

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 9. API Well No. 30-043-21520		
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State		
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration		
24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 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). </td> <td style="width: 50%; vertical-align: top;"> 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. </td> </tr> </table>			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.
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25. Signature Title		Name (Printed/Typed) Date		
Approved by (Signature) Title		Name (Printed/Typed) Office Date		

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)

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5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature Title	Name (Printed/Typed) Office	Date Date
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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: SESE / 276 FSL / 73 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.189601 / LONG: -107.429144 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 352 FSL / 94 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.189813 / LONG: -107.429216 (TVD: 5193 feet, MD: 5486 feet)

PPP: SESE / 114 FSL / 1 FEL / TWSP: 23N / RANGE: 6W / SECTION: 22 / LAT: 36.203755 / LONG: -107.446686 (TVD: 5242 feet, MD: 12945 feet)

PPP: SWSW / 1 FSL / 115 FWL / TWSP: 23N / RANGE: 6W / SECTION: 23 / LAT: 36.203441 / LONG: -107.446292 (TVD: 5242 feet, MD: 12945 feet)

BHL: SESE / 241 FSL / 128 FEL / TWSP: 23N / RANGE: 6W / SECTION: 22 / LAT: 36.204103 / LONG: -107.447122 (TVD: 5242 feet, MD: 12945 feet)

BLM Point of Contact

Name: JEFFREY J TAFOYA

Title: Assistant Field Manager

Phone: (505) 564-7672

Email: JTAFOYA@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 30-043-21520	Pool Code 13379	Pool Name COUNSELORS GALLUP-DAKOTA
Property Code 337331 -325257	Property Name LYBROOK P26A-2306 COM	Well Number 325H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6869'
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
P	26	23N	6W		276' SOUTH	73' EAST	36.189601° N	107.429144° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	22	23N	6W		241' SOUTH	128' EAST	36.204103° N	107.447122° W	SANDOVAL

Dedicated Acres PENETRATED SPACING UNIT; OUT OF UNIT: SEC 27: NE/NE (40 AC.) IN UNIT: SEC 25: SW/SW (40 AC.); SEC 26: SE/4, SW/NE, NE/SW & NW/4 (400 AC.); SEC 23: SW/SW (40 AC.); SEC 22: SE/SE (40 AC.) = 560 ACRES TOTAL	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code UNIT
Order Numbers: R-13718A	Well Setbacks are under Common Ownership: ☒ Yes ☐ No			

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	26	23N	6W		352' SOUTH	94' EAST	36.189813° N	107.429216° W	SANDOVAL

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	26	23N	6W		352' SOUTH	94' EAST	36.189813° N	107.429216° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
P	22	23N	6W		241' SOUTH	128' EAST	36.204103° N	107.447122° W	SANDOVAL

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, **and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest** in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marie Ford
Signature

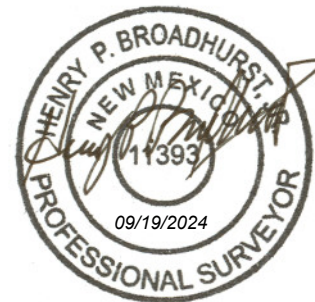
12/31/2024
Date

Shaw-Marie Ford
Printed Name

sford@enduringresources.com
E-mail Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor:

Certificate Number

11393

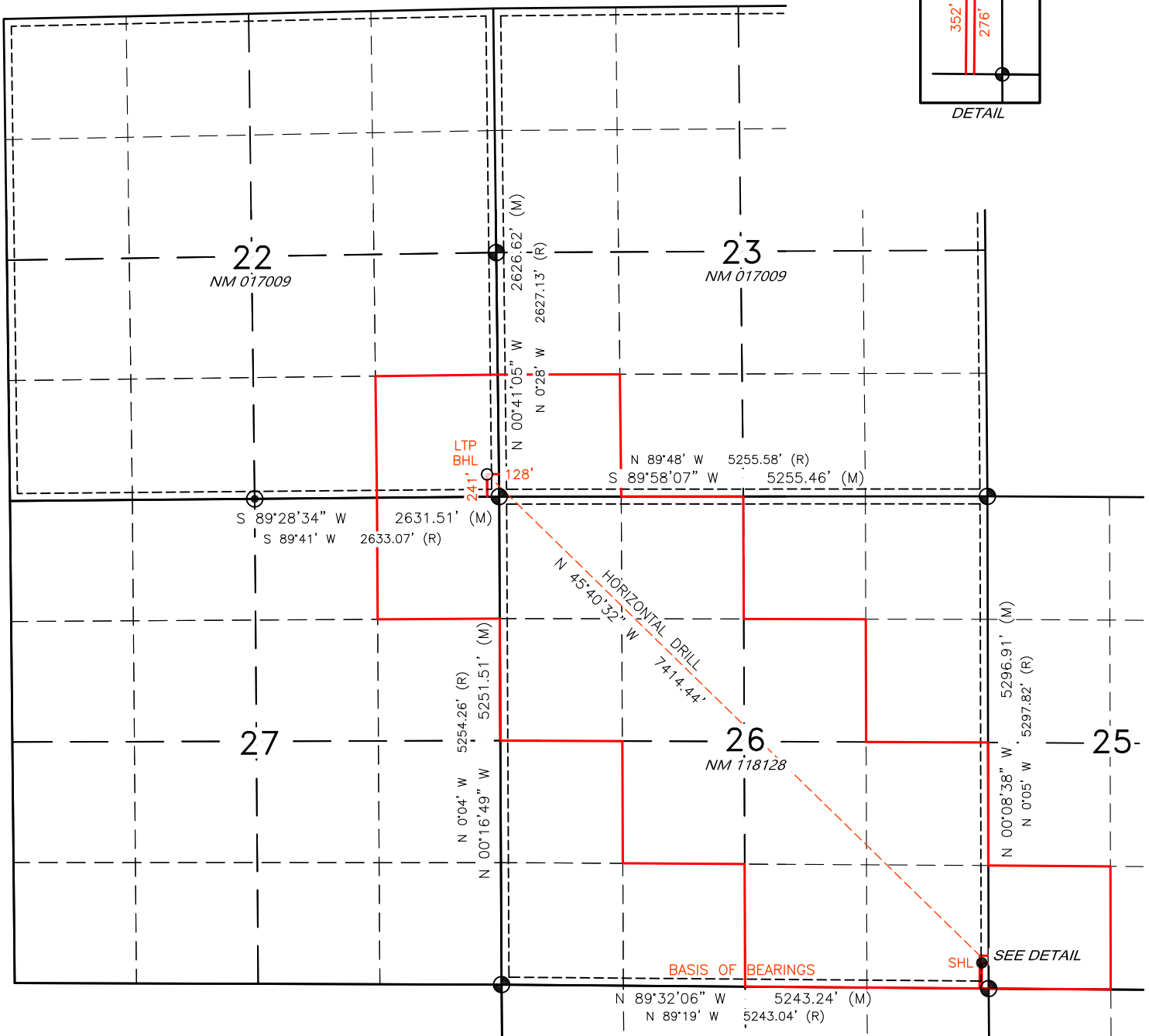
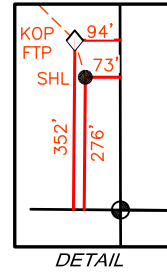
Date of Survey

MAY 23, 2022

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

FND 3.25" BC
BLM 1964

FND 5/8" REBAR



SURFACE LOCATION (SHL) ●
276' FSL 73' FEL
SEC. 26, T23N, R6W
LAT. 36.189601° N (NAD83)
LONG. 107.429144° W (NAD83)

FIRST TAKE POINT (FTP) ◇
352' FSL 94' FEL
SEC. 26, T23N, R6W
LAT. 36.189813° N (NAD83)
LONG. 107.429216° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
241' FSL 128' FEL
SEC. 22, T23N, R6W
LAT. 36.204103° N (NAD83)
LONG. 107.447122° W (NAD83)

KICK OFF POINT (KOP) △
352' FSL 94' FEL
SEC. 26, T23N, R6W
LAT. 36.189813° N (NAD83)
LONG. 107.429216° W (NAD83)

LAST TAKE POINT (LTP) □
241' FSL 128' FEL
SEC. 22, T23N, R6W
LAT. 36.204103° N (NAD83)
LONG. 107.447122° W (NAD83)

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: _DJR Operating, LLC_ **OGRID:** _371838_ **Date:** _03 / _01 / _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
Lybrook P26A-2306 COM 325H	TBD	P-26-23N-8W	278 FSL x 73 FEL	595	1803	238
Gallo Canyon Unit 326H	TBD	P-26-23N-8W	294 FSL x 37 FEL	298	902	119
Lybrook P26A-2306 COM 404H	TBD	P-26-23N-8W	285 FSL x 55 FEL	510	1546	204
Gallo Canyon Unit 422H	TBD	P-26-23N-8W	267 FSL x 91 FEL	519	1571	208
				3-year Decline	3-year Decline	3-year Decline
Lybrook P26A-2306 COM 325H	TBD	P-26-23N-8W	278 FSL x 73 FEL	137	817	55
Gallo Canyon Unit 326H	TBD	P-26-23N-8W	294 FSL x 37 FEL	69	408	27
Lybrook P26A-2306 COM 404H	TBD	P-26-23N-8W	285 FSL x 55 FEL	118	700	47
Gallo Canyon Unit 422H	TBD	P-26-23N-8W	267 FSL x 91 FEL	120	712	48

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
Lybrook P26A-2306 COM 325H	TBD	7/1/2025	7/11/2025	8/1/2025	8/15/2025	8/17/2025
Gallo Canyon Unit 326H	TBD	7/2/2025	7/12/2025	8/1/2025	8/15/2025	8/17/2025
Lybrook P26A-2306 COM 404H	TBD	7/3/2025	7/13/2025	8/1/2025	8/20/2025	8/22/2025
Gallo Canyon Unit 422H	TBD	7/4/2025	7/14/2025	8/1/2025	8/20/2025	8/22/2025

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: 3/1/2025
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 P26A-2308 Pad
Nos. 325H, 326H, 404H and 422H Oil and Natural Gas Wells Project
SESE P-26-23N-08W

SEPARATION EQUIPMENT

DJR Operating, LLC (DJR) has pulled representative pressurized samples from wells in the same producing formation. DJR has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- Individual 3-phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3-phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Gallo Canyon Unit P26A-2308 Pad
Nos. 325H, 326H, 404H and 422H Oil and Natural Gas Wells Project
SESE P-26-23N-08W

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Gallo Canyon Unit P26A-2308 Pad
Nos. 325H, 326H, 404H and 422H Oil and Natural Gas Wells Project
SESE P-26-23N-08W

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.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Gallo Canyon Unit P26A-2308 Pad
Nos. 325H, 326H, 404H and 422H Oil and Natural Gas Wells Project
SESE P-26-23N-08W

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 1



DRILLING PLAN

Lybrook P26A 2306 COM #325H

Sandoval County, New Mexico

Surface Location

73-ft FEL & 276-ft FSL
 Sec 26 T23N R6W
 Graded Elevation 6869' MSL
 RKB Elevation 6883' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1896010° N
 Longitude 107.4291440° W

Kick Off Point for Horizontal Build Curve

4613-ft MD
 4586-ft TVD

Local Coordinates (from SHL)

305-ft South
 359-ft East

Heel Location (Pay zone entry)

94-ft FEL & 352-ft FSL
 Sec 26 T23N R6W

Heel Geographical Coordinates (NAD-83)

Latitude 36.1898126° N
 Longitude 107.42921627° W

Bottom Hole Location (TD)

128-ft FEL & 241-ft FSL
 Sec 22 T23N R6W

BHL Geographical Coordinates (NAD-83)

Latitude 36.20410334° N
 Longitude 107.4471218° W

Well objectives

This well is planned as a 7410-ft lateral in the Gallup B sand.

Bottom Hole temperature and pressure

The temperature in the Gallup B horizontal objective is 141°F. Bottom hole pressure in the Gallup B is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1329	1324	Sd	W	8.3	8.4 – 8.8
Kirtland	1440	1435	Sh	-	8.3	8.4 – 8.8
Fruitland	1643	1636	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1876	1868	Sd	W	8.3	9.0 - 9.5
Lewis	1981	1972	Sh	-		9.0 - 9.5
Chacra	2743	2729	Sd	-	8.3	9.0 - 9.5
Menefee	3407	3388	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4117	4093	Sd	-	8.3	9.0 - 9.5
Mancos	4317	4292	Sh	-		9.0 - 9.5
Mancos Silt	4691	4664	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5296	5144	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5429	5185	Sd	O/G	6.6	8.8 -9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 -9.0
Target	5530	5195	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	380	surf	380	surface
7"	8-3/4"	26	K-55	LTC	surf	5486	surf	5193	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5248	12945	5122	5242	5248

Note: all casing will be new

Rev 1



Casing Design Load Cases

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

Note

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

Casing Design Factors

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

Cement Design

9-5/8" Surface Casing

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

7" Intermediate Casing

	<u>Lead</u>	<u>Tail</u>
	American	American
Type	I/II	Poz/G
Planned top	Surface	4317-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	481	122
Volume (bbls)	199	33
Volume (cu.ft.)	1117	185
Excess %	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5248-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	666
Volume (cu.ft)	180
Excess %	1012
	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 – 380	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	380 – 5486	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5486 – 12945	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.

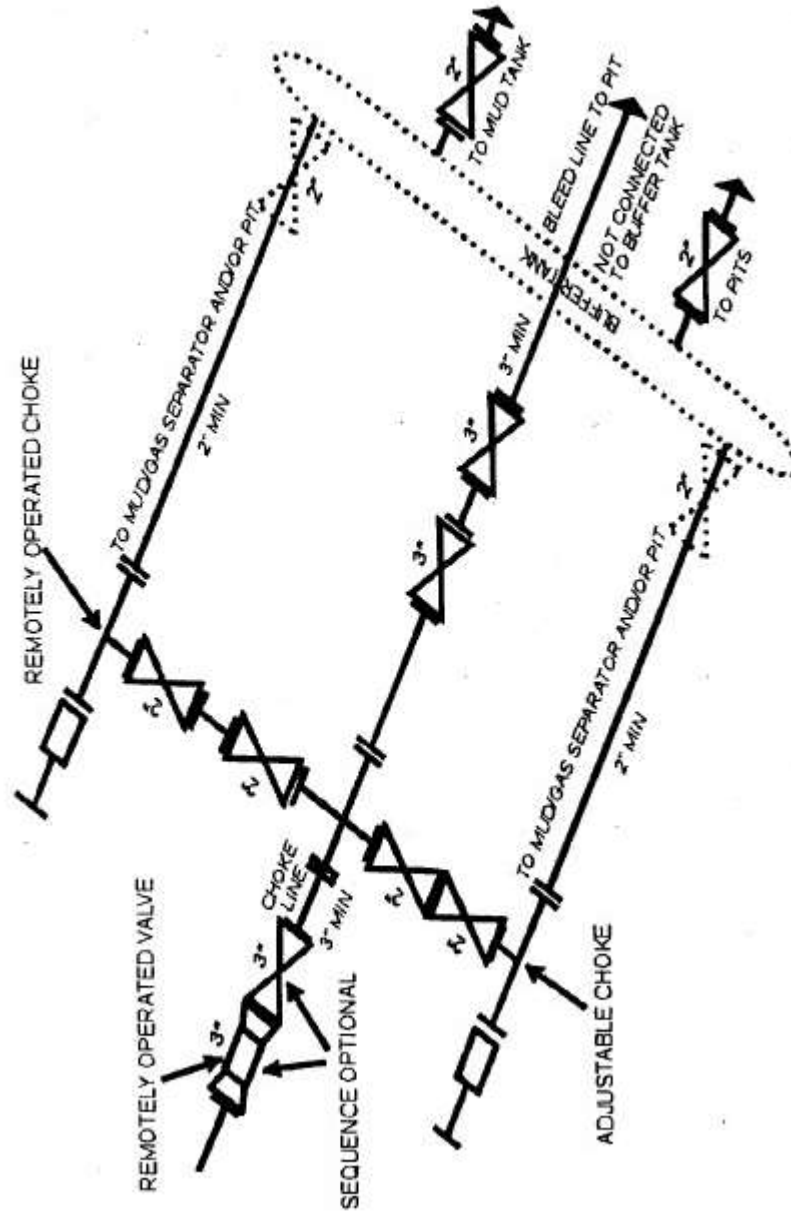
Completion

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.



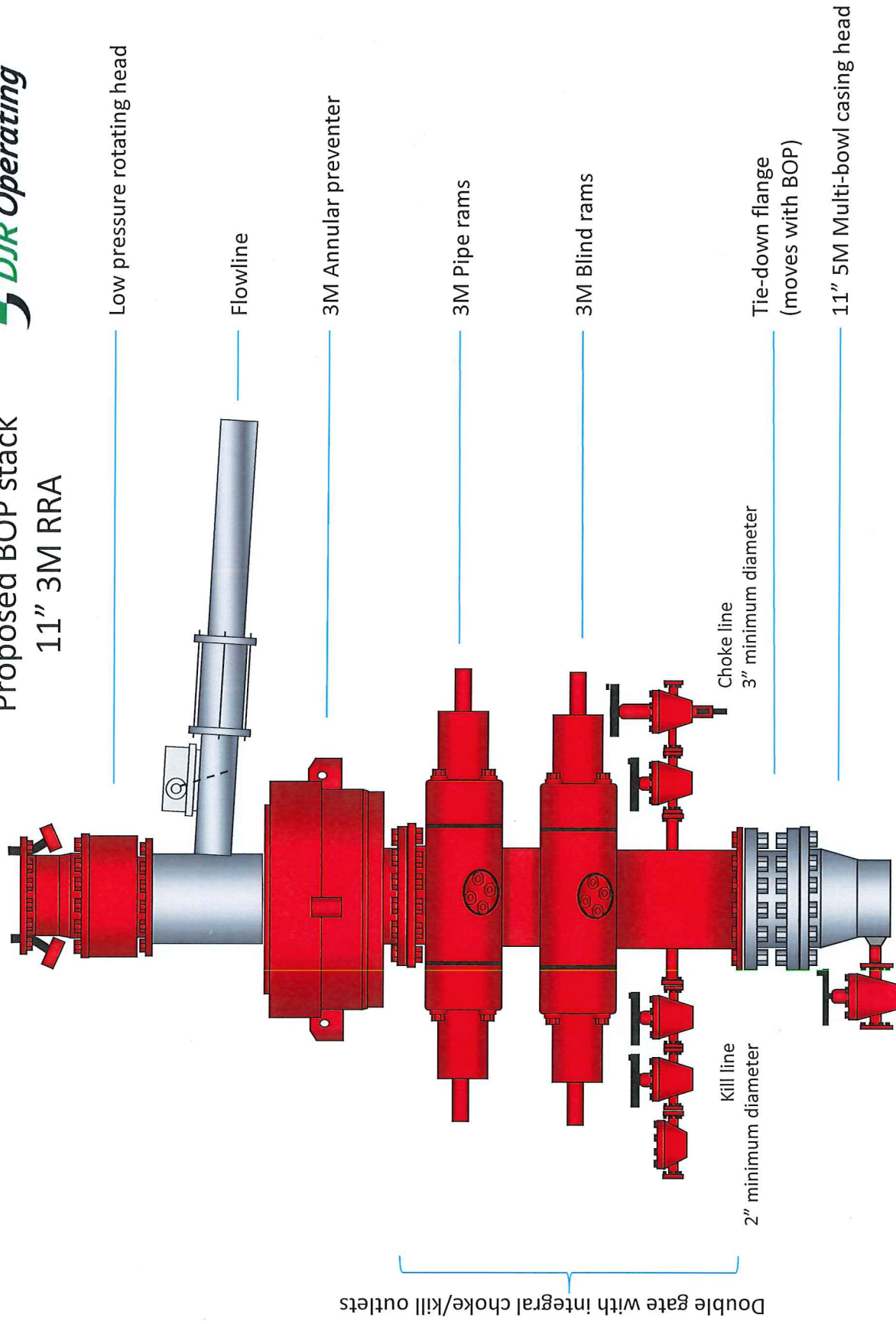
Choke Manifold

Actual system to conform with Onshore Order 2





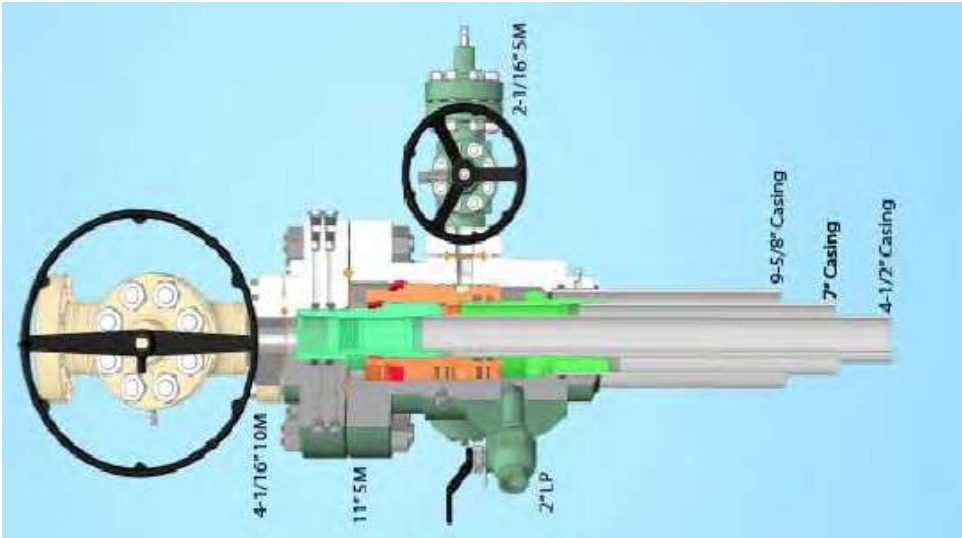
Proposed BOP stack 11" 3M RRA



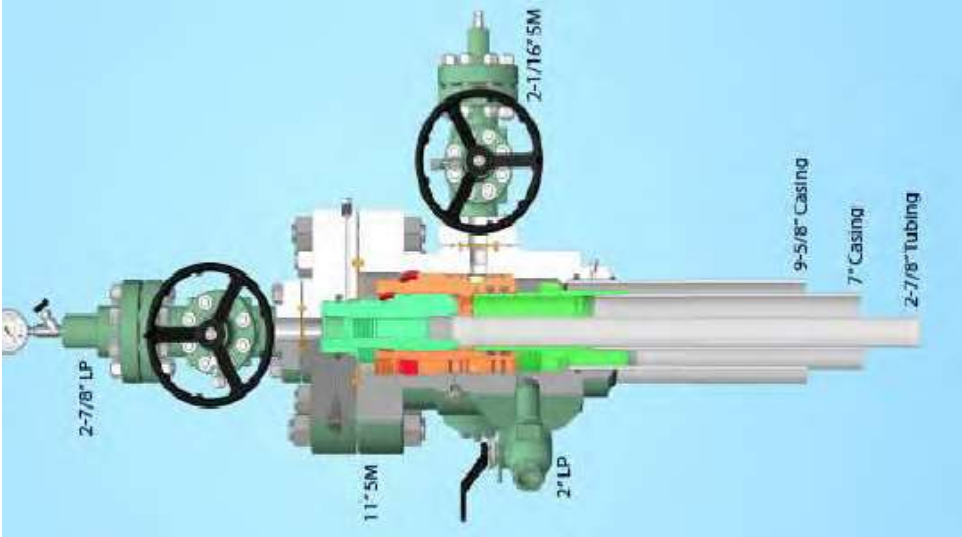


Proposed Wellhead
11" 5M Multi-bowl

Frac configuration with 4-1/2" tieback



Production configuration with 2-7/8" tubing





Company: DJR Operating
Project: Gallo Canyon Unit
Site: P26A 2306 Pad
Well: Lybrook P26A 2306 COM #325H
Wellbore: Original Drilling
Design: APD

WELL DETAILS: Lybrook P26A 2306 COM #325H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1888560.40	2842359.24	36.18960100	-107.42914400

Plan: APD (Lybrook P26A 2306 COM #325H/Original Drilling)
Created By: Janie Collins Date: 10:22, August 08 2022

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

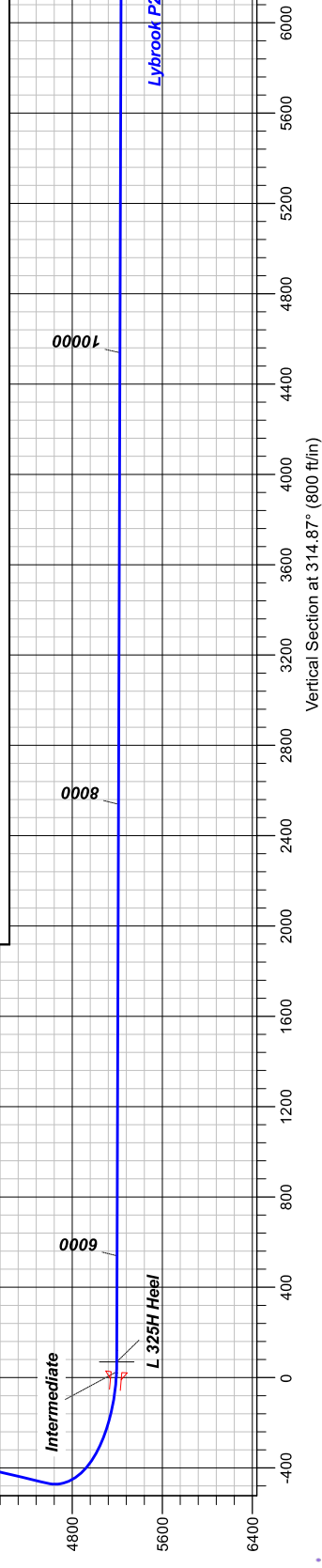
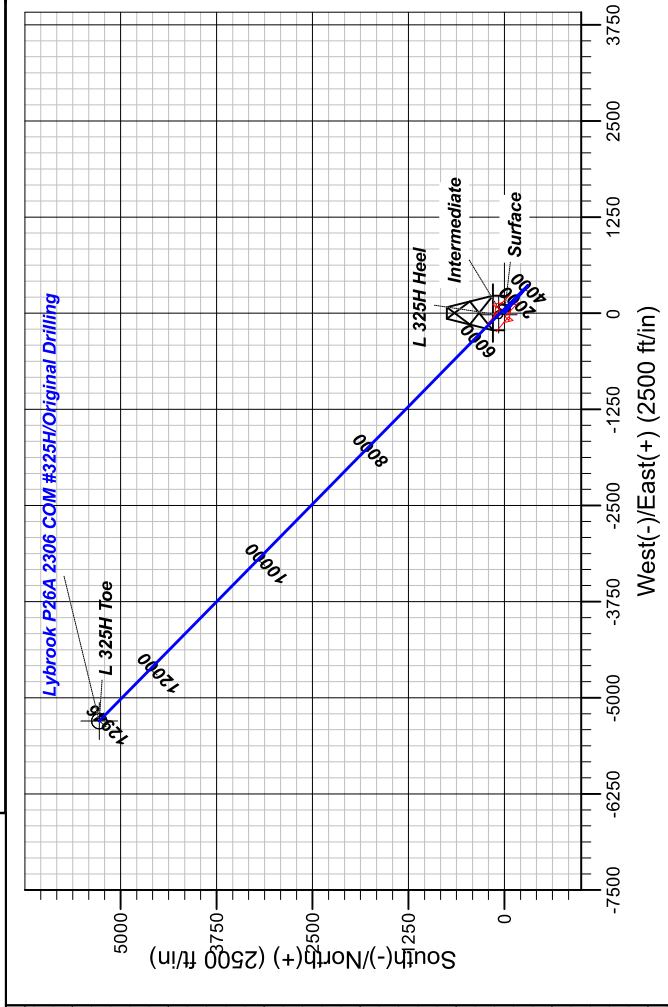
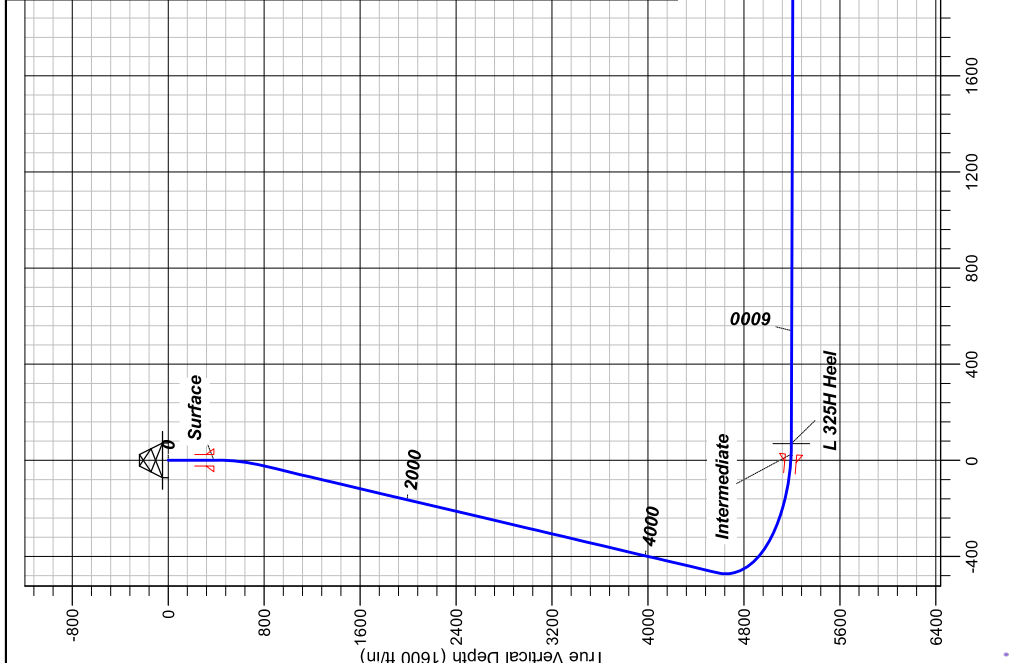
DESIGN TARGET DETAILS

Time	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
------	----	-----	-----	-----	-------	-------	------	-------	-------

Lybrook P26A 2306 COM #325H Heel	0	0.00	0.00	0	0	0	0.00	0.00	0
L 325H Toe	425	0.00	0.00	425	0	0	0.00	0.00	0
	761	6.72	130.34	760	15	0	2.00	130.34	-20
	4613	6.72	130.34	4588	-13	39	0.00	175.90	-469
	5613	89.64	314.56	5395	-37	10.50	10.50	-175.90	-469
	12945	89.64	314.56	5242	5280	-5304	0.00	0.00	7484

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	0	0	0	0.00	0.00	0
425	0.00	0.00	425	0	0	0.00	0.00	0
761	6.72	130.34	760	15	0	2.00	130.34	-20
4613	6.72	130.34	4588	-13	39	0.00	175.90	-469
5613	89.64	314.56	5395	-37	10.50	10.50	-175.90	-469
12945	89.64	314.56	5242	5280	-5304	0.00	0.00	7484



FORMATION DETAILS	MDPath	Formation
TVDPath	1324	Ojo Alamo
	1435	Kirland
	1636	Fruitland
	1876	Pictured Cliffs
	1981	Lewis
	2729	Chacra
	3388	Menefee
	4093	Point Lookout
	4292	Mancos
	4664	Mancos Silt
	5144	Gallup A
	5185	Gallup B

CASING DETAILS	TVD	MD	Name
	380	380	Surface
	5193	5486	Intermediate

Azimuths to True North
Magnetic North: 8.7°
Magnetic Field
Strength: 49003.8 A/m
Dip Angle: 62.3°
Date: 8/8/2022
Model: HDGM2022





DJR Operating

Gallo Canyon Unit

P26A 2306 Pad

Lybrook P26A 2306 COM #325H - Slot 2

Original Drilling

Plan: APD

Standard Planning Report

08 August, 2022





Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site:	P26A 2306 Pad	North Reference:	True
Well:	Lybrook P26A 2306 COM #325H	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	P26A 2306 Pad				
Site Position:		Northing:	1,888,551.60 usft	Latitude:	36.18957700
From:	Lat/Long	Easting:	2,842,341.28 usft	Longitude:	-107.42920500
Position Uncertainty:	0 ft	Slot Radius:	13.20 in		

Well	Lybrook P26A 2306 COM #325H - Slot 2					
Well Position	+N/-S	0 ft	Northing:	1,888,560.41 usft	Latitude:	36.18960100
	+E/-W	0 ft	Easting:	2,842,359.25 usft	Longitude:	-107.42914400
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6869 ft
Grid Convergence:	0.24 °					

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	8/8/2022	8.47	62.68	49,003.20000000

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	314.87

Plan Survey Tool Program	Date	8/8/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	12,945	APD (Original Drilling)	MWD+HDGM
				OWSG MWD + HDGM

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	
425	0.00	0.00	425	0	0	0.00	0.00	0.00	0.00	
761	6.72	130.34	760	-13	15	2.00	2.00	0.00	130.34	
4613	6.72	130.34	4586	-305	359	0.00	0.00	0.00	0.00	
5530	89.64	314.56	5195	77	-21	10.50	9.04	-19.16	-175.75	L 325H Heel
12,945	89.64	314.56	5242	5280	-5304	0.00	0.00	0.00	0.00	L 325H Toe



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site:	P26A 2306 Pad	North Reference:	True
Well:	Lybrook P26A 2306 COM #325H	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
425	0.00	0.00	425	0	0	0	0.00	0.00	0.00
500	1.50	130.34	500	-1	1	-1	2.00	2.00	0.00
600	3.50	130.34	600	-3	4	-5	2.00	2.00	0.00
700	5.50	130.34	700	-9	10	-13	2.00	2.00	0.00
761	6.72	130.34	760	-13	15	-20	2.00	2.00	0.00
800	6.72	130.34	799	-16	18	-24	0.00	0.00	0.00
900	6.72	130.34	898	-23	27	-36	0.00	0.00	0.00
1000	6.72	130.34	998	-31	36	-48	0.00	0.00	0.00
1100	6.72	130.34	1097	-38	45	-59	0.00	0.00	0.00
1200	6.72	130.34	1196	-46	54	-71	0.00	0.00	0.00
1300	6.72	130.34	1296	-54	63	-83	0.00	0.00	0.00
1400	6.72	130.34	1395	-61	72	-94	0.00	0.00	0.00
1500	6.72	130.34	1494	-69	81	-106	0.00	0.00	0.00
1600	6.72	130.34	1593	-76	90	-118	0.00	0.00	0.00
1700	6.72	130.34	1693	-84	99	-129	0.00	0.00	0.00
1800	6.72	130.34	1792	-91	108	-141	0.00	0.00	0.00
1900	6.72	130.34	1891	-99	117	-153	0.00	0.00	0.00
2000	6.72	130.34	1991	-107	126	-164	0.00	0.00	0.00
2100	6.72	130.34	2090	-114	134	-176	0.00	0.00	0.00
2200	6.72	130.34	2189	-122	143	-188	0.00	0.00	0.00
2300	6.72	130.34	2289	-129	152	-199	0.00	0.00	0.00
2400	6.72	130.34	2388	-137	161	-211	0.00	0.00	0.00
2500	6.72	130.34	2487	-144	170	-223	0.00	0.00	0.00
2600	6.72	130.34	2587	-152	179	-234	0.00	0.00	0.00
2700	6.72	130.34	2686	-160	188	-246	0.00	0.00	0.00
2800	6.72	130.34	2785	-167	197	-258	0.00	0.00	0.00
2900	6.72	130.34	2885	-175	206	-269	0.00	0.00	0.00
3000	6.72	130.34	2984	-182	215	-281	0.00	0.00	0.00
3100	6.72	130.34	3083	-190	224	-293	0.00	0.00	0.00
3200	6.72	130.34	3182	-198	233	-304	0.00	0.00	0.00
3300	6.72	130.34	3282	-205	242	-316	0.00	0.00	0.00
3400	6.72	130.34	3381	-213	250	-328	0.00	0.00	0.00
3500	6.72	130.34	3480	-220	259	-339	0.00	0.00	0.00
3600	6.72	130.34	3580	-228	268	-351	0.00	0.00	0.00
3700	6.72	130.34	3679	-235	277	-363	0.00	0.00	0.00
3800	6.72	130.34	3778	-243	286	-374	0.00	0.00	0.00
3900	6.72	130.34	3878	-251	295	-386	0.00	0.00	0.00
4000	6.72	130.34	3977	-258	304	-398	0.00	0.00	0.00
4100	6.72	130.34	4076	-266	313	-409	0.00	0.00	0.00
4200	6.72	130.34	4176	-273	322	-421	0.00	0.00	0.00
4300	6.72	130.34	4275	-281	331	-433	0.00	0.00	0.00
4400	6.72	130.34	4374	-288	340	-444	0.00	0.00	0.00
4500	6.72	130.34	4474	-296	349	-456	0.00	0.00	0.00
4600	6.72	130.34	4573	-304	357	-468	0.00	0.00	0.00
4613	6.72	130.34	4586	-305	359	-469	0.00	0.00	0.00
4700	2.49	326.06	4673	-306	361	-472	10.50	-4.86	-188.62
4800	12.95	316.72	4772	-296	353	-459	10.50	10.46	-9.33
4900	23.45	315.71	4866	-274	331	-428	10.50	10.50	-1.02
5000	33.95	315.30	4954	-240	297	-380	10.50	10.50	-0.41



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site:	P26A 2306 Pad	North Reference:	True
Well:	Lybrook P26A 2306 COM #325H	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	44.44	315.07	5031	-195	253	-317	10.50	10.50	-0.23	
5200	54.94	314.91	5096	-141	199	-241	10.50	10.50	-0.16	
5300	65.44	314.79	5146	-80	138	-154	10.50	10.50	-0.12	
5400	75.94	314.68	5179	-14	71	-60	10.50	10.50	-0.10	
5500	86.44	314.59	5194	56	0	39	10.50	10.50	-0.09	
5530	89.64	314.56	5195	77	-21	69	10.50	10.50	-0.09	
5600	89.64	314.56	5195	126	-71	139	0.00	0.00	0.00	
5700	89.64	314.56	5196	196	-142	239	0.00	0.00	0.00	
5800	89.64	314.56	5197	266	-213	339	0.00	0.00	0.00	
5900	89.64	314.56	5197	336	-285	439	0.00	0.00	0.00	
6000	89.64	314.56	5198	407	-356	539	0.00	0.00	0.00	
6100	89.64	314.56	5199	477	-427	639	0.00	0.00	0.00	
6200	89.64	314.56	5199	547	-498	739	0.00	0.00	0.00	
6300	89.64	314.56	5200	617	-570	839	0.00	0.00	0.00	
6400	89.64	314.56	5201	687	-641	939	0.00	0.00	0.00	
6500	89.64	314.56	5201	757	-712	1039	0.00	0.00	0.00	
6600	89.64	314.56	5202	828	-783	1139	0.00	0.00	0.00	
6700	89.64	314.56	5202	898	-855	1239	0.00	0.00	0.00	
6800	89.64	314.56	5203	968	-926	1339	0.00	0.00	0.00	
6900	89.64	314.56	5204	1038	-997	1439	0.00	0.00	0.00	
7000	89.64	314.56	5204	1108	-1068	1539	0.00	0.00	0.00	
7100	89.64	314.56	5205	1178	-1140	1639	0.00	0.00	0.00	
7200	89.64	314.56	5206	1249	-1211	1739	0.00	0.00	0.00	
7300	89.64	314.56	5206	1319	-1282	1839	0.00	0.00	0.00	
7400	89.64	314.56	5207	1389	-1353	1939	0.00	0.00	0.00	
7500	89.64	314.56	5207	1459	-1425	2039	0.00	0.00	0.00	
7600	89.64	314.56	5208	1529	-1496	2139	0.00	0.00	0.00	
7700	89.64	314.56	5209	1599	-1567	2239	0.00	0.00	0.00	
7800	89.64	314.56	5209	1670	-1638	2339	0.00	0.00	0.00	
7900	89.64	314.56	5210	1740	-1710	2439	0.00	0.00	0.00	
8000	89.64	314.56	5211	1810	-1781	2539	0.00	0.00	0.00	
8100	89.64	314.56	5211	1880	-1852	2639	0.00	0.00	0.00	
8200	89.64	314.56	5212	1950	-1923	2739	0.00	0.00	0.00	
8300	89.64	314.56	5213	2020	-1995	2839	0.00	0.00	0.00	
8400	89.64	314.56	5213	2091	-2066	2939	0.00	0.00	0.00	
8500	89.64	314.56	5214	2161	-2137	3039	0.00	0.00	0.00	
8600	89.64	314.56	5214	2231	-2208	3139	0.00	0.00	0.00	
8700	89.64	314.56	5215	2301	-2280	3239	0.00	0.00	0.00	
8800	89.64	314.56	5216	2371	-2351	3339	0.00	0.00	0.00	
8900	89.64	314.56	5216	2441	-2422	3439	0.00	0.00	0.00	
9000	89.64	314.56	5217	2512	-2493	3539	0.00	0.00	0.00	
9100	89.64	314.56	5218	2582	-2565	3639	0.00	0.00	0.00	
9200	89.64	314.56	5218	2652	-2636	3739	0.00	0.00	0.00	
9300	89.64	314.56	5219	2722	-2707	3839	0.00	0.00	0.00	
9400	89.64	314.56	5220	2792	-2778	3939	0.00	0.00	0.00	
9500	89.64	314.56	5220	2862	-2850	4039	0.00	0.00	0.00	
9600	89.64	314.56	5221	2933	-2921	4139	0.00	0.00	0.00	
9700	89.64	314.56	5221	3003	-2992	4239	0.00	0.00	0.00	
9800	89.64	314.56	5222	3073	-3063	4339	0.00	0.00	0.00	
9900	89.64	314.56	5223	3143	-3134	4439	0.00	0.00	0.00	
10,000	89.64	314.56	5223	3213	-3206	4539	0.00	0.00	0.00	
10,100	89.64	314.56	5224	3283	-3277	4639	0.00	0.00	0.00	
10,200	89.64	314.56	5225	3354	-3348	4739	0.00	0.00	0.00	
10,300	89.64	314.56	5225	3424	-3419	4839	0.00	0.00	0.00	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site:	P26A 2306 Pad	North Reference:	True
Well:	Lybrook P26A 2306 COM #325H	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	89.64	314.56	5226	3494	-3491	4939	0.00	0.00	0.00	
10,500	89.64	314.56	5226	3564	-3562	5039	0.00	0.00	0.00	
10,600	89.64	314.56	5227	3634	-3633	5139	0.00	0.00	0.00	
10,700	89.64	314.56	5228	3704	-3704	5239	0.00	0.00	0.00	
10,800	89.64	314.56	5228	3775	-3776	5339	0.00	0.00	0.00	
10,900	89.64	314.56	5229	3845	-3847	5439	0.00	0.00	0.00	
11,000	89.64	314.56	5230	3915	-3918	5539	0.00	0.00	0.00	
11,100	89.64	314.56	5230	3985	-3989	5639	0.00	0.00	0.00	
11,200	89.64	314.56	5231	4055	-4061	5739	0.00	0.00	0.00	
11,300	89.64	314.56	5232	4125	-4132	5839	0.00	0.00	0.00	
11,400	89.64	314.56	5232	4196	-4203	5939	0.00	0.00	0.00	
11,500	89.64	314.56	5233	4266	-4274	6039	0.00	0.00	0.00	
11,600	89.64	314.56	5233	4336	-4346	6139	0.00	0.00	0.00	
11,700	89.64	314.56	5234	4406	-4417	6239	0.00	0.00	0.00	
11,800	89.64	314.56	5235	4476	-4488	6339	0.00	0.00	0.00	
11,900	89.64	314.56	5235	4546	-4559	6439	0.00	0.00	0.00	
12,000	89.64	314.56	5236	4617	-4631	6539	0.00	0.00	0.00	
12,100	89.64	314.56	5237	4687	-4702	6639	0.00	0.00	0.00	
12,200	89.64	314.56	5237	4757	-4773	6739	0.00	0.00	0.00	
12,300	89.64	314.56	5238	4827	-4844	6839	0.00	0.00	0.00	
12,400	89.64	314.56	5239	4897	-4916	6939	0.00	0.00	0.00	
12,500	89.64	314.56	5239	4967	-4987	7039	0.00	0.00	0.00	
12,600	89.64	314.56	5240	5038	-5058	7139	0.00	0.00	0.00	
12,700	89.64	314.56	5240	5108	-5129	7239	0.00	0.00	0.00	
12,800	89.64	314.56	5241	5178	-5201	7339	0.00	0.00	0.00	
12,900	89.64	314.56	5242	5248	-5272	7439	0.00	0.00	0.00	
12,945	89.64	314.56	5242	5280	-5304	7484	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
L 325H Heel	0.00	0.00	5195	77	-21	1,888,637.35	2,842,337.60	36.18981260		-107.42921627
- plan hits target center										
- Circle (radius 50)										
L 325H Toe	0.00	0.00	5242	5280	-5304	1,893,817.97	2,837,033.33	36.20410334		-107.44712184
- plan hits target center										
- Circle (radius 100)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
380	380	Surface	9.63	12.25	
5486	5193	Intermediate	7.00	8.75	



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Project:	Gallo Canyon Unit	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site:	P26A 2306 Pad	North Reference:	True
Well:	Lybrook P26A 2306 COM #325H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1329	1324	Ojo Alamo		0.00	0.00	
1440	1435	Kirtland		0.00	0.00	
1643	1636	Fruitland		0.00	0.00	
1876	1868	Pictured Cliffs		0.00	0.00	
1981	1972	Lewis		0.00	0.00	
2743	2729	Chacra		0.00	0.00	
3407	3388	Menefee		0.00	0.00	
4117	4093	Point Lookout		0.00	0.00	
4317	4292	Mancos		0.00	0.00	
4691	4664	Mancos Silt		0.00	0.00	
5296	5144	Gallup A		0.00	0.00	
5429	5185	Gallup B		0.00	0.00	



DJR Operating

Gallo Canyon Unit

P26A 2306 Pad

Lybrook P26A 2306 COM #325H

Original Drilling

APD

Anticollision Report

08 August, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 8000ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/8/2022		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	12,945	APD (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM	

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						
P26A 2306 Pad						
Federal 26-22 - OH - OH	10,349	5385	99	-202	0.329	Level 3, CC, ES, SF
Gallo Canyon Unit #203H - OH - OH	451	462	890	888	376.925	CC, ES
Gallo Canyon Unit #203H - OH - OH	6800	4761	1405	1353	26.963	SF
Gallo Canyon Unit #204H - OH - OH	5755	5528	352	315	9.572	CC
Gallo Canyon Unit #204H - OH - OH	5800	5491	353	315	9.361	ES
Gallo Canyon Unit #204H - OH - OH	5900	5424	363	323	9.126	SF
Gallo Canyon Unit #422H - Original Drilling - APD	425	425	20	17	6.790	CC, ES
Gallo Canyon Unit #422H - Original Drilling - APD	500	499	21	18	6.175	SF
Lybrook P26A 2306 COM #404H - Original Drilling - APD	640	641	13	9	2.975	CC, ES
Lybrook P26A 2306 COM #404H - Original Drilling - APD	12,946	11,871	689	315	1.844	SF

Offset Design: P26A 2306 Pad - Federal 26-22 - OH - OH													Offset Site Error: 0 ft		
Survey Program: Reference		295-INCLINOMETER						Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0 ft	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0	0	157	157	0	5	-46.13	3387	-3523	4888						
100	100	257	257	0	8	-46.13	3387	-3523	4888	4880	8.11	602.442			
200	200	357	357	1	11	-46.13	3387	-3523	4888	4876	11.51	424.667			
300	300	457	457	1	14	-46.13	3387	-3523	4888	4873	14.90	327.927			
400	400	557	557	1	17	-46.13	3387	-3523	4888	4869	18.30	267.085			
425	425	582	582	1	18	-46.13	3387	-3523	4888	4869	19.15	255.246			
500	500	666	666	2	20	-176.45	3389	-3523	4890	4868	21.96	222.656			
600	600	783	783	2	24	-176.45	3389	-3523	4894	4868	25.85	189.337			
700	700	900	899	2	27	-176.46	3388	-3523	4901	4871	29.74	164.818			
761	760	917	917	3	28	-176.46	3387	-3523	4907	4877	30.50	160.900			
800	799	956	956	3	29	-176.46	3387	-3523	4912	4880	31.81	154.410			
900	898	1055	1055	3	32	-176.47	3387	-3523	4924	4888	35.18	139.970			
1000	998	1155	1155	4	35	-176.48	3387	-3523	4935	4897	38.54	128.040			
1100	1097	1268	1267	4	38	-176.48	3388	-3523	4948	4905	42.32	116.895			
1200	1196	1381	1380	4	42	-176.49	3388	-3523	4959	4913	46.12	107.525			
1300	1296	1453	1453	5	44	-176.50	3387	-3523	4970	4922	48.67	102.132			
1400	1395	1552	1552	5	47	-176.51	3387	-3523	4982	4930	52.04	95.732			

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Federal 26-22 - OH - OH												Offset Site Error:	0 ft
Survey Program: 295-INCLINOMETER												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)		
5600	5195	5355	5352	23	163	-73.05	3387	-3523	4750	4569	180.65	26.291	
5700	5196	5355	5353	25	163	-73.39	3387	-3523	4650	4469	180.68	25.734	
5800	5197	5356	5354	26	163	-73.73	3387	-3523	4550	4369	180.70	25.177	
5900	5197	5356	5354	28	163	-74.07	3387	-3523	4450	4269	180.73	24.620	
6000	5198	5357	5355	30	163	-74.41	3387	-3523	4350	4169	180.76	24.063	
6100	5199	5358	5356	32	163	-74.75	3387	-3523	4250	4069	180.78	23.507	
6200	5199	5358	5356	34	163	-75.09	3387	-3523	4150	3969	180.81	22.950	
6300	5200	5359	5357	36	163	-75.44	3387	-3523	4050	3869	180.85	22.393	
6400	5201	5360	5358	38	163	-75.78	3387	-3523	3950	3769	180.88	21.836	
6500	5201	5360	5358	41	163	-76.13	3387	-3523	3850	3669	180.92	21.279	
6600	5202	5361	5359	43	163	-76.48	3387	-3523	3750	3569	180.95	20.723	
6700	5202	5362	5359	45	163	-76.82	3387	-3523	3650	3469	180.99	20.166	
6800	5203	5362	5360	48	163	-77.17	3387	-3523	3550	3369	181.03	19.609	
6900	5204	5363	5361	50	163	-77.52	3387	-3523	3450	3269	181.08	19.052	
7000	5204	5363	5361	52	163	-77.87	3387	-3523	3350	3169	181.12	18.496	
7100	5205	5364	5362	55	163	-78.23	3387	-3523	3250	3069	181.17	17.939	
7200	5206	5365	5363	57	163	-78.58	3387	-3523	3150	2969	181.22	17.383	
7300	5206	5365	5363	60	163	-78.93	3387	-3523	3050	2869	181.27	16.826	
7400	5207	5366	5364	62	163	-79.29	3387	-3523	2950	2769	181.33	16.270	
7500	5207	5367	5364	65	163	-79.64	3387	-3523	2850	2669	181.39	15.714	
7600	5208	5367	5365	67	163	-80.00	3387	-3523	2750	2569	181.45	15.157	
7700	5209	5368	5366	70	163	-80.36	3387	-3523	2650	2469	181.52	14.601	
7800	5209	5369	5366	72	163	-80.71	3387	-3523	2550	2369	181.59	14.045	
7900	5210	5369	5367	75	163	-81.07	3387	-3523	2451	2269	181.67	13.489	
8000	5211	5370	5368	77	163	-81.43	3387	-3523	2351	2169	181.76	12.933	
8100	5211	5370	5368	80	163	-81.79	3387	-3523	2251	2069	181.85	12.377	
8200	5212	5371	5369	82	163	-82.15	3387	-3523	2151	1969	181.95	11.821	
8300	5213	5372	5370	85	163	-82.51	3387	-3523	2051	1869	182.06	11.265	
8400	5213	5372	5370	87	163	-82.87	3387	-3523	1951	1769	182.19	10.709	
8500	5214	5373	5371	90	163	-83.24	3387	-3523	1851	1669	182.33	10.153	
8600	5214	5374	5371	92	163	-83.60	3387	-3523	1751	1569	182.49	9.597	
8700	5215	5374	5372	95	163	-83.96	3387	-3523	1651	1469	182.67	9.041	
8800	5216	5375	5373	97	163	-84.33	3387	-3523	1552	1369	182.88	8.485	
8900	5216	5376	5373	100	163	-84.69	3387	-3523	1452	1269	183.13	7.928	
9000	5217	5376	5374	102	163	-85.05	3387	-3523	1352	1169	183.43	7.372	
9100	5218	5377	5375	105	163	-85.42	3387	-3523	1252	1069	183.79	6.815	
9200	5218	5377	5375	108	163	-85.79	3387	-3523	1153	969	184.24	6.257	
9300	5219	5378	5376	110	163	-86.15	3387	-3523	1053	868	184.80	5.699	
9400	5220	5379	5377	113	163	-86.52	3387	-3523	954	768	185.53	5.140	
9500	5220	5379	5377	115	163	-86.88	3387	-3523	854	668	186.48	4.581	
9600	5221	5380	5378	118	163	-87.25	3387	-3523	755	567	187.79	4.021	
9700	5221	5381	5378	120	163	-87.62	3387	-3523	656	466	189.61	3.460	
9800	5222	5381	5379	123	163	-87.98	3387	-3523	557	365	192.28	2.899	
9900	5223	5382	5380	126	163	-88.35	3387	-3523	459	263	196.38	2.339	
10,000	5223	5382	5380	128	163	-88.72	3387	-3523	362	159	203.09	1.784	
10,100	5224	5383	5381	131	163	-89.09	3387	-3523	267	52	215.08	1.244	Level 3
10,200	5225	5384	5382	133	163	-89.45	3387	-3523	178	-61	239.14	0.746	Level 3
10,300	5225	5384	5382	136	164	-89.82	3387	-3523	110	-176	285.79	0.385	Level 3
10,349	5226	5385	5383	137	164	-90.00	3387	-3523	99	-202	300.61	0.329	Level 3, CC, ES, SF
10,400	5226	5385	5383	138	164	-90.19	3387	-3523	111	-175	286.54	0.389	Level 3
10,500	5226	5386	5383	141	164	-90.56	3387	-3523	181	-61	242.12	0.747	Level 3
10,600	5227	5386	5384	144	164	-90.92	3387	-3523	270	51	218.93	1.234	Level 3

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Federal 26-22 - OH - OH												Offset Site Error:	0 ft
Survey Program: 295-INCLINOMETER												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,700	5228	5387	5385	146	164	-91.29	3387	-3523	365	158	207.19	1.762	
10,800	5228	5388	5385	149	164	-91.66	3387	-3523	462	262	200.52	2.304	
10,900	5229	5388	5386	151	164	-92.03	3387	-3523	560	364	196.38	2.853	
11,000	5230	5389	5387	154	164	-92.39	3387	-3523	659	465	193.65	3.402	
11,100	5230	5389	5387	156	164	-92.76	3387	-3523	758	566	191.75	3.952	
11,200	5231	5390	5388	159	164	-93.13	3387	-3523	857	667	190.39	4.502	
11,300	5232	5391	5389	162	164	-93.49	3387	-3523	957	767	189.39	5.051	
11,400	5232	5391	5389	164	164	-93.86	3387	-3523	1056	867	188.63	5.598	
11,500	5233	5392	5390	167	164	-94.23	3387	-3523	1156	968	188.05	6.145	
11,600	5233	5393	5390	169	164	-94.59	3387	-3523	1255	1068	187.61	6.691	
11,700	5234	5393	5391	172	164	-94.96	3387	-3523	1355	1168	187.25	7.236	
11,800	5235	5394	5392	175	164	-95.32	3387	-3523	1455	1268	186.98	7.780	
11,900	5235	5395	5392	177	164	-95.68	3387	-3523	1555	1368	186.76	8.324	
12,000	5236	5395	5393	180	164	-96.05	3387	-3523	1654	1468	186.59	8.866	
12,100	5237	5396	5394	182	164	-96.41	3387	-3523	1754	1568	186.46	9.408	
12,200	5237	5396	5394	185	164	-96.77	3387	-3523	1854	1668	186.36	9.949	
12,300	5238	5397	5395	187	164	-97.14	3387	-3523	1954	1768	186.28	10.489	
12,400	5239	5398	5396	190	164	-97.50	3387	-3523	2054	1868	186.22	11.029	
12,500	5239	5398	5396	193	164	-97.86	3387	-3523	2154	1967	186.18	11.567	
12,600	5240	5399	5397	195	164	-98.22	3387	-3523	2254	2067	186.16	12.106	
12,700	5240	5400	5397	198	164	-98.58	3387	-3523	2353	2167	186.15	12.643	
12,800	5241	5400	5398	200	164	-98.94	3387	-3523	2453	2267	186.14	13.180	
12,900	5242	5401	5399	203	164	-99.30	3387	-3523	2553	2367	186.15	13.716	
12,945	5242	5401	5399	204	164	-99.46	3387	-3523	2598	2412	186.16	13.957	
12,946	5242	5401	5399	204	164	-99.46	3387	-3523	2599	2409	189.85	13.691	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Gallo Canyon Unit #203H - OH - OH												Offset Site Error:	0 ft
Survey Program: 147-MWD												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4700	4673	4178	4145	18	10	-48.49	-128	-1107	1571	1547	24.78	63.404	
4750	4722	4178	4145	18	10	-39.74	-128	-1107	1586	1561	24.66	64.321	
4800	4772	4215	4179	18	10	-37.97	-135	-1120	1597	1573	24.85	64.277	
4850	4820	4240	4201	18	10	-37.16	-140	-1130	1606	1581	24.93	64.446	
4900	4866	4267	4225	19	10	-36.88	-145	-1141	1612	1587	25.01	64.473	
4950	4911	4300	4255	19	11	-37.09	-152	-1155	1615	1590	25.15	64.232	
4992	4947	4327	4278	19	11	-37.49	-158	-1166	1616	1591	25.26	63.967	
5000	4954	4334	4284	19	11	-37.62	-159	-1169	1616	1590	25.29	63.871	
5050	4994	4379	4325	19	11	-38.71	-170	-1188	1612	1587	25.56	63.087	
5100	5031	4433	4372	19	11	-40.31	-181	-1210	1606	1580	25.91	61.986	
5150	5065	4451	4388	19	11	-41.35	-185	-1217	1597	1571	25.94	61.558	
5200	5096	4482	4415	19	12	-42.98	-192	-1230	1586	1559	26.13	60.678	
5250	5123	4494	4426	20	12	-44.33	-194	-1235	1572	1546	26.17	60.063	
5300	5146	4511	4441	20	12	-46.08	-198	-1243	1556	1530	26.32	59.117	
5350	5164	4526	4454	20	12	-48.02	-202	-1249	1538	1512	26.51	58.022	
5400	5179	4543	4469	21	12	-50.27	-206	-1257	1519	1492	26.80	56.683	
5450	5189	4554	4478	21	12	-52.54	-208	-1261	1498	1471	27.10	55.283	
5500	5194	4566	4489	22	12	-55.14	-211	-1267	1476	1449	27.52	53.636	
5530	5195	4572	4494	22	12	-56.75	-212	-1269	1462	1434	27.80	52.597	
5530	5195	4572	4494	22	12	-56.76	-212	-1269	1462	1434	27.80	52.592	
5599	5195	4584	4504	23	12	-57.26	-215	-1274	1432	1403	28.52	50.204	
5600	5195	4584	4504	23	12	-57.26	-215	-1274	1431	1403	28.53	50.160	
5696	5196	4600	4519	24	13	-57.98	-219	-1282	1393	1363	29.78	46.756	
5700	5196	4601	4519	25	13	-58.01	-219	-1282	1391	1361	29.84	46.618	
5794	5197	4627	4542	26	13	-59.15	-225	-1293	1359	1327	31.48	43.171	
5800	5197	4629	4543	26	13	-59.23	-225	-1294	1357	1325	31.59	42.954	
5891	5197	4654	4566	28	13	-60.34	-231	-1305	1331	1298	33.43	39.819	
5900	5197	4656	4568	28	13	-60.44	-231	-1306	1329	1295	33.61	39.543	
5988	5198	4660	4571	30	13	-60.61	-232	-1307	1310	1275	35.30	37.116	
6000	5198	4673	4583	30	13	-61.18	-235	-1313	1308	1272	35.71	36.632	
6085	5199	4683	4591	32	13	-61.62	-237	-1317	1296	1258	37.55	34.509	
6100	5199	4685	4593	32	13	-61.70	-238	-1318	1294	1256	37.89	34.165	
6181	5199	4695	4601	34	13	-62.12	-240	-1322	1289	1249	39.72	32.444	
6200	5199	4697	4603	34	13	-62.22	-240	-1323	1288	1248	40.15	32.084	
6232	5199	4701	4607	35	13	-62.39	-241	-1324	1288	1247	40.88	31.498	
6300	5200	4709	4614	36	13	-62.75	-243	-1328	1290	1247	42.43	30.389	
6400	5201	4721	4625	38	13	-63.30	-246	-1333	1298	1254	44.68	29.063	
6500	5201	4730	4632	41	14	-63.67	-248	-1337	1315	1268	46.75	28.124	
6600	5202	4743	4644	43	14	-64.26	-251	-1343	1338	1290	48.78	27.437	
6700	5202	4754	4653	45	14	-64.72	-253	-1347	1369	1318	50.58	27.063	
6800	5203	4761	4659	48	14	-65.03	-255	-1350	1405	1353	52.13	26.963 SF	
6900	5204	4772	4669	50	14	-65.53	-257	-1355	1448	1394	53.57	27.031	
7000	5204	4781	4677	52	14	-65.91	-260	-1359	1496	1441	54.78	27.312	
7100	5205	4793	4687	55	14	-66.43	-262	-1365	1549	1493	55.89	27.717	
7200	5206	4793	4687	57	14	-66.43	-262	-1365	1606	1550	56.57	28.393	
7300	5206	4793	4687	60	14	-66.43	-262	-1365	1668	1610	57.12	29.196	
7400	5207	4805	4697	62	14	-66.96	-265	-1370	1732	1675	57.82	29.962	
7500	5207	4809	4701	65	14	-67.13	-267	-1372	1800	1742	58.24	30.915	
7600	5208	4824	4713	67	14	-67.78	-271	-1379	1871	1813	58.82	31.815	
7700	5209	4824	4713	70	14	-67.78	-271	-1379	1945	1886	58.99	32.968	
7800	5209	4824	4713	72	14	-67.78	-271	-1379	2020	1961	59.10	34.188	
7900	5210	4824	4713	75	14	-67.78	-271	-1379	2098	2039	59.16	35.467	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Gallo Canyon Unit #203H - OH - OH													Offset Site Error:	0 ft	
Survey Program:		147-MWD						Rule Assigned:						Offset Well Error:	0 ft
Measured Depth	Reference	Vertical	Offset	Reference	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor			
8000		5211	4824	4713	77	14	-67.78	-271	-1379	2178	2118	59.18	36.799		
8100		5211	4824	4713	80	14	-67.78	-271	-1379	2259	2200	59.16	38.178		
8200		5212	4824	4713	82	14	-67.78	-271	-1379	2341	2282	59.13	39.599		
8300		5213	4824	4713	85	14	-67.78	-271	-1379	2425	2366	59.07	41.057		
8400		5213	4824	4713	87	14	-67.78	-271	-1379	2510	2451	59.00	42.550		
8500		5214	4824	4713	90	14	-67.78	-271	-1379	2596	2538	58.91	44.073		
8600		5214	4824	4713	92	14	-67.78	-271	-1379	2684	2625	58.82	45.623		
8700		5215	4838	4725	95	14	-68.40	-275	-1385	2771	2712	59.05	46.928		
8800		5216	4840	4727	97	14	-68.46	-275	-1385	2860	2801	58.98	48.489		
8900		5216	4841	4728	100	14	-68.52	-276	-1386	2949	2891	58.91	50.069		
9000		5217	4856	4740	102	15	-69.16	-281	-1392	3040	2981	59.14	51.395		
9100		5218	4856	4740	105	15	-69.16	-281	-1392	3130	3071	59.03	53.027		
9200		5218	4856	4740	108	15	-69.16	-281	-1392	3222	3163	58.93	54.673		
9300		5219	4856	4740	110	15	-69.16	-281	-1392	3313	3255	58.82	56.334		
9400		5220	4856	4740	113	15	-69.16	-281	-1392	3406	3347	58.71	58.007		
9500		5220	4856	4740	115	15	-69.16	-281	-1392	3498	3440	58.60	59.691		
9600		5221	4856	4740	118	15	-69.16	-281	-1392	3591	3533	58.50	61.386		
9700		5221	4856	4740	120	15	-69.16	-281	-1392	3685	3626	58.40	63.091		
9800		5222	4856	4740	123	15	-69.16	-281	-1392	3778	3720	58.30	64.804		
9900		5223	4856	4740	126	15	-69.16	-281	-1392	3872	3814	58.21	66.525		
10,000		5223	4856	4740	128	15	-69.16	-281	-1392	3967	3908	58.12	68.254		
10,100		5224	4856	4740	131	15	-69.16	-281	-1392	4061	4003	58.03	69.989		
10,200		5225	4856	4740	133	15	-69.16	-281	-1392	4156	4098	57.94	71.730		
10,300		5225	4856	4740	136	15	-69.16	-281	-1392	4251	4193	57.86	73.476		
10,400		5226	4856	4740	138	15	-69.16	-281	-1392	4346	4289	57.78	75.227		
10,500		5226	4856	4740	141	15	-69.16	-281	-1392	4442	4384	57.70	76.983		
10,600		5227	4856	4740	144	15	-69.16	-281	-1392	4538	4480	57.63	78.742		
10,700		5228	4856	4740	146	15	-69.16	-281	-1392	4633	4576	57.56	80.505		
10,800		5228	4856	4740	149	15	-69.16	-281	-1392	4730	4672	57.49	82.271		
10,900		5229	4856	4740	151	15	-69.16	-281	-1392	4826	4768	57.42	84.040		
11,000		5230	4856	4740	154	15	-69.16	-281	-1392	4922	4865	57.36	85.811		
11,100		5230	4856	4740	156	15	-69.16	-281	-1392	5019	4961	57.30	87.585		
11,200		5231	4856	4740	159	15	-69.16	-281	-1392	5115	5058	57.24	89.360		
11,300		5232	4856	4740	162	15	-69.16	-281	-1392	5212	5155	57.19	91.137		
11,400		5232	4856	4740	164	15	-69.16	-281	-1392	5309	5252	57.14	92.915		
11,500		5233	4856	4740	167	15	-69.16	-281	-1392	5406	5349	57.09	94.694		
11,600		5233	4856	4740	169	15	-69.16	-281	-1392	5503	5446	57.04	96.474		
11,700		5234	4856	4740	172	15	-69.16	-281	-1392	5600	5543	57.00	98.254		
11,800		5235	4856	4740	175	15	-69.16	-281	-1392	5698	5641	56.96	100.034		
11,900		5235	4856	4740	177	15	-69.16	-281	-1392	5795	5738	56.92	101.815		
12,000		5236	4856	4740	180	15	-69.16	-281	-1392	5892	5836	56.88	103.596		
12,100		5237	4856	4740	182	15	-69.16	-281	-1392	5990	5933	56.84	105.376		
12,200		5237	4856	4740	185	15	-69.16	-281	-1392	6088	6031	56.81	107.156		
12,300		5238	4856	4740	187	15	-69.16	-281	-1392	6185	6129	56.78	108.935		
12,400		5239	4856	4740	190	15	-69.16	-281	-1392	6283	6226	56.75	110.714		
12,500		5239	4856	4740	193	15	-69.16	-281	-1392	6381	6324	56.72	112.492		
12,600		5240	4856	4740	195	15	-69.16	-281	-1392	6479	6422	56.70	114.268		
12,700		5240	4856	4740	198	15	-69.16	-281	-1392	6577	6520	56.68	116.044		
12,800		5241	4856	4740	200	15	-69.16	-281	-1392	6675	6618	56.66	117.818		
12,900		5242	4856	4740	203	15	-69.16	-281	-1392	6773	6716	56.64	119.591		
12,945		5242	4856	4740	204	15	-69.16	-281	-1392	6817	6761	56.63	120.389		
12,946		5242	4856	4740	204	15	-69.16	-281	-1392	6818	6760	58.47	116.619		

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



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Gallo Canyon Unit #204H - OH - OH												Offset Site Error:	0 ft
Survey Program: 182-MWD												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
8300	5213	4938	4903	85	10	-59.02	117	-772	2284	2248	36.52	62.539	
8400	5213	4938	4903	87	10	-59.02	117	-772	2381	2345	36.42	65.371	
8500	5214	4922	4889	90	10	-58.13	114	-779	2478	2441	36.44	67.990	
8600	5214	4906	4874	92	10	-57.31	112	-786	2575	2539	36.47	70.611	
8700	5215	4906	4874	95	10	-57.31	112	-786	2672	2636	36.39	73.433	
8800	5216	4906	4874	97	10	-57.31	112	-786	2770	2734	36.32	76.258	
8900	5216	4906	4874	100	10	-57.31	112	-786	2868	2831	36.26	79.084	
9000	5217	4906	4874	102	10	-57.31	112	-786	2965	2929	36.20	81.910	
9100	5218	4906	4874	105	10	-57.31	112	-786	3063	3027	36.15	84.735	
9200	5218	4906	4874	108	10	-57.31	112	-786	3161	3125	36.11	87.559	
9300	5219	4906	4874	110	10	-57.31	112	-786	3260	3223	36.06	90.381	
9400	5220	4906	4874	113	10	-57.31	112	-786	3358	3322	36.03	93.200	
9500	5220	4891	4861	115	10	-56.59	110	-792	3456	3420	36.09	95.754	
9600	5221	4889	4860	118	10	-56.49	109	-792	3554	3518	36.08	98.523	
9700	5221	4875	4847	120	10	-55.81	107	-798	3653	3617	36.15	101.054	
9800	5222	4875	4847	123	10	-55.81	107	-798	3752	3715	36.13	103.844	
9900	5223	4875	4847	126	10	-55.81	107	-798	3850	3814	36.11	106.629	
10,000	5223	4875	4847	128	10	-55.81	107	-798	3949	3913	36.09	109.409	
10,100	5224	4875	4847	131	10	-55.81	107	-798	4048	4012	36.08	112.183	
10,200	5225	4875	4847	133	10	-55.81	107	-798	4146	4110	36.07	114.952	
10,300	5225	4875	4847	136	10	-55.81	107	-798	4245	4209	36.06	117.715	
10,400	5226	4875	4847	138	10	-55.81	107	-798	4344	4308	36.06	120.471	
10,500	5226	4875	4847	141	10	-55.81	107	-798	4443	4407	36.06	123.221	
10,600	5227	4875	4847	144	10	-55.81	107	-798	4542	4506	36.06	125.963	
10,700	5228	4875	4847	146	10	-55.81	107	-798	4641	4605	36.06	128.699	
10,800	5228	4875	4847	149	10	-55.81	107	-798	4740	4704	36.07	131.427	
10,900	5229	4875	4847	151	10	-55.81	107	-798	4839	4803	36.08	134.147	
11,000	5230	4875	4847	154	10	-55.81	107	-798	4939	4902	36.08	136.860	
11,100	5230	4875	4847	156	10	-55.81	107	-798	5038	5002	36.10	139.564	
11,200	5231	4875	4847	159	10	-55.81	107	-798	5137	5101	36.11	142.260	
11,300	5232	4875	4847	162	10	-55.81	107	-798	5236	5200	36.12	144.947	
11,400	5232	4875	4847	164	10	-55.81	107	-798	5335	5299	36.14	147.626	
11,500	5233	4875	4847	167	10	-55.81	107	-798	5435	5399	36.16	150.296	
11,600	5233	4875	4847	169	10	-55.81	107	-798	5534	5498	36.18	152.957	
11,700	5234	4861	4834	172	10	-55.16	103	-804	5633	5597	36.29	155.233	
11,800	5235	4860	4833	175	10	-55.12	103	-804	5733	5696	36.32	157.846	
11,900	5235	4859	4832	177	10	-55.08	103	-804	5832	5796	36.35	160.450	
12,000	5236	4858	4831	180	10	-55.04	103	-805	5931	5895	36.38	163.045	
12,100	5237	4843	4818	182	10	-54.41	99	-810	6031	5994	36.49	165.258	
12,200	5237	4843	4818	185	10	-54.41	99	-810	6130	6094	36.52	167.853	
12,300	5238	4843	4818	187	10	-54.41	99	-810	6230	6193	36.55	170.439	
12,400	5239	4843	4818	190	10	-54.41	99	-810	6329	6293	36.58	173.014	
12,500	5239	4843	4818	193	10	-54.41	99	-810	6429	6392	36.61	175.580	
12,600	5240	4843	4818	195	10	-54.41	99	-810	6528	6492	36.65	178.135	
12,700	5240	4843	4818	198	10	-54.41	99	-810	6628	6591	36.68	180.680	
12,800	5241	4843	4818	200	10	-54.41	99	-810	6727	6690	36.72	183.215	
12,900	5242	4843	4818	203	10	-54.41	99	-810	6827	6790	36.75	185.739	
12,945	5242	4843	4818	204	10	-54.41	99	-810	6872	6835	36.77	186.872	
12,946	5242	4843	4818	204	10	-54.41	99	-810	6873	6833	39.70	173.092	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Gallo Canyon Unit #422H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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
4750	4722	5554	4987	18	24	-96.05	-776	-118	722	683	38.97	18.521	
4800	4772	5545	4987	18	24	-95.60	-770	-124	705	666	39.86	17.698	
4850	4820	5531	4987	18	24	-95.27	-760	-134	693	652	40.55	17.079	
4900	4866	5514	4987	19	24	-94.53	-748	-146	683	642	41.01	16.653	
4950	4911	5491	4987	19	23	-93.31	-732	-162	677	635	41.25	16.404	
5000	4954	5465	4987	19	23	-91.62	-713	-180	673	632	41.28	16.310	
5042	4988	5441	4987	19	22	-89.94	-696	-197	673	631	41.17	16.336	
5050	4994	5435	4987	19	22	-89.56	-692	-201	673	631	41.13	16.352	
5100	5031	5402	4987	19	22	-87.23	-668	-225	674	633	40.83	16.504	
5150	5065	5365	4987	19	21	-84.76	-642	-251	677	636	40.46	16.730	
5200	5096	5326	4987	19	21	-82.25	-615	-278	681	641	40.05	17.000	
5250	5123	5288	4984	20	20	-79.82	-587	-304	686	646	39.68	17.279	
5300	5146	5250	4978	20	20	-77.40	-560	-330	691	652	39.35	17.558	
5350	5164	5216	4971	20	20	-75.23	-536	-353	697	657	39.09	17.821	
5400	5179	5181	4962	21	19	-73.10	-511	-376	702	663	39.01	18.007	
5450	5189	5150	4951	21	19	-71.20	-489	-395	708	670	38.96	18.183	
5500	5194	5114	4937	22	19	-69.19	-464	-417	714	675	38.98	18.326	
5530	5195	5100	4931	22	19	-68.34	-454	-426	718	679	39.13	18.348	
5600	5195	5050	4907	23	19	-66.43	-421	-454	727	688	39.31	18.499	
5700	5196	5000	4880	25	19	-64.26	-389	-480	746	706	39.92	18.690	
5800	5197	4950	4848	26	19	-61.87	-358	-504	772	732	40.52	19.055	
5900	5197	4900	4813	28	19	-59.31	-330	-526	806	765	41.05	19.629	
6000	5198	4869	4790	30	19	-57.66	-313	-538	847	805	41.76	20.273	
6100	5199	4850	4776	32	19	-56.63	-303	-545	895	852	42.53	21.040	
6200	5199	4800	4735	34	19	-53.89	-279	-561	949	907	42.70	22.231	
6300	5200	4800	4735	36	19	-53.89	-279	-561	1009	966	43.48	23.212	
6400	5201	4769	4708	38	19	-52.16	-265	-569	1074	1030	43.70	24.581	
6500	5201	4750	4692	41	19	-51.13	-257	-574	1143	1099	43.99	25.992	
6600	5202	4750	4692	43	19	-51.13	-257	-574	1217	1172	44.41	27.391	
6700	5202	4721	4666	45	19	-49.56	-246	-580	1292	1248	44.44	29.085	
6800	5203	4700	4647	48	19	-48.41	-238	-584	1371	1327	44.49	30.818	
6900	5204	4700	4647	50	19	-48.41	-238	-584	1452	1407	44.73	32.468	
7000	5204	4700	4647	52	19	-48.41	-238	-584	1535	1491	44.91	34.191	
7100	5205	4678	4626	55	19	-47.24	-230	-587	1620	1575	44.86	36.115	
7200	5206	4670	4619	57	19	-46.79	-228	-588	1706	1661	44.91	37.995	
7300	5206	4650	4600	60	19	-45.75	-222	-591	1794	1749	44.85	40.003	
7400	5207	4650	4600	62	19	-45.75	-222	-591	1883	1838	44.93	41.898	
7500	5207	4650	4600	65	19	-45.75	-222	-591	1972	1927	45.00	43.829	
7600	5208	4650	4600	67	19	-45.75	-222	-591	2063	2018	45.05	45.790	
7700	5209	4650	4600	70	19	-45.75	-222	-591	2154	2109	45.09	47.777	
7800	5209	4650	4600	72	19	-45.75	-222	-591	2246	2201	45.12	49.786	
7900	5210	4627	4578	75	19	-44.58	-215	-593	2338	2293	45.00	51.965	
8000	5211	4623	4574	77	19	-44.35	-214	-593	2432	2387	45.00	54.038	
8100	5211	4600	4552	80	19	-43.21	-208	-594	2526	2481	44.88	56.272	
8200	5212	4600	4552	82	19	-43.21	-208	-594	2620	2575	44.90	58.336	
8300	5213	4600	4552	85	19	-43.21	-208	-594	2714	2669	44.92	60.412	
8400	5213	4600	4552	87	19	-43.21	-208	-594	2809	2764	44.94	62.499	
8500	5214	4600	4552	90	19	-43.21	-208	-594	2904	2859	44.95	64.594	
8600	5214	4600	4552	92	19	-43.21	-208	-594	2999	2954	44.97	66.698	
8700	5215	4600	4552	95	19	-43.21	-208	-594	3095	3050	44.98	68.808	
8800	5216	4600	4552	97	19	-43.21	-208	-594	3191	3146	44.99	70.925	
8900	5216	4600	4552	100	19	-43.21	-208	-594	3287	3242	45.00	73.045	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Gallo Canyon Unit #422H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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	
9000	5217	4600	4552	102	19	-43.21	-208	-594	3383	3338	45.01	75.170	
9100	5218	4600	4552	105	19	-43.21	-208	-594	3480	3435	45.02	77.299	
9200	5218	4600	4552	108	19	-43.21	-208	-594	3577	3532	45.03	79.430	
9300	5219	4600	4552	110	19	-43.21	-208	-594	3674	3629	45.04	81.562	
9400	5220	4600	4552	113	19	-43.21	-208	-594	3771	3726	45.05	83.697	
9500	5220	4600	4552	115	19	-43.21	-208	-594	3868	3823	45.07	85.832	
9600	5221	4600	4552	118	19	-43.21	-208	-594	3966	3921	45.08	87.967	
9700	5221	4577	4529	120	19	-42.05	-203	-595	4063	4018	44.99	90.302	
9800	5222	4575	4527	123	19	-41.97	-203	-595	4160	4115	45.00	92.453	
9900	5223	4573	4526	126	18	-41.89	-203	-595	4258	4213	45.01	94.603	
10,000	5223	4550	4503	128	18	-40.79	-198	-594	4356	4311	44.92	96.969	
10,100	5224	4550	4503	131	18	-40.79	-198	-594	4454	4409	44.94	99.103	
10,200	5225	4550	4503	133	18	-40.79	-198	-594	4552	4507	44.96	101.235	
10,300	5225	4550	4503	136	18	-40.79	-198	-594	4650	4605	44.98	103.365	
10,400	5226	4550	4503	138	18	-40.79	-198	-594	4748	4703	45.01	105.493	
10,500	5226	4550	4503	141	18	-40.79	-198	-594	4846	4801	45.03	107.618	
10,600	5227	4550	4503	144	18	-40.79	-198	-594	4944	4899	45.05	109.742	
10,700	5228	4550	4503	146	18	-40.79	-198	-594	5043	4998	45.08	111.862	
10,800	5228	4550	4503	149	18	-40.79	-198	-594	5141	5096	45.10	113.979	
10,900	5229	4550	4503	151	18	-40.79	-198	-594	5239	5194	45.13	116.093	
11,000	5230	4550	4503	154	18	-40.79	-198	-594	5338	5293	45.16	118.203	
11,100	5230	4550	4503	156	18	-40.79	-198	-594	5436	5391	45.19	120.310	
11,200	5231	4550	4503	159	18	-40.79	-198	-594	5535	5490	45.22	122.413	
11,300	5232	4550	4503	162	18	-40.79	-198	-594	5634	5588	45.25	124.512	
11,400	5232	4550	4503	164	18	-40.79	-198	-594	5732	5687	45.28	126.607	
11,500	5233	4550	4503	167	18	-40.79	-198	-594	5831	5786	45.31	128.697	
11,600	5233	4550	4503	169	18	-40.79	-198	-594	5930	5885	45.34	130.783	
11,700	5234	4550	4503	172	18	-40.79	-198	-594	6029	5983	45.38	132.864	
11,800	5235	4550	4503	175	18	-40.79	-198	-594	6128	6082	45.41	134.941	
11,900	5235	4550	4503	177	18	-40.79	-198	-594	6226	6181	45.44	137.012	
12,000	5236	4550	4503	180	18	-40.79	-198	-594	6325	6280	45.48	139.079	
12,100	5237	4550	4503	182	18	-40.79	-198	-594	6424	6379	45.52	141.140	
12,200	5237	4550	4503	185	18	-40.79	-198	-594	6523	6478	45.56	143.196	
12,300	5238	4550	4503	187	18	-40.79	-198	-594	6622	6577	45.59	145.247	
12,400	5239	4550	4503	190	18	-40.79	-198	-594	6721	6676	45.63	147.292	
12,500	5239	4550	4503	193	18	-40.79	-198	-594	6821	6775	45.67	149.332	
12,600	5240	4550	4503	195	18	-40.79	-198	-594	6920	6874	45.71	151.366	
12,700	5240	4550	4503	198	18	-40.79	-198	-594	7019	6973	45.76	153.394	
12,800	5241	4550	4503	200	18	-40.79	-198	-594	7118	7072	45.80	155.417	
12,900	5242	4550	4503	203	18	-40.79	-198	-594	7217	7171	45.84	157.433	
12,945	5242	4550	4503	204	18	-40.79	-198	-594	7262	7216	45.86	158.339	
12,946	5242	4550	4503	204	18	-40.79	-198	-594	7263	7214	48.56	149.559	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Lybrook P26A 2306 COM #404H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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	
4700	4673	4534	4460	18	20	-45.58	-110	-732	1131	1097	34.05	33.212	
4750	4722	4584	4508	18	20	-37.73	-112	-741	1137	1102	34.38	33.067	
4800	4772	4600	4525	18	20	-36.20	-112	-745	1140	1105	34.43	33.100	
4850	4820	4626	4549	18	20	-35.80	-112	-750	1140	1105	34.53	33.009	
4900	4866	4650	4573	19	20	-35.87	-112	-757	1138	1103	34.61	32.882	
4950	4911	4650	4573	19	20	-35.91	-112	-757	1134	1099	34.41	32.949	
5000	4954	4680	4602	19	20	-36.62	-110	-765	1127	1092	34.51	32.655	
5050	4994	4700	4621	19	20	-37.41	-108	-771	1118	1083	34.49	32.414	
5100	5031	4716	4636	19	21	-38.36	-106	-777	1107	1072	34.42	32.151	
5150	5065	4734	4652	19	21	-39.57	-103	-783	1093	1059	34.39	31.797	
5200	5096	4750	4667	19	21	-40.99	-101	-789	1078	1044	34.36	31.376	
5250	5123	4768	4683	20	21	-42.71	-97	-796	1061	1027	34.40	30.841	
5300	5146	4785	4698	20	21	-44.66	-94	-803	1042	1007	34.48	30.219	
5350	5164	4800	4711	20	21	-46.83	-90	-810	1021	987	34.61	29.509	
5400	5179	4817	4726	21	21	-49.36	-86	-817	999	964	34.87	28.657	
5450	5189	4833	4739	21	21	-52.13	-82	-825	976	941	35.22	27.714	
5500	5194	4850	4753	22	21	-55.28	-77	-833	952	916	35.73	26.643	
5530	5195	4850	4753	22	21	-56.79	-77	-833	937	901	35.94	26.065	
5600	5195	4877	4775	23	22	-58.20	-68	-846	903	866	37.00	24.414	
5600	5195	4877	4775	23	22	-58.20	-68	-846	903	866	37.00	24.411	
5697	5196	4900	4793	24	22	-59.42	-60	-858	862	824	38.61	22.329	
5700	5196	4900	4793	25	22	-59.42	-60	-858	861	822	38.65	22.274	
5795	5197	4950	4830	26	22	-61.94	-41	-886	827	786	41.06	20.142	
5800	5197	4950	4830	26	22	-61.94	-41	-886	826	784	41.15	20.063	
5893	5197	5000	4864	28	23	-64.31	-19	-916	799	756	43.84	18.232	
5900	5197	5000	4864	28	23	-64.31	-19	-916	798	754	44.00	18.128	
5990	5198	5050	4894	30	23	-66.49	5	-947	778	731	46.88	16.605	
6000	5198	5050	4894	30	23	-66.49	5	-947	777	729	47.12	16.483	
6088	5199	5100	4921	32	24	-68.43	32	-980	763	713	50.09	15.240	
6100	5199	5111	4926	32	24	-68.84	38	-988	762	711	50.56	15.071	
6186	5199	5172	4952	34	24	-70.74	74	-1029	754	700	53.68	14.040	
6200	5199	5182	4956	34	25	-71.03	80	-1036	753	698	54.20	13.883	
6283	5200	5250	4976	36	25	-72.55	124	-1084	748	690	57.36	13.035	
6300	5200	5261	4979	36	26	-72.74	131	-1092	747	689	57.96	12.890	
6381	5200	5329	4990	38	27	-73.55	177	-1140	745	684	61.02	12.202	
6400	5201	5345	4991	38	27	-73.65	188	-1152	744	683	61.72	12.059	
6480	5201	5418	4993	40	28	-73.73	240	-1204	743	679	64.73	11.486	
6500	5201	5438	4993	41	28	-73.73	254	-1218	743	678	65.51	11.345	
6580	5202	5518	4993	42	30	-73.71	311	-1274	743	674	68.67	10.814	
6600	5202	5538	4994	43	30	-73.71	325	-1289	742	673	69.48	10.685	
6680	5202	5618	4994	45	31	-73.70	382	-1345	742	669	72.74	10.197	
6700	5202	5638	4994	45	32	-73.69	396	-1359	742	668	73.59	10.078	
6780	5203	5718	4995	47	33	-73.68	452	-1416	741	664	76.94	9.630	
6800	5203	5738	4995	48	34	-73.67	467	-1430	741	663	77.80	9.521	
6880	5204	5818	4995	49	35	-73.66	523	-1486	740	659	81.23	9.111	
6900	5204	5838	4995	50	36	-73.65	537	-1501	740	658	82.11	9.011	
6980	5204	5918	4996	52	37	-73.64	594	-1557	739	654	85.60	8.636	
7000	5204	5938	4996	52	38	-73.64	608	-1571	739	653	86.50	8.544	
7080	5205	6018	4997	54	40	-73.62	665	-1628	738	648	90.04	8.201	
7100	5205	6038	4997	55	40	-73.62	679	-1642	738	647	90.95	8.117	
7180	5205	6118	4997	57	42	-73.60	735	-1698	738	643	94.54	7.802	
7200	5206	6138	4997	57	42	-73.60	750	-1713	737	642	95.46	7.725	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Lybrook P26A 2306 COM #404H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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	
7280	5206	6218	4998	59	44	-73.58	806	-1769	737	638	99.08	7.435	
7300	5206	6238	4998	60	44	-73.58	821	-1783	737	637	100.01	7.364	
7380	5207	6318	4999	62	46	-73.56	877	-1839	736	632	103.67	7.098	
7400	5207	6338	4999	62	47	-73.56	891	-1854	736	631	104.61	7.033	
7480	5207	6418	4999	64	49	-73.55	948	-1910	735	627	108.30	6.787	
7500	5207	6438	4999	65	49	-73.54	962	-1924	735	626	109.24	6.727	
7580	5208	6518	5000	67	51	-73.53	1019	-1981	734	621	112.95	6.500	
7600	5208	6538	5000	67	51	-73.52	1033	-1995	734	620	113.90	6.444	
7680	5209	6618	5000	69	53	-73.51	1089	-2051	733	616	117.64	6.234	
7700	5209	6638	5001	70	54	-73.50	1104	-2066	733	615	118.59	6.182	
7780	5209	6718	5001	72	56	-73.49	1160	-2122	732	610	122.35	5.987	
7800	5209	6738	5001	72	56	-73.48	1175	-2136	732	609	123.30	5.939	
7880	5210	6818	5002	74	58	-73.47	1231	-2193	732	605	127.07	5.758	
7900	5210	6838	5002	75	58	-73.46	1245	-2207	731	603	128.04	5.713	
7980	5211	6918	5002	77	60	-73.45	1302	-2263	731	599	131.82	5.544	
8000	5211	6938	5003	77	61	-73.45	1316	-2278	731	598	132.79	5.502	
8080	5211	7018	5003	79	63	-73.43	1373	-2334	730	593	136.58	5.344	
8100	5211	7038	5003	80	63	-73.43	1387	-2348	730	592	137.55	5.305	
8180	5212	7118	5004	82	65	-73.41	1443	-2404	729	588	141.36	5.158	
8200	5212	7138	5004	82	66	-73.41	1458	-2419	729	587	142.33	5.121	
8280	5212	7218	5004	84	68	-73.39	1514	-2475	728	582	146.15	4.983	
8300	5213	7238	5004	85	68	-73.39	1529	-2489	728	581	147.13	4.949	
8380	5213	7318	5005	87	70	-73.37	1585	-2546	727	576	150.96	4.819	
8400	5213	7338	5005	87	71	-73.37	1599	-2560	727	575	151.93	4.787	
8480	5214	7418	5006	89	73	-73.35	1656	-2616	727	571	155.77	4.665	
8500	5214	7438	5006	90	73	-73.35	1670	-2631	726	570	156.75	4.634	
8580	5214	7518	5006	92	75	-73.33	1726	-2687	726	565	160.59	4.519	
8600	5214	7538	5006	92	76	-73.33	1741	-2701	726	564	161.57	4.491	
8680	5215	7618	5007	94	78	-73.31	1797	-2758	725	559	165.42	4.382	
8700	5215	7638	5007	95	78	-73.31	1812	-2772	725	558	166.40	4.355	
8780	5216	7718	5007	97	80	-73.29	1868	-2828	724	554	170.26	4.253	
8800	5216	7738	5008	97	81	-73.29	1882	-2843	724	553	171.24	4.227	
8880	5216	7818	5008	99	83	-73.27	1939	-2899	723	548	175.11	4.130	
8900	5216	7838	5008	100	83	-73.27	1953	-2913	723	547	176.09	4.106	
8980	5217	7918	5009	102	85	-73.25	2010	-2969	722	542	179.96	4.014	
9000	5217	7938	5009	102	86	-73.25	2024	-2984	722	541	180.94	3.991	
9080	5217	8018	5009	105	88	-73.23	2080	-3040	722	537	184.81	3.904	
9100	5218	8038	5010	105	88	-73.23	2095	-3054	721	536	185.80	3.883	
9180	5218	8118	5010	107	90	-73.21	2151	-3111	721	531	189.67	3.800	
9200	5218	8138	5010	108	91	-73.21	2166	-3125	721	530	190.66	3.779	
9280	5219	8218	5011	110	93	-73.20	2222	-3181	720	525	194.54	3.700	
9300	5219	8238	5011	110	93	-73.19	2236	-3196	720	524	195.53	3.681	
9380	5219	8318	5011	112	95	-73.18	2293	-3252	719	520	199.41	3.606	
9400	5220	8338	5011	113	96	-73.17	2307	-3266	719	518	200.40	3.587	
9480	5220	8418	5012	115	98	-73.16	2364	-3323	718	514	204.28	3.516	
9500	5220	8438	5012	115	98	-73.15	2378	-3337	718	513	205.28	3.498	
9580	5221	8518	5013	117	100	-73.14	2434	-3393	717	508	209.16	3.430	
9600	5221	8538	5013	118	101	-73.13	2449	-3408	717	507	210.15	3.413	
9680	5221	8618	5013	120	103	-73.12	2505	-3464	717	502	214.04	3.348	
9700	5221	8638	5013	120	103	-73.11	2520	-3478	716	501	215.03	3.331	
9780	5222	8718	5014	122	105	-73.10	2576	-3534	716	497	218.93	3.269	
9800	5222	8738	5014	123	106	-73.09	2590	-3549	716	496	219.92	3.253	

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



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Lybrook P26A 2306 COM #404H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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	
9880	5223	8818	5015	125	108	-73.08	2647	-3605	715	491	223.81	3.194	
9900	5223	8838	5015	126	108	-73.07	2661	-3619	715	490	224.80	3.179	
9980	5223	8918	5015	128	110	-73.05	2718	-3676	714	485	228.70	3.122	
10,000	5223	8938	5015	128	111	-73.05	2732	-3690	714	484	229.69	3.108	
10,080	5224	9018	5016	130	113	-73.03	2788	-3746	713	480	233.59	3.053	
10,100	5224	9038	5016	131	113	-73.03	2803	-3761	713	478	234.58	3.039	
10,180	5224	9118	5016	133	115	-73.01	2859	-3817	712	474	238.48	2.987	
10,200	5225	9138	5017	133	116	-73.01	2873	-3831	712	473	239.48	2.974	
10,280	5225	9218	5017	135	118	-72.99	2930	-3888	711	468	243.38	2.923	
10,300	5225	9238	5017	136	118	-72.99	2944	-3902	711	467	244.37	2.911	
10,380	5226	9318	5018	138	121	-72.97	3001	-3958	711	462	248.27	2.862	
10,400	5226	9338	5018	138	121	-72.97	3015	-3973	710	461	249.27	2.850	
10,480	5226	9418	5018	140	123	-72.95	3071	-4029	710	457	253.17	2.804	
10,500	5226	9438	5018	141	124	-72.95	3086	-4043	710	455	254.16	2.792	
10,580	5227	9518	5019	143	126	-72.93	3142	-4099	709	451	258.06	2.747	
10,600	5227	9538	5019	144	126	-72.93	3157	-4114	709	450	259.06	2.736	
10,680	5228	9618	5020	146	128	-72.91	3213	-4170	708	445	262.96	2.693	
10,700	5228	9638	5020	146	129	-72.91	3227	-4184	708	444	263.96	2.682	
10,780	5228	9718	5020	148	131	-72.89	3284	-4241	707	439	267.86	2.640	
10,800	5228	9738	5020	149	131	-72.89	3298	-4255	707	438	268.86	2.630	
10,880	5229	9818	5021	151	133	-72.87	3355	-4311	706	434	272.76	2.590	
10,900	5229	9838	5021	151	134	-72.87	3369	-4326	706	433	273.76	2.580	
10,980	5230	9918	5022	153	136	-72.85	3425	-4382	706	428	277.67	2.541	
11,000	5230	9938	5022	154	136	-72.85	3440	-4396	705	427	278.66	2.531	
11,080	5230	10,018	5022	156	138	-72.83	3496	-4453	705	422	282.57	2.494	
11,100	5230	10,038	5022	156	139	-72.83	3511	-4467	705	421	283.56	2.485	
11,180	5231	10,118	5023	159	141	-72.81	3567	-4523	704	416	287.47	2.449	
11,200	5231	10,138	5023	159	141	-72.81	3581	-4538	704	415	288.47	2.440	
11,280	5231	10,218	5023	161	143	-72.79	3638	-4594	703	411	292.37	2.405	
11,300	5232	10,238	5024	162	144	-72.78	3652	-4608	703	410	293.37	2.396	
11,380	5232	10,318	5024	164	146	-72.77	3709	-4664	702	405	297.28	2.362	
11,400	5232	10,338	5024	164	147	-72.76	3723	-4679	702	404	298.27	2.354	
11,480	5233	10,418	5025	166	149	-72.75	3779	-4735	701	399	302.18	2.321	
11,500	5233	10,438	5025	167	149	-72.74	3794	-4749	701	398	303.18	2.313	
11,580	5233	10,518	5025	169	151	-72.73	3850	-4806	701	393	307.08	2.281	
11,600	5233	10,538	5025	169	152	-72.72	3864	-4820	700	392	308.08	2.273	
11,680	5234	10,618	5026	171	154	-72.70	3921	-4876	700	388	311.99	2.243	
11,700	5234	10,638	5026	172	154	-72.70	3935	-4891	700	387	312.98	2.235	
11,780	5235	10,718	5027	174	156	-72.68	3992	-4947	699	382	316.89	2.205	
11,800	5235	10,738	5027	175	157	-72.68	4006	-4961	699	381	317.89	2.198	
11,880	5235	10,818	5027	177	159	-72.66	4062	-5018	698	376	321.79	2.169	
11,900	5235	10,838	5027	177	159	-72.66	4077	-5032	698	375	322.79	2.162	
11,980	5236	10,918	5028	179	161	-72.64	4133	-5088	697	371	326.70	2.134	
12,000	5236	10,938	5028	180	162	-72.64	4148	-5103	697	369	327.70	2.127	
12,080	5237	11,018	5029	182	164	-72.62	4204	-5159	696	365	331.60	2.100	
12,100	5237	11,038	5029	182	165	-72.62	4218	-5173	696	364	332.60	2.093	
12,180	5237	11,118	5029	184	167	-72.60	4275	-5229	696	359	336.51	2.067	
12,200	5237	11,138	5029	185	167	-72.59	4289	-5244	695	358	337.50	2.060	
12,280	5238	11,218	5030	187	169	-72.58	4346	-5300	695	353	341.41	2.035	
12,300	5238	11,238	5030	187	170	-72.57	4360	-5314	695	352	342.41	2.028	
12,380	5238	11,318	5030	190	172	-72.56	4416	-5371	694	348	346.31	2.004	
12,400	5239	11,338	5031	190	172	-72.55	4431	-5385	694	346	347.31	1.997	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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: P26A 2306 Pad - Lybrook P26A 2306 COM #404H - Original Drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM									Rule Assigned:				Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
12,480	5239	11,418	5031	192	174	-72.54	4487	-5441	693	342	351.22	1.973		
12,500	5239	11,438	5031	193	175	-72.53	4502	-5456	693	341	352.21	1.967		
12,580	5240	11,518	5032	195	177	-72.51	4558	-5512	692	336	356.12	1.944		
12,600	5240	11,538	5032	195	177	-72.51	4572	-5526	692	335	357.12	1.938		
12,680	5240	11,618	5032	197	179	-72.49	4629	-5583	691	330	361.02	1.915		
12,700	5240	11,638	5033	198	180	-72.49	4643	-5597	691	329	362.02	1.909		
12,780	5241	11,718	5033	200	182	-72.47	4700	-5653	691	325	365.92	1.887		
12,800	5241	11,738	5033	200	182	-72.47	4714	-5668	690	323	366.92	1.881		
12,880	5242	11,818	5034	202	185	-72.45	4770	-5724	690	319	370.82	1.860		
12,900	5242	11,838	5034	203	185	-72.44	4785	-5738	690	318	371.82	1.854		
12,939	5242	11,871	5034	204	186	-72.44	4808	-5762	689	316	373.65	1.845		
12,945	5242	11,871	5034	204	186	-72.44	4808	-5762	689	315	373.84	1.844		
12,945	5242	11,871	5034	204	186	-72.44	4808	-5762	689	315	373.83	1.844		
12,946	5242	11,871	5034	204	186	-72.44	4808	-5762	689	315	373.85	1.844 SF		

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



Lonestar Consulting, LLC

Anticollision Report

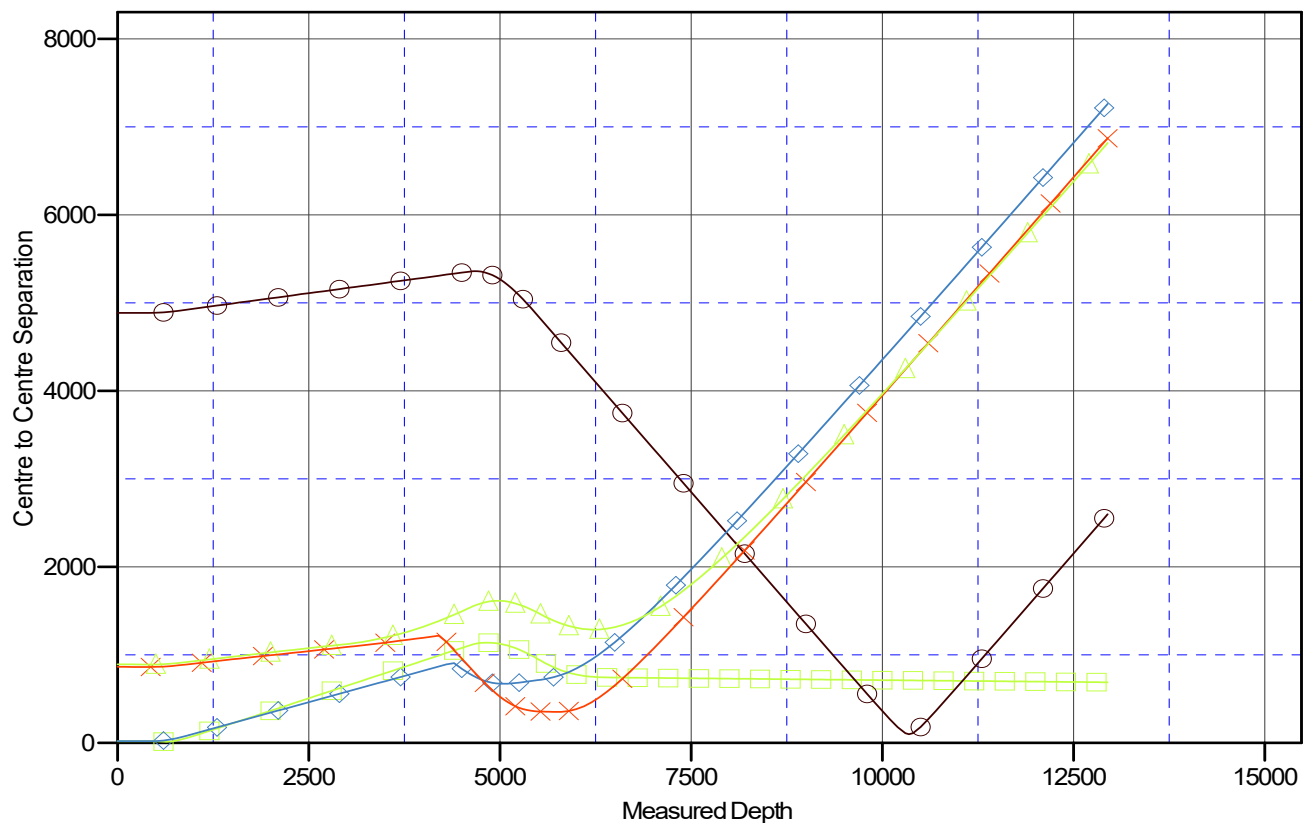


Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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 6869' & RKB 14' @ 6883ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: Lybrook P26A 2306 COM #325H - Slot 2
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.24°

Ladder Plot



LEGEND

Lybrook P26A 2306 COM #325H - Slot 2
 Gallo Canyon Unit #42 2H Original Drilling APD
 Gallo Canyon Unit #20 4H Original Drilling APD
 Gallo Canyon Unit #20 3H Original Drilling APD
 Gallo Canyon Unit #20 4H Original Drilling APD

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



Lonestar Consulting, LLC

Anticollision Report

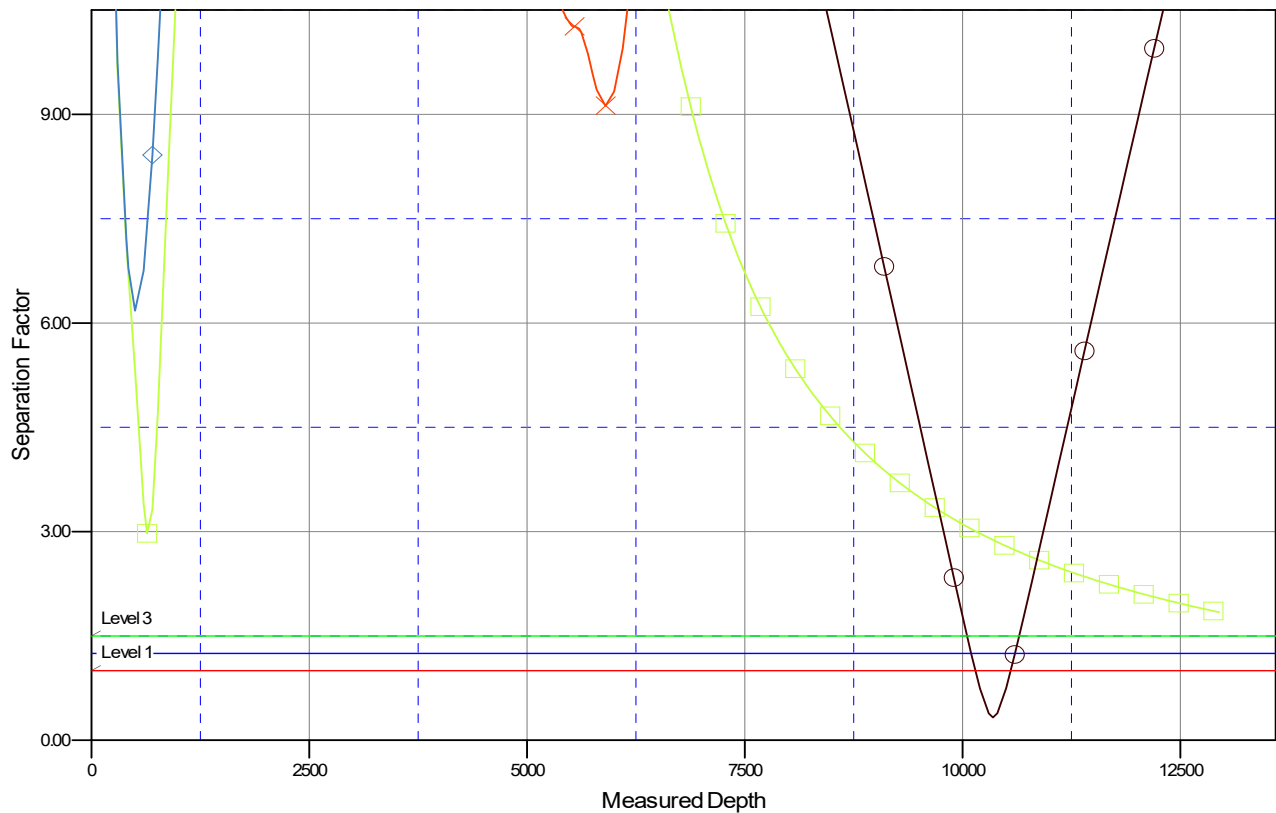


Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #325H - Slot 2
Project:	Gallo Canyon Unit	TVD Reference:	GL 6869' & RKB 14' @ 6883ft
Reference Site:	P26A 2306 Pad	MD Reference:	GL 6869' & RKB 14' @ 6883ft
Site Error:	0 ft	North Reference:	True
Reference Well:	Lybrook P26A 2306 COM #325H	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 6869' & RKB 14' @ 6883ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333333

Coordinates are relative to: Lybrook P26A 2306 COM #325H - Slot 2
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND

Lybrook P26A 2306 COM #325H Original Drilling APD V0
 Gallo Canyon Unit #42 2H Original Drilling APD V0
 Gallo Canyon Unit #20 3H Original Drilling APD V0
 Gallo Canyon Unit #20 4H Original Drilling APD V0



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

* DJR OPERATING LLC
#325H LYBROOK P26A-2306 COM
Lease: NMNM118128 Agreement: TBD
SH: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 26, T. 23 N., R. 6 W.
Sandoval County, New Mexico
BH: SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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.

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.
- B. Emergency program changes after hours contact:

Virgil Lucero (505) 793-1836
Kenneth Rennick (505) 564-7742
Matthew Kade (505) 564-7736

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 453938

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 453938
	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.	4/21/2025
scrues76	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/21/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/11/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/11/2025
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.	6/11/2025
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.	6/11/2025