

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-043-21539
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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)



Additional Operator Remarks

Location of Well

0. SHL: NENE / 1162 FNL / 890 FEL / TWSP: 23N / RANGE: 7W / SECTION: 26 / LAT: 36.201117 / LONG: -107.538823 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 874 FNL / 377 FEL / TWSP: 23N / RANGE: 7W / SECTION: 26 / LAT: 36.201883 / LONG: -107.5371 (TVD: 5709 feet, MD: 6020 feet)

PPP: NWNW / 1253 FNL / 1 FWL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.200824 / LONG: -107.535801 (TVD: 5711 feet, MD: 11735 feet)

BHL: SWSE / 330 FSL / 1673 FEL / TWSP: 23N / RANGE: 7W / SECTION: 25 / LAT: 36.190852 / LONG: -107.523565 (TVD: 5711 feet, MD: 11735 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 30-043-21539	Pool Code 98174	Pool Name ALAMITO N; MANCOS (OIL)
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 542H
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		1162' NORTH	890' EAST	36.201117° N	107.538823° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
O	25	23N	7W		330' SOUTH	1673' EAST	36.190852° N	107.523565° W	SANDOVAL

Dedicated Acres SEC 26: NE/NE & SE/NE (80 AC.); SEC 25: NW/NW, SW/NW, SE/NW, NW/SW, NE/SW, SE/SW, NW/SE & SW/SE (320 AC.) = 400 ACRES	PENETRATED SPACING UNIT: INFILL	Infill or Defining Well INFILL	Defining Well API N	Overlapping Spacing Unit (Y/N) N	Consolidation Code UNITIZATION
Order Numbers: R-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		874' NORTH	377' EAST	36.201883° N	107.537100° 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		874' NORTH	377' EAST	36.201883° N	107.537100° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
O	25	23N	7W		330' SOUTH	1673' EAST	36.190852° N	107.523565° 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

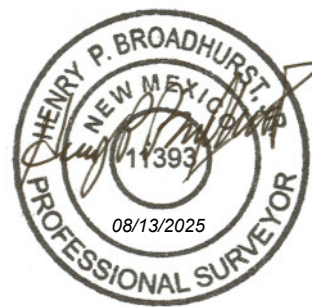
8/13/2025
Date

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

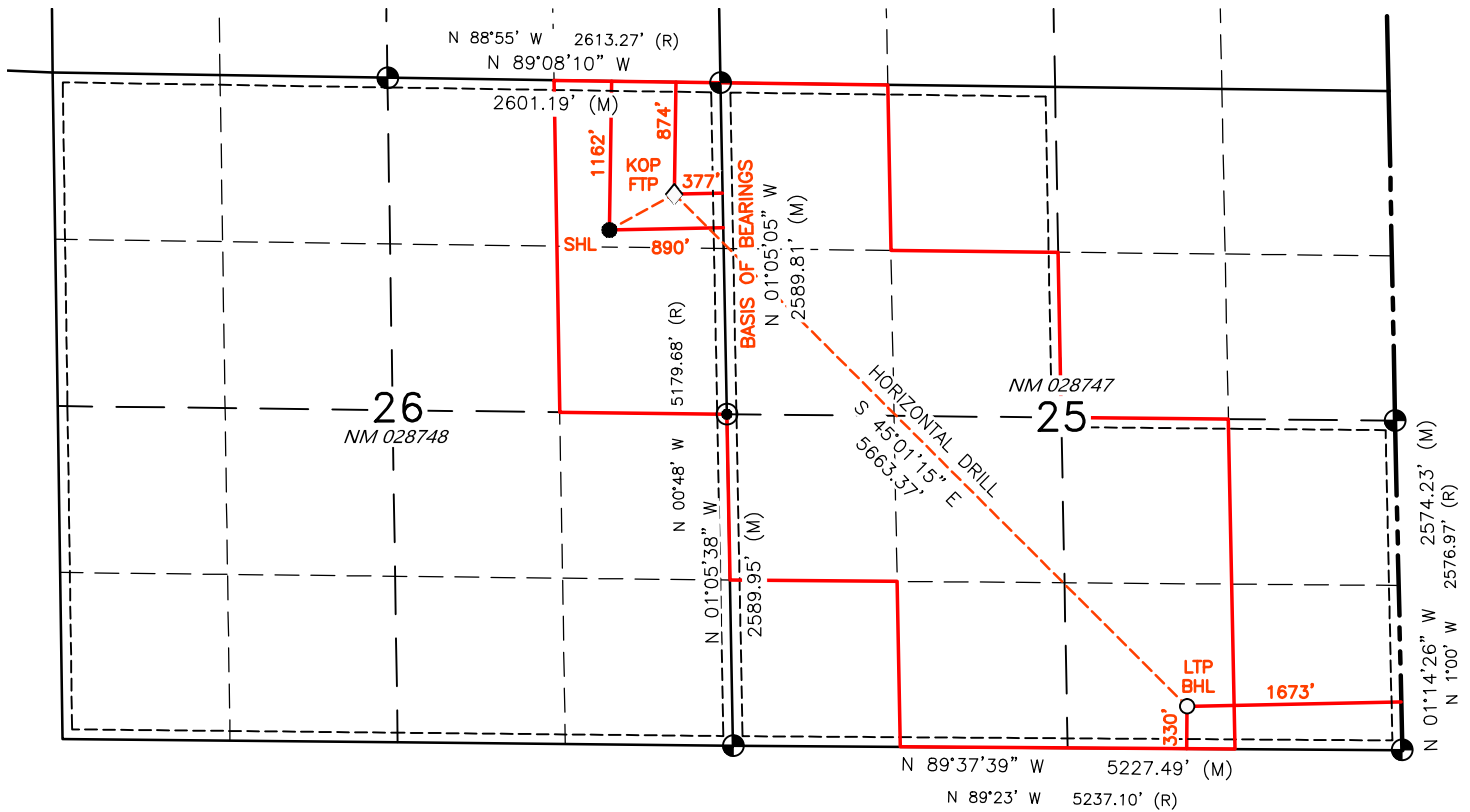
11393

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



SURFACE LOCATION (SHL) ●
 1162' FNL 890' FEL
 SEC. 26, T23N, R7W
 LAT. 36.201117° N (NAD83)
 LONG. 107.538823° W (NAD83)

KICK OFF POINT (KOP) ▲
 874' FNL 377' FEL
 SEC. 26, T23N, R7W
 LAT. 36.201883° N (NAD83)
 LONG. 107.537100° W (NAD83)

FIRST TAKE POINT (FTP) ◇
 874' FNL 377' FEL
 SEC. 26, T23N, R7W
 LAT. 36.201883° N (NAD83)
 LONG. 107.537100° W (NAD83)

LAST TAKE POINT (LTP) □
 330' FSL 1673' FEL
 SEC. 25, T23N, R7W
 LAT. 36.190852° N (NAD83)
 LONG. 107.523565° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
 330' FSL 1673' FEL
 SEC. 25, T23N, R7W
 LAT. 36.190852° N (NAD83)
 LONG. 107.523565° 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 #542H

Sandoval County, New Mexico

Surface Location

890-ft FEL & 1162-ft FNL
 Sec 26 T23N R7W
 Graded Elevation 7307' MSL
 RKB Elevation 7321' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2011170° N
 Longitude 107.5388230° W

Kick Off Point for Horizontal Build Curve

5165-ft MD
 5123-ft TVD

Local Coordinates (from SHL)

621-ft North
 77-ft East

Heel Location (Pay zone entry)

377-ft FEL & 874-ft FNL
 Sec 26 T23N R7W

Heel Geographical Coordinates (NAD-83)

Latitude 36.201882973° N
 Longitude 107.53710019° W

Bottom Hole Location (TD)

1673-ft FEL & 330-ft FSL
 Sec 25 T23N R7W

BHL Geographical Coordinates (NAD-83)

Latitude 36.190852° N
 Longitude 107.5235650° W

Well objectives

This well is planned as a 5660-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 147°F. Bottom hole pressure in the Gallup C is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1507	1499	Sd	W	8.3	8.4 – 8.8
Kirtland	1684	1674	Sh	-	8.3	8.4 – 8.8
Fruitland	1890	1878	C	G	8.3	9.0 - 9.5
Pictured Cliffs	2132	2118	Sd	W	8.3	9.0 - 9.5
Lewis	2246	2231	Sh	-		9.0 - 9.5
Chacra	2980	2958	Sd	-	8.3	9.0 - 9.5
Menefee	3668	3640	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4482	4446	Sd	-	8.3	9.0 - 9.5
Mancos	4628	4591	Sh	-		9.0 - 9.5
Mancos Silt	5001	4960	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5509	5450	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5552	5486	Sd	O/G	6.6	8.8 - 9.0
Gallup C	5698	5591	Sd	O/G	6.6	8.8 - 9.0
Target	6071	5711	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	6020	surf	5709	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5780	11735	5637	5676	5780

Note: all casing will be new

Rev 0



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	American	American
Type	I/II	Poz/G
Planned top	Surface	4628-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	514	145
Volume (bbls)	214	39
Volume (cu.ft.)	1203	218
Excess %	78	0



Rev 0

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5780-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	515
Volume (cu.ft)	139
Excess %	782
	40

Wellhead & Pressure Control

The well head will be an 11" 5M multi-bowl system. A 3M BOPE conforming to Onshore Order #2 will be installed on the surface casing. The BOP and accumulator will meet API 16D and 16E respectively.

A PVT mud monitoring system and a trip tank will be rigged up and operational for all hole intervals. An electronic geolograph will be employed to monitor and record drilling data (ROP, WOB, SPM, Pressure, RPM and torque).

Mud Program

Surface hole will be drilled with a fresh water, native mud system. In intermediate hole, a low weight 7% KCl LSND drilling fluid will be used, with KCl providing chemical stability for the young shales and clays present in the interval. In production hole a LSND system with polymer and lubricant additives is programmed. Sufficient drill water and mud additives will be on hand to maintain adequate pit volumes and maintain well control.

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 6020	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	6020 – 11735	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

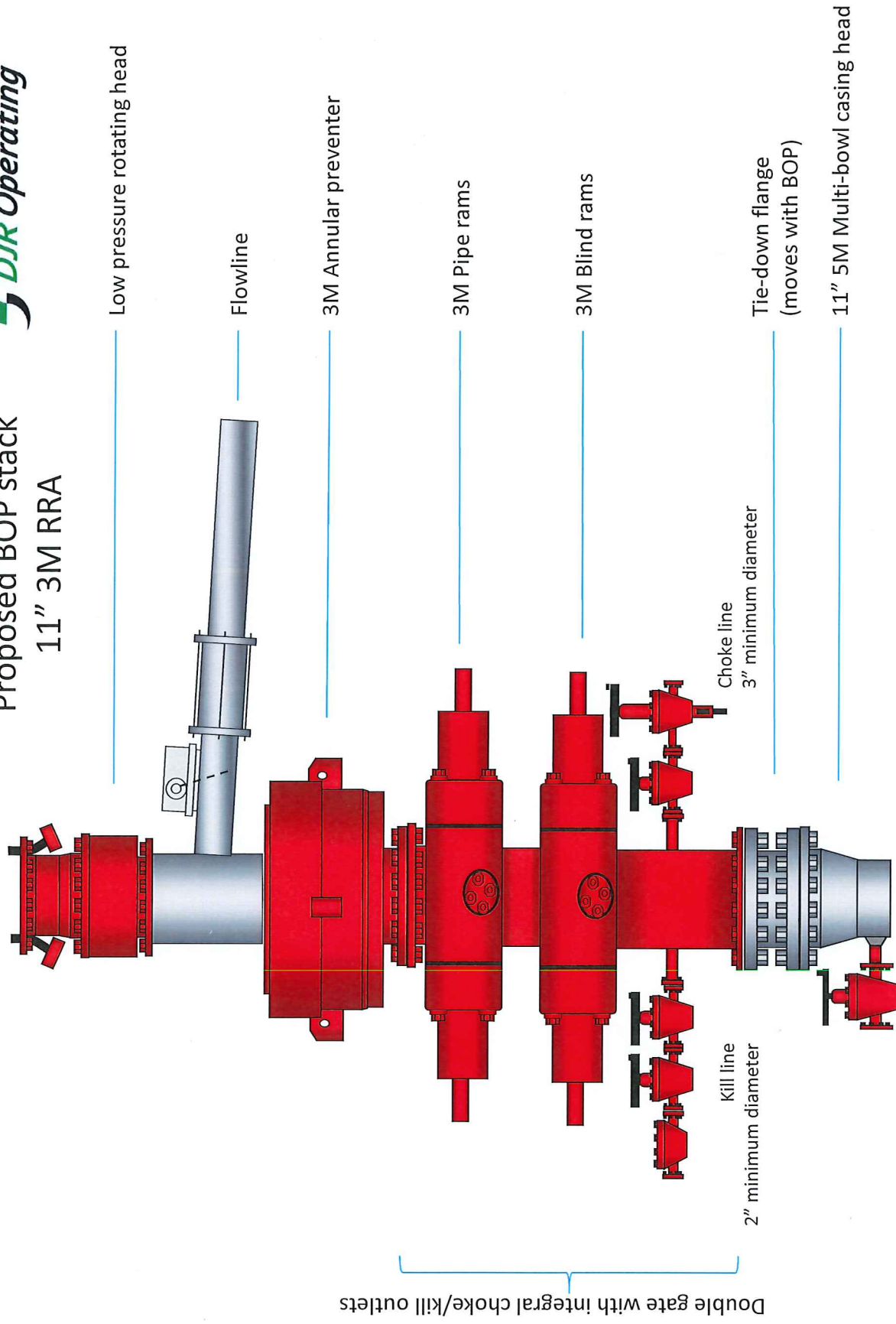
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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



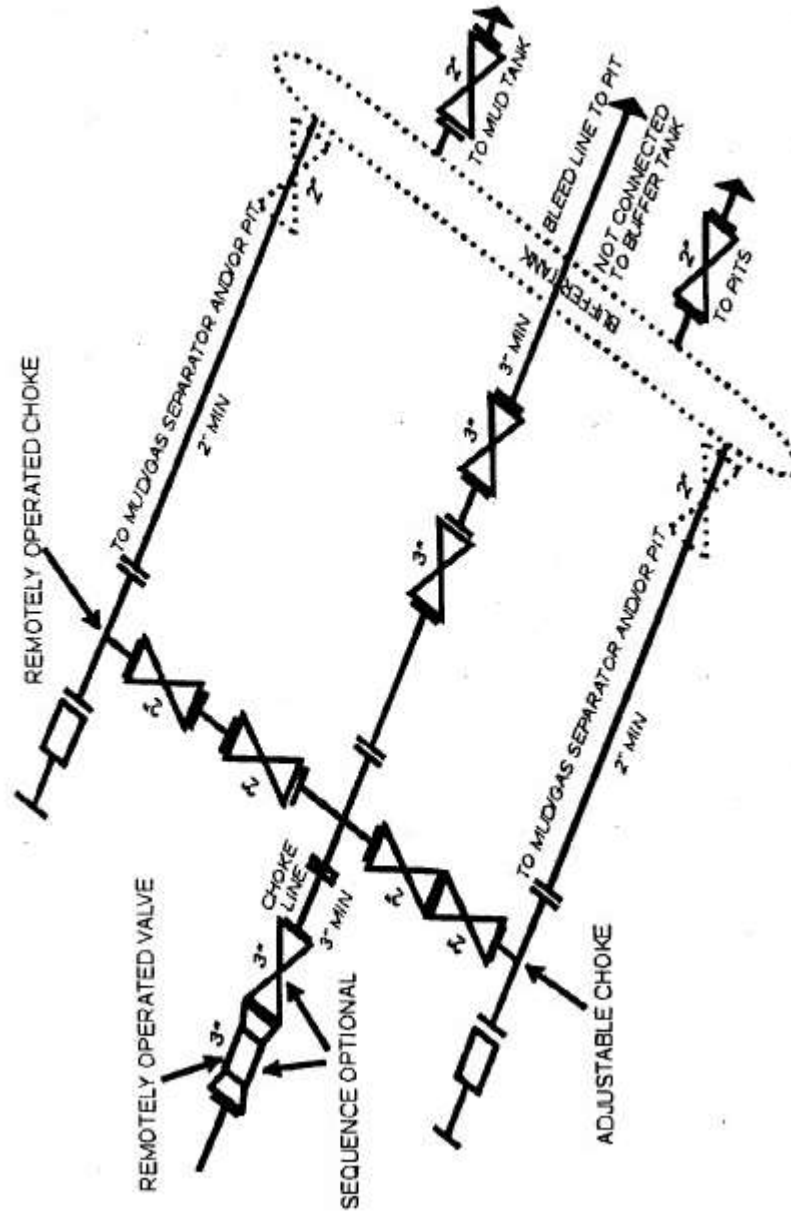
Proposed BOP stack 11" 3M RRA





Choke Manifold

Actual system to conform with Onshore Order 2





Company: DJR Operating
Project: North Alamito Unit
Site: A26 2307 Pad
Well: # 542H
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: # 542H

GL 7307' & RKB 14' @ 7321ft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0	0	1892636.32	2809982.50	36.20111800	-107.53882300	2

Plan: APD Rev 1 (# 542H/Original Drilling)

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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
542H Heel	5711	278	508	1892916.33	2810489.94	36.20188297	-107.53710019
542H Toe	5676	-3737	4502	1888913.29	2814496.09	36.19085200	-107.52356500

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
739	7.79	7.09	738	26	3	2.00	7.09	-14
5165	7.79	7.09	5123	621	77	0.00	0.00	-337
6071	90.36	135.15	5711	278	508	10.50	127.77	213
11735	90.36	135.15	5676	-3737	4502	0.00	0.00	5851



Azimuths to True North
Magnetic North: 10.7°

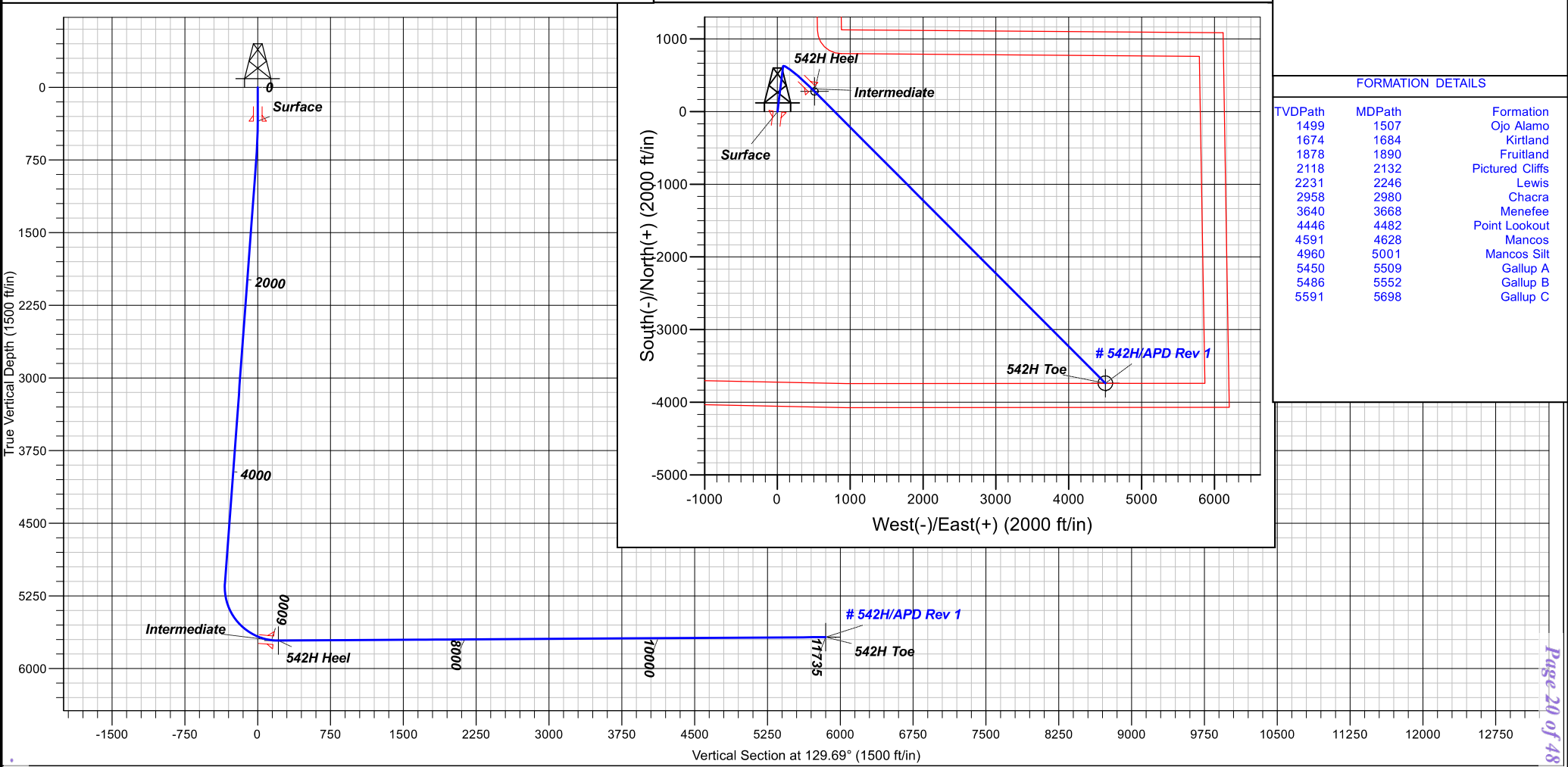
Magnetic Field
Strength: 51236.81
Dip Angle: 63.3°
Date: 12/31/2024
Model: IGRF2020

CASING DETAILS

TVD	MD	Name
350	350	Surface
5709	6020	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1499	1507	Ojo Alamo
1674	1684	Kirtland
1878	1890	Fruitland
2118	2132	Pictured Cliffs
2231	2246	Lewis
2958	2980	Chacra
3640	3668	Menefee
4446	4482	Point Lookout
4591	4628	Mancos
4960	5001	Mancos Silt
5450	5509	Gallup A
5486	5552	Gallup B
5591	5698	Gallup C





DJR Operating

North Alamito Unit

A26 2307 Pad

542H - Slot 2

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 # 542H - Slot 2
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:	# 542H	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	# 542H - Slot 2					
Well Position	+N/-S	0 ft	Northing:	1,892,636.32 usft	Latitude:	36.20111800
	+E/-W	0 ft	Easting:	2,809,982.50 usft	Longitude:	-107.53882300
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	10.76	63.25	51,236.83979319

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	129.69

Plan Survey Tool Program	Date	8/23/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	11,735	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	
739	7.79	7.09	738	26	3	2.00	2.00	0.00	7.09	
5165	7.79	7.09	5123	621	77	0.00	0.00	0.00	0.00	
6071	90.36	135.15	5711	278	508	10.50	9.11	14.13	127.77	542H Heel
11,735	90.36	135.15	5676	-3737	4502	0.00	0.00	0.00	0.00	542H Toe



Lonestar Consulting, LLC
Planning Report



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Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 542H	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	7.09	400	0	0	0	2.00	2.00	0.00
500	3.00	7.09	500	4	0	-2	2.00	2.00	0.00
600	5.00	7.09	600	11	1	-6	2.00	2.00	0.00
700	7.00	7.09	699	21	3	-12	2.00	2.00	0.00
739	7.79	7.09	738	26	3	-14	2.00	2.00	0.00
800	7.79	7.09	798	34	4	-19	0.00	0.00	0.00
900	7.79	7.09	897	48	6	-26	0.00	0.00	0.00
1000	7.79	7.09	996	61	8	-33	0.00	0.00	0.00
1100	7.79	7.09	1095	75	9	-41	0.00	0.00	0.00
1200	7.79	7.09	1195	88	11	-48	0.00	0.00	0.00
1300	7.79	7.09	1294	102	13	-55	0.00	0.00	0.00
1400	7.79	7.09	1393	115	14	-62	0.00	0.00	0.00
1500	7.79	7.09	1492	129	16	-70	0.00	0.00	0.00
1600	7.79	7.09	1591	142	18	-77	0.00	0.00	0.00
1700	7.79	7.09	1690	155	19	-84	0.00	0.00	0.00
1800	7.79	7.09	1789	169	21	-92	0.00	0.00	0.00
1900	7.79	7.09	1888	182	23	-99	0.00	0.00	0.00
2000	7.79	7.09	1987	196	24	-106	0.00	0.00	0.00
2100	7.79	7.09	2086	209	26	-114	0.00	0.00	0.00
2200	7.79	7.09	2185	223	28	-121	0.00	0.00	0.00
2300	7.79	7.09	2284	236	29	-128	0.00	0.00	0.00
2400	7.79	7.09	2383	250	31	-136	0.00	0.00	0.00
2500	7.79	7.09	2483	263	33	-143	0.00	0.00	0.00
2600	7.79	7.09	2582	276	34	-150	0.00	0.00	0.00
2700	7.79	7.09	2681	290	36	-157	0.00	0.00	0.00
2800	7.79	7.09	2780	303	38	-165	0.00	0.00	0.00
2900	7.79	7.09	2879	317	39	-172	0.00	0.00	0.00
3000	7.79	7.09	2978	330	41	-179	0.00	0.00	0.00
3100	7.79	7.09	3077	344	43	-187	0.00	0.00	0.00
3200	7.79	7.09	3176	357	44	-194	0.00	0.00	0.00
3300	7.79	7.09	3275	371	46	-201	0.00	0.00	0.00
3400	7.79	7.09	3374	384	48	-209	0.00	0.00	0.00
3500	7.79	7.09	3473	397	49	-216	0.00	0.00	0.00
3600	7.79	7.09	3572	411	51	-223	0.00	0.00	0.00
3700	7.79	7.09	3671	424	53	-230	0.00	0.00	0.00
3800	7.79	7.09	3771	438	54	-238	0.00	0.00	0.00
3900	7.79	7.09	3870	451	56	-245	0.00	0.00	0.00
4000	7.79	7.09	3969	465	58	-252	0.00	0.00	0.00
4100	7.79	7.09	4068	478	59	-260	0.00	0.00	0.00
4200	7.79	7.09	4167	492	61	-267	0.00	0.00	0.00
4300	7.79	7.09	4266	505	63	-274	0.00	0.00	0.00
4400	7.79	7.09	4365	519	64	-282	0.00	0.00	0.00
4500	7.79	7.09	4464	532	66	-289	0.00	0.00	0.00
4600	7.79	7.09	4563	545	68	-296	0.00	0.00	0.00
4700	7.79	7.09	4662	559	69	-303	0.00	0.00	0.00
4800	7.79	7.09	4761	572	71	-311	0.00	0.00	0.00
4900	7.79	7.09	4860	586	73	-318	0.00	0.00	0.00
5000	7.79	7.09	4959	599	75	-325	0.00	0.00	0.00
5100	7.79	7.09	5059	613	76	-333	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



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Project:	North Alamito Unit	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site:	A26 2307 Pad	North Reference:	True
Well:	# 542H	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)
5165	7.79	7.09	5123	621	77	-337	0.00	0.00	0.00
5200	6.25	34.63	5158	625	79	-339	10.50	-4.41	79.16
5300	11.19	102.10	5257	628	91	-331	10.50	4.93	67.47
5400	20.76	118.60	5353	617	116	-305	10.50	9.57	16.49
5500	30.92	124.75	5443	594	153	-262	10.50	10.16	6.15
5600	41.24	128.05	5523	559	200	-203	10.50	10.32	3.30
5700	51.63	130.22	5592	513	256	-130	10.50	10.38	2.16
5800	62.04	131.83	5647	458	319	-47	10.50	10.41	1.62
5900	72.47	133.16	5686	396	387	45	10.50	10.43	1.33
6000	82.91	134.35	5707	329	458	142	10.50	10.44	1.18
6071	90.36	135.15	5711	278	508	213	10.50	10.44	1.13
6100	90.36	135.15	5711	258	528	242	0.00	0.00	0.00
6200	90.36	135.15	5710	187	599	341	0.00	0.00	0.00
6300	90.36	135.15	5710	116	670	441	0.00	0.00	0.00
6400	90.36	135.15	5709	45	740	540	0.00	0.00	0.00
6500	90.36	135.15	5708	-25	811	640	0.00	0.00	0.00
6600	90.36	135.15	5708	-96	881	740	0.00	0.00	0.00
6700	90.36	135.15	5707	-167	952	839	0.00	0.00	0.00
6800	90.36	135.15	5706	-238	1022	939	0.00	0.00	0.00
6900	90.36	135.15	5706	-309	1093	1038	0.00	0.00	0.00
7000	90.36	135.15	5705	-380	1163	1138	0.00	0.00	0.00
7100	90.36	135.15	5705	-451	1234	1237	0.00	0.00	0.00
7200	90.36	135.15	5704	-522	1304	1337	0.00	0.00	0.00
7300	90.36	135.15	5703	-593	1375	1436	0.00	0.00	0.00
7400	90.36	135.15	5703	-663	1445	1536	0.00	0.00	0.00
7500	90.36	135.15	5702	-734	1516	1635	0.00	0.00	0.00
7600	90.36	135.15	5701	-805	1586	1735	0.00	0.00	0.00
7700	90.36	135.15	5701	-876	1657	1834	0.00	0.00	0.00
7800	90.36	135.15	5700	-947	1727	1934	0.00	0.00	0.00
7900	90.36	135.15	5700	-1018	1798	2034	0.00	0.00	0.00
8000	90.36	135.15	5699	-1089	1868	2133	0.00	0.00	0.00
8100	90.36	135.15	5698	-1160	1939	2233	0.00	0.00	0.00
8200	90.36	135.15	5698	-1231	2009	2332	0.00	0.00	0.00
8300	90.36	135.15	5697	-1302	2080	2432	0.00	0.00	0.00
8400	90.36	135.15	5697	-1372	2150	2531	0.00	0.00	0.00
8500	90.36	135.15	5696	-1443	2221	2631	0.00	0.00	0.00
8600	90.36	135.15	5695	-1514	2292	2730	0.00	0.00	0.00
8700	90.36	135.15	5695	-1585	2362	2830	0.00	0.00	0.00
8800	90.36	135.15	5694	-1656	2433	2929	0.00	0.00	0.00
8900	90.36	135.15	5693	-1727	2503	3029	0.00	0.00	0.00
9000	90.36	135.15	5693	-1798	2574	3129	0.00	0.00	0.00
9100	90.36	135.15	5692	-1869	2644	3228	0.00	0.00	0.00
9200	90.36	135.15	5692	-1940	2715	3328	0.00	0.00	0.00
9300	90.36	135.15	5691	-2011	2785	3427	0.00	0.00	0.00
9400	90.36	135.15	5690	-2081	2856	3527	0.00	0.00	0.00
9500	90.36	135.15	5690	-2152	2926	3626	0.00	0.00	0.00
9600	90.36	135.15	5689	-2223	2997	3726	0.00	0.00	0.00
9700	90.36	135.15	5688	-2294	3067	3825	0.00	0.00	0.00
9800	90.36	135.15	5688	-2365	3138	3925	0.00	0.00	0.00
9900	90.36	135.15	5687	-2436	3208	4024	0.00	0.00	0.00
10,000	90.36	135.15	5687	-2507	3279	4124	0.00	0.00	0.00
10,100	90.36	135.15	5686	-2578	3349	4224	0.00	0.00	0.00
10,200	90.36	135.15	5685	-2649	3420	4323	0.00	0.00	0.00
10,300	90.36	135.15	5685	-2719	3490	4423	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,400	90.36	135.15	5684	-2790	3561	4522	0.00	0.00	0.00	
10,500	90.36	135.15	5683	-2861	3631	4622	0.00	0.00	0.00	
10,600	90.36	135.15	5683	-2932	3702	4721	0.00	0.00	0.00	
10,700	90.36	135.15	5682	-3003	3772	4821	0.00	0.00	0.00	
10,800	90.36	135.15	5682	-3074	3843	4920	0.00	0.00	0.00	
10,900	90.36	135.15	5681	-3145	3914	5020	0.00	0.00	0.00	
11,000	90.36	135.15	5680	-3216	3984	5119	0.00	0.00	0.00	
11,100	90.36	135.15	5680	-3287	4055	5219	0.00	0.00	0.00	
11,200	90.36	135.15	5679	-3358	4125	5319	0.00	0.00	0.00	
11,300	90.36	135.15	5679	-3428	4196	5418	0.00	0.00	0.00	
11,400	90.36	135.15	5678	-3499	4266	5518	0.00	0.00	0.00	
11,500	90.36	135.15	5677	-3570	4337	5617	0.00	0.00	0.00	
11,600	90.36	135.15	5677	-3641	4407	5717	0.00	0.00	0.00	
11,700	90.36	135.15	5676	-3712	4478	5816	0.00	0.00	0.00	
11,735	90.36	135.15	5676	-3737	4502	5851	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										
542H Toe	0.00	0.00	5676	-3737	4502	1,888,913.30	2,814,496.09	36.19085200	-107.52356500	
- plan hits target center										
- Circle (radius 100)										
542H Heel	0.00	0.00	5711	278	508	1,892,916.33	2,810,489.94	36.20188297	-107.53710019	
- plan hits target center										
- Circle (radius 50)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
350	350	Surface		9.63	12.25
6020	5709	Intermediate		7.00	8.75



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD Rev 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1507	1499	Ojo Alamo		0.00	0.00	
1684	1674	Kirtland		0.00	0.00	
1890	1878	Fruitland		0.00	0.00	
2132	2118	Pictured Cliffs		0.00	0.00	
2246	2231	Lewis		0.00	0.00	
2980	2958	Chacra		0.00	0.00	
3668	3640	Menefee		0.00	0.00	
4482	4446	Point Lookout		0.00	0.00	
4628	4591	Mancos		0.00	0.00	
5001	4960	Mancos Silt		0.00	0.00	
5509	5450	Gallup A		0.00	0.00	
5552	5486	Gallup B		0.00	0.00	
5698	5591	Gallup C		0.00	0.00	



DJR Operating

North Alamito Unit

A26 2307 Pad

542H

Original Drilling

APD Rev 1

Anticollision Report

23 August, 2023





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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)	Tool Name	Description
0	11,735	APD Rev 1 (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM

Summary					
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design					
A26 2307 Pad					
# 206H - Original Drilling - APD Rev 1	350	350	20	18	8.806 CC
# 206H - Original Drilling - APD Rev 1	400	400	20	17	7.658 ES
# 206H - Original Drilling - APD Rev 1	500	499	22	18	6.567 SF
# 543H - Original Drilling - APD Rev 1	430	430	20	17	7.080 CC, ES
# 543H - Original Drilling - APD Rev 1	500	500	21	17	6.200 SF
# 544H - Original Drilling - APD Rev 1	350	350	40	38	17.786 CC
# 544H - Original Drilling - APD Rev 1	600	598	41	37	10.171 ES
# 544H - Original Drilling - APD Rev 1	5000	4997	106	65	2.580 SF
Ballymaloe 2 - OH - OH	9742	5588	149	-122	0.550 Level 3, CC, ES, SF

Offset Design: A26 2307 Pad - # 206H - Original Drilling - APD Rev 1													Offset Site Error: 0 ft		
Survey Program: 0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside					Between	Between	Minimum	Separation	Warning
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)			Centres (ft)	Ellipses (ft)	Separation (ft)	Factor	
0	0	0	0	0	0	-57.88	11	-17			20				
100	100	100	100	0	0	-57.88	11	-17			20	19	0.46	42.938	
200	200	200	200	1	1	-57.88	11	-17			20	19	1.18	16.836	
300	300	300	300	1	1	-57.88	11	-17			20	18	1.90	10.471	
350	350	350	350	1	1	-57.88	11	-17			20	18	2.25	8.806 CC	
400	400	400	400	1	1	-67.05	10	-17			20	17	2.61	7.658 ES	
500	500	499	499	2	2	-82.36	9	-21			22	18	3.31	6.567 SF	
600	600	598	598	2	2	-103.47	8	-26			28	24	4.02	6.858	
700	699	697	697	2	2	-120.78	6	-31			37	33	4.74	7.905	
739	738	736	736	3	2	-126.22	5	-34			43	38	5.03	8.464	
800	798	796	795	3	3	-132.81	4	-37			51	46	5.47	9.369	
900	897	895	894	3	3	-139.80	2	-42			67	60	6.20	10.737	
1000	996	993	992	4	3	-144.15	1	-48			82	76	6.92	11.905	
1100	1095	1092	1091	4	4	-147.09	-1	-53			99	91	7.65	12.890	
1200	1195	1190	1189	5	4	-149.19	-3	-59			115	107	8.38	13.724	
1300	1294	1289	1287	5	4	-150.77	-5	-64			132	122	9.11	14.436	
1400	1393	1387	1386	5	5	-152.00	-7	-70			148	138	9.84	15.048	
1500	1492	1486	1484	6	5	-152.98	-8	-75			165	154	10.57	15.580	

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 # 542H - Slot 2
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:	# 542H	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)			
1600	1591	1585	1583	6	6	-153.78	-10	-81	181	170	11.30	16.046		
1700	1690	1683	1681	7	6	-154.44	-12	-86	198	186	12.04	16.456		
1800	1789	1782	1779	7	6	-155.00	-14	-92	215	202	12.77	16.821		
1900	1888	1880	1878	8	7	-155.48	-15	-97	232	218	13.50	17.147		
2000	1987	1979	1976	8	7	-155.90	-17	-103	248	234	14.24	17.440		
2100	2086	2077	2075	8	7	-156.26	-19	-108	265	250	14.97	17.704		
2200	2185	2176	2173	9	8	-156.58	-21	-114	282	266	15.70	17.945		
2300	2284	2275	2271	9	8	-156.87	-22	-119	299	282	16.44	18.164		
2400	2383	2373	2370	10	9	-157.12	-24	-125	315	298	17.17	18.364		
2500	2483	2472	2468	10	9	-157.35	-26	-130	332	314	17.90	18.548		
2600	2582	2570	2567	11	9	-157.56	-28	-136	349	330	18.64	18.718		
2700	2681	2669	2665	11	10	-157.74	-30	-141	366	346	19.37	18.875		
2800	2780	2767	2763	11	10	-157.92	-31	-147	382	362	20.11	19.021		
2900	2879	2866	2862	12	10	-158.07	-33	-152	399	378	20.84	19.156		
3000	2978	2965	2960	12	11	-158.22	-35	-158	416	395	21.58	19.282		
3100	3077	3063	3059	13	11	-158.35	-37	-163	433	411	22.31	19.400		
3200	3176	3162	3157	13	11	-158.47	-38	-169	450	427	23.05	19.510		
3300	3275	3260	3256	14	12	-158.59	-40	-174	467	443	23.78	19.614		
3400	3374	3359	3354	14	12	-158.69	-42	-180	483	459	24.52	19.711		
3500	3473	3457	3452	14	13	-158.79	-44	-185	500	475	25.25	19.803		
3600	3572	3556	3551	15	13	-158.88	-45	-191	517	491	25.99	19.890		
3700	3671	3655	3649	15	13	-158.97	-47	-196	534	507	26.73	19.971		
3800	3771	3753	3748	16	14	-159.05	-49	-202	551	523	27.46	20.049		
3900	3870	3852	3846	16	14	-159.13	-51	-207	567	539	28.20	20.122		
4000	3969	3950	3944	17	14	-159.20	-53	-213	584	555	28.93	20.192		
4100	4068	4049	4043	17	15	-159.27	-54	-218	601	571	29.67	20.258		
4200	4167	4147	4141	17	15	-159.33	-56	-224	618	587	30.40	20.321		
4300	4266	4246	4240	18	16	-159.39	-58	-229	635	604	31.14	20.381		
4400	4365	4345	4338	18	16	-159.45	-60	-235	651	620	31.88	20.438		
4500	4464	4443	4436	19	16	-159.51	-61	-240	668	636	32.61	20.492		
4600	4563	4542	4535	19	17	-159.56	-63	-246	685	652	33.35	20.544		
4700	4662	4640	4633	20	17	-159.61	-65	-251	702	668	34.08	20.594		
4800	4761	4739	4732	20	17	-159.66	-67	-257	719	684	34.82	20.642		
4900	4860	4837	4830	21	18	-159.70	-68	-262	736	700	35.56	20.688		
5000	4959	4936	4928	21	18	-159.74	-70	-267	752	716	36.29	20.732		
5100	5059	5035	5027	21	19	-159.79	-72	-273	769	732	37.03	20.774		
5165	5123	5099	5091	22	19	-159.81	-73	-277	780	743	37.51	20.801		
5200	5158	5133	5125	22	19	172.35	-74	-278	786	748	37.76	20.807		
5250	5207	5184	5176	22	19	127.96	-75	-281	792	754	38.12	20.789		
5300	5257	5256	5248	22	19	105.99	-72	-289	797	758	38.63	20.634		
5350	5305	5321	5310	22	20	97.43	-65	-302	799	760	39.08	20.452		
5400	5353	5374	5361	22	20	94.12	-56	-317	800	761	39.48	20.274		
5450	5399	5416	5399	22	20	92.89	-46	-331	801	762	39.81	20.129		
5500	5443	5448	5427	22	20	92.37	-37	-343	803	763	40.07	20.046		
5550	5484	5470	5446	23	20	91.93	-30	-353	806	766	40.24	20.042		
5600	5523	5485	5459	23	20	91.28	-25	-359	812	771	40.31	20.133		
5650	5559	5494	5466	23	20	90.29	-22	-364	819	779	40.31	20.319		
5700	5592	5500	5471	22	20	89.01	-20	-366	829	788	40.25	20.588		
5750	5621	5500	5471	22	20	87.25	-20	-366	840	800	40.13	20.943		
5800	5647	5500	5471	22	20	85.38	-20	-366	854	814	40.03	21.341		
5850	5668	5491	5463	22	20	82.78	-23	-362	870	830	39.85	21.829		
5900	5686	5483	5457	22	20	80.23	-26	-359	887	847	39.73	22.323		

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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	
5950	5698	5474	5449	22	20	77.52	-29	-355	905	865	39.64	22.829	
6000	5707	5463	5440	23	20	74.74	-32	-350	924	884	39.59	23.335	
6050	5711	5450	5429	23	20	71.87	-36	-344	943	904	39.57	23.839	
6071	5711	5450	5429	23	20	71.00	-36	-344	952	912	39.66	23.997	
6100	5711	5450	5429	23	20	71.00	-36	-344	963	924	39.79	24.212	
6200	5710	5416	5399	25	20	69.10	-46	-331	1008	969	39.84	25.311	
6300	5710	5400	5384	26	20	68.21	-50	-326	1060	1020	40.18	26.385	
6400	5709	5379	5365	27	20	67.06	-54	-319	1118	1077	40.47	27.620	
6500	5708	5350	5338	29	20	65.40	-60	-310	1181	1140	40.65	29.044	
6600	5708	5350	5338	30	20	65.40	-60	-310	1248	1206	41.15	30.322	
6700	5707	5350	5338	32	20	65.40	-60	-310	1319	1277	41.59	31.713	
6800	5706	5330	5319	34	20	64.29	-64	-305	1393	1351	41.80	33.330	
6900	5706	5321	5311	36	20	63.78	-65	-302	1470	1428	42.07	34.944	
7000	5705	5300	5290	38	20	62.61	-68	-297	1550	1508	42.22	36.712	
7100	5705	5300	5290	40	20	62.61	-68	-297	1632	1589	42.51	38.381	
7200	5704	5300	5290	42	20	62.61	-68	-297	1715	1673	42.77	40.106	
7300	5703	5300	5290	44	20	62.61	-68	-297	1801	1758	42.99	41.880	
7400	5703	5300	5290	46	20	62.61	-68	-297	1887	1844	43.19	43.695	
7500	5702	5300	5290	49	20	62.61	-68	-297	1975	1932	43.37	45.546	
7600	5701	5277	5268	51	19	61.35	-71	-293	2064	2020	43.39	47.556	
7700	5701	5273	5264	53	19	61.11	-71	-292	2153	2110	43.52	49.484	
7800	5700	5250	5241	55	19	59.88	-73	-288	2244	2201	43.53	51.560	
7900	5700	5250	5241	58	19	59.88	-73	-288	2336	2292	43.66	53.500	
8000	5699	5250	5241	60	19	59.88	-73	-288	2427	2384	43.77	55.458	
8100	5698	5250	5241	62	19	59.88	-73	-288	2520	2476	43.88	57.434	
8200	5698	5250	5241	65	19	59.88	-73	-288	2613	2569	43.97	59.424	
8300	5697	5250	5241	67	19	59.88	-73	-288	2707	2663	44.06	61.426	
8400	5697	5250	5241	69	19	59.88	-73	-288	2801	2756	44.15	63.440	
8500	5696	5250	5241	72	19	59.88	-73	-288	2895	2851	44.22	65.463	
8600	5695	5250	5241	74	19	59.88	-73	-288	2990	2945	44.30	67.494	
8700	5695	5250	5241	76	19	59.88	-73	-288	3085	3040	44.37	69.533	
8800	5694	5250	5241	79	19	59.88	-73	-288	3180	3136	44.43	71.578	
8900	5693	5250	5241	81	19	59.88	-73	-288	3276	3231	44.49	73.627	
9000	5693	5250	5241	83	19	59.88	-73	-288	3372	3327	44.55	75.682	
9100	5692	5250	5241	86	19	59.88	-73	-288	3468	3423	44.61	77.739	
9200	5692	5250	5241	88	19	59.88	-73	-288	3564	3520	44.67	79.800	
9300	5691	5250	5241	91	19	59.88	-73	-288	3661	3616	44.72	81.863	
9400	5690	5250	5241	93	19	59.88	-73	-288	3758	3713	44.77	83.928	
9500	5690	5228	5219	95	19	58.68	-74	-285	3854	3809	44.75	86.133	
9600	5689	5226	5218	98	19	58.60	-74	-285	3951	3906	44.79	88.210	
9700	5688	5225	5216	100	19	58.53	-74	-285	4048	4003	44.84	90.286	
9800	5688	5223	5215	103	19	58.46	-74	-285	4145	4101	44.88	92.363	
9900	5687	5200	5192	105	19	57.24	-75	-282	4243	4198	44.85	94.607	
10,000	5687	5200	5192	108	19	57.24	-75	-282	4341	4296	44.90	96.673	
10,100	5686	5200	5192	110	19	57.24	-75	-282	4438	4393	44.95	98.739	
10,200	5685	5200	5192	112	19	57.24	-75	-282	4536	4491	45.00	100.803	
10,300	5685	5200	5192	115	19	57.24	-75	-282	4634	4589	45.05	102.866	
10,400	5684	5200	5192	117	19	57.24	-75	-282	4732	4687	45.09	104.927	
10,500	5683	5200	5192	120	19	57.24	-75	-282	4830	4784	45.14	106.986	
10,600	5683	5200	5192	122	19	57.24	-75	-282	4928	4882	45.19	109.043	
10,700	5682	5200	5192	125	19	57.24	-75	-282	5026	4980	45.24	111.097	
10,800	5682	5200	5192	127	19	57.24	-75	-282	5124	5079	45.28	113.149	

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 # 542H - Slot 2
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:	# 542H	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 Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,900	5681	5200	5192	129	19	57.24	-75	-282	5222	5177	45.33	115.198	
11,000	5680	5200	5192	132	19	57.24	-75	-282	5320	5275	45.38	117.244	
11,100	5680	5200	5192	134	19	57.24	-75	-282	5419	5373	45.43	119.286	
11,200	5679	5200	5192	137	19	57.24	-75	-282	5517	5472	45.48	121.325	
11,300	5679	5200	5192	139	19	57.24	-75	-282	5616	5570	45.52	123.360	
11,400	5678	5200	5192	142	19	57.24	-75	-282	5714	5669	45.57	125.391	
11,500	5677	5200	5192	144	19	57.24	-75	-282	5813	5767	45.62	127.418	
11,600	5677	5200	5192	147	19	57.24	-75	-282	5912	5866	45.67	129.442	
11,700	5676	5200	5192	149	19	57.24	-75	-282	6010	5965	45.72	131.461	
11,735	5676	5200	5192	150	19	57.23	-75	-282	6045	5999	45.74	132.162	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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			
0	0	0	0	0	0	123.00	-11	17	20						
100	100	100	100	0	0	123.00	-11	17	20	20	0.46	43.362			
200	200	200	200	1	1	123.00	-11	17	20	19	1.18	17.002			
300	300	300	300	1	1	123.00	-11	17	20	18	1.90	10.574			
350	350	350	350	1	1	123.00	-11	17	20	18	2.25	8.893			
400	400	400	400	1	1	118.05	-11	16	20	17	2.61	7.666			
430	430	430	430	1	1	121.40	-11	16	20	17	2.82	7.080 CC, ES			
500	500	500	500	2	2	134.93	-12	13	21	17	3.31	6.200 SF			
600	600	600	599	2	2	161.14	-15	7	26	22	4.03	6.454			
700	699	698	697	2	2	-179.00	-18	-3	40	35	4.77	8.362			
739	738	736	735	3	2	-173.80	-20	-8	48	42	5.06	9.385			
800	798	794	792	3	3	-167.82	-23	-15	61	55	5.50	11.057			
900	897	889	886	3	3	-160.96	-28	-31	85	79	6.21	13.743			
1000	996	983	977	4	4	-156.15	-35	-48	113	106	6.92	16.324			
1100	1095	1078	1071	4	4	-152.86	-42	-68	142	134	7.66	18.539			
1200	1195	1173	1164	5	4	-150.69	-49	-87	171	163	8.41	20.393			
1300	1294	1269	1257	5	5	-149.15	-56	-106	201	192	9.16	21.938			
1400	1393	1364	1350	5	5	-148.01	-63	-125	231	221	9.92	23.251			
1500	1492	1460	1443	6	6	-147.13	-70	-145	260	250	10.68	24.376			
1600	1591	1555	1537	6	6	-146.43	-78	-164	290	279	11.44	25.350			
1700	1690	1651	1630	7	7	-145.86	-85	-183	320	308	12.21	26.200			
1800	1789	1746	1723	7	7	-145.38	-92	-202	350	337	12.97	26.948			
1900	1888	1841	1816	8	8	-144.98	-99	-222	379	366	13.74	27.611			
2000	1987	1937	1909	8	9	-144.64	-106	-241	409	395	14.51	28.202			
2100	2086	2032	2003	8	9	-144.35	-113	-260	439	424	15.28	28.732			
2200	2185	2128	2096	9	10	-144.09	-120	-279	469	453	16.05	29.210			
2300	2284	2223	2189	9	10	-143.86	-127	-299	499	482	16.83	29.644			
2400	2383	2318	2282	10	11	-143.66	-134	-318	529	511	17.60	30.038			
2500	2483	2414	2375	10	11	-143.48	-141	-337	559	540	18.37	30.399			
2600	2582	2509	2468	11	12	-143.32	-149	-357	588	569	19.15	30.729			
2700	2681	2605	2562	11	12	-143.17	-156	-376	618	598	19.92	31.034			
2800	2780	2700	2655	11	13	-143.04	-163	-395	648	627	20.70	31.315			
2900	2879	2796	2748	12	13	-142.92	-170	-414	678	657	21.47	31.575			
3000	2978	2891	2841	12	14	-142.81	-177	-434	708	686	22.25	31.817			
3100	3077	2986	2934	13	14	-142.71	-184	-453	738	715	23.03	32.042			
3200	3176	3082	3028	13	15	-142.62	-191	-472	768	744	23.80	32.252			
3300	3275	3177	3121	14	15	-142.53	-198	-491	798	773	24.58	32.449			
3400	3374	3273	3214	14	16	-142.45	-205	-511	828	802	25.36	32.633			
3500	3473	3368	3307	14	16	-142.37	-212	-530	857	831	26.14	32.806			
3600	3572	3464	3400	15	17	-142.30	-220	-549	887	860	26.91	32.969			
3700	3671	3559	3494	15	17	-142.24	-227	-568	917	890	27.69	33.122			
3800	3771	3654	3587	16	18	-142.18	-234	-588	947	919	28.47	33.267			
3900	3870	3750	3680	16	18	-142.12	-241	-607	977	948	29.25	33.404			
4000	3969	3845	3773	17	19	-142.07	-248	-626	1007	977	30.03	33.533			
4100	4068	3941	3866	17	19	-142.02	-255	-645	1037	1006	30.81	33.656			
4200	4167	4036	3959	17	20	-141.97	-262	-665	1067	1035	31.59	33.773			
4300	4266	4131	4053	18	20	-141.92	-269	-684	1097	1064	32.36	33.884			
4400	4365	4227	4146	18	21	-141.88	-276	-703	1127	1093	33.14	33.989			
4500	4464	4322	4239	19	22	-141.84	-284	-722	1156	1123	33.92	34.090			
4600	4563	4418	4332	19	22	-141.80	-291	-742	1186	1152	34.70	34.186			
4700	4662	4513	4425	20	23	-141.76	-298	-761	1216	1181	35.48	34.277			
4800	4761	4609	4519	20	23	-141.73	-305	-780	1246	1210	36.26	34.365			

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 # 542H - Slot 2
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:	# 542H	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	
4900	4860	4704	4612	21	24	-141.70	-312	-799	1276	1239	37.04	34.448	
5000	4959	4799	4705	21	24	-141.66	-319	-819	1306	1268	37.82	34.529	
5100	5059	4895	4798	21	25	-141.63	-326	-838	1336	1297	38.60	34.605	
5165	5123	4957	4859	22	25	-141.61	-331	-850	1355	1316	39.11	34.654	
5200	5158	4990	4891	22	25	-170.05	-333	-857	1366	1326	39.37	34.688	
5250	5207	5038	4938	22	25	144.48	-337	-867	1381	1341	39.72	34.766	
5300	5257	5084	4983	22	26	120.45	-340	-876	1396	1356	40.01	34.877	
5350	5305	5126	5024	22	26	108.99	-343	-885	1410	1370	40.24	35.044	
5400	5353	5160	5057	22	26	102.48	-344	-893	1425	1385	40.40	35.282	
5450	5399	5190	5086	22	26	98.20	-344	-902	1440	1400	40.49	35.571	
5500	5443	5216	5110	22	26	95.02	-343	-911	1456	1415	40.54	35.916	
5550	5484	5237	5130	23	27	92.38	-341	-918	1472	1431	40.53	36.321	
5600	5523	5250	5141	23	27	89.86	-340	-923	1489	1448	40.43	36.816	
5650	5559	5266	5156	23	27	87.72	-338	-930	1506	1465	40.39	37.283	
5700	5592	5275	5164	22	27	85.46	-337	-933	1524	1483	40.28	37.820	
5750	5621	5281	5169	22	27	83.19	-336	-936	1542	1502	40.18	38.374	
5800	5647	5283	5172	22	27	80.89	-336	-937	1560	1520	40.08	38.930	
5850	5668	5284	5172	22	27	78.58	-336	-937	1579	1539	40.00	39.471	
5900	5686	5282	5170	22	27	76.28	-336	-936	1598	1558	39.96	39.982	
5950	5698	5278	5167	22	27	74.02	-337	-934	1616	1576	39.96	40.449	
6000	5707	5273	5162	23	27	71.83	-337	-932	1635	1595	40.00	40.863	
6050	5711	5266	5156	23	27	69.74	-338	-929	1652	1612	40.09	41.216	
6071	5711	5250	5141	23	27	68.45	-340	-923	1660	1620	40.01	41.486	
6100	5711	5250	5141	23	27	68.45	-340	-923	1670	1630	40.14	41.600	
6200	5710	5250	5141	25	27	68.45	-340	-923	1708	1668	40.70	41.970	
6300	5710	5232	5125	26	27	67.83	-342	-916	1751	1710	41.20	42.499	
6400	5709	5221	5115	27	26	67.46	-342	-912	1798	1756	41.86	42.958	
6500	5708	5200	5095	29	26	66.73	-343	-905	1850	1807	42.49	43.536	
6600	5708	5200	5095	30	26	66.73	-343	-905	1905	1861	43.33	43.957	
6700	5707	5200	5095	32	26	66.73	-343	-905	1963	1919	44.17	44.440	
6800	5706	5200	5095	34	26	66.73	-343	-905	2025	1980	45.01	44.989	
6900	5706	5181	5077	36	26	66.09	-344	-899	2089	2044	45.67	45.750	
7000	5705	5176	5072	38	26	65.89	-344	-898	2156	2110	46.40	46.470	
7100	5705	5170	5067	40	26	65.71	-344	-896	2226	2179	47.11	47.248	
7200	5704	5150	5047	42	26	65.00	-344	-891	2298	2250	47.66	48.212	
7300	5703	5150	5047	44	26	65.00	-344	-891	2372	2323	48.34	49.059	
7400	5703	5150	5047	46	26	65.00	-344	-891	2447	2398	48.98	49.962	
7500	5702	5150	5047	49	26	65.00	-344	-891	2524	2475	49.58	50.914	
7600	5701	5150	5047	51	26	65.00	-344	-891	2603	2553	50.14	51.912	
7700	5701	5150	5047	53	26	65.00	-344	-891	2683	2633	50.67	52.953	
7800	5700	5150	5047	55	26	65.00	-344	-891	2765	2714	51.17	54.032	
7900	5700	5150	5047	58	26	65.00	-344	-891	2847	2796	51.63	55.146	
8000	5699	5150	5047	60	26	65.00	-344	-891	2931	2879	52.07	56.292	
8100	5698	5150	5047	62	26	65.00	-344	-891	3016	2963	52.48	57.468	
8200	5698	5150	5047	65	26	65.00	-344	-891	3102	3049	52.87	58.670	
8300	5697	5130	5028	67	26	64.32	-343	-886	3188	3135	53.09	60.049	
8400	5697	5128	5026	69	26	64.24	-343	-885	3275	3221	53.41	61.315	
8500	5696	5126	5024	72	26	64.17	-343	-885	3363	3309	53.72	62.600	
8600	5695	5107	5005	74	26	63.49	-342	-881	3452	3398	53.88	64.063	
8700	5695	5107	5005	76	26	63.49	-342	-881	3541	3486	54.16	65.368	
8800	5694	5107	5005	79	26	63.49	-342	-881	3630	3576	54.44	66.688	
8900	5693	5107	5005	81	26	63.49	-342	-881	3720	3666	54.69	68.024	

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 # 542H - Slot 2
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:	# 542H	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						Rule Assigned:					Offset Well Error:	0 ft
Reference	Offset			Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
9000	5693	5107	5005	83	26	63.49	-342	-881	3811	3756	54.94	69.373		
9100	5692	5107	5005	86	26	63.49	-342	-881	3902	3847	55.17	70.734		
9200	5692	5107	5005	88	26	63.49	-342	-881	3994	3938	55.39	72.106		
9300	5691	5107	5005	91	26	63.49	-342	-881	4086	4030	55.60	73.489		
9400	5690	5107	5005	93	26	63.49	-342	-881	4178	4122	55.80	74.881		
9500	5690	5107	5005	95	26	63.49	-342	-881	4271	4215	55.99	76.282		
9600	5689	5107	5005	98	26	63.49	-342	-881	4364	4307	56.17	77.690		
9700	5688	5107	5005	100	26	63.49	-342	-881	4457	4401	56.34	79.106		
9800	5688	5107	5005	103	26	63.49	-342	-881	4550	4494	56.51	80.529		
9900	5687	5104	5002	105	26	63.39	-342	-880	4644	4588	56.65	81.989		
10,000	5687	5094	4993	108	26	63.06	-341	-878	4738	4682	56.73	83.523		
10,100	5686	5084	4983	110	26	62.73	-340	-876	4833	4776	56.81	85.064		
10,200	5685	5075	4974	112	26	62.40	-340	-874	4927	4870	56.89	86.612		
10,300	5685	5065	4965	115	26	62.07	-339	-872	5022	4965	56.96	88.167		
10,400	5684	5056	4955	117	26	61.75	-338	-870	5117	5060	57.02	89.729		
10,500	5683	5046	4946	120	25	61.42	-337	-868	5212	5155	57.09	91.296		
10,600	5683	5037	4937	122	25	61.10	-337	-866	5307	5250	57.14	92.870		
10,700	5682	5027	4927	125	25	60.78	-336	-865	5402	5345	57.20	94.448		
10,800	5682	5018	4918	127	25	60.45	-335	-863	5498	5441	57.25	96.032		
10,900	5681	5008	4909	129	25	60.13	-335	-861	5594	5536	57.30	97.621		
11,000	5680	4998	4899	132	25	59.81	-334	-859	5689	5632	57.34	99.214		
11,100	5680	4989	4890	134	25	59.50	-333	-857	5785	5728	57.39	100.812		
11,200	5679	4979	4881	137	25	59.18	-332	-855	5881	5824	57.43	102.413		
11,300	5679	4970	4871	139	25	58.87	-332	-853	5977	5920	57.46	104.019		
11,400	5678	4960	4862	142	25	58.55	-331	-851	6074	6016	57.50	105.629		
11,500	5677	4951	4853	144	25	58.24	-330	-849	6170	6113	57.53	107.242		
11,600	5677	4941	4843	147	25	57.93	-330	-847	6267	6209	57.57	108.858		
11,700	5676	4932	4834	149	25	57.62	-329	-845	6363	6305	57.60	110.477		
11,735	5676	4928	4831	150	25	57.51	-329	-845	6397	6339	57.61	111.040		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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 - # 544H - Original Drilling - APD Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-57.00	22	-34	40					
100	100	100	100	0	0	-57.00	22	-34	40	40	0.46	86.724		
200	200	200	200	1	1	-57.00	22	-34	40	39	1.18	34.004		
300	300	300	300	1	1	-57.00	22	-34	40	38	1.90	21.148		
350	350	350	350	1	1	-57.00	22	-34	40	38	2.25	17.786 CC		
400	400	400	400	1	1	-64.13	22	-34	40	38	2.61	15.371		
500	500	499	499	2	2	-64.43	26	-34	40	37	3.33	12.173		
600	600	598	598	2	2	-65.02	33	-34	41	37	4.05	10.171 ES		
700	699	697	697	2	2	-65.87	43	-33	42	37	4.79	8.810		
739	738	737	736	3	2	-66.42	48	-33	43	38	5.09	8.374		
800	798	797	796	3	3	-67.73	55	-33	43	38	5.57	7.760		
900	897	897	895	3	3	-69.83	68	-33	44	38	6.36	6.935		
1000	996	997	994	4	4	-71.83	80	-33	45	38	7.17	6.290		
1100	1095	1097	1093	4	4	-73.74	93	-33	46	38	8.00	5.774		
1200	1195	1197	1192	5	4	-75.57	105	-33	47	38	8.83	5.355		
1300	1294	1297	1292	5	5	-77.31	118	-33	48	39	9.66	5.009		
1400	1393	1397	1391	5	5	-78.97	130	-33	50	39	10.51	4.720		
1500	1492	1497	1490	6	6	-80.55	143	-33	51	39	11.35	4.476		
1600	1591	1597	1589	6	6	-82.06	155	-33	52	40	12.20	4.268		
1700	1690	1697	1688	7	6	-83.49	168	-33	53	40	13.06	4.089		
1800	1789	1797	1788	7	7	-84.86	180	-32	55	41	13.91	3.934		
1900	1888	1897	1887	8	7	-86.16	193	-32	56	41	14.76	3.798		
2000	1987	1997	1986	8	8	-87.40	205	-32	57	42	15.62	3.679		
2100	2086	2097	2085	8	8	-88.57	218	-32	59	42	16.47	3.573		
2200	2185	2197	2184	9	9	-89.70	230	-32	60	43	17.33	3.480		
2300	2284	2297	2284	9	9	-90.77	243	-32	62	44	18.19	3.396		
2400	2383	2397	2383	10	9	-91.79	255	-32	63	44	19.04	3.321		
2500	2483	2497	2482	10	10	-92.76	268	-32	65	45	19.90	3.254		
2600	2582	2597	2581	11	10	-93.69	280	-32	66	46	20.75	3.193		
2700	2681	2697	2680	11	11	-94.58	293	-32	68	46	21.60	3.138		
2800	2780	2797	2780	11	11	-95.43	305	-32	69	47	22.46	3.088		
2900	2879	2897	2879	12	11	-96.24	318	-31	71	48	23.31	3.042		
3000	2978	2997	2978	12	12	-97.01	330	-31	72	48	24.16	3.000		
3100	3077	3097	3077	13	12	-97.76	343	-31	74	49	25.01	2.961		
3200	3176	3197	3176	13	13	-98.47	355	-31	76	50	25.86	2.926		
3300	3275	3297	3276	14	13	-99.15	368	-31	77	51	26.71	2.893		
3400	3374	3397	3375	14	14	-99.80	380	-31	79	51	27.56	2.863		
3500	3473	3497	3474	14	14	-100.43	393	-31	81	52	28.40	2.835		
3600	3572	3597	3573	15	14	-101.04	405	-31	82	53	29.25	2.809		
3700	3671	3697	3672	15	15	-101.61	418	-31	84	54	30.10	2.785		
3800	3771	3797	3772	16	15	-102.17	430	-31	85	55	30.94	2.762		
3900	3870	3897	3871	16	16	-102.71	443	-31	87	55	31.78	2.741		
4000	3969	3997	3970	17	16	-103.22	455	-31	89	56	32.63	2.722		
4100	4068	4097	4069	17	17	-103.72	468	-30	90	57	33.47	2.703		
4200	4167	4197	4168	17	17	-104.20	480	-30	92	58	34.31	2.686		
4300	4266	4297	4268	18	17	-104.66	493	-30	94	59	35.15	2.670		
4400	4365	4397	4367	18	18	-105.10	505	-30	96	60	36.00	2.655		
4500	4464	4497	4466	19	18	-105.53	518	-30	97	60	36.84	2.641		
4600	4563	4597	4565	19	19	-105.94	530	-30	99	61	37.68	2.627		
4700	4662	4697	4664	20	19	-106.34	543	-30	101	62	38.51	2.614		
4800	4761	4797	4764	20	20	-106.73	555	-30	102	63	39.35	2.602		
4900	4860	4897	4863	21	20	-107.10	568	-30	104	64	40.19	2.591		

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 # 542H - Slot 2
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:	# 542H	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 - # 544H - 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	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5000	4959	4997	4962	21	20	-107.47	580	-30	106	65	41.03	2.580 SF		
5100	5059	5090	5055	21	21	-106.91	593	-31	109	67	41.82	2.609		
5165	5123	5150	5113	22	21	-103.83	606	-37	116	74	42.34	2.746		
5200	5158	5177	5138	22	21	-129.40	613	-42	123	80	42.31	2.901		
5250	5207	5216	5174	22	21	-169.95	625	-50	138	95	42.20	3.258		
5300	5257	5250	5205	22	22	170.49	637	-59	159	117	41.71	3.812		
5350	5305	5280	5232	22	22	162.59	648	-68	187	146	41.05	4.554		
5400	5353	5300	5249	22	22	157.27	656	-74	221	181	39.87	5.537		
5450	5399	5325	5269	22	22	154.41	666	-83	259	220	39.51	6.561		
5500	5443	5340	5282	22	22	149.91	673	-89	301	263	38.84	7.760		
5550	5484	5350	5290	23	22	143.27	677	-93	346	308	38.24	9.056		
5600	5523	5350	5290	23	22	130.42	677	-93	393	356	37.42	10.512		
5650	5559	5362	5299	23	22	117.64	683	-98	441	404	37.57	11.747		
5700	5592	5363	5300	22	22	94.40	684	-99	490	453	37.39	13.111		
5750	5621	5350	5290	22	22	63.80	677	-93	539	503	36.77	14.670		
5800	5647	5350	5290	22	22	47.44	677	-93	588	551	36.93	15.919		
5850	5668	5350	5290	22	22	36.88	677	-93	636	599	37.21	17.090		
5900	5686	5350	5290	22	22	30.00	677	-93	683	645	37.57	18.181		
5950	5698	5350	5290	22	22	25.33	677	-93	729	691	37.98	19.196		
6000	5707	5330	5274	23	22	21.16	668	-85	773	735	37.86	20.426		
6050	5711	5320	5265	23	22	18.70	664	-81	816	778	38.11	21.411		
6071	5711	5300	5249	23	22	17.49	656	-74	834	796	37.84	22.045		
6100	5711	5300	5249	23	22	17.49	656	-74	857	819	38.17	22.464		
6200	5710	5300	5249	25	22	17.49	656	-74	941	902	39.14	24.047		
6300	5710	5270	5223	26	22	16.79	644	-65	1027	988	39.33	26.108		
6400	5709	5250	5205	27	22	16.34	637	-59	1114	1075	39.63	28.117		
6500	5708	5250	5205	29	22	16.34	637	-59	1203	1163	40.17	29.951		
6600	5708	5227	5184	30	22	15.87	629	-53	1293	1253	40.30	32.085		
6700	5707	5200	5160	32	21	15.35	620	-47	1384	1344	40.35	34.305		
6800	5706	5200	5160	34	21	15.35	620	-47	1476	1435	40.69	36.268		
6900	5706	5200	5160	36	21	15.35	620	-47	1568	1527	40.97	38.279		
7000	5705	5200	5160	38	21	15.35	620	-47	1662	1620	41.20	40.329		
7100	5705	5177	5138	40	21	14.95	613	-42	1755	1714	41.21	42.590		
7200	5704	5169	5131	42	21	14.82	611	-41	1849	1808	41.33	44.744		
7300	5703	5150	5113	44	21	14.51	606	-37	1944	1903	41.35	47.021		
7400	5703	5150	5113	46	21	14.51	606	-37	2039	1998	41.50	49.139		
7500	5702	5150	5113	49	21	14.51	606	-37	2135	2093	41.63	51.276		
7600	5701	5150	5113	51	21	14.51	606	-37	2231	2189	41.75	53.429		
7700	5701	5150	5113	53	21	14.51	606	-37	2327	2285	41.85	55.595		
7800	5700	5150	5113	55	21	14.51	606	-37	2423	2381	41.95	57.772		
7900	5700	5129	5093	58	21	14.20	601	-35	2520	2478	41.93	60.094		
8000	5699	5125	5089	60	21	14.13	600	-34	2616	2574	41.99	62.312		
8100	5698	5121	5085	62	21	14.07	599	-34	2713	2671	42.05	64.534		
8200	5698	5100	5064	65	21	13.79	595	-32	2811	2769	42.02	66.891		
8300	5697	5100	5064	67	21	13.79	595	-32	2908	2866	42.09	69.088		
8400	5697	5100	5064	69	21	13.79	595	-32	3006	2963	42.16	71.290		
8500	5696	5100	5064	72	21	13.79	595	-32	3103	3061	42.22	73.495		
8600	5695	5100	5064	74	21	13.79	595	-32	3201	3159	42.28	75.703		
8700	5695	5100	5064	76	21	13.79	595	-32	3299	3256	42.34	77.913		
8800	5694	5100	5064	79	21	13.79	595	-32	3397	3354	42.39	80.125		
8900	5693	5100	5064	81	21	13.79	595	-32	3495	3452	42.44	82.338		
9000	5693	5100	5064	83	21	13.79	595	-32	3593	3550	42.50	84.550		

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 # 542H - Slot 2
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:	# 542H	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 - # 544H - Original Drilling - APD Rev 1												Offset Site Error:		0 ft
Survey Program: 0-MWD+IGRF				Rule Assigned:								Offset Well Error:		0 ft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth	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)			
9100	5692	5100	5064	86	21	13.79	595	-32	3691	3649	42.54	86.763		
9200	5692	5100	5064	88	21	13.79	595	-32	3790	3747	42.59	88.975		
9300	5691	5100	5064	91	21	13.79	595	-32	3888	3845	42.64	91.186		
9400	5690	5100	5064	93	21	13.79	595	-32	3987	3944	42.69	93.395		
9500	5690	5100	5064	95	21	13.79	595	-32	4085	4043	42.73	95.603		
9600	5689	5100	5064	98	21	13.79	595	-32	4184	4141	42.78	97.808		
9700	5688	5100	5064	100	21	13.79	595	-32	4283	4240	42.82	100.011		
9800	5688	5076	5041	103	21	13.49	591	-30	4381	4338	42.80	102.355		
9900	5687	5075	5039	105	21	13.47	591	-30	4480	4437	42.84	104.562		
10,000	5687	5073	5038	108	21	13.45	590	-30	4579	4536	42.88	106.766		
10,100	5686	5050	5015	110	21	13.18	587	-30	4678	4635	42.87	109.128		
10,200	5685	5050	5015	112	21	13.18	587	-30	4777	4734	42.91	111.312		
10,300	5685	5050	5015	115	21	13.18	587	-30	4876	4833	42.96	113.493		
10,400	5684	5050	5015	117	21	13.18	587	-30	4975	4931	43.01	115.670		
10,500	5683	5050	5015	120	21	13.18	587	-30	5073	5030	43.05	117.843		
10,600	5683	5050	5015	122	21	13.18	587	-30	5172	5129	43.10	120.011		
10,700	5682	5050	5015	125	21	13.18	587	-30	5272	5228	43.15	122.175		
10,800	5682	5050	5015	127	21	13.18	587	-30	5371	5327	43.19	124.334		
10,900	5681	5050	5015	129	21	13.18	587	-30	5470	5426	43.24	126.489		
11,000	5680	5050	5015	132	21	13.18	587	-30	5569	5526	43.29	128.638		
11,100	5680	5050	5015	134	21	13.18	587	-30	5668	5625	43.34	130.782		
11,200	5679	5050	5015	137	21	13.18	587	-30	5767	5724	43.39	132.921		
11,300	5679	5050	5015	139	21	13.18	587	-30	5867	5823	43.44	135.054		
11,400	5678	5050	5015	142	21	13.18	587	-30	5966	5922	43.49	137.182		
11,500	5677	5050	5015	144	21	13.18	587	-30	6065	6022	43.54	139.304		
11,600	5677	5050	5015	147	21	13.18	587	-30	6164	6121	43.59	141.420		
11,700	5676	5050	5015	149	21	13.18	587	-30	6264	6220	43.64	143.530		
11,735	5676	5050	5015	150	21	13.18	587	-30	6298	6255	43.66	144.263		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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 - Ballymaloe 2 - OH - OH													Offset Site Error:	0 ft
Survey Program: 133-INCLINOMETER													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Reference		Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
0	0	0	0	0	0	124.71		-2219	3202	3897				
100	100	0	0	0	0	124.71		-2219	3202	3896	3896	0.31	N/A	
134	134	33	33	0	1	124.71		-2219	3202	3896	3895	1.42	2,741.144	
200	200	99	99	1	3	124.71		-2219	3202	3896	3892	3.67	1,060.607	
275	275	174	174	1	5	124.71		-2219	3202	3896	3890	6.21	627.144	
300	300	192	192	1	6	124.71		-2219	3202	3896	3889	6.86	567.559	
350	350	249	249	1	8	124.71		-2219	3202	3896	3887	8.77	444.417	
400	400	299	299	1	9	117.63		-2219	3202	3896	3886	10.46	372.340	
500	500	399	399	2	12	117.65		-2219	3202	3898	3884	13.86	281.269	
600	600	498	498	2	15	117.68		-2218	3202	3901	3884	17.24	226.300	
700	699	596	596	2	18	117.72		-2218	3202	3906	3885	20.58	189.823	
739	738	634	634	3	19	117.74		-2219	3202	3908	3886	21.89	178.504	
800	798	693	693	3	21	117.85		-2219	3202	3912	3888	23.92	163.568	
900	897	796	796	3	24	118.03		-2219	3202	3919	3891	27.45	142.769	
1000	996	895	895	4	27	118.20		-2219	3202	3925	3894	30.86	127.204	
1100	1095	994	994	4	30	118.37		-2218	3202	3931	3897	34.25	114.762	
1200	1195	1087	1087	5	33	118.53		-2218	3202	3938	3900	37.50	105.008	
1300	1294	1181	1181	5	36	118.70		-2218	3202	3944	3904	40.74	96.812	
1400	1393	1292	1292	5	39	118.89		-2219	3202	3951	3907	44.52	88.743	
1500	1492	1391	1391	6	42	119.06		-2219	3202	3958	3910	47.94	82.551	
1600	1591	1490	1490	6	45	119.23		-2219	3202	3964	3913	51.36	77.182	
1700	1690	1581	1581	7	48	119.37		-2217	3202	3970	3916	54.54	72.791	
1800	1789	1671	1671	7	51	119.53		-2218	3202	3977	3920	57.69	68.939	
1900	1888	1787	1787	8	54	119.74		-2219	3202	3984	3923	61.63	64.650	
2000	1987	1886	1886	8	57	119.91		-2219	3202	3991	3926	65.05	61.353	
2100	2086	1967	1967	8	60	120.04		-2218	3202	3998	3930	67.93	58.855	
2200	2185	2085	2084	9	63	120.24		-2219	3202	4005	3933	71.90	55.702	
2300	2284	2184	2183	9	66	120.41		-2219	3202	4012	3936	75.32	53.262	
2400	2383	2281	2280	10	69	120.55		-2217	3202	4018	3939	78.68	51.062	
2500	2483	2369	2368	10	72	120.70		-2217	3202	4025	3943	81.76	49.229	
2600	2582	2456	2456	11	75	120.85		-2218	3202	4032	3948	84.83	47.535	
2700	2681	2580	2580	11	78	121.07		-2219	3202	4040	3951	89.01	45.384	
2800	2780	2679	2679	11	81	121.23		-2219	3202	4047	3954	92.43	43.780	
2900	2879	2772	2771	12	84	121.37		-2218	3202	4054	3958	95.65	42.378	
3000	2978	2862	2862	12	87	121.53		-2219	3202	4061	3962	98.82	41.094	
3100	3077	2976	2976	13	90	121.72		-2219	3202	4068	3965	102.70	39.613	
3200	3176	3076	3075	13	93	121.88		-2219	3202	4075	3969	106.12	38.403	
3300	3275	3167	3167	14	96	122.02		-2218	3202	4082	3973	109.31	37.347	
3400	3374	3258	3258	14	99	122.17		-2219	3202	4090	3977	112.48	36.359	
3500	3473	3373	3372	14	102	122.36		-2219	3202	4097	3981	116.38	35.204	
3600	3572	3472	3471	15	105	122.51		-2219	3202	4104	3985	119.80	34.261	
3700	3671	3569	3569	15	108	122.66		-2218	3202	4111	3988	123.17	33.379	
3800	3771	3664	3664	16	111	122.82		-2218	3202	4119	3992	126.46	32.570	
3900	3870	3759	3759	16	114	122.97		-2219	3202	4126	3997	129.75	31.803	
4000	3969	3868	3868	17	117	123.14		-2219	3202	4134	4001	133.48	30.972	
4100	4068	3967	3967	17	120	123.30		-2219	3202	4141	4005	136.90	30.253	
4200	4167	4066	4066	17	123	123.45		-2218	3202	4149	4008	140.31	29.567	
4300	4266	4161	4161	18	126	123.60		-2218	3202	4156	4013	143.60	28.942	
4400	4365	4256	4256	18	129	123.75		-2218	3202	4164	4017	146.89	28.347	
4500	4464	4364	4363	19	133	123.92		-2219	3202	4172	4021	150.57	27.706	
4600	4563	4463	4462	19	136	124.07		-2219	3202	4179	4025	153.98	27.141	
4700	4662	4562	4561	20	139	124.22		-2219	3202	4187	4030	157.40	26.600	

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 # 542H - Slot 2
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:	# 542H	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 - Ballymaloe 2 - OH - OH												Offset Site Error:	0 ft
Survey Program: 133-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	
4800	4761	4654	4654	20	141	124.36	-2218	3202	4194	4034	160.62	26.113	
4900	4860	4746	4746	21	144	124.50	-2218	3202	4202	4038	163.81	25.652	
5000	4959	4859	4858	21	148	124.68	-2219	3202	4210	4042	167.65	25.112	
5100	5059	4958	4958	21	151	124.83	-2219	3202	4218	4047	171.07	24.656	
5165	5123	5023	5022	22	153	124.93	-2219	3202	4223	4050	173.29	24.369	
5200	5158	5057	5057	22	154	97.64	-2219	3202	4225	4050	174.48	24.212	
5250	5207	5103	5103	22	155	53.61	-2218	3202	4222	4046	176.07	23.981	
5300	5257	5148	5148	22	156	30.81	-2218	3202	4216	4039	177.62	23.738	
5350	5305	5193	5192	22	158	20.43	-2218	3202	4206	4027	179.13	23.478	
5400	5353	5236	5235	22	159	14.88	-2218	3202	4191	4010	180.61	23.204	
5450	5399	5278	5277	22	160	11.49	-2218	3202	4172	3990	182.02	22.919	
5500	5443	5342	5342	22	162	9.23	-2219	3202	4148	3964	184.12	22.532	
5550	5484	5384	5383	23	164	7.57	-2219	3202	4121	3936	185.50	22.216	
5600	5523	5423	5422	23	165	6.27	-2219	3202	4090	3903	186.79	21.896	
5650	5559	5459	5458	23	166	5.19	-2219	3202	4056	3868	187.97	21.575	
5700	5592	5492	5491	22	167	4.22	-2219	3202	4018	3829	189.04	21.253	
5750	5621	5521	5520	22	168	3.26	-2219	3202	3977	3787	189.99	20.934	
5800	5647	5547	5546	22	168	2.22	-2219	3202	3934	3743	190.81	20.619	
5850	5668	5568	5567	22	169	0.93	-2219	3202	3889	3698	191.49	20.309	
5900	5686	5585	5585	22	170	-0.92	-2219	3202	3842	3650	192.04	20.008	
5950	5698	5598	5597	22	170	-4.15	-2219	3202	3794	3601	192.44	19.715	
6000	5707	5606	5606	23	170	-11.83	-2219	3202	3745	3552	192.69	19.433	
6050	5711	5610	5610	23	170	-47.88	-2219	3202	3695	3502	192.80	19.164	
6071	5711	5611	5610	23	170	-98.70	-2219	3202	3673	3481	192.81	19.053	
6100	5711	5611	5610	23	170	-98.63	-2219	3202	3645	3452	192.79	18.906	
6200	5710	5610	5609	25	170	-98.40	-2219	3202	3545	3352	192.74	18.392	
6300	5710	5609	5609	26	170	-98.16	-2219	3202	3445	3252	192.69	17.878	
6400	5709	5609	5608	27	170	-97.93	-2219	3202	3345	3153	192.64	17.364	
6500	5708	5608	5607	29	170	-97.70	-2219	3202	3245	3053	192.59	16.850	
6600	5708	5607	5607	30	170	-97.46	-2219	3202	3145	2953	192.54	16.336	
6700	5707	5607	5606	32	170	-97.23	-2219	3202	3045	2853	192.49	15.822	
6800	5706	5606	5605	34	170	-96.99	-2219	3202	2946	2753	192.44	15.307	
6900	5706	5606	5605	36	170	-96.76	-2219	3202	2846	2653	192.38	14.792	
7000	5705	5605	5604	38	170	-96.52	-2219	3202	2746	2554	192.33	14.277	
7100	5705	5604	5604	40	170	-96.28	-2219	3202	2646	2454	192.27	13.762	
7200	5704	5604	5603	42	170	-96.05	-2219	3202	2546	2354	192.22	13.246	
7300	5703	5603	5602	44	170	-95.81	-2219	3202	2446	2254	192.16	12.731	
7400	5703	5602	5602	46	170	-95.58	-2219	3202	2347	2154	192.10	12.215	
7500	5702	5602	5601	49	170	-95.34	-2219	3202	2247	2055	192.05	11.699	
7600	5701	5601	5600	51	170	-95.10	-2219	3202	2147	1955	191.99	11.183	
7700	5701	5601	5600	53	170	-94.86	-2219	3202	2047	1855	191.93	10.667	
7800	5700	5600	5599	55	170	-94.63	-2219	3202	1948	1756	191.87	10.150	
7900	5700	5599	5599	58	170	-94.39	-2219	3202	1848	1656	191.82	9.633	
8000	5699	5599	5598	60	170	-94.15	-2219	3202	1748	1556	191.77	9.116	
8100	5698	5598	5597	62	170	-93.92	-2219	3202	1649	1457	191.73	8.599	
8200	5698	5597	5597	65	170	-93.68	-2219	3202	1549	1357	191.69	8.081	
8300	5697	5597	5596	67	170	-93.44	-2219	3202	1450	1258	191.67	7.563	
8400	5697	5596	5596	69	170	-93.20	-2219	3202	1350	1158	191.67	7.044	
8500	5696	5596	5595	72	170	-92.96	-2219	3202	1251	1059	191.71	6.524	
8600	5695	5595	5594	74	170	-92.72	-2219	3202	1152	960	191.80	6.004	
8700	5695	5594	5594	76	170	-92.49	-2219	3202	1052	861	191.96	5.483	
8800	5694	5594	5593	79	170	-92.25	-2219	3202	954	761	192.24	4.960	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
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:	# 542H	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 - Ballymaloe 2 - OH - OH													Offset Site Error:	0 ft	
Survey Program:		133-INCLINOMETER						Rule Assigned:						Offset Well Error:	0 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Reference (ft)	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)					
8900	5693	5593	5592	81	170	-92.01	-2219	3202	855	662	192.71	4.436			
9000	5693	5592	5592	83	170	-91.77	-2219	3202	757	563	193.49	3.911			
9100	5692	5592	5591	86	170	-91.53	-2219	3202	659	464	194.77	3.383			
9200	5692	5591	5591	88	170	-91.29	-2219	3202	562	365	196.89	2.854			
9300	5691	5591	5590	91	170	-91.06	-2219	3202	466	266	200.47	2.326			
9400	5690	5590	5589	93	170	-90.82	-2219	3202	373	166	206.68	1.805			
9500	5690	5589	5589	95	170	-90.58	-2219	3202	284	66	217.76	1.305	Level 3		
9600	5689	5589	5588	98	170	-90.34	-2219	3202	206	-32	237.50	0.866	Level 3		
9700	5688	5588	5587	100	170	-90.10	-2219	3202	155	-110	264.37	0.586	Level 3		
9742	5688	5588	5587	101	170	-90.00	-2219	3202	149	-122	270.76	0.550	Level 3, CC, ES, SF		
9800	5688	5588	5587	103	170	-89.86	-2219	3202	160	-108	267.96	0.597	Level 3		
9900	5687	5587	5586	105	170	-89.62	-2219	3202	217	-31	248.25	0.875	Level 3		
10,000	5687	5586	5586	108	170	-89.38	-2219	3202	298	66	232.26	1.283	Level 3		
10,100	5686	5586	5585	110	170	-89.14	-2219	3202	388	166	222.29	1.745			
10,200	5685	5585	5584	112	170	-88.91	-2219	3202	482	266	215.96	2.231			
10,300	5685	5584	5584	115	170	-88.67	-2219	3202	578	366	211.73	2.728			
10,400	5684	5584	5583	117	170	-88.43	-2219	3202	675	466	208.76	3.232			
10,500	5683	5583	5582	120	170	-88.19	-2219	3202	773	566	206.58	3.740			
10,600	5683	5583	5582	122	170	-87.95	-2219	3202	871	666	204.94	4.250			
10,700	5682	5582	5581	125	170	-87.71	-2219	3202	970	766	203.66	4.761			
10,800	5682	5581	5581	127	169	-87.47	-2219	3202	1069	866	202.65	5.273			
10,900	5681	5581	5580	129	169	-87.24	-2219	3202	1168	966	201.82	5.785			
11,000	5680	5580	5579	132	169	-87.00	-2219	3202	1267	1066	201.15	6.298			
11,100	5680	5579	5579	134	169	-86.76	-2219	3202	1366	1166	200.59	6.811			
11,200	5679	5579	5578	137	169	-86.52	-2219	3202	1466	1266	200.11	7.324			
11,300	5679	5578	5578	139	169	-86.28	-2219	3202	1565	1365	199.71	7.837			
11,400	5678	5578	5577	142	169	-86.05	-2219	3202	1665	1465	199.36	8.350			
11,500	5677	5577	5576	144	169	-85.81	-2219	3202	1764	1565	199.06	8.863			
11,600	5677	5576	5576	147	169	-85.57	-2219	3202	1864	1665	198.80	9.376			
11,700	5676	5576	5575	149	169	-85.33	-2219	3202	1964	1765	198.58	9.889			
11,735	5676	5576	5575	150	169	-85.25	-2219	3202	1998	1800	198.51	10.067			

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



Lonestar Consulting, LLC

Anticollision Report

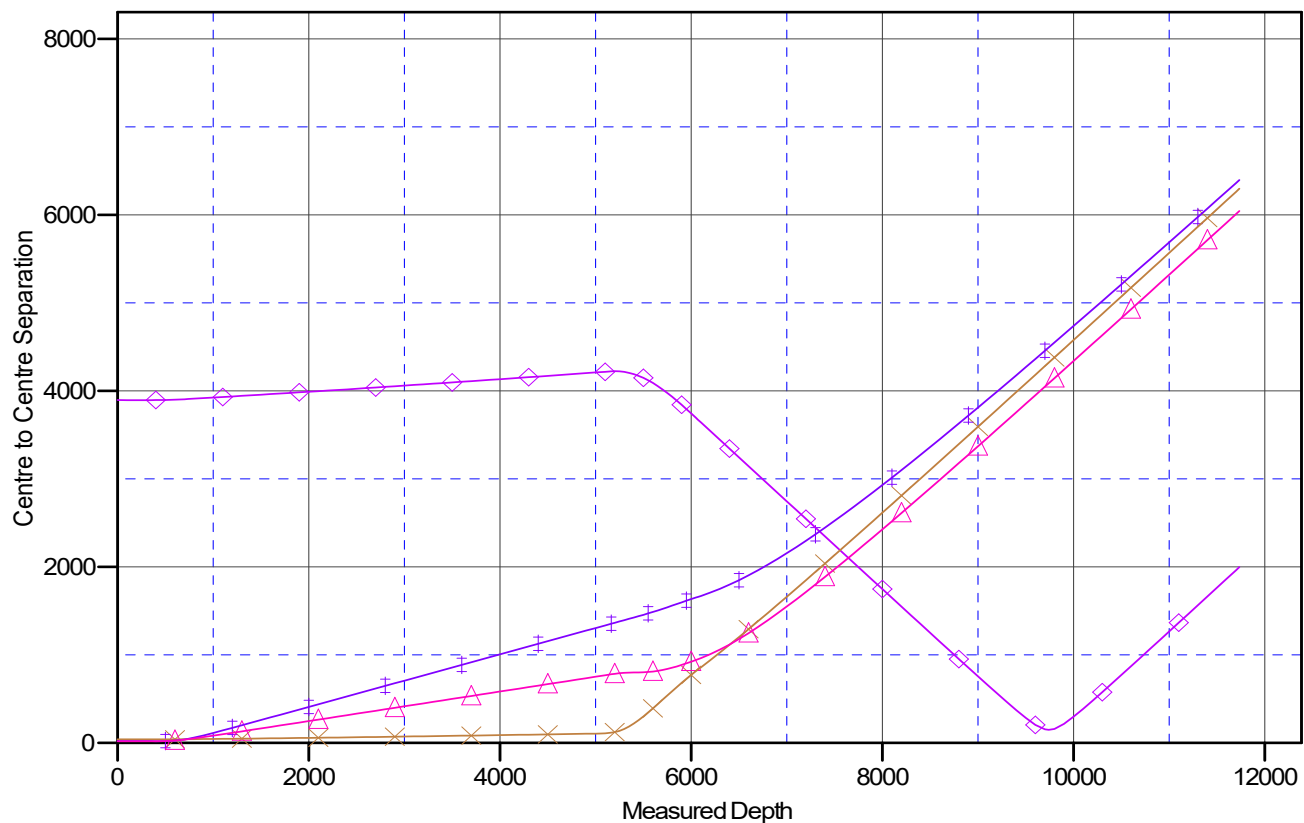


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 542H - Slot 2
Project:	North Alamito Unit	TVD Reference:	GL 7307' & RKB 14' @ 7321ft
Reference Site:	A26 2307 Pad	MD Reference:	GL 7307' & RKB 14' @ 7321ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 542H	Survey Calculation Method:	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 -107.83333333

Coordinates are relative to: # 542H - Slot 2
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.17°

Ladder Plot



LEGEND

Balmabe 2.OH.OH.V.0
 #543H.Original.Drilling.APD.Rev1.V.0
 #544H.Original.Drilling.APD.Rev1.V.0
 #206H.Original.Drilling.APD.Rev1.V.0

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 # 542H - Slot 2
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:	# 542H	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

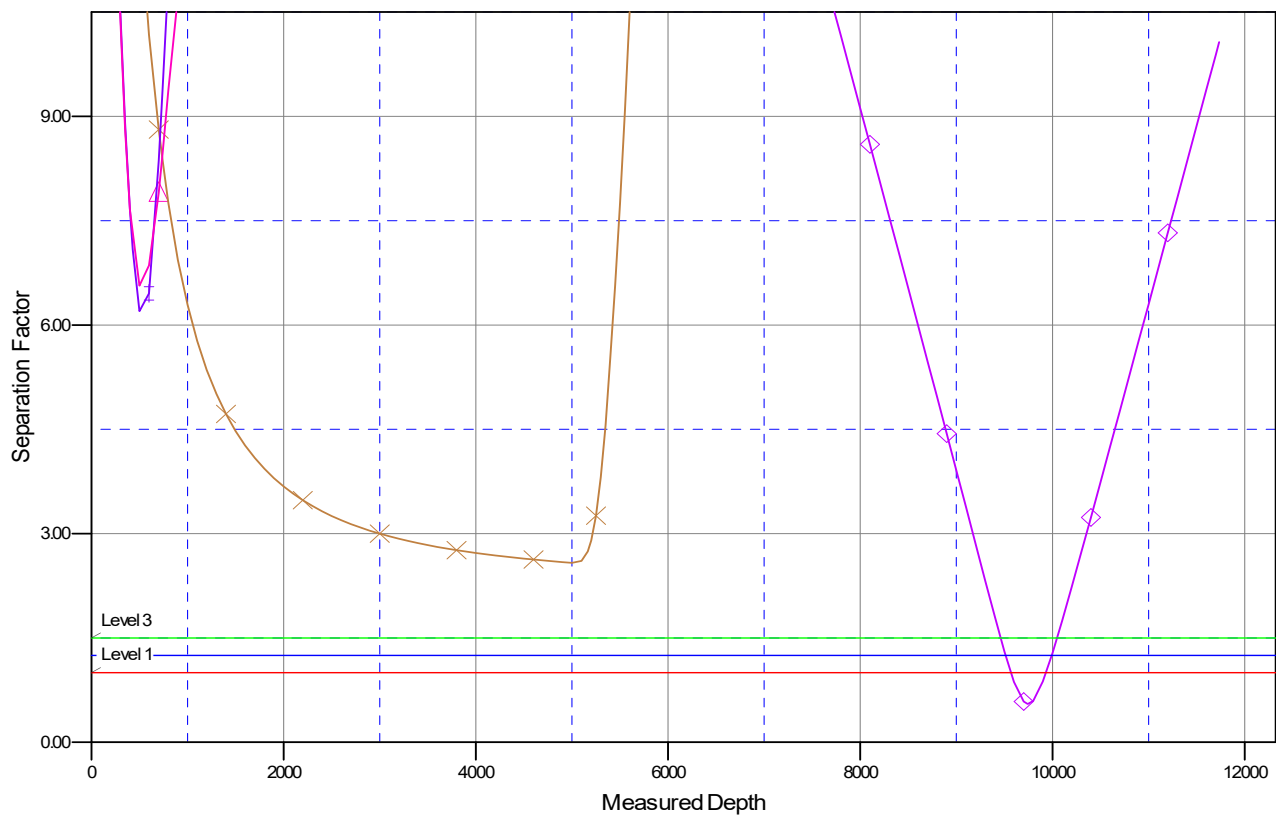
Central Meridian is -107.8333333

Coordinates are relative to: # 542H - Slot 2

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

Grid Convergence at Surface is: 0.17°

Separation Factor Plot



LEGEND

- Ballynake 2.OHCHV0
- # 543HOriginalDrilling.APDRev1 V0
- # 544HOriginalDrilling.APDRev1 V0
- # 206HOriginalDrilling.APDRev1 V0

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



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
#542H 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: SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25, T. 23N., R. 7W.
Sandoval County, New Mexico
***Above Data Required on Well Sign**

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- D. ☐ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.
- E. ☐ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**

- K. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- L. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- M. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.
 - 1. Provide complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results, 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results, and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any changes of plans required to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.I.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.I. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 504755

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 504755
	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 504755

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 504755
	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