

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-043-21528	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	
13. State			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		16. No of acres in lease	
17. Spacing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		19. Proposed Depth	
20. BLM/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will start*	
23. Estimated duration			
24. Attachments			
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NWNE / 927 FNL / 1416 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.200858 / LONG: -107.433675 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 1295 FNL / 2456 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.199584 / LONG: -107.4372 (TVD: 5095 feet, MD: 5517 feet)
PPP: NESE / 1476 FNL / 1 FEL / TWSP: 23N / RANGE: 6W / SECTION: 22 / LAT: 36.207497 / LONG: -107.446723 (TVD: 5151 feet, MD: 14316 feet)
PPP: SESW / 1 FSL / 1485 FWL / TWSP: 23N / RANGE: 6W / SECTION: 23 / LAT: 36.203428 / LONG: -107.44165 (TVD: 5151 feet, MD: 14316 feet)
BHL: NENW / 347 FNL / 1890 FWL / TWSP: 23N / RANGE: 6W / SECTION: 22 / LAT: 36.216759 / LONG: -107.458274 (TVD: 5151 feet, MD: 14316 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 30-043-21528	Pool Code 13379	Pool Name COUNSELORS GALLUP - DAKOTA POOL
Property Code 325207	Property Name GALLO CANYON UNIT	Well Number 402H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6930'
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
B	26	23N	6W		927' NORTH	1416' EAST	36.200858° N	107.433675° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	22	23N	6W		347' NORTH	1890' WEST	36.216759° N	107.458274° W	SANDOVAL

Dedicated Acres PENETRATED SPACING UNIT: SEC 26: SW/NE, NW/NE, SE/NW, NE/NW & NW/NW (200 AC.); SEC 23: SE/SW, SW/SW & NW/SW (120 AC.); SEC 22: SE/SE, NE/SE, NW/SE, SE/NE, SW/NE, NW/NE, SE/NW, & NE/NW (320 AC.) = 640 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers:	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
B	26	23N	6W		1295' NORTH	2456' EAST	36.199584° N	107.437200° W	SANDOVAL

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
B	26	23N	6W		1295' NORTH	2456' EAST	36.199584° N	107.437200° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	22	23N	6W		347' NORTH	1890' WEST	36.216759° N	107.458274° W	SANDOVAL

Unitized Area or Area of Uniform Interest GALLO CANYON	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.

Signature

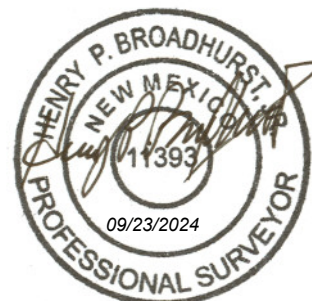
Date

Printed Name

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:

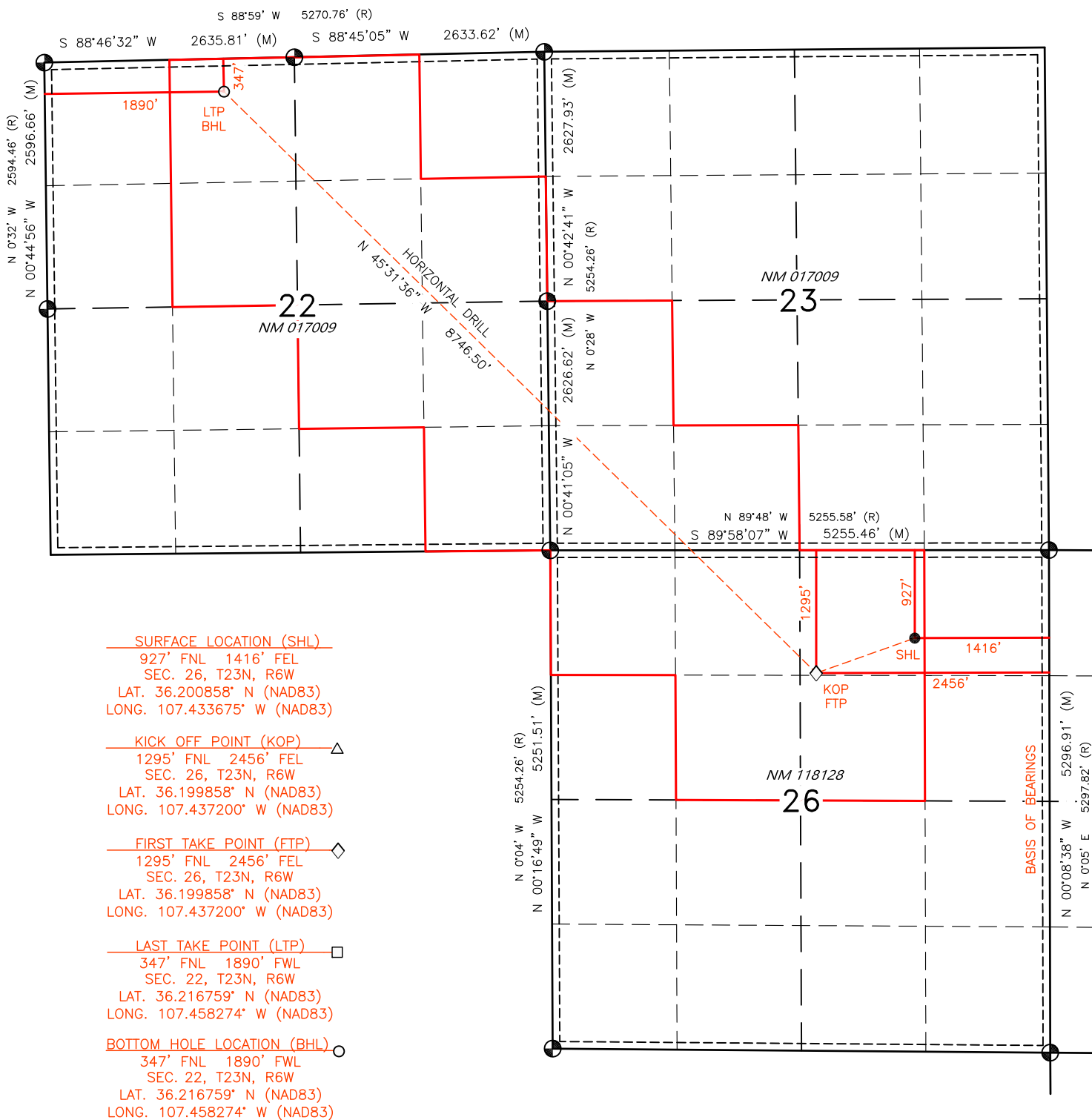
Certificate Number

11393

Date of Survey

JULY 6, 2021

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.



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:** _04 / 25 / 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
Gallo Canyon Unit 310H	TBD	B-26-23N-6W	914 FNL x 1454 FEL	313	947	125
Gallo Canyon Unit 311H	TBD	B-26-23N-6W	921 FNL x 1435 FEL	349	1056	139
Gallo Canyon Unit 315H	TBD	B-26-23N-6W	908 FNL x 1473 FEL	255	773	102
Gallo Canyon Unit 316H	TBD	B-26-23N-6W	901 FNL x 1492 FEL	234	708	94
Gallo Canyon Unit 401H	TBD	B-26-23N-6W	934 FNL x 1397 FEL	302	915	121
Gallo Canyon Unit 402H	TBD	B-26-23N-6W	927 FNL x 1416 FEL	272	824	109
				3-year Decline	3-year Decline	3-year Decline
Gallo Canyon Unit 310H	TBD	B-26-23N-6W	914 FNL x 1454 FEL	72	429	29
Gallo Canyon Unit 311H	TBD	B-26-23N-6W	921 FNL x 1435 FEL	80	478	32
Gallo Canyon Unit 315H	TBD	B-26-23N-6W	908 FNL x 1473 FEL	59	350	24
Gallo Canyon Unit 316H	TBD	B-26-23N-6W	901 FNL x 1492 FEL	54	321	22
Gallo Canyon Unit 401H	TBD	B-26-23N-6W	934 FNL x 1397 FEL	70	414	28
Gallo Canyon Unit 402H	TBD	B-26-23N-6W	927 FNL x 1416 FEL	63	373	25

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 Commencement Date	Initial Flow Back Date	First Production Date
Gallo Canyon Unit 310H	TBD	7/5/2025	8/15/2025	9/1/2025	9/15/2025	9/17/2025
Gallo Canyon Unit 311H	TBD	7/6/2025	8/16/2025	9/1/2025	9/15/2025	9/17/2025
Gallo Canyon Unit 315H	TBD	7/7/2025	8/17/2025	9/1/2025	9/15/2025	9/17/2025
Gallo Canyon Unit 316H	TBD	7/8/2025	8/18/2025	9/1/2025	9/20/2025	9/22/2025
Gallo Canyon Unit 401H	TBD	7/9/2025	8/19/2025	9/1/2025	9/20/2025	9/22/2025
Gallo Canyon Unit 402H	TBD	7/10/2025	8/20/2025	9/1/2025	9/20/2025	9/22/2025

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: 4/25/2025
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
Gallo Canyon Unit B26-2306 Pad
Nos. 310H, 311H, 315H, 316H, 401H and 402H Oil and Natural Gas Wells Project
NWNE B-26-23N-06W

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.



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NWNE B-26-23N-06W

VENTING and FLARING

DJR Operating, LLC (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



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OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

DJR Operating, LLC (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.



19.15.27.8 D. Venting and flaring during production operations

During Production Operations DJR will not vent or flare natural gas except under the following circumstances:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
 - a. DJR does not vent after the well achieves a stabilized rate and pressure.
 - b. DJR will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. DJR will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
 - a. DJR receives approval from the NMOCD.
 - b. DJR remains in compliance with the NM gas capture requirements.
 - c. DJR submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
 - a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

1. DJR has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. DJR will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it is designed with an auto ignition system.
3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.



- a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
 - 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.



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BEST MANAGEMENT PRACTICES

DJR Operating, LLC (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

Gallo Canyon Unit 402H

Sandoval County, New Mexico

Surface Location

1416-ft FEL & 927-ft FNL
 Sec 26 T23N R06W
 Graded Elevation 6930' MSL
 RKB Elevation 6944' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.2008580° N
 Longitude 107.4336750° W

Kick Off Point for Horizontal Build Curve

4548-ft MD
 4453-ft TVD

Local Coordinates (from SHL)

704-ft South
 487-ft West

Heel Location (Pay zone entry)

2456-ft FEL & 1295-ft FNL
 Sec 26 T23N R06W

Heel Geographical Coordinates (NAD-83)

Latitude 36.1998584° N
 Longitude 107.43720037° W

Bottom Hole Location (TD)

1890-ft FWL & 347-ft FNL
 Sec 22 T23N R06W

BHL Geographical Coordinates (NAD-83)

Latitude 36.2167593° N
 Longitude 107.4582737° W

Well objectives

This well is planned as a 8750-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 140°F. Bottom hole pressure in the Mancos Silt 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	1446	1431	Sd	W	8.3	8.4 – 8.8
Kirtland	1558	1540	Sh	-	8.3	8.4 – 8.8
Fruitland	1757	1734	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1968	1940	Sd	W	8.3	9.0 - 9.5
Lewis	2087	2056	Sh	-		9.0 - 9.5
Chacra	2842	2791	Sd	-	8.3	9.0 - 9.5
Menefee	3568	3498	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4261	4173	Sd	-	8.3	9.0 - 9.5
Mancos	4458	4365	Sh	-		9.0 - 9.5
Mancos Silt	4875	4760	Slt	O/G	6.6	9.0 - 9.5
Gallup A	NP	5249	Slt	O/G	6.6	9.0 - 9.5
Gallup B	NP	NP	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5570	5096	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	5517	surf	5095	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5231	14316	5010	5151	5231

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

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

7" Intermediate Casing

	Lead	Tail
	BJ Services	BJ Services
Type	III	Poz/G
Planned top	Surface	4048-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	393	235
Volume (bbls)	164	63
Volume (cu.ft.)	920	351
Excess %	55	55



Rev 0

4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5231-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	764
Volume (bbls)	213
Volume (cu.ft)	1194
Excess %	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 – 5517	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5517 – 14316	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.

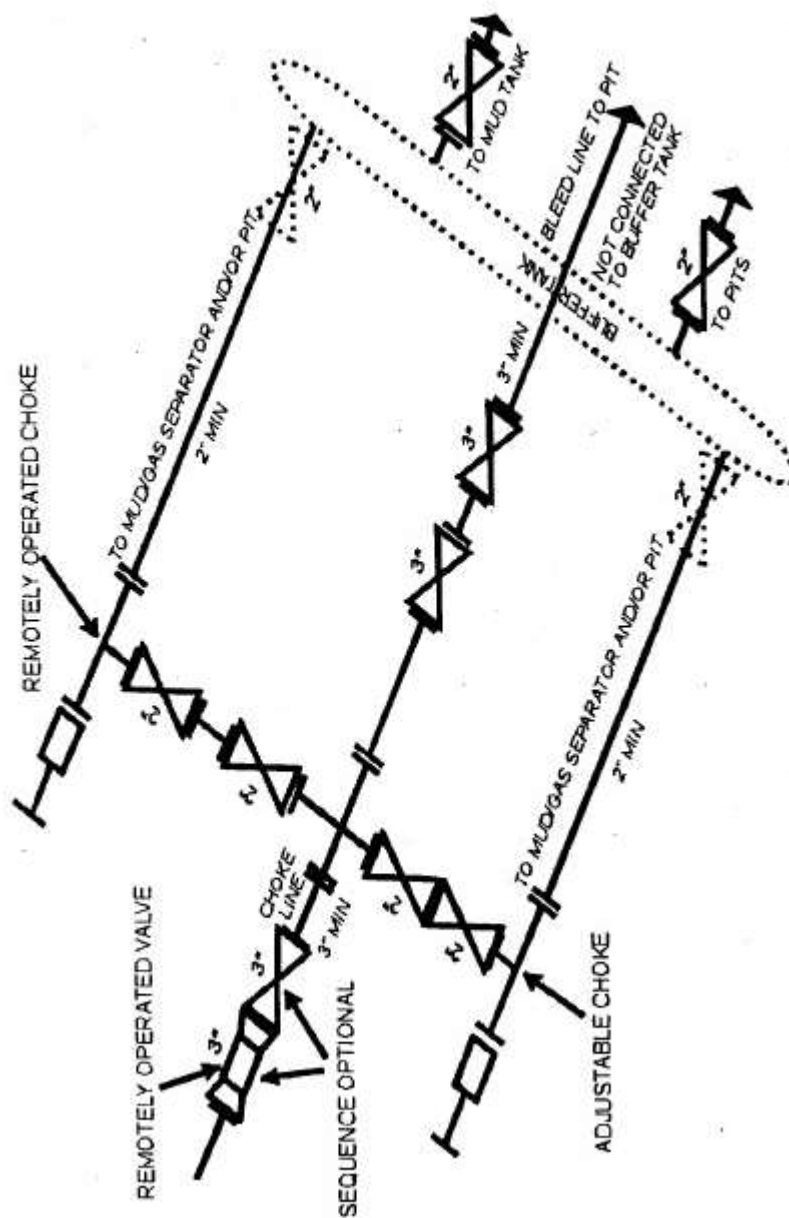
Completion

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.



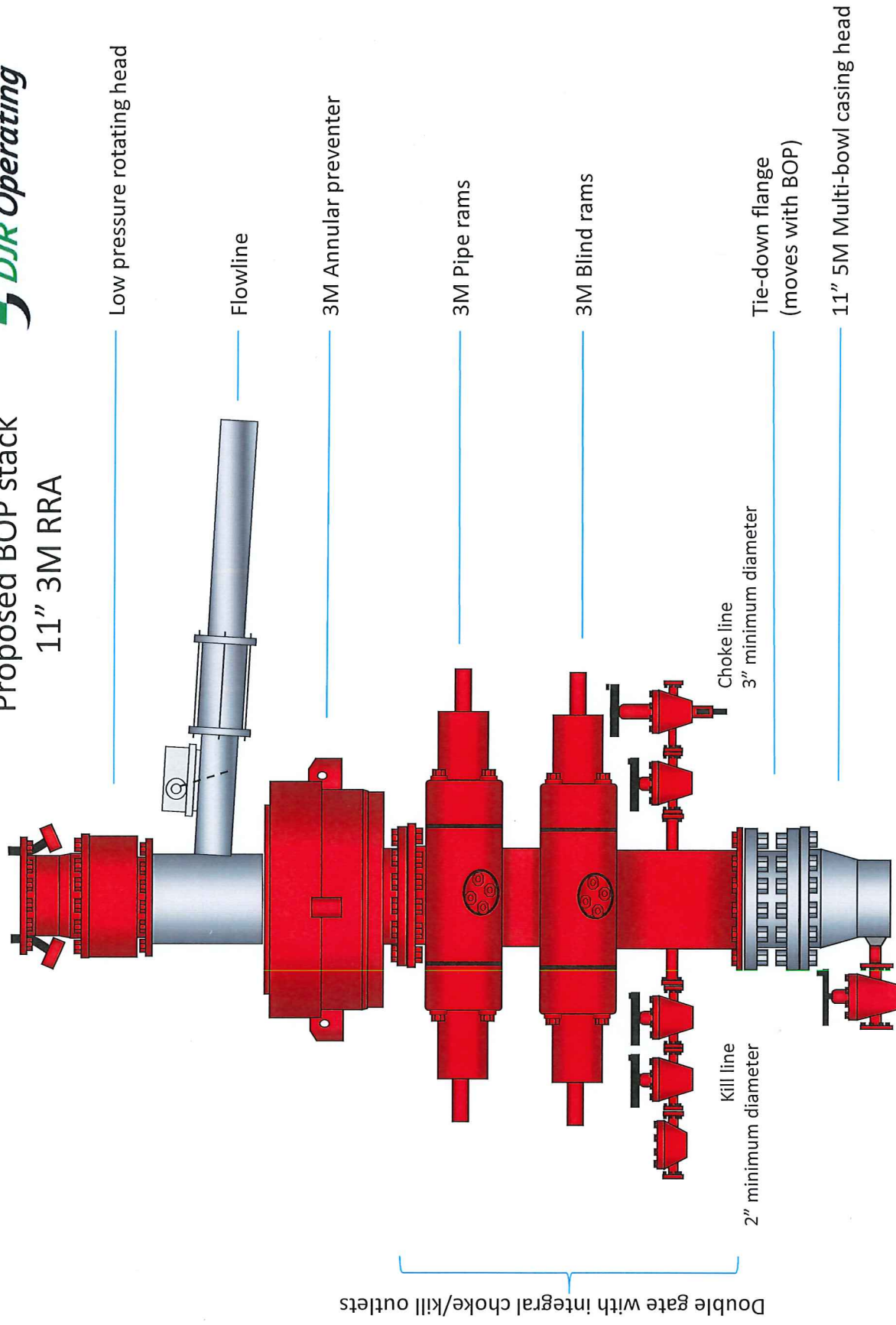
Choke Manifold

Actual system to conform with Onshore Order 2





Proposed BOP stack 11" 3M RRA





Company: DJR Operating
Project: Gallo Canyon Unit
Site: B26 2306 Pad
Well: # 402H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: # 402H

			GL 6930' & RKB 14' @ 6944ft	Latitude	Longitude
+N/-S	+E/-W	Northing	Easting	36.20085800	-107.43367500
0	0	1892652.66	2841005.36		

PROJECT DETAILS: Gallo Canyon 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

Plan: APD (# 402H/Original Drilling)
Created By: Janie Collins Date: 12:19, July 23 2021

DESIGN TARGET DETAILS

Point	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
402H Heel Rev 1	5098	-364	5789	1892284.52	2839966.72	36.19985940	-107.43720037
402H Toe	5151	-7266		1898412.12	2833725.43	36.21675930	-107.45827370

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
450	0.00	0.00	450	0	0	0.00	0.00	0
1106	13.12	214.68	1100	-62	-43	2.00	214.68	-5
5946	89.65	314.71	5098	-364	5789	0.00	90.00	-58
5516	89.65	314.71	5151	-7266	0.00	0.00	90.00	598
14316	89.65	314.71				0.00		9283

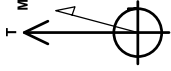
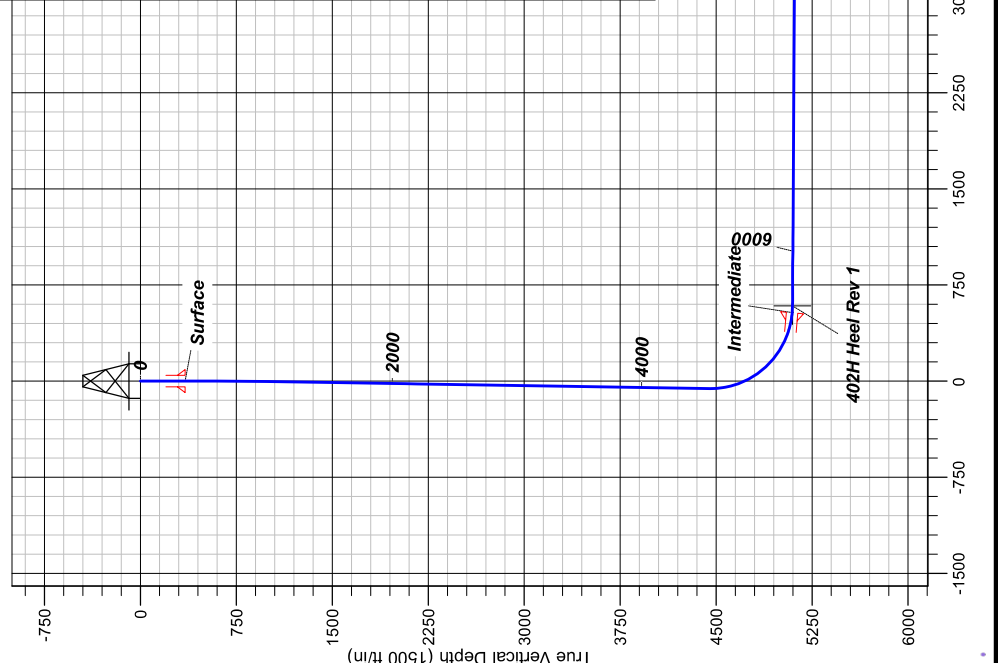
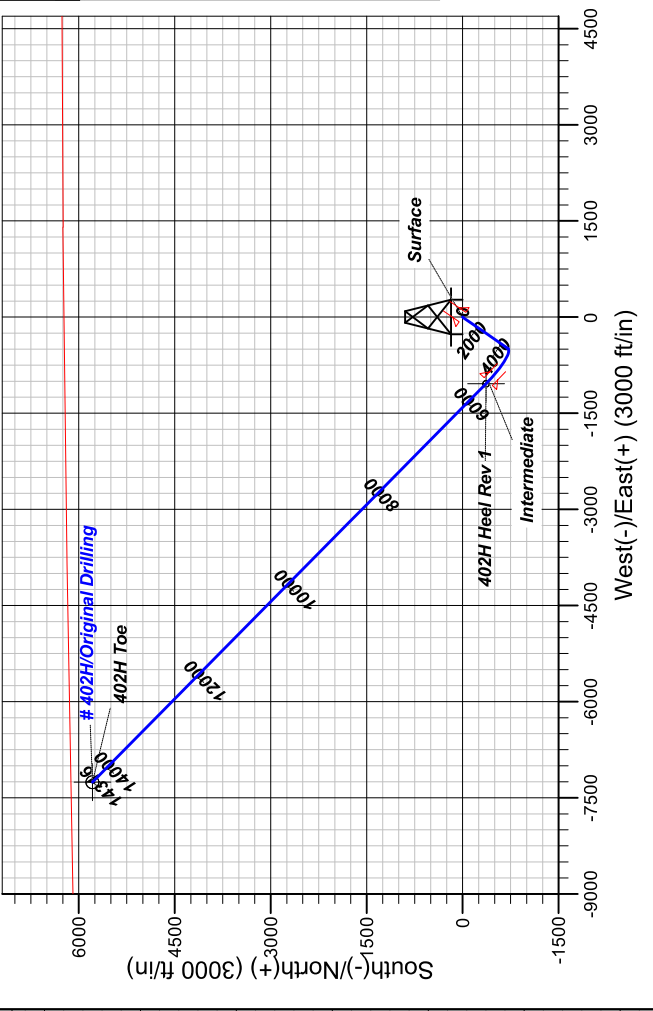
SECTION DETAILS

CASING DETAILS

TVD	MD	Name
350	350	Surface
5095	5517	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
1431	1446	Ojo Alamo
1540	1558	Kirtland
1734	1757	Fruitland
1940	1968	Pictured Cliffs
2056	2087	Lewis
2791	2842	Chacra
3498	3568	Menefee
4173	4261	Point Lookout
4365	4458	Mancos
4760	4875	Mancos Silt



Azimuths to True North
Magnetic North: 10.2°
Strength: 51255.5
Dip Angle: 63.1°
Date: 12/31/2004
Model: IGRF2000





DJR Operating

Gallo Canyon Unit

B26 2306 Pad

402H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

23 July, 2021





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 402H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site:	B26 2306 Pad	North Reference:	True
Well:	# 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Project	Gallo Canyon Unit, Sandoval County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	B26 2306 Pad				
Site Position:		Northing:	1,892,645.83 usft	Latitude:	36.20083900
From:	Lat/Long	Easting:	2,841,024.27 usft	Longitude:	-107.43361100
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence:	0.24

Well	# 402H - Slot 2					
Well Position	+N/-S	7 ft	Northing:	1,892,652.67 usft	Latitude:	36.20085800
	+E/-W	-19 ft	Easting:	2,841,005.36 usft	Longitude:	-107.43367500
Position Uncertainty		0 ft	Wellhead Elevation:		Ground Level:	6930 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	10.72	63.27	51,255.12261286

Design	APD			
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	308.59

Plan Survey Tool Program	Date	7/15/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	14,316 APD (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	
450	0.00	0.00	450	0	0	0.00	0.00	0.00	0.00	
1106	13.12	214.68	1100	-62	-43	2.00	2.00	0.00	214.68	
4548	13.12	214.68	4453	-704	-487	0.00	0.00	0.00	0.00	
5570	89.65	314.71	5098	-364	-1040	9.00	7.49	9.79	99.85	402H Heel Rev 1
14,316	89.65	314.71	5151	5789	-7256	0.00	0.00	0.00	0.00	402H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 402H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site:	B26 2306 Pad	North Reference:	True
Well:	# 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

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
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
450	0.00	0.00	450	0	0	0	0.00	0.00	0.00
500	1.00	214.68	500	0	0	0	2.00	2.00	0.00
600	3.00	214.68	600	-3	-2	0	2.00	2.00	0.00
700	5.00	214.68	700	-9	-6	-1	2.00	2.00	0.00
800	7.00	214.68	799	-18	-12	-1	2.00	2.00	0.00
900	9.00	214.68	898	-29	-20	-2	2.00	2.00	0.00
1000	11.00	214.68	997	-43	-30	-4	2.00	2.00	0.00
1100	13.00	214.68	1094	-60	-42	-5	2.00	2.00	0.00
1106	13.12	214.68	1100	-62	-43	-5	2.00	2.00	0.00
1200	13.12	214.68	1192	-79	-55	-7	0.00	0.00	0.00
1300	13.12	214.68	1289	-98	-68	-8	0.00	0.00	0.00
1400	13.12	214.68	1387	-116	-81	-10	0.00	0.00	0.00
1500	13.12	214.68	1484	-135	-93	-11	0.00	0.00	0.00
1600	13.12	214.68	1581	-154	-106	-13	0.00	0.00	0.00
1700	13.12	214.68	1679	-172	-119	-14	0.00	0.00	0.00
1800	13.12	214.68	1776	-191	-132	-16	0.00	0.00	0.00
1900	13.12	214.68	1874	-210	-145	-17	0.00	0.00	0.00
2000	13.12	214.68	1971	-228	-158	-19	0.00	0.00	0.00
2100	13.12	214.68	2068	-247	-171	-20	0.00	0.00	0.00
2200	13.12	214.68	2166	-266	-184	-22	0.00	0.00	0.00
2300	13.12	214.68	2263	-284	-197	-24	0.00	0.00	0.00
2400	13.12	214.68	2360	-303	-210	-25	0.00	0.00	0.00
2500	13.12	214.68	2458	-322	-223	-27	0.00	0.00	0.00
2600	13.12	214.68	2555	-340	-236	-28	0.00	0.00	0.00
2700	13.12	214.68	2653	-359	-248	-30	0.00	0.00	0.00
2800	13.12	214.68	2750	-378	-261	-31	0.00	0.00	0.00
2900	13.12	214.68	2847	-396	-274	-33	0.00	0.00	0.00
3000	13.12	214.68	2945	-415	-287	-34	0.00	0.00	0.00
3100	13.12	214.68	3042	-434	-300	-36	0.00	0.00	0.00
3200	13.12	214.68	3140	-452	-313	-37	0.00	0.00	0.00
3300	13.12	214.68	3237	-471	-326	-39	0.00	0.00	0.00
3400	13.12	214.68	3334	-490	-339	-41	0.00	0.00	0.00
3500	13.12	214.68	3432	-508	-352	-42	0.00	0.00	0.00
3600	13.12	214.68	3529	-527	-365	-44	0.00	0.00	0.00
3700	13.12	214.68	3627	-546	-378	-45	0.00	0.00	0.00
3800	13.12	214.68	3724	-564	-391	-47	0.00	0.00	0.00
3900	13.12	214.68	3821	-583	-403	-48	0.00	0.00	0.00
4000	13.12	214.68	3919	-602	-416	-50	0.00	0.00	0.00
4100	13.12	214.68	4016	-620	-429	-51	0.00	0.00	0.00
4200	13.12	214.68	4113	-639	-442	-53	0.00	0.00	0.00
4300	13.12	214.68	4211	-658	-455	-54	0.00	0.00	0.00
4400	13.12	214.68	4308	-676	-468	-56	0.00	0.00	0.00
4500	13.12	214.68	4406	-695	-481	-58	0.00	0.00	0.00
4548	13.12	214.68	4453	-704	-487	-58	0.00	0.00	0.00
4600	13.14	235.31	4503	-712	-495	-57	9.00	0.03	39.82
4700	17.16	266.77	4600	-720	-520	-43	9.00	4.02	31.46
4800	23.98	283.73	4693	-716	-554	-13	9.00	6.83	16.97
4900	31.86	293.12	4782	-700	-598	31	9.00	7.88	9.39
5000	40.18	299.02	4863	-674	-651	88	9.00	8.31	5.90



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 402H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site:	B26 2306 Pad	North Reference:	True
Well:	# 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5100	48.70	303.16	4934	-638	-711	157	9.00	8.52	4.14
5200	57.34	306.33	4994	-593	-776	237	9.00	8.64	3.17
5300	66.04	308.94	5041	-539	-846	325	9.00	8.70	2.61
5400	74.78	311.21	5075	-478	-918	419	9.00	8.74	2.27
5500	83.55	313.30	5094	-412	-990	517	9.00	8.76	2.09
5570	89.65	314.71	5098	-364	-1040	586	9.00	8.77	2.02
5600	89.65	314.71	5098	-342	-1062	616	0.00	0.00	0.00
5700	89.65	314.71	5099	-272	-1133	716	0.00	0.00	0.00
5800	89.65	314.71	5099	-202	-1204	815	0.00	0.00	0.00
5900	89.65	314.71	5100	-131	-1275	915	0.00	0.00	0.00
6000	89.65	314.71	5100	-61	-1346	1014	0.00	0.00	0.00
6100	89.65	314.71	5101	9	-1417	1113	0.00	0.00	0.00
6200	89.65	314.71	5102	80	-1488	1213	0.00	0.00	0.00
6300	89.65	314.71	5102	150	-1559	1312	0.00	0.00	0.00
6400	89.65	314.71	5103	220	-1630	1412	0.00	0.00	0.00
6500	89.65	314.71	5103	291	-1701	1511	0.00	0.00	0.00
6600	89.65	314.71	5104	361	-1772	1611	0.00	0.00	0.00
6700	89.65	314.71	5105	431	-1843	1710	0.00	0.00	0.00
6800	89.65	314.71	5105	502	-1915	1809	0.00	0.00	0.00
6900	89.65	314.71	5106	572	-1986	1909	0.00	0.00	0.00
7000	89.65	314.71	5107	642	-2057	2008	0.00	0.00	0.00
7100	89.65	314.71	5107	713	-2128	2108	0.00	0.00	0.00
7200	89.65	314.71	5108	783	-2199	2207	0.00	0.00	0.00
7300	89.65	314.71	5108	853	-2270	2307	0.00	0.00	0.00
7400	89.65	314.71	5109	924	-2341	2406	0.00	0.00	0.00
7500	89.65	314.71	5110	994	-2412	2505	0.00	0.00	0.00
7600	89.65	314.71	5110	1065	-2483	2605	0.00	0.00	0.00
7700	89.65	314.71	5111	1135	-2554	2704	0.00	0.00	0.00
7800	89.65	314.71	5111	1205	-2625	2804	0.00	0.00	0.00
7900	89.65	314.71	5112	1276	-2696	2903	0.00	0.00	0.00
8000	89.65	314.71	5113	1346	-2767	3003	0.00	0.00	0.00
8100	89.65	314.71	5113	1416	-2838	3102	0.00	0.00	0.00
8200	89.65	314.71	5114	1487	-2909	3201	0.00	0.00	0.00
8300	89.65	314.71	5114	1557	-2981	3301	0.00	0.00	0.00
8400	89.65	314.71	5115	1627	-3052	3400	0.00	0.00	0.00
8500	89.65	314.71	5116	1698	-3123	3500	0.00	0.00	0.00
8600	89.65	314.71	5116	1768	-3194	3599	0.00	0.00	0.00
8700	89.65	314.71	5117	1838	-3265	3699	0.00	0.00	0.00
8800	89.65	314.71	5117	1909	-3336	3798	0.00	0.00	0.00
8900	89.65	314.71	5118	1979	-3407	3897	0.00	0.00	0.00
9000	89.65	314.71	5119	2049	-3478	3997	0.00	0.00	0.00
9100	89.65	314.71	5119	2120	-3549	4096	0.00	0.00	0.00
9200	89.65	314.71	5120	2190	-3620	4196	0.00	0.00	0.00
9300	89.65	314.71	5120	2260	-3691	4295	0.00	0.00	0.00
9400	89.65	314.71	5121	2331	-3762	4395	0.00	0.00	0.00
9500	89.65	314.71	5122	2401	-3833	4494	0.00	0.00	0.00
9600	89.65	314.71	5122	2472	-3904	4593	0.00	0.00	0.00
9700	89.65	314.71	5123	2542	-3975	4693	0.00	0.00	0.00
9800	89.65	314.71	5124	2612	-4047	4792	0.00	0.00	0.00
9900	89.65	314.71	5124	2683	-4118	4892	0.00	0.00	0.00
10,000	89.65	314.71	5125	2753	-4189	4991	0.00	0.00	0.00
10,100	89.65	314.71	5125	2823	-4260	5091	0.00	0.00	0.00
10,200	89.65	314.71	5126	2894	-4331	5190	0.00	0.00	0.00
10,300	89.65	314.71	5127	2964	-4402	5289	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 402H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site:	B26 2306 Pad	North Reference:	True
Well:	# 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400	89.65	314.71	5127	3034	-4473	5389	0.00	0.00	0.00
10,500	89.65	314.71	5128	3105	-4544	5488	0.00	0.00	0.00
10,600	89.65	314.71	5128	3175	-4615	5588	0.00	0.00	0.00
10,700	89.65	314.71	5129	3245	-4686	5687	0.00	0.00	0.00
10,800	89.65	314.71	5130	3316	-4757	5787	0.00	0.00	0.00
10,900	89.65	314.71	5130	3386	-4828	5886	0.00	0.00	0.00
11,000	89.65	314.71	5131	3456	-4899	5985	0.00	0.00	0.00
11,100	89.65	314.71	5131	3527	-4970	6085	0.00	0.00	0.00
11,200	89.65	314.71	5132	3597	-5041	6184	0.00	0.00	0.00
11,300	89.65	314.71	5133	3667	-5113	6284	0.00	0.00	0.00
11,400	89.65	314.71	5133	3738	-5184	6383	0.00	0.00	0.00
11,500	89.65	314.71	5134	3808	-5255	6483	0.00	0.00	0.00
11,600	89.65	314.71	5134	3879	-5326	6582	0.00	0.00	0.00
11,700	89.65	314.71	5135	3949	-5397	6681	0.00	0.00	0.00
11,800	89.65	314.71	5136	4019	-5468	6781	0.00	0.00	0.00
11,900	89.65	314.71	5136	4090	-5539	6880	0.00	0.00	0.00
12,000	89.65	314.71	5137	4160	-5610	6980	0.00	0.00	0.00
12,100	89.65	314.71	5138	4230	-5681	7079	0.00	0.00	0.00
12,200	89.65	314.71	5138	4301	-5752	7179	0.00	0.00	0.00
12,300	89.65	314.71	5139	4371	-5823	7278	0.00	0.00	0.00
12,400	89.65	314.71	5139	4441	-5894	7377	0.00	0.00	0.00
12,500	89.65	314.71	5140	4512	-5965	7477	0.00	0.00	0.00
12,600	89.65	314.71	5141	4582	-6036	7576	0.00	0.00	0.00
12,700	89.65	314.71	5141	4652	-6107	7676	0.00	0.00	0.00
12,800	89.65	314.71	5142	4723	-6179	7775	0.00	0.00	0.00
12,900	89.65	314.71	5142	4793	-6250	7875	0.00	0.00	0.00
13,000	89.65	314.71	5143	4863	-6321	7974	0.00	0.00	0.00
13,100	89.65	314.71	5144	4934	-6392	8073	0.00	0.00	0.00
13,200	89.65	314.71	5144	5004	-6463	8173	0.00	0.00	0.00
13,300	89.65	314.71	5145	5074	-6534	8272	0.00	0.00	0.00
13,400	89.65	314.71	5145	5145	-6605	8372	0.00	0.00	0.00
13,500	89.65	314.71	5146	5215	-6676	8471	0.00	0.00	0.00
13,600	89.65	314.71	5147	5286	-6747	8571	0.00	0.00	0.00
13,700	89.65	314.71	5147	5356	-6818	8670	0.00	0.00	0.00
13,800	89.65	314.71	5148	5426	-6889	8769	0.00	0.00	0.00
13,900	89.65	314.71	5148	5497	-6960	8869	0.00	0.00	0.00
14,000	89.65	314.71	5149	5567	-7031	8968	0.00	0.00	0.00
14,100	89.65	314.71	5150	5637	-7102	9068	0.00	0.00	0.00
14,200	89.65	314.71	5150	5708	-7174	9167	0.00	0.00	0.00
14,300	89.65	314.71	5151	5778	-7245	9267	0.00	0.00	0.00
14,316	89.65	314.71	5151	5789	-7256	9283	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 402H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site:	B26 2306 Pad	North Reference:	True
Well:	# 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
402H Heel Rev 1 - hit/miss target - Shape	0.00	0.00	5098	-364	-1040	1,892,284.52	2,839,966.73	36.19985840	-107.43720038
402H Toe - plan hits target center - Circle (radius 50)	0.00	0.00	5151	5789	-7256	1,898,412.12	2,833,725.43	36.21675930	-107.45827370

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
350	350	Surface	9.63	12.25	
5517	5095	Intermediate	7.00	8.75	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1446	1431	Ojo Alamo		0.00	0.00
1558	1540	Kirtland		0.00	0.00
1757	1734	Fruitland		0.00	0.00
1968	1940	Pictured Cliffs		0.00	0.00
2087	2056	Lewis		0.00	0.00
2842	2791	Chacra		0.00	0.00
3568	3498	Menefee		0.00	0.00
4261	4173	Point Lookout		0.00	0.00
4458	4365	Mancos		0.00	0.00
4875	4760	Mancos Silt		0.00	0.00



DJR Operating

Gallo Canyon Unit

B26 2306 Pad

402H

Original Drilling

APD

Anticollision Report

23 July, 2021





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Reference	APD		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/15/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	14,316	APD (Original Drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
B26 2306 Pad						
# 310H - Original Drilling - APD	464	464	40	37	13.697	CC
# 310H - Original Drilling - APD	500	500	40	37	12.694	ES
# 310H - Original Drilling - APD	14,316	14,383	456	194	1.738	SF
# 311H - Original Drilling - APD	470	470	20	17	6.742	CC
# 311H - Original Drilling - APD	600	600	21	17	5.411	ES
# 311H - Original Drilling - APD	5100	5033	167	129	4.364	SF
# 315H - Original Drilling - APD	303	303	60	58	33.931	CC
# 315H - Original Drilling - APD	400	399	60	58	24.594	ES
# 315H - Original Drilling - APD	1400	1390	115	105	11.088	SF
# 316H - Original Drilling - APD	459	459	80	77	27.697	CC, ES
# 316H - Original Drilling - APD	13,700	13,377	616	212	1.524	SF
# 401H - Original Drilling - APD	400	400	20	18	8.178	CC
# 401H - Original Drilling - APD	600	600	21	17	5.380	ES
# 401H - Original Drilling - APD	4500	4499	134	89	2.982	SF

Offset Design: B26 2306 Pad - # 310H - Original Drilling - APD													Offset Site Error: 0 ft	
Survey Program: Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0	0	0	0	0	0	-70.86	13	-38	40					
100	100	100	100	0	0	-70.86	13	-38	40	40	0.31	129.667		
200	200	200	200	1	1	-70.86	13	-38	40	39	1.03	38.991		
300	300	300	300	1	1	-70.86	13	-38	40	38	1.74	22.945		
400	400	400	400	1	1	-70.86	13	-38	40	38	2.46	16.256		
464	464	464	464	1	1	74.92	13	-38	40	37	2.91	13.697	CC	
500	500	500	500	2	2	74.55	13	-38	40	37	3.16	12.694	ES	
600	600	599	599	2	2	75.29	11	-41	41	37	3.83	10.759		
700	700	698	698	2	2	76.64	7	-47	43	39	4.52	9.593		
800	799	797	796	3	3	78.42	1	-55	47	41	5.25	8.900		
900	898	896	894	3	3	80.43	-7	-66	51	45	6.02	8.506		
1000	997	995	992	3	3	82.47	-17	-80	57	50	6.85	8.305		
1100	1094	1094	1088	4	4	84.42	-28	-97	64	56	7.75	8.224		
1200	1192	1193	1184	4	4	85.14	-42	-116	72	63	8.71	8.254		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 310H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1300	1289	1292	1280	5	5	84.10	-57	-137	81	71	9.72	8.351		
1400	1387	1391	1376	5	5	83.20	-72	-159	90	80	10.75	8.414		
1500	1484	1491	1472	6	6	82.47	-88	-180	100	88	11.80	8.456		
1600	1581	1590	1568	6	7	81.86	-103	-202	109	96	12.87	8.484		
1700	1679	1690	1664	7	7	81.35	-118	-224	119	105	13.94	8.502		
1800	1776	1790	1760	8	8	80.91	-133	-245	128	113	15.02	8.515		
1900	1874	1889	1856	8	8	80.53	-149	-267	137	121	16.10	8.523		
2000	1971	1989	1952	9	9	80.20	-164	-288	147	129	17.19	8.528		
2100	2068	2088	2048	9	10	79.92	-179	-310	156	138	18.28	8.531		
2200	2166	2188	2144	10	10	79.66	-194	-331	165	146	19.38	8.533		
2300	2263	2287	2240	10	11	79.43	-210	-353	175	154	20.48	8.534		
2400	2360	2387	2336	11	11	79.22	-225	-375	184	163	21.58	8.533		
2500	2458	2486	2432	11	12	79.04	-240	-396	194	171	22.68	8.533		
2600	2555	2586	2528	12	13	78.87	-255	-418	203	179	23.79	8.531		
2700	2653	2686	2624	13	13	78.72	-271	-439	212	187	24.89	8.530		
2800	2750	2785	2720	13	14	78.58	-286	-461	222	196	26.00	8.528		
2900	2847	2885	2816	14	15	78.45	-301	-482	231	204	27.11	8.527		
3000	2945	2984	2912	14	15	78.33	-316	-504	241	212	28.22	8.525		
3100	3042	3084	3008	15	16	78.22	-331	-526	250	221	29.32	8.523		
3200	3140	3183	3104	15	16	78.12	-347	-547	259	229	30.43	8.521		
3300	3237	3283	3200	16	17	78.02	-362	-569	269	237	31.55	8.519		
3400	3334	3382	3296	16	18	77.93	-377	-590	278	245	32.66	8.517		
3500	3432	3482	3392	17	18	77.85	-392	-612	288	254	33.77	8.515		
3600	3529	3582	3488	18	19	77.77	-408	-633	297	262	34.88	8.513		
3700	3627	3681	3584	18	19	77.70	-423	-655	306	270	35.99	8.511		
3800	3724	3781	3680	19	20	77.63	-438	-677	316	279	37.10	8.510		
3900	3821	3880	3776	19	21	77.57	-453	-698	325	287	38.22	8.508		
4000	3919	3980	3872	20	21	77.51	-469	-720	335	295	39.33	8.506		
4100	4016	4079	3968	20	22	77.45	-484	-741	344	304	40.44	8.504		
4200	4113	4179	4064	21	23	77.39	-499	-763	353	312	41.56	8.503		
4300	4211	4278	4160	21	23	77.34	-514	-784	363	320	42.67	8.501		
4400	4308	4378	4256	22	24	77.29	-530	-806	372	328	43.79	8.500		
4500	4406	4478	4352	23	24	77.25	-545	-827	382	337	44.90	8.498		
4600	4503	4577	4448	23	25	77.09	-560	-849	389	343	45.99	8.460		
4700	4600	4677	4544	24	26	25.50	-575	-871	384	337	46.88	8.187		
4800	4693	4774	4637	24	26	6.81	-590	-892	365	317	47.46	7.682		
4900	4782	4866	4727	25	27	-6.47	-604	-912	333	285	47.57	6.991		
5000	4863	4952	4809	25	27	-19.46	-617	-930	290	243	46.91	6.187		
5100	4934	5028	4882	25	28	-35.16	-629	-947	242	197	44.94	5.384		
5200	4994	5087	4940	26	28	-52.48	-637	-960	197	156	41.29	4.780		
5300	5041	5143	4993	26	29	-69.90	-642	-976	173	134	39.72	4.364		
5321	5050	5155	5004	26	29	-73.44	-642	-980	172	132	40.43	4.267		
5400	5075	5200	5047	27	29	-85.32	-643	-996	184	139	45.52	4.052		
5500	5094	5260	5101	27	29	-96.95	-640	-1020	230	178	51.55	4.452		
5600	5098	5326	5159	28	30	-107.46	-631	-1050	296	242	53.84	5.490		
5700	5099	5421	5237	29	30	-122.71	-611	-1100	368	315	53.12	6.921		
5800	5099	5580	5349	31	32	-135.46	-556	-1198	433	385	48.66	8.907		
5900	5100	5845	5468	32	34	-142.99	-414	-1385	477	439	38.00	12.549		
6000	5100	6067	5492	34	36	-144.16	-263	-1545	483	450	32.80	14.730		
6100	5101	6167	5493	35	37	-144.22	-192	-1615	483	448	35.17	13.727		
6200	5102	6267	5493	37	39	-144.27	-121	-1686	482	445	37.53	12.857		
6300	5102	6367	5494	39	40	-144.33	-50	-1756	482	442	40.11	12.019		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 310H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (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		
6400	5103	6467	5495	41	42	-144.39	20	-1827	482	439	42.75	11.269		
6500	5103	6567	5495	43	43	-144.45	91	-1898	481	436	45.44	10.595		
6600	5104	6667	5496	45	45	-144.50	162	-1968	481	433	48.17	9.987		
6700	5105	6767	5496	47	47	-144.56	233	-2039	481	430	50.94	9.437		
6800	5105	6867	5497	49	49	-144.62	304	-2110	480	427	53.74	8.939		
6900	5106	6967	5498	52	51	-144.68	374	-2180	480	423	56.57	8.486		
7000	5107	7067	5498	54	53	-144.73	445	-2251	480	420	59.42	8.073		
7100	5107	7167	5499	56	55	-144.79	516	-2322	479	417	62.28	7.696		
7200	5108	7267	5499	58	57	-144.85	587	-2392	479	414	65.16	7.351		
7300	5108	7367	5500	61	59	-144.91	657	-2463	479	411	68.05	7.034		
7400	5109	7467	5501	63	61	-144.97	728	-2534	478	407	70.95	6.742		
7500	5110	7567	5501	65	63	-145.02	799	-2604	478	404	73.85	6.472		
7600	5110	7667	5502	67	65	-145.08	870	-2675	478	401	76.77	6.222		
7700	5111	7767	5502	70	68	-145.14	940	-2746	477	398	79.68	5.990		
7800	5111	7867	5503	72	70	-145.20	1011	-2816	477	394	82.60	5.775		
7900	5112	7967	5504	75	72	-145.26	1082	-2887	477	391	85.51	5.574		
8000	5113	8067	5504	77	74	-145.32	1153	-2957	476	388	88.43	5.386		
8100	5113	8167	5505	79	77	-145.38	1224	-3028	476	385	91.35	5.210		
8200	5114	8267	5505	82	79	-145.43	1294	-3099	476	381	94.27	5.045		
8300	5114	8367	5506	84	81	-145.49	1365	-3169	475	378	97.19	4.890		
8400	5115	8467	5507	86	84	-145.55	1436	-3240	475	375	100.10	4.745		
8500	5116	8567	5507	89	86	-145.61	1507	-3311	475	372	103.01	4.607		
8600	5116	8667	5508	91	88	-145.67	1577	-3381	474	368	105.92	4.477		
8700	5117	8767	5509	94	91	-145.73	1648	-3452	474	365	108.83	4.355		
8800	5117	8867	5509	96	93	-145.79	1719	-3523	474	362	111.73	4.239		
8900	5118	8967	5510	98	95	-145.85	1790	-3593	473	359	114.63	4.129		
9000	5119	9067	5510	101	98	-145.91	1860	-3664	473	355	117.53	4.024		
9100	5119	9167	5511	103	100	-145.97	1931	-3735	473	352	120.42	3.925		
9200	5120	9267	5512	106	102	-146.03	2002	-3805	472	349	123.30	3.830		
9300	5120	9367	5512	108	105	-146.09	2073	-3876	472	346	126.19	3.740		
9400	5121	9467	5513	111	107	-146.15	2144	-3947	472	343	129.06	3.654		
9500	5122	9567	5513	113	110	-146.21	2214	-4017	471	339	131.93	3.572		
9600	5122	9667	5514	115	112	-146.27	2285	-4088	471	336	134.80	3.494		
9700	5123	9767	5515	118	114	-146.33	2356	-4158	471	333	137.66	3.419		
9800	5124	9867	5515	120	117	-146.39	2427	-4229	470	330	140.51	3.347		
9900	5124	9967	5516	123	119	-146.45	2497	-4300	470	327	143.36	3.278		
10,000	5125	10,067	5516	125	122	-146.51	2568	-4370	470	323	146.21	3.212		
10,100	5125	10,167	5517	128	124	-146.57	2639	-4441	469	320	149.04	3.149		
10,200	5126	10,267	5518	130	126	-146.63	2710	-4512	469	317	151.88	3.088		
10,300	5127	10,367	5518	132	129	-146.69	2780	-4582	469	314	154.70	3.029		
10,400	5127	10,467	5519	135	131	-146.75	2851	-4653	468	311	157.52	2.973		
10,500	5128	10,567	5519	137	134	-146.81	2922	-4724	468	308	160.33	2.919		
10,600	5128	10,667	5520	140	136	-146.87	2993	-4794	468	305	163.14	2.867		
10,700	5129	10,767	5521	142	138	-146.93	3064	-4865	467	301	165.94	2.816		
10,800	5130	10,867	5521	145	141	-146.99	3134	-4936	467	298	168.73	2.768		
10,900	5130	10,967	5522	147	143	-147.05	3205	-5006	467	295	171.52	2.721		
11,000	5131	11,067	5522	150	146	-147.12	3276	-5077	466	292	174.30	2.676		
11,100	5131	11,167	5523	152	148	-147.18	3347	-5148	466	289	177.07	2.632		
11,200	5132	11,267	5524	155	151	-147.24	3417	-5218	466	286	179.84	2.590		
11,300	5133	11,367	5524	157	153	-147.30	3488	-5289	465	283	182.60	2.549		
11,400	5133	11,467	5525	159	155	-147.36	3559	-5359	465	280	185.35	2.509		
11,500	5134	11,567	5526	162	158	-147.42	3630	-5430	465	277	188.10	2.471		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 310H - Original Drilling - APD													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		
11,600	5134	11,667	5526	164	160	-147.49	3700	-5501	464	274	190.83	2.434		
11,700	5135	11,767	5527	167	163	-147.55	3771	-5571	464	271	193.57	2.398		
11,800	5136	11,867	5527	169	165	-147.61	3842	-5642	464	268	196.29	2.363		
11,900	5136	11,967	5528	172	168	-147.67	3913	-5713	463	264	199.01	2.329		
12,000	5137	12,067	5529	174	170	-147.73	3984	-5783	463	261	201.72	2.296		
12,100	5138	12,167	5529	177	173	-147.79	4054	-5854	463	258	204.42	2.264		
12,200	5138	12,267	5530	179	175	-147.86	4125	-5925	463	255	207.12	2.233		
12,300	5139	12,367	5530	182	177	-147.92	4196	-5995	462	252	209.81	2.203		
12,400	5139	12,467	5531	184	180	-147.98	4267	-6066	462	249	212.49	2.174		
12,500	5140	12,567	5532	187	182	-148.04	4337	-6137	462	246	215.16	2.145		
12,600	5141	12,667	5532	189	185	-148.11	4408	-6207	461	243	217.83	2.118		
12,700	5141	12,767	5533	191	187	-148.17	4479	-6278	461	240	220.49	2.091		
12,800	5142	12,867	5533	194	190	-148.23	4550	-6348	461	238	223.14	2.064		
12,900	5142	12,967	5534	196	192	-148.30	4620	-6419	460	235	225.78	2.039		
13,000	5143	13,067	5535	199	195	-148.36	4691	-6490	460	232	228.42	2.014		
13,100	5144	13,167	5535	201	197	-148.42	4762	-6560	460	229	231.05	1.990		
13,200	5144	13,267	5536	204	200	-148.48	4833	-6631	459	226	233.67	1.966		
13,300	5145	13,367	5536	206	202	-148.55	4904	-6702	459	223	236.28	1.943		
13,400	5145	13,467	5537	209	204	-148.61	4974	-6772	459	220	238.89	1.920		
13,500	5146	13,567	5538	211	207	-148.67	5045	-6843	458	217	241.49	1.898		
13,600	5147	13,667	5538	214	209	-148.74	5116	-6914	458	214	244.08	1.877		
13,700	5147	13,767	5539	216	212	-148.80	5187	-6984	458	211	246.66	1.856		
13,800	5148	13,867	5539	219	214	-148.86	5257	-7055	458	208	249.24	1.836		
13,900	5148	13,967	5540	221	217	-148.93	5328	-7126	457	205	251.81	1.816		
14,000	5149	14,067	5541	224	219	-148.99	5399	-7196	457	203	254.37	1.796		
14,100	5150	14,167	5541	226	222	-149.06	5470	-7267	457	200	256.92	1.777		
14,200	5150	14,267	5542	229	224	-149.12	5540	-7338	456	197	259.46	1.759		
14,300	5151	14,367	5543	231	227	-149.18	5611	-7408	456	194	262.00	1.740		
14,316	5151	14,383	5543	231	227	-149.19	5623	-7420	456	194	262.41	1.738 SF		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 311H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Rule Assigned:												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	-70.86	7	-19	20					
100	100	100	100	0	0	-70.86	7	-19	20	20	0.31	64.833		
200	200	200	200	1	1	-70.86	7	-19	20	19	1.03	19.495		
300	300	300	300	1	1	-70.86	7	-19	20	18	1.74	11.473		
400	400	400	400	1	1	-70.86	7	-19	20	18	2.46	8.128		
470	470	470	470	1	1	75.47	7	-19	20	17	2.95	6.742 CC		
500	500	500	500	2	2	74.55	6	-19	20	17	3.16	6.351		
600	600	600	599	2	2	75.27	4	-22	21	17	3.83	5.411 ES		
700	700	699	699	2	2	76.57	-1	-27	22	18	4.52	4.869		
800	799	799	798	3	3	78.25	-8	-34	24	19	5.25	4.570		
900	898	898	897	3	3	80.10	-18	-44	27	21	6.03	4.424		
1000	997	998	995	3	3	81.93	-30	-57	30	23	6.87	4.373		
1100	1094	1098	1092	4	4	83.63	-44	-72	34	26	7.79	4.381		
1200	1192	1197	1189	4	4	83.00	-60	-89	39	30	8.76	4.455		
1300	1289	1297	1285	5	5	79.80	-79	-108	45	35	9.76	4.580		
1400	1387	1397	1381	5	6	77.28	-97	-127	51	40	10.78	4.687		
1500	1484	1496	1477	6	6	75.28	-115	-146	56	45	11.80	4.778		
1600	1581	1596	1574	6	7	73.66	-133	-165	62	49	12.84	4.856		
1700	1679	1696	1670	7	7	72.33	-151	-184	68	54	13.87	4.924		
1800	1776	1796	1766	8	8	71.21	-169	-203	74	59	14.91	4.984		
1900	1874	1896	1863	8	8	70.26	-188	-222	80	64	15.96	5.036		
2000	1971	1996	1959	9	9	69.44	-206	-241	86	69	17.00	5.083		
2100	2068	2095	2055	9	10	68.72	-224	-260	92	74	18.05	5.124		
2200	2166	2195	2152	10	10	68.10	-242	-278	99	79	19.10	5.162		
2300	2263	2295	2248	10	11	67.55	-260	-297	105	85	20.15	5.195		
2400	2360	2395	2344	11	11	67.06	-278	-316	111	90	21.20	5.226		
2500	2458	2495	2440	11	12	66.62	-297	-335	117	95	22.25	5.254		
2600	2555	2594	2537	12	13	66.22	-315	-354	123	100	23.30	5.279		
2700	2653	2694	2633	13	13	65.86	-333	-373	129	105	24.35	5.302		
2800	2750	2794	2729	13	14	65.54	-351	-392	135	110	25.40	5.324		
2900	2847	2894	2826	14	14	65.24	-369	-411	141	115	26.46	5.343		
3000	2945	2994	2922	14	15	64.97	-387	-430	148	120	27.51	5.362		
3100	3042	3093	3018	15	16	64.72	-406	-449	154	125	28.56	5.379		
3200	3140	3193	3114	15	16	64.49	-424	-468	160	130	29.62	5.395		
3300	3237	3293	3211	16	17	64.27	-442	-487	166	135	30.67	5.410		
3400	3334	3393	3307	16	18	64.07	-460	-506	172	140	31.73	5.423		
3500	3432	3493	3403	17	18	63.89	-478	-525	178	145	32.78	5.436		
3600	3529	3592	3500	18	19	63.71	-496	-544	184	151	33.84	5.449		
3700	3627	3692	3596	18	19	63.55	-515	-563	191	156	34.89	5.460		
3800	3724	3792	3692	19	20	63.40	-533	-582	197	161	35.95	5.471		
3900	3821	3892	3788	19	21	63.26	-551	-601	203	166	37.00	5.481		
4000	3919	3992	3885	20	21	63.12	-569	-620	209	171	38.06	5.491		
4100	4016	4092	3981	20	22	63.00	-587	-639	215	176	39.11	5.500		
4200	4113	4191	4077	21	22	62.88	-605	-658	221	181	40.17	5.509		
4300	4211	4291	4174	21	23	62.76	-624	-677	227	186	41.22	5.517		
4400	4308	4391	4270	22	24	62.66	-642	-696	234	191	42.28	5.525		
4500	4406	4491	4366	23	24	62.55	-660	-715	240	196	43.33	5.532		
4600	4503	4591	4463	23	25	42.15	-678	-734	244	200	44.32	5.511		
4700	4600	4690	4558	24	26	8.93	-696	-753	238	193	44.76	5.317		
4800	4693	4786	4651	24	26	-13.26	-714	-771	221	177	44.35	4.983		
4900	4782	4877	4739	25	27	-32.30	-730	-788	197	154	42.63	4.623		
5000	4863	4960	4819	25	27	-52.61	-745	-804	174	135	39.54	4.411		



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 311H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5079	4920	5019	4876	25	28	-68.90	-756	-815	167	129	38.12	4.373	
5100	4934	5033	4890	25	28	-73.00	-759	-818	167	129	38.37	4.364 SF	
5200	4994	5085	4939	26	28	-86.66	-771	-825	193	150	43.37	4.452	
5300	5041	5115	4968	26	28	-89.98	-780	-827	252	204	48.77	5.177	
5400	5075	5128	4980	27	28	-83.03	-784	-828	332	280	51.69	6.424	
5500	5094	5129	4981	27	28	-66.28	-784	-828	421	368	53.18	7.914	
5600	5098	5121	4974	28	28	-50.49	-781	-828	513	459	54.02	9.492	
5700	5099	5112	4966	29	28	-48.24	-779	-827	607	552	54.53	11.124	
5800	5099	5100	4954	31	28	-45.07	-775	-826	702	647	54.75	12.823	
5900	5100	5100	4954	32	28	-45.07	-775	-826	798	743	55.09	14.493	
6000	5100	5100	4954	34	28	-45.07	-775	-826	896	840	55.33	16.187	
6100	5101	5100	4954	35	28	-45.07	-775	-826	993	938	55.50	17.897	
6200	5102	5100	4954	37	28	-45.07	-775	-826	1091	1036	55.63	19.618	
6300	5102	5081	4936	39	28	-40.62	-770	-824	1189	1134	55.47	21.443	
6400	5103	5078	4932	41	28	-39.88	-769	-824	1288	1232	55.52	23.199	
6500	5103	5075	4930	43	28	-39.22	-769	-823	1387	1331	55.56	24.959	
6600	5104	5072	4927	45	28	-38.64	-768	-823	1486	1430	55.59	26.723	
6700	5105	5070	4925	47	28	-38.11	-767	-823	1585	1529	55.62	28.490	
6800	5105	5050	4906	49	28	-34.18	-763	-820	1684	1629	55.43	30.383	
6900	5106	5050	4906	52	28	-34.18	-763	-820	1783	1728	55.48	32.142	
7000	5107	5050	4906	54	28	-34.18	-763	-820	1882	1827	55.52	33.901	
7100	5107	5050	4906	56	28	-34.18	-763	-820	1982	1926	55.57	35.663	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 315H - Original Drilling - APD													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	-70.86	20	-57	60					
100	100	100	100	0	0	-70.86	20	-57	60	60	0.31	194.500		
200	200	200	200	1	1	-70.86	20	-57	60	59	1.03	58.486		
300	300	300	300	1	1	-70.86	20	-57	60	58	1.74	34.418		
303	303	303	303	1	1	-70.86	20	-57	60	58	1.77	33.931 CC		
400	400	399	399	1	1	-71.14	19	-57	60	58	2.45	24.594 ES		
500	500	498	498	2	2	72.40	18	-60	63	60	3.14	19.973		
600	600	596	596	2	2	71.29	15	-66	67	63	3.82	17.493		
700	700	694	694	2	2	71.19	11	-75	72	68	4.52	15.992		
800	799	794	793	3	3	73.11	7	-85	77	72	5.26	14.718		
900	898	894	892	3	3	77.16	2	-95	82	76	6.03	13.546		
1000	997	994	991	3	3	83.05	-3	-105	86	79	6.85	12.539		
1100	1094	1093	1089	4	4	90.47	-7	-115	91	83	7.73	11.773		
1200	1192	1192	1188	4	4	98.21	-12	-125	98	89	8.63	11.322		
1300	1289	1291	1286	5	5	104.88	-16	-135	106	96	9.53	11.123		
1400	1387	1390	1384	5	5	110.52	-21	-145	115	105	10.41	11.088 SF		
1500	1484	1488	1483	6	5	115.28	-25	-155	126	115	11.29	11.157		
1600	1581	1587	1581	6	6	119.30	-30	-165	137	125	12.15	11.288		
1700	1679	1686	1680	7	6	122.69	-34	-175	149	136	13.00	11.455		
1800	1776	1785	1778	8	7	125.59	-39	-185	161	147	13.84	11.640		
1900	1874	1884	1876	8	7	128.07	-43	-195	174	159	14.67	11.834		
2000	1971	1983	1975	9	8	130.22	-48	-205	186	171	15.50	12.029		
2100	2068	2082	2073	9	8	132.09	-52	-215	199	183	16.32	12.221		
2200	2166	2181	2171	10	8	133.73	-57	-225	213	196	17.15	12.407		
2300	2263	2280	2270	10	9	135.18	-62	-235	226	208	17.97	12.586		
2400	2360	2379	2368	11	9	136.46	-66	-245	240	221	18.78	12.758		
2500	2458	2478	2466	11	10	137.61	-71	-255	253	234	19.60	12.922		
2600	2555	2577	2565	12	10	138.64	-75	-264	267	247	20.41	13.077		
2700	2653	2676	2663	13	10	139.57	-80	-274	281	260	21.23	13.225		
2800	2750	2775	2761	13	11	140.41	-84	-284	295	273	22.04	13.365		
2900	2847	2874	2860	14	11	141.18	-89	-294	309	286	22.86	13.499		
3000	2945	2973	2958	14	12	141.88	-93	-304	322	299	23.67	13.625		
3100	3042	3072	3056	15	12	142.52	-98	-314	336	312	24.48	13.745		
3200	3140	3171	3155	15	12	143.11	-102	-324	351	325	25.29	13.859		
3300	3237	3270	3253	16	13	143.66	-107	-334	365	338	26.10	13.967		
3400	3334	3368	3351	16	13	144.17	-111	-344	379	352	26.92	14.070		
3500	3432	3467	3450	17	14	144.63	-116	-354	393	365	27.73	14.167		
3600	3529	3566	3548	18	14	145.07	-121	-364	407	378	28.54	14.261		
3700	3627	3665	3646	18	15	145.48	-125	-374	421	392	29.35	14.349		
3800	3724	3764	3745	19	15	145.86	-130	-384	435	405	30.16	14.434		
3900	3821	3863	3843	19	15	146.21	-134	-394	450	419	30.97	14.515		
4000	3919	3962	3941	20	16	146.55	-139	-404	464	432	31.79	14.592		
4100	4016	4061	4040	20	16	146.86	-143	-414	478	445	32.60	14.666		
4200	4113	4160	4138	21	17	147.16	-148	-424	492	459	33.41	14.737		
4300	4211	4259	4236	21	17	147.44	-152	-434	507	472	34.22	14.804		
4400	4308	4358	4335	22	17	147.70	-157	-443	521	486	35.03	14.869		
4500	4406	4457	4433	23	18	147.96	-161	-453	535	499	35.84	14.931		
4600	4503	4556	4532	23	18	127.86	-166	-463	548	511	36.64	14.957		
4700	4600	4655	4630	24	19	98.60	-170	-473	552	515	37.37	14.771		
4800	4693	4842	4815	24	19	90.82	-197	-474	539	501	37.76	14.272		
4900	4782	4970	4934	25	20	94.62	-236	-453	510	473	37.22	13.706		
5000	4863	5038	4993	25	20	99.35	-263	-434	483	446	37.11	13.014		



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 315H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5100	4934	5067	5018	25	20	101.13	-276	-425	469	432	37.29	12.574	
5127	4951	5071	5021	25	20	101.02	-278	-423	468	431	37.34	12.537	
5200	4994	5073	5023	26	20	99.56	-279	-423	473	436	37.34	12.680	
5300	5041	5065	5016	26	20	95.18	-275	-425	497	460	37.16	13.368	
5400	5075	5050	5004	27	20	88.95	-268	-430	535	498	36.98	14.476	
5500	5094	5023	4981	27	20	80.91	-257	-438	584	547	36.82	15.864	
5600	5098	5000	4961	28	20	74.94	-247	-445	639	602	37.01	17.264	
5700	5099	4970	4934	29	20	72.20	-236	-453	701	664	37.13	18.874	
5800	5099	4950	4916	31	20	70.44	-229	-457	769	732	37.45	20.539	
5900	5100	4929	4897	32	20	68.61	-221	-461	843	806	37.72	22.356	
6000	5100	4900	4870	34	19	66.12	-212	-467	922	884	37.79	24.385	
6100	5101	4900	4870	35	19	66.12	-212	-467	1003	965	38.32	26.171	
6200	5102	4900	4870	37	19	66.12	-212	-467	1087	1049	38.76	28.057	
6300	5102	4875	4846	39	19	64.02	-205	-470	1174	1135	38.78	30.259	
6400	5103	4850	4822	41	19	62.05	-199	-473	1262	1223	38.81	32.516	
6500	5103	4850	4822	43	19	62.05	-199	-473	1351	1312	39.11	34.552	
6600	5104	4850	4822	45	19	62.05	-199	-473	1442	1403	39.37	36.634	
6700	5105	4850	4822	47	19	62.05	-199	-473	1534	1495	39.59	38.755	
6800	5105	4850	4822	49	19	62.05	-199	-473	1627	1587	39.78	40.906	
6900	5106	4827	4800	52	19	60.28	-193	-476	1720	1680	39.75	43.281	
7000	5107	4822	4795	54	19	59.85	-192	-476	1814	1774	39.86	45.521	
7100	5107	4800	4774	56	19	58.25	-187	-477	1909	1869	39.83	47.934	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 316H - Original Drilling - APD													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	-70.55	27	-75	80					
100	100	100	100	0	0	-70.55	27	-75	80	79	0.31	258.820		
200	200	200	200	1	1	-70.55	27	-75	80	79	1.03	77.827		
300	300	300	300	1	1	-70.55	27	-75	80	78	1.74	45.800		
400	400	400	400	1	1	-70.55	27	-75	80	77	2.46	32.447		
459	459	459	459	1	1	74.98	27	-75	80	77	2.88	27.697 CC, ES		
500	500	499	499	2	2	74.89	26	-76	80	77	3.16	25.334		
600	600	597	597	2	2	75.79	26	-79	82	78	3.83	21.398		
700	700	694	694	2	2	77.47	24	-85	86	81	4.51	18.979		
800	799	792	792	3	3	79.81	21	-95	91	86	5.23	17.464		
900	898	892	891	3	3	83.60	18	-105	97	91	5.99	16.239		
1000	997	991	989	3	3	88.83	15	-115	104	97	6.80	15.233		
1100	1094	1090	1088	4	4	95.16	12	-126	111	103	7.65	14.492		
1200	1192	1189	1186	4	4	101.66	9	-136	120	111	8.53	14.048		
1300	1289	1288	1284	5	5	107.23	6	-146	130	121	9.41	13.825		
1400	1387	1387	1382	5	5	111.96	3	-156	141	131	10.29	13.747		
1500	1484	1485	1480	6	5	115.97	0	-167	154	142	11.16	13.764		
1600	1581	1584	1579	6	6	119.38	-3	-177	166	154	12.02	13.841		
1700	1679	1683	1677	7	6	122.30	-6	-187	180	167	12.88	13.953		
1800	1776	1781	1775	8	7	124.82	-9	-197	193	180	13.73	14.086		
1900	1874	1880	1873	8	7	127.00	-12	-208	207	193	14.57	14.231		
2000	1971	1979	1971	9	7	128.91	-15	-218	222	206	15.41	14.380		
2100	2068	2078	2069	9	8	130.58	-18	-228	236	220	16.25	14.530		
2200	2166	2176	2167	10	8	132.06	-21	-238	251	234	17.09	14.677		
2300	2263	2275	2266	10	9	133.38	-24	-249	266	248	17.92	14.821		
2400	2360	2374	2364	11	9	134.56	-27	-259	281	262	18.75	14.960		
2500	2458	2473	2462	11	9	135.62	-30	-269	296	276	19.58	15.093		
2600	2555	2571	2560	12	10	136.57	-33	-279	311	290	20.41	15.221		
2700	2653	2670	2658	13	10	137.44	-36	-290	326	305	21.24	15.344		
2800	2750	2769	2756	13	11	138.23	-39	-300	341	319	22.06	15.461		
2900	2847	2867	2854	14	11	138.95	-42	-310	356	334	22.89	15.572		
3000	2945	2966	2953	14	11	139.62	-45	-320	372	348	23.71	15.678		
3100	3042	3065	3051	15	12	140.23	-48	-331	387	363	24.54	15.779		
3200	3140	3164	3149	15	12	140.79	-51	-341	403	377	25.36	15.875		
3300	3237	3262	3247	16	13	141.31	-54	-351	418	392	26.19	15.967		
3400	3334	3361	3345	16	13	141.80	-57	-361	434	407	27.01	16.055		
3500	3432	3460	3443	17	13	142.25	-60	-372	449	421	27.84	16.138		
3600	3529	3559	3541	18	14	142.67	-63	-382	465	436	28.66	16.218		
3700	3627	3657	3640	18	14	143.06	-66	-392	480	451	29.48	16.294		
3800	3724	3756	3738	19	15	143.43	-69	-403	496	466	30.31	16.367		
3900	3821	3855	3836	19	15	143.78	-72	-413	512	481	31.13	16.437		
4000	3919	3953	3934	20	16	144.10	-75	-423	527	495	31.95	16.503		
4100	4016	4052	4032	20	16	144.41	-78	-433	543	510	32.77	16.567		
4200	4113	4151	4130	21	16	144.70	-81	-444	559	525	33.60	16.628		
4300	4211	4250	4228	21	17	144.98	-84	-454	574	540	34.42	16.687		
4400	4308	4348	4327	22	17	145.24	-87	-464	590	555	35.24	16.743		
4500	4406	4447	4425	23	18	145.48	-90	-474	606	570	36.06	16.797		
4600	4503	4546	4523	23	18	125.33	-93	-485	620	583	36.88	16.812		
4700	4600	4645	4621	24	18	95.84	-96	-495	625	587	37.65	16.597		
4800	4693	4736	4712	24	19	82.34	-98	-504	620	581	38.29	16.180		
4900	4782	4800	4775	25	19	76.73	-97	-514	609	570	38.66	15.751		
5000	4863	4850	4824	25	19	74.71	-93	-524	596	557	38.77	15.364		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 316H - Original Drilling - APD												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 (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5100	4934	4913	4884	25	20	75.52	-85	-541	581	542	39.12	14.851	
5200	4994	4974	4940	26	20	77.78	-72	-561	566	526	39.55	14.304	
5300	5041	5037	4995	26	20	81.20	-55	-586	551	511	40.23	13.705	
5400	5075	5100	5048	27	21	85.38	-33	-614	539	498	41.16	13.098	
5500	5094	5168	5100	27	21	90.33	-6	-648	531	489	42.45	12.508	
5587	5099	5231	5144	28	22	94.81	23	-683	529	485	43.70	12.093	
5600	5098	5240	5150	28	22	95.60	27	-688	528	485	43.83	12.056	
5700	5099	5324	5200	29	22	101.05	71	-738	533	487	45.40	11.734	
5800	5099	5426	5249	31	23	106.16	131	-804	541	494	47.46	11.404	
5900	5100	5544	5287	32	25	109.98	208	-886	549	499	50.34	10.914	
6000	5100	5673	5304	34	27	111.61	298	-977	554	499	54.31	10.195	
6100	5101	5778	5305	35	29	111.60	372	-1050	555	497	57.88	9.580	
6200	5102	5877	5306	37	30	111.56	443	-1121	555	494	61.46	9.035	
6300	5102	5977	5306	39	32	111.53	514	-1191	556	491	65.18	8.532	
6400	5103	6077	5307	41	34	111.49	585	-1262	557	488	69.01	8.070	
6500	5103	6177	5307	43	36	111.46	656	-1332	558	485	72.95	7.646	
6600	5104	6277	5308	45	38	111.42	726	-1403	559	482	76.97	7.257	
6700	5105	6377	5309	47	40	111.39	797	-1473	559	478	81.06	6.900	
6800	5105	6477	5309	49	42	111.35	868	-1543	560	475	85.21	6.574	
6900	5106	6577	5310	52	44	111.32	939	-1614	561	472	89.42	6.273	
7000	5107	6677	5310	54	47	111.28	1010	-1684	562	468	93.67	5.997	
7100	5107	6777	5311	56	49	111.25	1081	-1755	563	465	97.97	5.742	
7200	5108	6877	5312	58	51	111.21	1152	-1825	563	461	102.29	5.507	
7300	5108	6977	5312	61	53	111.18	1223	-1896	564	458	106.66	5.290	
7400	5109	7077	5313	63	56	111.15	1294	-1966	565	454	111.04	5.088	
7500	5110	7177	5313	65	58	111.11	1365	-2037	566	450	115.46	4.900	
7600	5110	7277	5314	67	60	111.08	1436	-2107	567	447	119.89	4.726	
7700	5111	7377	5314	70	63	111.04	1507	-2177	567	443	124.35	4.563	
7800	5111	7477	5315	72	65	111.01	1578	-2248	568	439	128.83	4.411	
7900	5112	7577	5316	75	67	110.98	1649	-2318	569	436	133.32	4.268	
8000	5113	7677	5316	77	70	110.94	1720	-2389	570	432	137.82	4.134	
8100	5113	7777	5317	79	72	110.91	1791	-2459	571	428	142.34	4.009	
8200	5114	7877	5317	82	74	110.88	1862	-2530	571	425	146.88	3.891	
8300	5114	7977	5318	84	77	110.84	1933	-2600	572	421	151.42	3.779	
8400	5115	8077	5319	86	79	110.81	2004	-2671	573	417	155.97	3.674	
8500	5116	8177	5319	89	82	110.78	2075	-2741	574	413	160.54	3.575	
8600	5116	8277	5320	91	84	110.74	2146	-2811	575	410	165.11	3.480	
8700	5117	8377	5320	94	86	110.71	2217	-2882	575	406	169.70	3.391	
8800	5117	8477	5321	96	89	110.68	2288	-2952	576	402	174.29	3.306	
8900	5118	8577	5322	98	91	110.65	2359	-3023	577	398	178.89	3.226	
9000	5119	8677	5322	101	94	110.61	2430	-3093	578	394	183.49	3.149	
9100	5119	8777	5323	103	96	110.58	2501	-3164	579	391	188.11	3.076	
9200	5120	8877	5323	106	99	110.55	2572	-3234	580	387	192.73	3.007	
9300	5120	8977	5324	108	101	110.52	2643	-3305	580	383	197.35	2.941	
9400	5121	9077	5324	111	103	110.49	2713	-3375	581	379	201.98	2.877	
9500	5122	9177	5325	113	106	110.45	2784	-3446	582	375	206.62	2.817	
9600	5122	9277	5326	115	108	110.42	2855	-3516	583	372	211.26	2.758	
9700	5123	9377	5326	118	111	110.39	2926	-3586	584	368	215.91	2.703	
9800	5124	9477	5327	120	113	110.36	2997	-3657	584	364	220.56	2.650	
9900	5124	9577	5327	123	116	110.33	3068	-3727	585	360	225.22	2.598	
10,000	5125	9677	5328	125	118	110.29	3139	-3798	586	356	229.88	2.549	
10,100	5125	9777	5329	128	120	110.26	3210	-3868	587	352	234.54	2.502	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 316H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,200	5126	9877	5329	130	123	110.23	3281	-3939	588	348	239.21	2.457		
10,300	5127	9977	5330	132	125	110.20	3352	-4009	588	345	243.88	2.413		
10,400	5127	10,077	5330	135	128	110.17	3423	-4080	589	341	248.56	2.371		
10,500	5128	10,177	5331	137	130	110.14	3494	-4150	590	337	253.24	2.330		
10,600	5128	10,277	5331	140	133	110.11	3565	-4220	591	333	257.92	2.291		
10,700	5129	10,377	5332	142	135	110.08	3636	-4291	592	329	262.61	2.253		
10,800	5130	10,477	5333	145	138	110.04	3707	-4361	593	325	267.29	2.217		
10,900	5130	10,577	5333	147	140	110.01	3778	-4432	593	321	271.99	2.181		
11,000	5131	10,677	5334	150	143	109.98	3849	-4502	594	317	276.68	2.147		
11,100	5131	10,777	5334	152	145	109.95	3920	-4573	595	314	281.38	2.114		
11,200	5132	10,877	5335	155	147	109.92	3991	-4643	596	310	286.08	2.082		
11,300	5133	10,977	5336	157	150	109.89	4062	-4714	597	306	290.79	2.052		
11,400	5133	11,077	5336	159	152	109.86	4133	-4784	597	302	295.49	2.022		
11,500	5134	11,177	5337	162	155	109.83	4204	-4854	598	298	300.20	1.993		
11,600	5134	11,277	5337	164	157	109.80	4275	-4925	599	294	304.92	1.965		
11,700	5135	11,377	5338	167	160	109.77	4346	-4995	600	290	309.63	1.937		
11,800	5136	11,477	5339	169	162	109.74	4417	-5066	601	286	314.35	1.911		
11,900	5136	11,577	5339	172	165	109.71	4488	-5136	601	282	319.07	1.885		
12,000	5137	11,677	5340	174	167	109.68	4559	-5207	602	278	323.79	1.860		
12,100	5138	11,777	5340	177	170	109.65	4630	-5277	603	275	328.51	1.836		
12,200	5138	11,877	5341	179	172	109.62	4701	-5348	604	271	333.24	1.812		
12,300	5139	11,977	5341	182	175	109.59	4771	-5418	605	267	337.97	1.789		
12,400	5139	12,077	5342	184	177	109.56	4842	-5489	606	263	342.70	1.767		
12,500	5140	12,177	5343	187	179	109.53	4913	-5559	606	259	347.43	1.745		
12,600	5141	12,277	5343	189	182	109.50	4984	-5629	607	255	352.17	1.724		
12,700	5141	12,377	5344	191	184	109.47	5055	-5700	608	251	356.90	1.703		
12,800	5142	12,477	5344	194	187	109.44	5126	-5770	609	247	361.64	1.683		
12,900	5142	12,577	5345	196	189	109.41	5197	-5841	610	243	366.38	1.664		
13,000	5143	12,677	5346	199	192	109.38	5268	-5911	610	239	371.13	1.645		
13,100	5144	12,777	5346	201	194	109.36	5339	-5982	611	235	375.87	1.626		
13,200	5144	12,877	5347	204	197	109.33	5410	-6052	612	231	380.62	1.608		
13,300	5145	12,977	5347	206	199	109.30	5481	-6123	613	228	385.37	1.590		
13,400	5145	13,077	5348	209	202	109.27	5552	-6193	614	224	390.12	1.573		
13,500	5146	13,177	5348	211	204	109.24	5623	-6263	615	220	394.87	1.556		
13,600	5147	13,277	5349	214	207	109.21	5694	-6334	615	216	399.62	1.540		
13,700	5147	13,377	5350	216	209	109.18	5765	-6404	616	212	404.38	1.524 SF		
13,800	5148	13,434	5350	219	210	109.17	5805	-6444	618	213	405.64	1.525		
13,900	5148	13,434	5350	221	210	109.17	5805	-6444	634	239	395.23	1.604		
14,000	5149	13,434	5350	224	210	109.17	5805	-6444	665	288	376.87	1.764		
14,100	5150	13,434	5350	226	210	109.17	5805	-6444	708	354	353.67	2.002		
14,200	5150	13,434	5350	229	210	109.17	5805	-6444	762	434	328.60	2.320		
14,300	5151	13,434	5350	231	210	109.17	5805	-6444	825	521	303.78	2.716		
14,316	5151	13,434	5350	231	210	109.17	5805	-6444	836	536	299.85	2.788		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 401H - Original Drilling - APD													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	110.12	-7	19	20					
100	100	100	100	0	0	110.12	-7	19	20	20	0.31	65.230		
200	200	200	200	1	1	110.12	-7	19	20	19	1.03	19.615		
300	300	300	300	1	1	110.12	-7	19	20	18	1.74	11.543		
400	400	400	400	1	1	110.12	-7	19	20	18	2.46	8.178 CC		
400	400	400	400	1	1	110.12	-7	19	20	18	2.46	8.177		
500	500	500	500	2	2	-104.53	-7	19	20	17	3.16	6.381		
600	600	600	600	2	2	-104.28	-10	17	21	17	3.83	5.380 ES		
700	700	700	700	2	2	-103.82	-17	14	21	17	4.52	4.742		
800	799	800	799	3	3	-103.18	-26	9	23	17	5.26	4.326		
900	898	900	899	3	3	-102.44	-38	3	24	18	6.04	4.051		
1000	997	1000	997	3	3	-101.64	-54	-5	27	20	6.89	3.868		
1100	1094	1100	1095	4	4	-100.84	-72	-15	29	21	7.81	3.743		
1200	1192	1200	1192	4	4	-98.53	-93	-26	32	23	8.80	3.639		
1300	1289	1300	1289	5	5	-96.14	-114	-37	35	25	9.83	3.548		
1400	1387	1400	1386	5	5	-94.12	-135	-48	38	27	10.88	3.471		
1500	1484	1500	1483	6	6	-92.39	-157	-59	41	29	11.94	3.408		
1600	1581	1600	1580	6	7	-90.89	-178	-70	44	31	13.02	3.354		
1700	1679	1700	1677	7	7	-89.58	-199	-81	47	33	14.10	3.309		
1800	1776	1800	1774	8	8	-88.43	-220	-92	50	34	15.18	3.271		
1900	1874	1900	1871	8	8	-87.42	-241	-103	53	36	16.27	3.238		
2000	1971	2000	1969	9	9	-86.51	-262	-114	56	38	17.37	3.209		
2100	2068	2100	2066	9	9	-85.70	-284	-125	59	40	18.46	3.185		
2200	2166	2200	2163	10	10	-84.96	-305	-136	62	42	19.56	3.163		
2300	2263	2300	2260	10	10	-84.30	-326	-147	65	44	20.65	3.144		
2400	2360	2400	2357	11	11	-83.70	-347	-158	68	46	21.75	3.128		
2500	2458	2500	2454	11	12	-83.15	-368	-169	71	48	22.85	3.113		
2600	2555	2600	2551	12	12	-82.65	-389	-180	74	50	23.95	3.099		
2700	2653	2700	2648	13	13	-82.18	-411	-191	77	52	25.05	3.087		
2800	2750	2800	2745	13	13	-81.75	-432	-202	80	54	26.15	3.076		
2900	2847	2900	2842	14	14	-81.36	-453	-213	84	56	27.24	3.067		
3000	2945	3000	2939	14	14	-80.99	-474	-224	87	58	28.34	3.058		
3100	3042	3099	3036	15	15	-80.65	-495	-235	90	60	29.44	3.049		
3200	3140	3199	3133	15	16	-80.33	-516	-246	93	62	30.54	3.042		
3300	3237	3299	3230	16	16	-80.03	-538	-257	96	64	31.64	3.035		
3400	3334	3399	3327	16	17	-79.75	-559	-268	99	66	32.74	3.029		
3500	3432	3499	3424	17	17	-79.49	-580	-279	102	68	33.84	3.023		
3600	3529	3599	3521	18	18	-79.24	-601	-290	105	70	34.94	3.017		
3700	3627	3699	3619	18	18	-79.01	-622	-301	109	73	36.04	3.012		
3800	3724	3799	3716	19	19	-78.79	-643	-312	112	75	37.14	3.008		
3900	3821	3899	3813	19	20	-78.58	-665	-323	115	77	38.23	3.003		
4000	3919	3999	3910	20	20	-78.39	-686	-334	118	79	39.33	2.999		
4100	4016	4099	4007	20	21	-78.20	-707	-345	121	81	40.43	2.995		
4200	4113	4199	4104	21	21	-78.02	-728	-356	124	83	41.53	2.992		
4300	4211	4299	4201	21	22	-77.85	-749	-367	127	85	42.63	2.988		
4400	4308	4399	4298	22	23	-77.69	-770	-378	131	87	43.73	2.985		
4500	4406	4499	4395	23	23	-77.54	-792	-389	134	89	44.83	2.982 SF		
4600	4503	4599	4492	23	24	-97.52	-813	-400	139	93	45.93	3.025		
4700	4600	4682	4572	24	24	-128.02	-832	-407	161	115	46.68	3.458		
4800	4693	4750	4637	24	25	-144.10	-854	-408	209	162	46.80	4.465		
4900	4782	4800	4684	25	25	-152.42	-872	-404	277	231	46.38	5.971		
5000	4863	4840	4720	25	25	-156.98	-889	-400	360	313	46.20	7.786		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Offset Design: B26 2306 Pad - # 401H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5100	4934	4863	4740	25	25	-159.08	-899	-396	452	406	45.92	9.844	
5200	4994	4875	4750	26	25	-157.31	-904	-394	550	504	45.79	12.008	
5300	5041	4877	4752	26	25	-2.89	-905	-394	650	604	45.80	14.184	
5400	5075	4871	4747	27	25	10.06	-903	-395	749	703	45.94	16.301	
5500	5094	4850	4729	27	25	11.37	-893	-398	846	800	45.90	18.423	
5600	5098	4850	4729	28	25	11.68	-893	-398	938	891	46.64	20.112	
5700	5099	4829	4710	29	25	11.76	-884	-401	1030	983	46.77	22.020	
5800	5099	4800	4684	31	25	11.86	-872	-404	1123	1076	46.70	24.053	
5900	5100	4800	4684	32	25	11.86	-872	-404	1217	1169	47.16	25.796	
6000	5100	4800	4684	34	25	11.86	-872	-404	1311	1263	47.53	27.582	
6100	5101	4781	4666	35	25	11.92	-865	-406	1406	1358	47.52	29.581	
6200	5102	4772	4658	37	25	11.95	-862	-406	1501	1453	47.64	31.506	
6300	5102	4750	4637	39	25	12.01	-854	-408	1597	1549	47.54	33.586	
6400	5103	4750	4637	41	25	12.01	-854	-408	1693	1645	47.75	35.447	
6500	5103	4750	4637	43	25	12.01	-854	-408	1789	1741	47.93	37.325	
6600	5104	4750	4637	45	25	12.01	-854	-408	1886	1838	48.08	39.218	
6700	5105	4750	4637	47	25	12.01	-854	-408	1983	1935	48.22	41.123	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6930' & RKB 14' @ 6944ft

Offset Depths are relative to Offset Datum

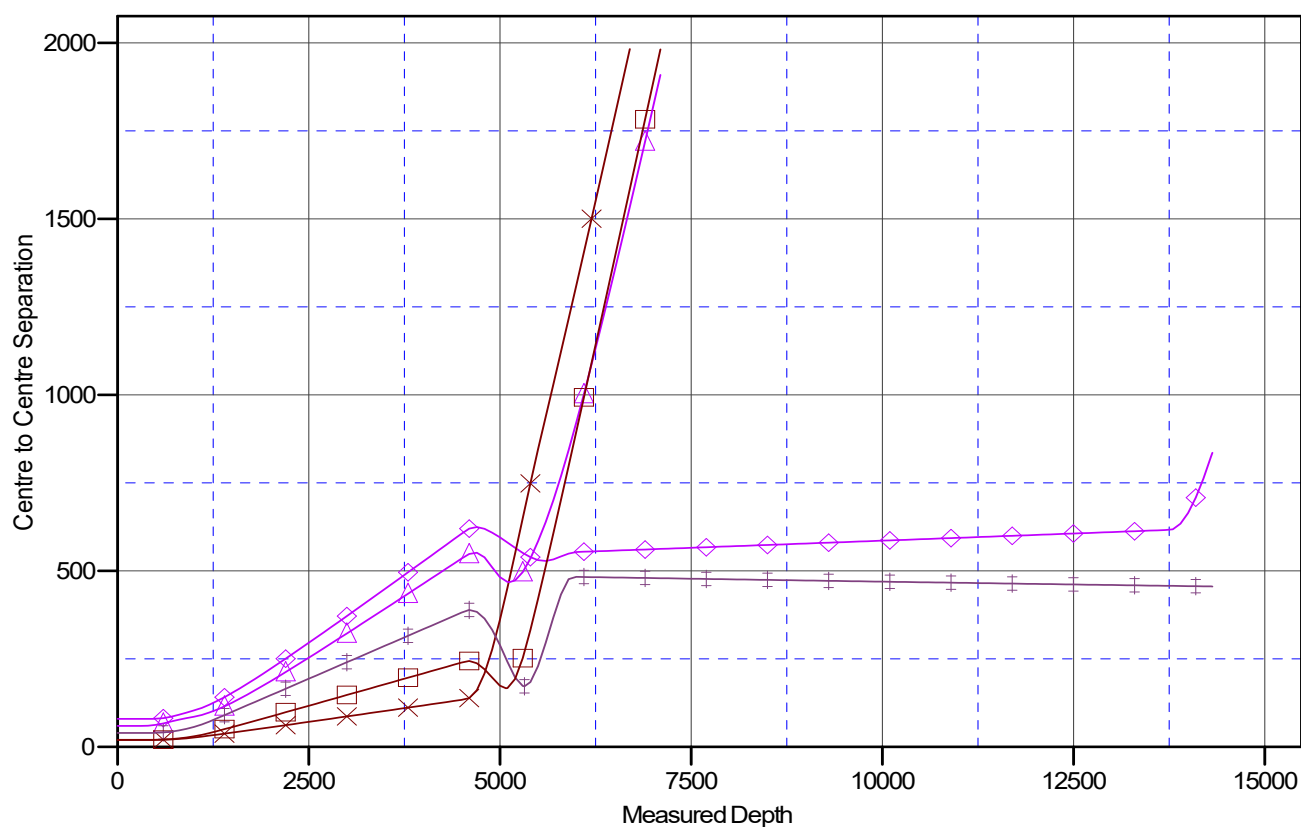
Central Meridian is -107.83333333

Coordinates are relative to: # 402H - Slot 2

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

Grid Convergence at Surface is: 0.24°

Ladder Plot



LEGEND

#316H Original Drilling, APDVO
 #401H Original Drilling, APDVO
 #311H Original Drilling, APDVO



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 402H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6930' & RKB 14' @ 6944ft
Reference Site:	B26 2306 Pad	MD Reference:	GL 6930' & RKB 14' @ 6944ft
Site Error:	0 ft	North Reference:	True
Reference Well:	# 402H	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	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6930' & RKB 14' @ 6944ft

Offset Depths are relative to Offset Datum

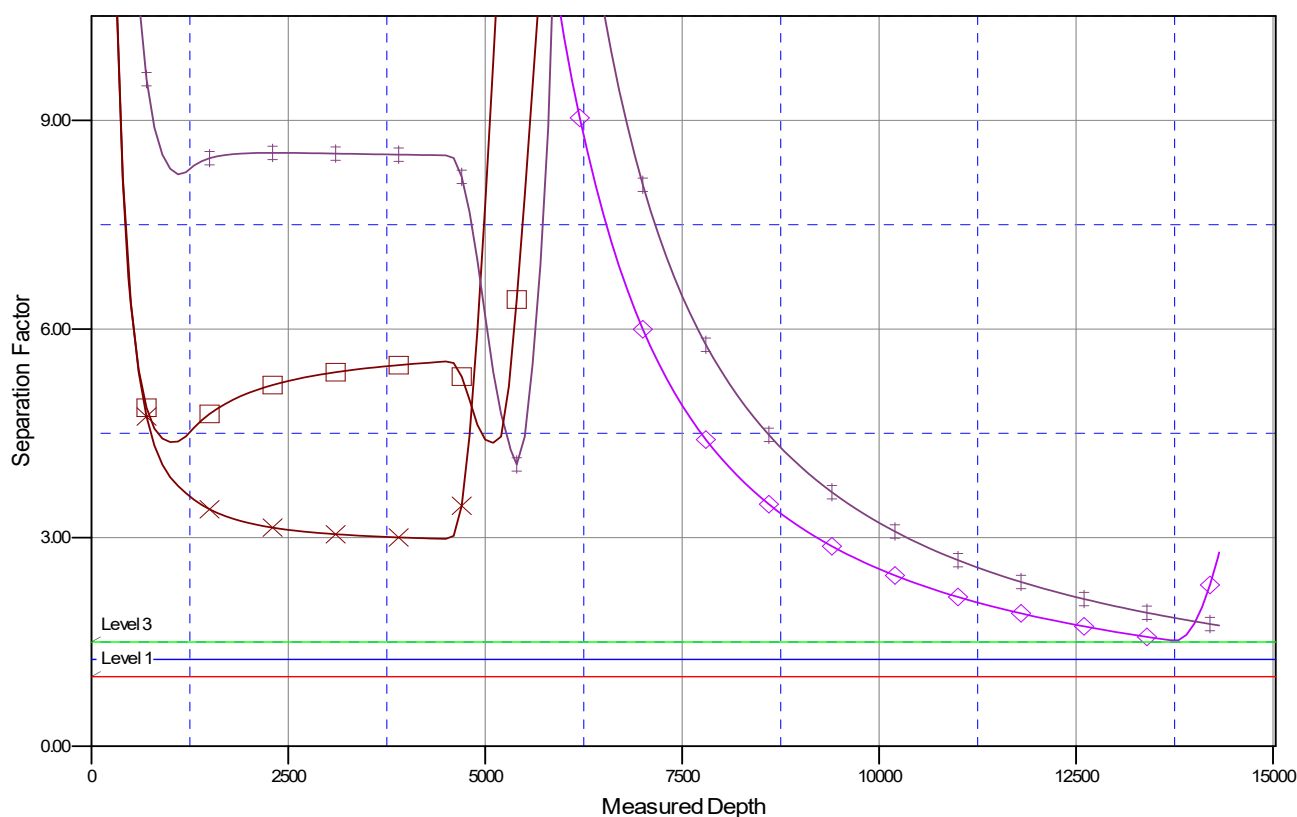
Central Meridian is -107.8333333

Coordinates are relative to: # 402H - Slot 2

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

Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND

#316H Original Drilling, APOVO
 #315H Original Drilling, APOVO
 #311H Original Drilling, APOVO
 #401H Original Drilling, APOVO



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
#402H GALLO CANYON UNIT
Lease: NMNM118128 Agreement: NMNM131017A
SH: NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 26, T. 23 N., R. 6 W.
Sandoval County, New Mexico
BH: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 22, T.23 N., R. 6 W.
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. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

- L. 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.
- M. 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.
- N. **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
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General Information
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 456441

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 456441
	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.	4/28/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/28/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/12/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/12/2025
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.	6/12/2025
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.	6/12/2025