89.04	2469	-4279	1439	1200	238.97	6.021	
9900	5528	9913	5503	121	124	-89.04	2535	-4354	1440	1196	243.95	5.902	
10,000	5528	10,013	5504	124	126	-89.04	2600	-4430	1441	1192	248.92	5.788	
10,100	5529	10,113	5504	126	129	-89.04	2665	-4506	1442	1188	253.90	5.678	
10,200	5529	10,213	5505	129	131	-89.03	2730	-4582	1443	1184	258.88	5.572	
10,300	5530	10,313	5505	131	134	-89.03	2796	-4658	1443	1180	263.87	5.470	
10,400	5530	10,413	5506	134	136	-89.03	2861	-4733	1444	1176	268.85	5.372	
10,500	5531	10,513	5506	136	139	-89.03	2926	-4809	1445	1171	273.84	5.278	
10,600	5531	10,613	5507	139	141	-89.02	2991	-4885	1446	1167	278.83	5.187	
10,700	5532	10,713	5507	141	143	-89.02	3057	-4961	1447	1163	283.83	5.099	
10,800	5532	10,813	5508	144	146	-89.02	3122	-5036	1448	1159	288.82	5.014	
10,900	5533	10,913	5508	146	148	-89.02	3187	-5112	1449	1155	293.82	4.932	
11,000	5534	11,013	5509	149	151	-89.01	3252	-5188	1450	1151	298.82	4.852	
11,100	5534	11,113	5509	151	153	-89.01	3318	-5264	1451	1147	303.82	4.775	
11,200	5535	11,213	5509	154	156	-89.01	3383	-5340	1452	1143	308.82	4.701	
11,300	5535	11,313	5510	156	158	-89.01	3448	-5415	1453	1139	313.83	4.629	
11,400	5536	11,413	5510	159	161	-89.01	3513	-5491	1454	1135	318.83	4.559	
11,500	5536	11,513	5511	161	163	-89.00	3579	-5567	1454	1131	323.84	4.491	
11,600	5537	11,613	5511	164	166	-89.00	3644	-5643	1455	1127	328.85	4.426	
11,700	5537	11,713	5512	166	168	-89.00	3709	-5718	1456	1122	333.86	4.362	
11,800	5538	11,813	5512	169	171	-89.00	3774	-5794	1457	1118	338.87	4.300	
11,900	5538	11,913	5513	171	173	-88.99	3840	-5870	1458	1114	343.88	4.240	
12,000	5539	12,013	5513	174	176	-88.99	3905	-5946	1459	1110	348.89	4.182	
12,100	5539	12,113	5514	176	178	-88.99	3970	-6022	1460	1106	353.91	4.125	
12,200	5540	12,213	5514	179	181	-88.99	4035	-6097	1461	1102	358.92	4.070	
12,300	5541	12,313	5515	181	183	-88.98	4100	-6173	1462	1098	363.94	4.017	
12,400	5541	12,413	5515	184	186	-88.98	4166	-6249	1463	1094	368.96	3.964	
12,500	5542	12,513	5515	186	188	-88.98	4231	-6325	1464	1090	373.97	3.914	
12,600	5542	12,613	5516	189	191	-88.98	4296	-6400	1465	1086	378.99	3.864	
12,700	5543	12,713	5516	191	193	-88.98	4361	-6476	1465	1081	384.01	3.816	
12,800	5543	12,813	5517	194	196	-88.97	4427	-6552	1466	1077	389.03	3.769	
12,900	5544	12,913	5517	196	198	-88.97	4492	-6628	1467	1073	394.06	3.724	
13,000	5544	13,013	5518	199	201	-88.97	4557	-6704	1468	1069	399.08	3.679	
13,100	5545	13,113	5518	201	203	-88.97	4622	-6779	1469	1065	404.10	3.636	
13,200	5545	13,213	5519	204	206	-88.96	4688	-6855	1470	1061	409.12	3.593	
13,300	5546	13,313	5519	206	208	-88.96	4753	-6931	1471	1057	414.15	3.552	
13,400	5546	13,413	5520	209	211	-88.96	4818	-7007	1472	1053	419.17	3.511	
13,500	5547	13,513	5520	211	213	-88.96	4883	-7082	1473	1049	424.20	3.472	
13,600	5547	13,613	5521	214	216	-88.96	4949	-7158	1474	1044	429.23	3.433	
13,700	5548	13,713	5521	216	219	-88.95	5014	-7234	1475	1040	434.25	3.396	
13,800	5549	13,813	5521	219	221	-88.95	5079	-7310	1476	1036	439.28	3.359	
13,877	5549	13,890	5522	221	223	-88.95	5129	-7368	1477	1033	443.13	3.332 SF	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - Federal 1-A - OH - OH													Offset Site Error:	0 ft	
Survey Program:		5680-INCLINOMETER					Offset Wellbore Centre			Rule Assigned:				Offset Well Error:	0 ft
Measured Depth	Reference	Vertical	Measured	Offset	Semi Major Axis	Highside			Distance				Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-38.98	4510	-3649	5804						
100	100	0	0	0	0	-38.98	4510	-3649	5802	5801	0.31	N/A			
200	200	33	33	1	1	-38.98	4510	-3649	5801	5800	1.67	3,475.619			
300	300	133	133	1	4	-38.98	4510	-3649	5801	5796	5.06	1,145.479			
350	350	183	183	1	6	-38.98	4510	-3649	5801	5794	6.76	857.901			
400	400	233	233	1	7	-39.40	4510	-3649	5801	5792	8.46	685.701			
500	500	333	333	2	10	-39.46	4510	-3649	5798	5786	11.85	489.112			
600	600	433	433	2	13	-39.57	4510	-3649	5793	5778	15.25	379.919			
709	708	541	541	3	16	-39.76	4510	-3649	5784	5765	18.94	305.341			
800	798	631	631	3	19	-39.83	4510	-3649	5775	5753	22.02	262.217			
900	898	731	731	3	22	-39.91	4510	-3649	5765	5740	25.41	226.873			
1000	997	830	830	4	25	-39.99	4510	-3649	5756	5727	28.80	199.823			
1100	1096	929	929	4	28	-40.07	4510	-3649	5746	5714	32.20	178.459			
1200	1195	1028	1028	4	31	-40.15	4510	-3649	5737	5701	35.60	161.162			
1300	1294	1127	1127	5	34	-40.23	4510	-3649	5727	5688	38.99	146.874			
1400	1394	1227	1227	5	37	-40.31	4510	-3649	5718	5675	42.39	134.872			
1500	1493	1326	1326	6	40	-40.39	4510	-3649	5708	5662	45.79	124.650			
1600	1592	1425	1425	6	43	-40.47	4510	-3649	5698	5649	49.19	115.839			
1700	1691	1524	1524	7	46	-40.55	4510	-3649	5689	5636	52.59	108.166			
1800	1791	1624	1624	7	49	-40.63	4510	-3649	5679	5623	56.00	101.425			
1900	1890	1723	1723	7	52	-40.72	4510	-3649	5670	5610	59.40	95.455			
2000	1989	1822	1822	8	55	-40.80	4510	-3649	5660	5598	62.80	90.131			
2100	2088	1921	1921	8	58	-40.88	4510	-3649	5651	5585	66.20	85.355			
2200	2187	2020	2020	9	61	-40.96	4510	-3649	5641	5572	69.61	81.045			
2300	2287	2120	2120	9	64	-41.05	4510	-3649	5632	5559	73.01	77.137			
2400	2386	2219	2219	10	67	-41.13	4510	-3649	5622	5546	76.42	73.577			
2500	2485	2318	2318	10	70	-41.21	4510	-3649	5613	5533	79.82	70.320			
2600	2584	2417	2417	10	73	-41.30	4510	-3649	5604	5520	83.23	67.330			
2700	2683	2516	2516	11	76	-41.38	4510	-3649	5594	5508	86.63	64.574			
2800	2783	2616	2616	11	79	-41.47	4510	-3649	5585	5495	90.04	62.028			
2900	2882	2715	2715	12	82	-41.55	4510	-3649	5575	5482	93.44	59.666			
3000	2981	2814	2814	12	85	-41.64	4510	-3649	5566	5469	96.85	57.471			
3100	3080	2913	2913	12	88	-41.72	4510	-3649	5557	5456	100.26	55.425			
3200	3180	3013	3013	13	91	-41.81	4510	-3649	5547	5444	103.66	53.513			
3300	3279	3112	3112	13	94	-41.89	4510	-3649	5538	5431	107.07	51.723			
3400	3378	3211	3211	14	98	-41.98	4510	-3649	5529	5418	110.48	50.044			
3500	3477	3310	3310	14	101	-42.06	4510	-3649	5519	5405	113.88	48.464			
3600	3576	3409	3409	15	104	-42.15	4510	-3649	5510	5393	117.29	46.977			
3700	3676	3509	3509	15	107	-42.24	4510	-3649	5501	5380	120.70	45.574			
3800	3775	3608	3608	15	110	-42.33	4510	-3649	5491	5367	124.11	44.248			
3900	3874	3707	3707	16	113	-42.41	4510	-3649	5482	5355	127.52	42.992			
4000	3973	3806	3806	16	116	-42.50	4510	-3649	5473	5342	130.92	41.802			
4100	4072	3905	3905	17	119	-42.59	4510	-3649	5464	5329	134.33	40.673			
4200	4172	4005	4005	17	122	-42.68	4510	-3649	5454	5317	137.74	39.599			
4300	4271	4104	4104	18	125	-42.77	4510	-3649	5445	5304	141.15	38.577			
4400	4370	4203	4203	18	128	-42.86	4510	-3649	5436	5291	144.56	37.604			
4500	4469	4302	4302	18	131	-42.95	4510	-3649	5427	5279	147.97	36.675			
4600	4569	4402	4402	19	134	-43.04	4510	-3649	5418	5266	151.38	35.789			
4700	4668	4501	4501	19	137	-43.13	4510	-3649	5408	5254	154.79	34.941			
4800	4767	4600	4600	20	140	-43.22	4510	-3649	5399	5241	158.20	34.130			
4900	4866	4699	4699	20	143	-43.31	4510	-3649	5390	5229	161.61	33.353			
5000	4965	4798	4798	21	146	-43.40	4510	-3649	5381	5216	165.02	32.609			

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 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	
5042	5007	4840	4840	21	147	-43.44	4510	-3649	5377	5211	166.46	32.304	
5050	5015	4848	4848	21	147	-38.79	4510	-3649	5376	5210	166.73	32.247	
5100	5064	4897	4897	21	149	-21.02	4510	-3649	5369	5201	168.42	31.878	
5150	5113	4946	4946	21	150	-12.94	4510	-3649	5357	5187	170.09	31.495	
5200	5160	4993	4993	21	152	-8.44	4510	-3649	5341	5169	171.72	31.101	
5250	5205	5038	5038	22	153	-5.53	4510	-3649	5320	5147	173.28	30.701	
5300	5249	5082	5082	22	154	-3.42	4510	-3649	5295	5121	174.78	30.297	
5350	5290	5123	5123	22	156	-1.72	4510	-3649	5267	5091	176.19	29.893	
5400	5328	5161	5161	23	157	-0.21	4510	-3649	5235	5057	177.50	29.491	
5450	5363	5196	5196	23	158	1.25	4510	-3649	5199	5021	178.71	29.094	
5500	5395	5228	5228	24	159	2.81	4510	-3649	5161	4981	179.79	28.705	
5550	5424	5257	5257	24	160	4.63	4510	-3649	5120	4939	180.75	28.325	
5600	5448	5281	5281	25	160	6.95	4510	-3649	5076	4895	181.56	27.958	
5650	5468	5301	5301	25	161	10.19	4510	-3649	5031	4848	182.23	27.605	
5700	5484	5317	5317	26	161	15.27	4510	-3649	4983	4801	182.76	27.268	
5750	5496	5329	5329	27	162	24.41	4510	-3649	4935	4752	183.13	26.948	
5800	5503	5336	5336	27	162	43.97	4510	-3649	4886	4702	183.34	26.648	
5852	5506	5339	5339	28	162	87.11	4510	-3649	4834	4651	183.40	26.359	
5900	5506	5339	5339	29	162	87.14	4510	-3649	4786	4603	183.38	26.100	
6000	5507	5340	5340	31	162	87.20	4510	-3649	4687	4504	183.34	25.564	
6100	5507	5340	5340	32	162	87.26	4510	-3649	4587	4404	183.30	25.027	
6200	5508	5341	5341	34	162	87.32	4510	-3649	4488	4305	183.27	24.489	
6300	5508	5341	5341	36	162	87.38	4510	-3649	4389	4206	183.24	23.951	
6400	5509	5342	5342	38	162	87.44	4510	-3649	4289	4106	183.21	23.413	
6500	5509	5342	5342	40	162	87.50	4510	-3649	4190	4007	183.19	22.874	
6600	5510	5343	5343	42	162	87.56	4510	-3649	4091	3908	183.17	22.334	
6700	5511	5344	5344	45	162	87.62	4510	-3649	3992	3809	183.17	21.793	
6800	5511	5344	5344	47	162	87.68	4510	-3649	3893	3709	183.17	21.251	
6900	5512	5345	5345	49	162	87.74	4510	-3649	3793	3610	183.18	20.709	
7000	5512	5345	5345	51	162	87.80	4510	-3649	3694	3511	183.20	20.166	
7100	5513	5346	5346	54	162	87.86	4510	-3649	3595	3412	183.24	19.621	
7200	5513	5346	5346	56	162	87.92	4510	-3649	3496	3313	183.29	19.076	
7300	5514	5347	5347	58	162	87.98	4510	-3649	3398	3214	183.36	18.529	
7400	5514	5347	5347	61	162	88.04	4510	-3649	3299	3115	183.46	17.981	
7500	5515	5348	5348	63	162	88.10	4510	-3649	3200	3016	183.57	17.432	
7600	5515	5348	5348	65	162	88.16	4510	-3649	3101	2918	183.72	16.881	
7700	5516	5349	5349	68	162	88.22	4510	-3649	3003	2819	183.90	16.328	
7800	5516	5349	5349	70	162	88.28	4510	-3649	2904	2720	184.12	15.774	
7900	5517	5350	5350	72	162	88.34	4510	-3649	2806	2621	184.38	15.218	
8000	5517	5350	5350	75	162	88.40	4510	-3649	2708	2523	184.69	14.660	
8100	5518	5351	5351	77	163	88.46	4510	-3649	2609	2424	185.07	14.100	
8200	5519	5352	5352	80	163	88.52	4510	-3649	2511	2326	185.51	13.538	
8300	5519	5352	5352	82	163	88.58	4510	-3649	2414	2228	186.04	12.973	
8400	5520	5353	5353	85	163	88.64	4510	-3649	2316	2129	186.66	12.407	
8500	5520	5353	5353	87	163	88.70	4510	-3649	2219	2031	187.39	11.839	
8600	5521	5354	5354	89	163	88.76	4510	-3649	2121	1933	188.24	11.269	
8700	5521	5354	5354	92	163	88.82	4510	-3649	2024	1835	189.24	10.698	
8800	5522	5355	5355	94	163	88.88	4510	-3649	1928	1737	190.40	10.125	
8900	5522	5355	5355	97	163	88.94	4510	-3649	1832	1640	191.76	9.551	
9000	5523	5356	5356	99	163	89.00	4510	-3649	1736	1542	193.35	8.977	
9100	5523	5356	5356	102	163	89.06	4510	-3649	1640	1445	195.21	8.404	
9200	5524	5357	5357	104	163	89.12	4510	-3649	1546	1348	197.37	7.832	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - Federal 1-A - OH - OH												Offset Site Error:	0 ft
Survey Program: 5680-INCLINOMETER												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
9300	5524	5357	5357	107	163	89.18	4510	-3649	1452	1252	199.90	7.262	
9400	5525	5358	5358	109	163	89.24	4510	-3649	1359	1156	202.85	6.697	
9500	5526	5359	5359	112	163	89.30	4510	-3649	1266	1060	206.32	6.138	
9600	5526	5359	5359	114	163	89.36	4510	-3649	1176	965	210.39	5.588	
9700	5527	5360	5360	116	163	89.42	4510	-3649	1086	871	215.19	5.048	
9800	5527	5360	5360	119	163	89.48	4510	-3649	999	778	220.84	4.524	
9900	5528	5361	5361	121	163	89.54	4510	-3649	915	687	227.53	4.020	
10,000	5528	5361	5361	124	163	89.60	4510	-3649	833	598	235.41	3.541	
10,100	5529	5362	5362	126	163	89.66	4510	-3649	757	512	244.63	3.094	
10,200	5529	5362	5362	129	163	89.72	4510	-3649	686	431	255.26	2.689	
10,300	5530	5363	5363	131	163	89.78	4510	-3649	624	357	267.11	2.336	
10,400	5530	5363	5363	134	163	89.84	4510	-3649	572	293	279.50	2.047	
10,500	5531	5364	5364	136	163	89.90	4510	-3649	534	243	291.10	1.836	
10,600	5531	5364	5364	139	163	89.96	4510	-3649	514	214	299.93	1.713	
10,659	5532	5365	5365	140	163	90.00	4510	-3649	510	207	303.08	1.684 CC, ES	
10,700	5532	5365	5365	141	163	90.02	4510	-3649	512	208	304.20	1.683 SF	
10,800	5532	5365	5365	144	163	90.08	4510	-3649	529	226	303.34	1.745	
10,900	5533	5366	5366	146	163	90.14	4510	-3649	564	266	298.33	1.891	
11,000	5534	5367	5367	149	163	90.20	4510	-3649	614	323	290.91	2.109	
11,100	5534	5367	5367	151	163	90.26	4510	-3649	674	392	282.65	2.386	
11,200	5535	5368	5368	154	163	90.33	4510	-3649	744	469	274.53	2.709	
11,300	5535	5368	5368	156	163	90.39	4510	-3649	819	552	267.04	3.068	
11,400	5536	5369	5369	159	163	90.45	4510	-3649	900	639	260.35	3.455	
11,500	5536	5369	5369	161	163	90.51	4510	-3649	984	729	254.47	3.865	
11,600	5537	5370	5370	164	163	90.57	4510	-3649	1070	821	249.34	4.293	
11,700	5537	5370	5370	166	163	90.63	4510	-3649	1159	914	244.86	4.734	
11,800	5538	5371	5371	169	163	90.69	4510	-3649	1250	1009	240.95	5.187	
11,900	5538	5371	5371	171	163	90.75	4510	-3649	1342	1104	237.51	5.649	
12,000	5539	5372	5372	174	163	90.81	4510	-3649	1435	1200	234.50	6.118	
12,100	5539	5372	5372	176	163	90.87	4510	-3649	1529	1297	231.83	6.594	
12,200	5540	5373	5373	179	163	90.93	4510	-3649	1623	1394	229.46	7.074	
12,300	5541	5374	5374	181	163	90.99	4510	-3649	1718	1491	227.35	7.559	
12,400	5541	5374	5374	184	163	91.05	4510	-3649	1814	1589	225.46	8.047	
12,500	5542	5375	5375	186	163	91.11	4510	-3649	1910	1687	223.76	8.537	
12,600	5542	5375	5375	189	163	91.17	4510	-3649	2007	1785	222.23	9.031	
12,700	5543	5376	5376	191	163	91.23	4510	-3649	2104	1883	220.84	9.526	
12,800	5543	5376	5376	194	163	91.29	4510	-3649	2201	1981	219.58	10.023	
12,900	5544	5377	5377	196	163	91.35	4510	-3649	2298	2080	218.44	10.521	
13,000	5544	5377	5377	199	163	91.41	4510	-3649	2396	2178	217.39	11.021	
13,100	5545	5378	5378	201	163	91.47	4510	-3649	2494	2277	216.43	11.522	
13,200	5545	5378	5378	204	163	91.53	4510	-3649	2592	2376	215.55	12.023	
13,300	5546	5379	5379	206	163	91.59	4510	-3649	2690	2475	214.74	12.525	
13,400	5546	5379	5379	209	163	91.65	4510	-3649	2788	2574	214.00	13.028	
13,500	5547	5380	5380	211	163	91.71	4510	-3649	2886	2673	213.31	13.531	
13,600	5547	5380	5380	214	163	91.77	4510	-3649	2985	2772	212.67	14.035	
13,700	5548	5381	5381	216	163	91.83	4510	-3649	3083	2871	212.08	14.539	
13,800	5549	5382	5382	219	163	91.89	4510	-3649	3182	2971	211.54	15.043	
13,877	5549	5382	5382	221	163	91.93	4510	-3649	3258	3046	211.13	15.429	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-42.58	5593	-5139	7596					
100	100	1	1	0	0	-42.58	5593	-5139	7595	7595	0.34	N/A		
200	200	101	101	1	3	-42.58	5593	-5139	7595	7592	3.73	2,034.136		
300	300	201	201	1	6	-42.58	5593	-5139	7595	7588	7.13	1,065.385		
350	350	252	252	1	8	-42.58	5593	-5139	7596	7587	8.85	858.501		
400	400	304	304	1	9	-43.00	5593	-5139	7595	7585	10.62	715.308		
500	500	401	401	2	12	-43.05	5593	-5139	7593	7579	13.92	545.471		
600	600	501	501	2	15	-43.16	5593	-5139	7587	7570	17.31	438.273		
709	708	609	609	3	18	-43.33	5593	-5139	7579	7558	21.01	360.770		
800	798	707	707	3	21	-43.39	5594	-5139	7571	7547	24.31	311.411		
900	898	816	816	3	25	-43.47	5593	-5139	7562	7534	28.01	269.935		
1000	997	898	898	4	27	-43.52	5593	-5139	7553	7522	30.88	244.592		
1100	1096	997	997	4	30	-43.59	5593	-5139	7543	7509	34.28	220.083		
1200	1195	1097	1097	4	33	-43.65	5594	-5139	7535	7497	37.69	199.904		
1300	1294	1217	1217	5	37	-43.73	5593	-5139	7526	7484	41.73	180.331		
1400	1394	1337	1337	5	41	-43.81	5593	-5139	7516	7470	45.77	164.217		
1500	1493	1394	1394	6	42	-43.85	5593	-5139	7507	7459	47.88	156.790		
1600	1592	1493	1493	6	45	-43.91	5593	-5139	7498	7447	51.28	146.208		
1700	1691	1594	1594	7	48	-43.98	5593	-5139	7489	7435	54.75	136.783		
1800	1791	1699	1699	7	52	-44.05	5593	-5139	7480	7422	58.31	128.290		
1900	1890	1803	1803	7	55	-44.12	5593	-5139	7471	7409	61.86	120.772		
2000	1989	1890	1890	8	57	-44.18	5593	-5139	7462	7397	64.91	114.967		
2100	2088	1989	1989	8	60	-44.25	5593	-5139	7453	7385	68.31	109.102		
2200	2187	2089	2088	9	63	-44.31	5593	-5139	7444	7372	71.72	103.793		
2300	2287	2203	2203	9	67	-44.39	5594	-5139	7436	7360	75.59	98.364		
2400	2386	2352	2352	10	71	-44.49	5592	-5139	7426	7345	80.51	92.234		
2500	2485	2386	2386	10	72	-44.51	5593	-5139	7417	7335	81.94	90.516		
2600	2584	2500	2499	10	76	-44.59	5594	-5139	7409	7323	85.78	86.370		
2700	2683	2641	2641	11	80	-44.69	5593	-5139	7399	7309	90.46	81.793		
2800	2783	2684	2684	11	82	-44.72	5593	-5139	7390	7298	92.17	80.183		
2900	2882	2783	2783	12	85	-44.78	5593	-5139	7381	7286	95.58	77.230		
3000	2981	2897	2897	12	88	-44.86	5594	-5139	7373	7274	99.43	74.155		
3100	3080	3016	3016	12	92	-44.95	5593	-5139	7364	7260	103.45	71.184		
3200	3180	3081	3081	13	94	-44.99	5593	-5139	7355	7249	105.81	69.512		
3300	3279	3180	3180	13	97	-45.06	5593	-5139	7346	7237	109.22	67.260		
3400	3378	3283	3283	14	100	-45.12	5594	-5139	7338	7225	112.74	65.086		
3500	3477	3405	3404	14	103	-45.21	5594	-5139	7329	7212	116.83	62.731		
3600	3576	3526	3526	15	107	-45.30	5593	-5139	7319	7199	120.91	60.536		
3700	3676	3577	3577	15	109	-45.33	5593	-5139	7311	7188	122.86	59.503		
3800	3775	3685	3685	15	112	-45.40	5594	-5139	7302	7176	126.54	57.711		
3900	3874	3861	3861	16	117	-45.54	5592	-5139	7293	7161	132.27	55.138		
4000	3973	3875	3874	16	118	-45.54	5593	-5139	7284	7151	133.09	54.729		
4100	4072	3974	3973	17	121	-45.61	5593	-5139	7275	7139	136.50	53.298		
4200	4172	4073	4073	17	124	-45.68	5593	-5139	7267	7127	139.92	51.935		
4300	4271	4185	4185	18	127	-45.76	5594	-5139	7258	7115	143.71	50.507		
4400	4370	4299	4298	18	131	-45.84	5593	-5139	7249	7102	147.55	49.130		
4500	4469	4371	4370	18	133	-45.89	5593	-5139	7240	7090	150.15	48.220		
4600	4569	4470	4470	19	136	-45.97	5593	-5139	7232	7078	153.56	47.092		
4700	4668	4582	4581	19	139	-46.04	5593	-5139	7223	7066	157.36	45.902		
4800	4767	4669	4668	20	142	-46.11	5593	-5139	7214	7054	160.39	44.979		
4900	4866	4768	4767	20	145	-46.18	5593	-5139	7205	7042	163.80	43.989		
5000	4965	4889	4888	21	148	-46.26	5594	-5139	7197	7029	167.87	42.873		

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 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
5042	5007	4946	4945	21	150	-46.31	5593	-5139	7193	7024	169.77	42.371
5050	5015	4957	4956	21	151	-41.67	5593	-5139	7193	7022	170.13	42.278
5100	5064	5024	5023	21	153	-23.95	5593	-5139	7185	7013	172.37	41.684
5150	5113	5014	5014	21	152	-15.89	5593	-5139	7173	7001	172.29	41.635
5200	5160	5061	5061	21	154	-11.48	5593	-5139	7157	6983	173.92	41.151
5250	5205	5107	5106	22	155	-8.70	5593	-5139	7137	6961	175.50	40.666
5300	5249	5150	5150	22	156	-6.76	5593	-5139	7112	6935	177.00	40.182
5350	5290	5191	5191	22	158	-5.29	5593	-5139	7084	6905	178.42	39.703
5400	5328	5233	5232	23	159	-4.08	5594	-5139	7052	6873	179.83	39.218
5450	5363	5275	5275	23	160	-3.02	5594	-5139	7017	6836	181.26	38.712
5500	5395	5314	5313	24	161	-1.99	5594	-5139	6978	6796	182.56	38.226
5550	5424	5348	5347	24	162	-0.89	5594	-5139	6937	6753	183.70	37.764
5600	5448	5377	5376	25	163	0.43	5594	-5139	6893	6709	184.67	37.328
5650	5468	5401	5401	25	164	2.19	5594	-5139	6848	6662	185.47	36.920
5700	5484	5420	5420	26	165	4.93	5593	-5139	6800	6614	186.10	36.541
5750	5496	5434	5433	27	165	10.15	5593	-5139	6752	6565	186.55	36.193
5800	5503	5442	5442	27	165	24.20	5593	-5139	6702	6515	186.81	35.877
5852	5506	5445	5445	28	165	90.37	5593	-5139	6651	6464	186.89	35.585
5900	5506	5445	5445	29	165	90.37	5593	-5139	6602	6416	186.88	35.330
6000	5507	5445	5445	31	165	90.37	5593	-5139	6503	6316	186.85	34.801
6100	5507	5445	5445	32	165	90.37	5593	-5139	6403	6216	186.82	34.271
6200	5508	5445	5445	34	165	90.37	5593	-5139	6303	6116	186.80	33.742
6300	5508	5445	5445	36	165	90.37	5593	-5139	6203	6016	186.77	33.212
6400	5509	5445	5445	38	165	90.37	5593	-5139	6103	5916	186.74	32.682
6500	5509	5445	5445	40	165	90.37	5593	-5139	6003	5817	186.72	32.152
6600	5510	5445	5445	42	165	90.37	5593	-5139	5903	5717	186.70	31.621
6700	5511	5445	5445	45	165	90.37	5593	-5139	5804	5617	186.67	31.090
6800	5511	5445	5445	47	165	90.37	5593	-5139	5704	5517	186.65	30.559
6900	5512	5445	5445	49	165	90.37	5593	-5139	5604	5417	186.63	30.027
7000	5512	5445	5445	51	165	90.37	5593	-5139	5504	5318	186.61	29.495
7100	5513	5445	5445	54	165	90.37	5593	-5139	5404	5218	186.60	28.963
7200	5513	5445	5445	56	165	90.37	5593	-5139	5305	5118	186.58	28.431
7300	5514	5445	5445	58	165	90.37	5593	-5139	5205	5018	186.57	27.898
7400	5514	5445	5445	61	165	90.36	5593	-5139	5105	4918	186.56	27.365
7500	5515	5445	5445	63	165	90.36	5593	-5139	5005	4819	186.55	26.831
7600	5515	5445	5445	65	165	90.36	5593	-5139	4905	4719	186.54	26.297
7700	5516	5445	5445	68	165	90.36	5593	-5139	4806	4619	186.54	25.763
7800	5516	5445	5445	70	165	90.36	5593	-5139	4706	4519	186.54	25.228
7900	5517	5445	5445	72	165	90.36	5593	-5139	4606	4420	186.54	24.693
8000	5517	5445	5445	75	165	90.36	5593	-5139	4507	4320	186.55	24.157
8100	5518	5445	5445	77	165	90.36	5593	-5139	4407	4220	186.56	23.621
8200	5519	5445	5445	80	165	90.36	5593	-5139	4307	4121	186.58	23.085
8300	5519	5445	5445	82	165	90.36	5593	-5139	4207	4021	186.61	22.548
8400	5520	5445	5445	85	165	90.36	5593	-5139	4108	3921	186.64	22.010
8500	5520	5445	5445	87	165	90.36	5593	-5139	4008	3822	186.67	21.471
8600	5521	5445	5445	89	165	90.36	5593	-5139	3909	3722	186.72	20.933
8700	5521	5445	5445	92	165	90.36	5593	-5139	3809	3622	186.78	20.393
8800	5522	5445	5445	94	165	90.36	5593	-5139	3709	3523	186.85	19.853
8900	5522	5445	5445	97	165	90.36	5593	-5139	3610	3423	186.93	19.311
9000	5523	5445	5445	99	165	90.36	5593	-5139	3510	3323	187.02	18.769
9100	5523	5445	5445	102	165	90.36	5593	-5139	3411	3224	187.13	18.226
9200	5524	5445	5445	104	165	90.36	5593	-5139	3311	3124	187.26	17.683

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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: A26 2307 Pad - Federal B-10 - OH - OH												Offset Site Error:	0 ft
Survey Program: 104-INCLINOMETER												Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9300	5524	5445	5445	107	165	90.36	5593	-5139	3212	3024	187.41	17.138	
9400	5525	5445	5445	109	165	90.36	5593	-5139	3112	2925	187.59	16.592	
9500	5526	5445	5445	112	165	90.36	5593	-5139	3013	2825	187.79	16.045	
9600	5526	5445	5445	114	165	90.36	5593	-5139	2914	2726	188.03	15.496	
9700	5527	5445	5445	116	165	90.36	5593	-5139	2814	2626	188.30	14.946	
9800	5527	5445	5445	119	165	90.36	5593	-5139	2715	2527	188.62	14.395	
9900	5528	5445	5445	121	165	90.36	5593	-5139	2616	2427	188.98	13.843	
10,000	5528	5445	5445	124	165	90.36	5593	-5139	2517	2328	189.41	13.289	
10,100	5529	5445	5445	126	165	90.36	5593	-5139	2418	2228	189.90	12.733	
10,200	5529	5445	5445	129	165	90.36	5593	-5139	2319	2129	190.46	12.175	
10,300	5530	5445	5445	131	165	90.36	5593	-5139	2220	2029	191.12	11.616	
10,400	5530	5445	5445	134	165	90.36	5593	-5139	2121	1929	191.88	11.056	
10,500	5531	5445	5445	136	165	90.36	5593	-5139	2023	1830	192.76	10.494	
10,600	5531	5445	5445	139	165	90.36	5593	-5139	1924	1730	193.79	9.930	
10,700	5532	5445	5445	141	165	90.36	5593	-5139	1826	1631	194.98	9.365	
10,800	5532	5445	5445	144	165	90.36	5593	-5139	1728	1531	196.37	8.799	
10,900	5533	5445	5445	146	165	90.36	5593	-5139	1630	1432	198.00	8.232	
11,000	5534	5445	5445	149	165	90.36	5593	-5139	1532	1332	199.91	7.665	
11,100	5534	5445	5445	151	165	90.36	5593	-5139	1435	1233	202.16	7.098	
11,200	5535	5445	5445	154	165	90.36	5593	-5139	1338	1133	204.83	6.533	
11,300	5535	5445	5445	156	165	90.36	5593	-5139	1242	1034	207.99	5.970	
11,400	5536	5445	5445	159	165	90.36	5593	-5139	1146	934	211.78	5.411	
11,500	5536	5445	5445	161	165	90.36	5593	-5139	1051	835	216.34	4.858	
11,600	5537	5445	5445	164	165	90.36	5593	-5139	957	735	221.88	4.313	
11,700	5537	5445	5445	166	165	90.36	5593	-5139	864	636	228.67	3.780	
11,800	5538	5445	5445	169	165	90.36	5593	-5139	774	536	237.08	3.263	
11,900	5538	5445	5445	171	165	90.36	5593	-5139	685	438	247.59	2.768	
12,000	5539	5445	5445	174	165	90.36	5593	-5139	601	340	260.81	2.304	
12,100	5539	5445	5445	176	165	90.36	5593	-5139	522	244	277.37	1.881	
12,200	5540	5445	5445	179	165	90.36	5593	-5139	451	154	297.57	1.516	
12,300	5541	5445	5445	181	165	90.36	5593	-5139	394	73	320.26	1.229	Level 3
12,400	5541	5445	5445	184	165	90.36	5593	-5139	355	14	340.93	1.042	Level 3
12,494	5542	5445	5445	186	165	90.36	5593	-5139	343	-9	351.41	0.975	Level 3, CC
12,500	5542	5445	5445	186	165	90.36	5593	-5139	343	-9	351.67	0.974	Level 3, ES, SF
12,600	5542	5445	5445	189	165	90.36	5593	-5139	359	11	347.70	1.032	Level 3
12,700	5543	5445	5445	191	165	90.36	5593	-5139	400	67	333.04	1.201	Level 3
12,800	5543	5445	5445	194	165	90.36	5593	-5139	460	145	315.05	1.459	Level 3
12,900	5544	5445	5445	196	165	90.36	5593	-5139	532	233	298.19	1.783	
13,000	5544	5445	5445	199	165	90.36	5593	-5139	611	328	283.91	2.154	
13,100	5545	5445	5445	201	165	90.35	5593	-5139	697	424	272.21	2.559	
13,200	5545	5445	5445	204	165	90.35	5593	-5139	785	522	262.69	2.989	
13,300	5546	5445	5445	206	165	90.35	5593	-5139	876	621	254.92	3.437	
13,400	5546	5445	5445	209	165	90.35	5593	-5139	969	721	248.52	3.899	
13,500	5547	5445	5445	211	165	90.35	5593	-5139	1063	820	243.19	4.372	
13,600	5547	5445	5445	214	165	90.35	5593	-5139	1158	920	238.71	4.852	
13,700	5548	5445	5445	216	165	90.35	5593	-5139	1254	1019	234.90	5.339	
13,800	5549	5445	5445	219	165	90.35	5593	-5139	1351	1119	231.64	5.831	
13,877	5549	5445	5445	221	165	90.35	5593	-5139	1425	1195	229.41	6.211	

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 # 544H - Slot 4
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	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 7307' & RKB 14' @ 7321ft

Coordinates are relative to: # 544H - Slot 4

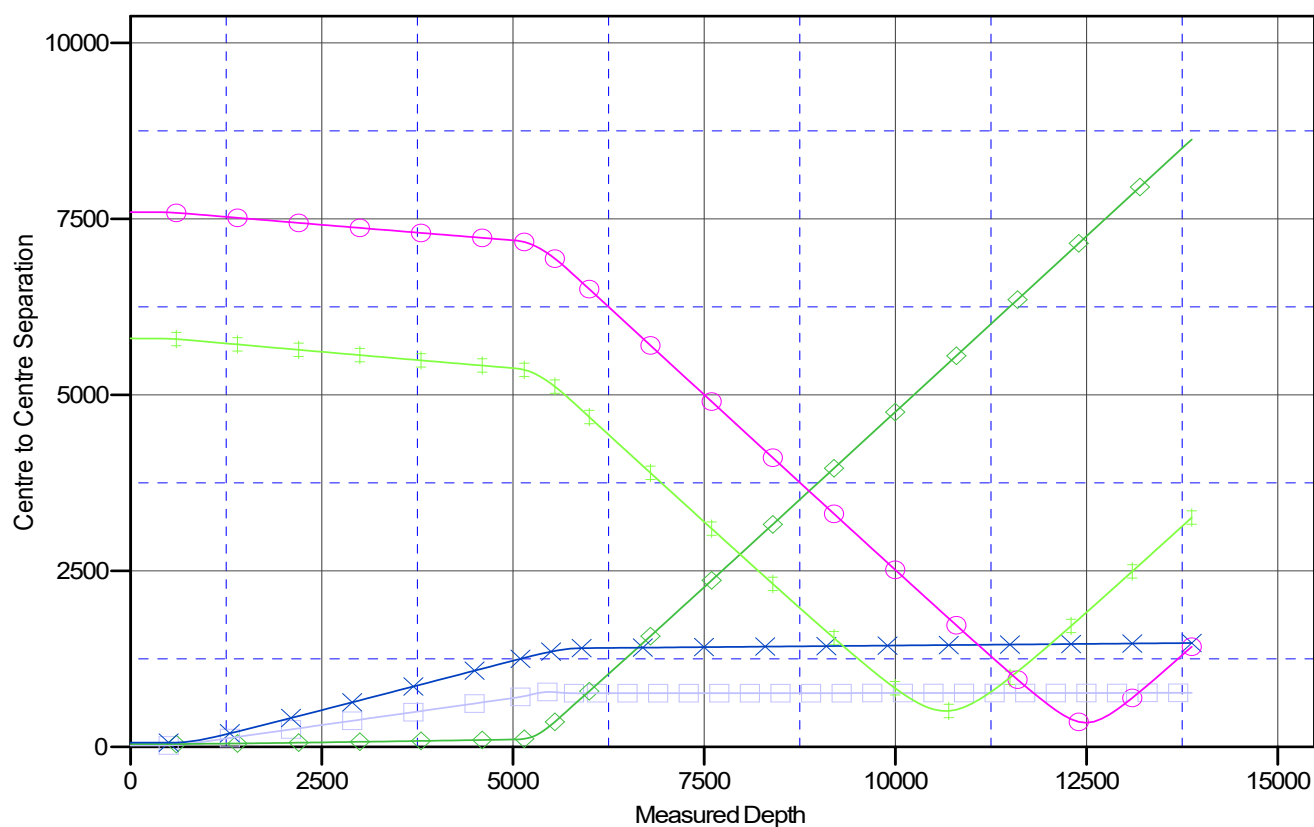
Offset Depths are relative to Offset Datum

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

Central Meridian is -107.8333333

Grid Convergence at Surface is: 0.17°

Ladder Plot



LEGEND

#206H Original Drilling, APD Rev 1 V0
 #543H Original Drilling, APD Rev 1 V0
 Federal B-10 OH OH V0

#542H Original Drilling, APD Rev 1 V0
 Federal 1-A OH OH V0

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



Lonestar Consulting, LLC

Anticollision Report

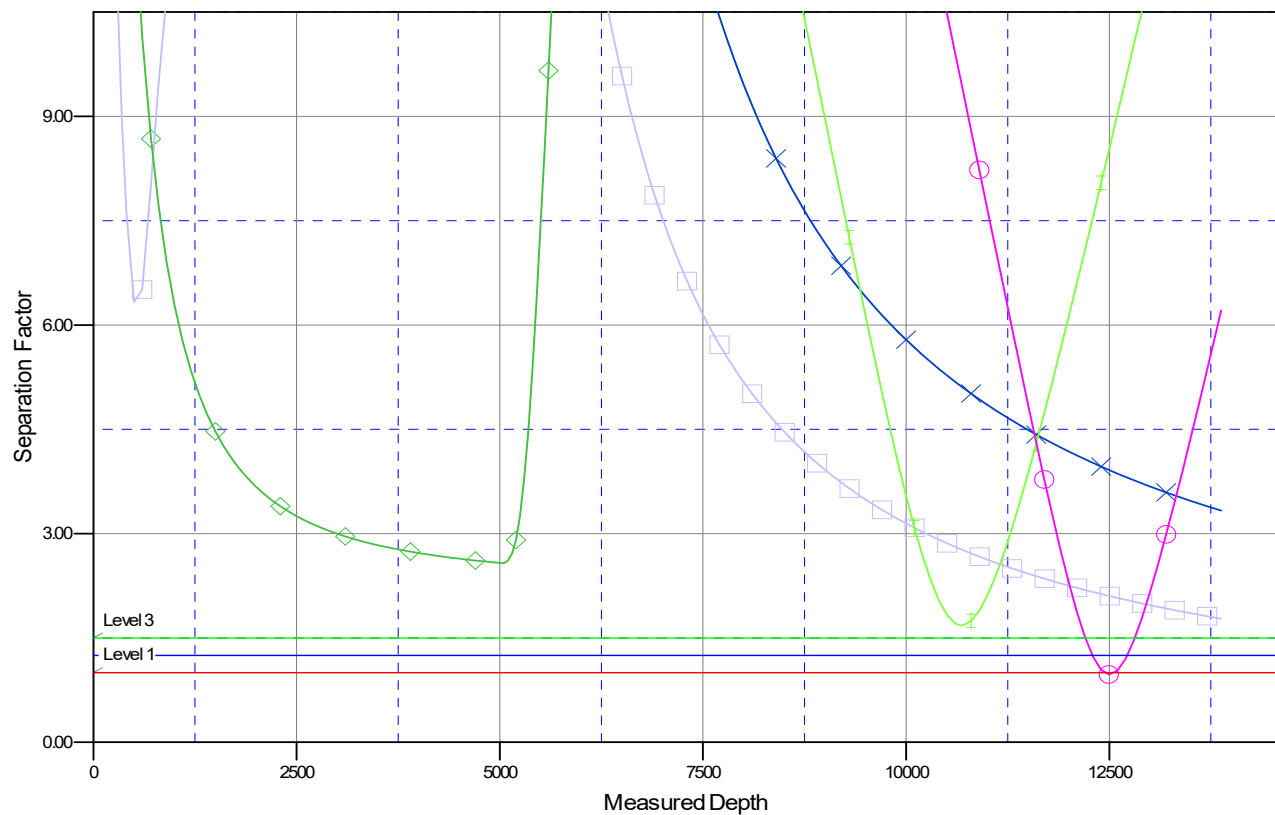


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 544H - Slot 4
Project:	North Alamo Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 544H	Survey Calculation Method:	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 7307' & RKB 14' @ 7321ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: # 544H - Slot 4
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.17°

Separation Factor Plot



LEGEND

206H Original Drilling APD Rev 1 V0 # 543H Original Drilling APD Rev 1 V0 Federal B-10 OH OH V0
 # 542H Original Drilling APD Rev 1 V0 Federal 1-A 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
#544H NORTH ALAMITO UNIT
Lease: NMNM 028748 Agreement: NMNM 135229A
SH: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 26, T. 23N., R. 7W.
Sandoval County, New Mexico
BH: NW $\frac{1}{4}$ 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/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 504763

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 504763
	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 504763

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 504763
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
scrues76	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/10/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/10/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/18/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/18/2025
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.	9/18/2025
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.	9/18/2025