

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. 30-043-21521
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration
24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SESE / 285 FSL / 55 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.189625 / LONG: -107.429084 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 476 FSL / 1251 FEL / TWSP: 23N / RANGE: 6W / SECTION: 26 / LAT: 36.19019 / LONG: -107.433137 (TVD: 4991 feet, MD: 5537 feet)

PPP: NENE / 820 FNL / 1 FEL / TWSP: 23N / RANGE: 6W / SECTION: 27 / LAT: 36.20119 / LONG: -107.44668 (TVD: 5034 feet, MD: 11871 feet)

BHL: NENE / 228 FNL / 587 FEL / TWSP: 23N / RANGE: 6W / SECTION: 27 / LAT: 36.202808 / LONG: -107.448673 (TVD: 5034 feet, MD: 11871 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 30-043-21521	Pool Code 13379	Pool Name COUNSELORS GALLUP-DAKOTA
Property Code 337331 325257-	Property Name LYBROOK P26A-2306 COM	Well Number 404H
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		285' SOUTH	55' EAST	36.189625° N	107.429084° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	27	23N	6W		228' NORTH	587' EAST	36.202808° N	107.448673° W	SANDOVAL

Dedicated Acres PENETRATED SPACING UNIT; OUT OF UNIT: SEC 27: NE/NE (40 AC.) IN UNIT: SEC 26: SE/SE, SW/SE, NW/SE, NE/SW, SE/NW, SW/NW & NW/NW (280 AC.); SEC 22 SE/SE (40 AC.) = 360 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		476' SOUTH	1251' EAST	36.190190° N	107.433137° 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		476' SOUTH	1251' EAST	36.190190° N	107.433137° W	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	27	23N	6W		228' NORTH	587' EAST	36.202808° N	107.448673° 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

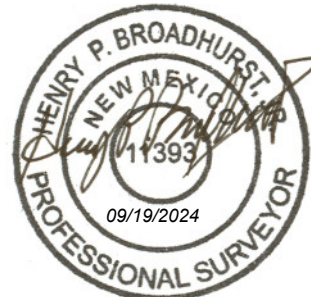
12/31/2024
Date

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

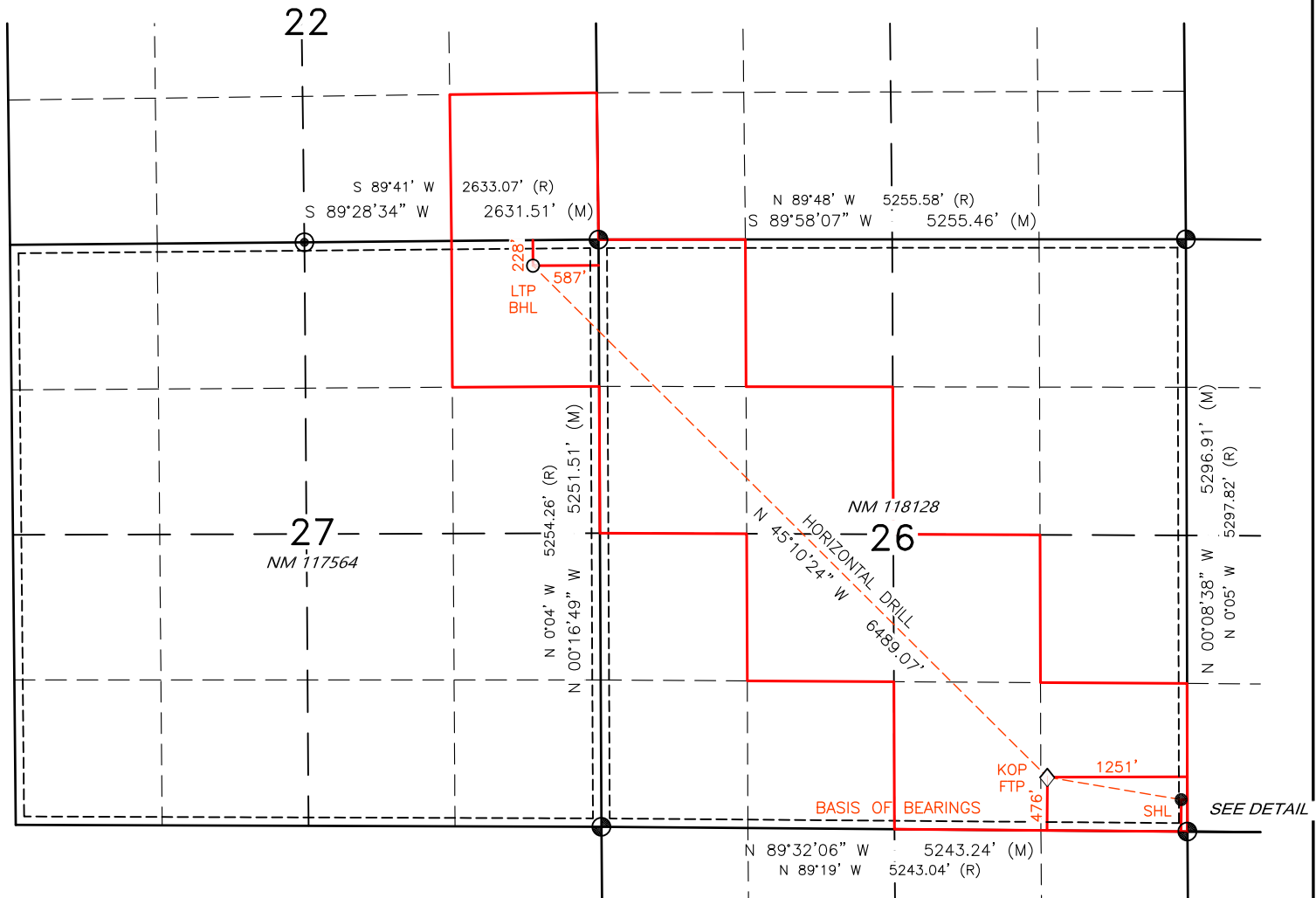
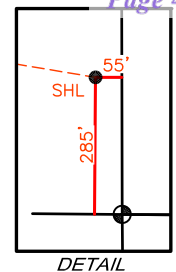
Date of Survey

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) ●
285' FSL 55' FEL
SEC. 26, T23N, R6W
LAT. 36.189625° N (NAD83)
LONG. 107.429084° W (NAD83)

FIRST TAKE POINT (FTP) ◇
476' FSL 1251' FEL
SEC. 26, T23N, R6W
LAT. 36.190190° N (NAD83)
LONG. 107.433137° W (NAD83)

BOTTOM HOLE LOCATION (BHL) ○
228' FNL 587' FEL
SEC. 27, T23N, R6W
LAT. 36.202808° N (NAD83)
LONG. 107.448673° W (NAD83)

KICK OFF POINT (KOP) △
476' FSL 1251' FEL
SEC. 26, T23N, R6W
LAT. 36.190190° N (NAD83)
LONG. 107.433137° W (NAD83)

LAST TAKE POINT (LTP) □
228' FNL 587' FEL
SEC. 27, T23N, R6W
LAT. 36.202808° N (NAD83)
LONG. 107.448673° 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



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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.



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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 #404H

Sandoval County, New Mexico

Surface Location

55-ft FEL & 285-ft FSL
 Sec 26 T23N R6W
 Graded Elevation 6869' MSL
 RKB Elevation 6883' (14' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1896250° N
 Longitude 107.4290840° W

Kick Off Point for Horizontal Build Curve

4592-ft MD
 4517-ft TVD

Local Coordinates (from SHL)

121-ft South
 761-ft West

Heel Location (Pay zone entry)

1251-ft FEL & 476-ft FSL
 Sec 26 T23N R6W

Heel Geographical Coordinates (NAD-83)

Latitude 36.19018998° N
 Longitude 107.43313723° W

Bottom Hole Location (TD)

587-ft FEL & 228-ft FNL
 Sec 27 T23N R6W

BHL Geographical Coordinates (NAD-83)

Latitude 36.20280765° N
 Longitude 107.4486725° W

Well objectives

This well is planned as a 6490-ft lateral in the Mancos Silt sand.

Bottom Hole temperature and pressure

The temperature in the Mancos Silt horizontal objective is 138°F. Bottom hole pressure in the Mancos Silt is forecast to be 1985 psi.

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	1327	1317	Sd	W	8.3	8.4 – 8.8
Kirtland	1441	1428	Sh	-	8.3	8.4 – 8.8
Fruitland	1646	1629	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1882	1861	Sd	W	8.3	9.0 - 9.5
Lewis	1989	1965	Sh	-		9.0 - 9.5
Chacra	2761	2722	Sd	-	8.3	9.0 - 9.5
Menefee	3433	3381	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4153	4086	Sd	-	8.3	9.0 - 9.5
Mancos	4356	4285	Sh	-		9.0 - 9.5
Mancos Silt	4739	4657	Slt	O/G	6.6	9.0 - 9.5
Gallup A	NP	NP	Slt	O/G	6.6	9.0 - 9.5
Gallup B	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Gallup C	NP	NP	Sd	O/G	6.6	8.8 - 9.0
Target	5382	4993	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	5337	surf	4991	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5096	11871	4918	5034	5096

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

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

7" Intermediate Casing

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	4356-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	486	104
Volume (bbls)	201	28
Volume (cu.ft.)	1127	157
Excess %	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	5096-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	586
Volume (cu.ft)	159
Excess %	890
	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 – 5337	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5337 – 11871	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.

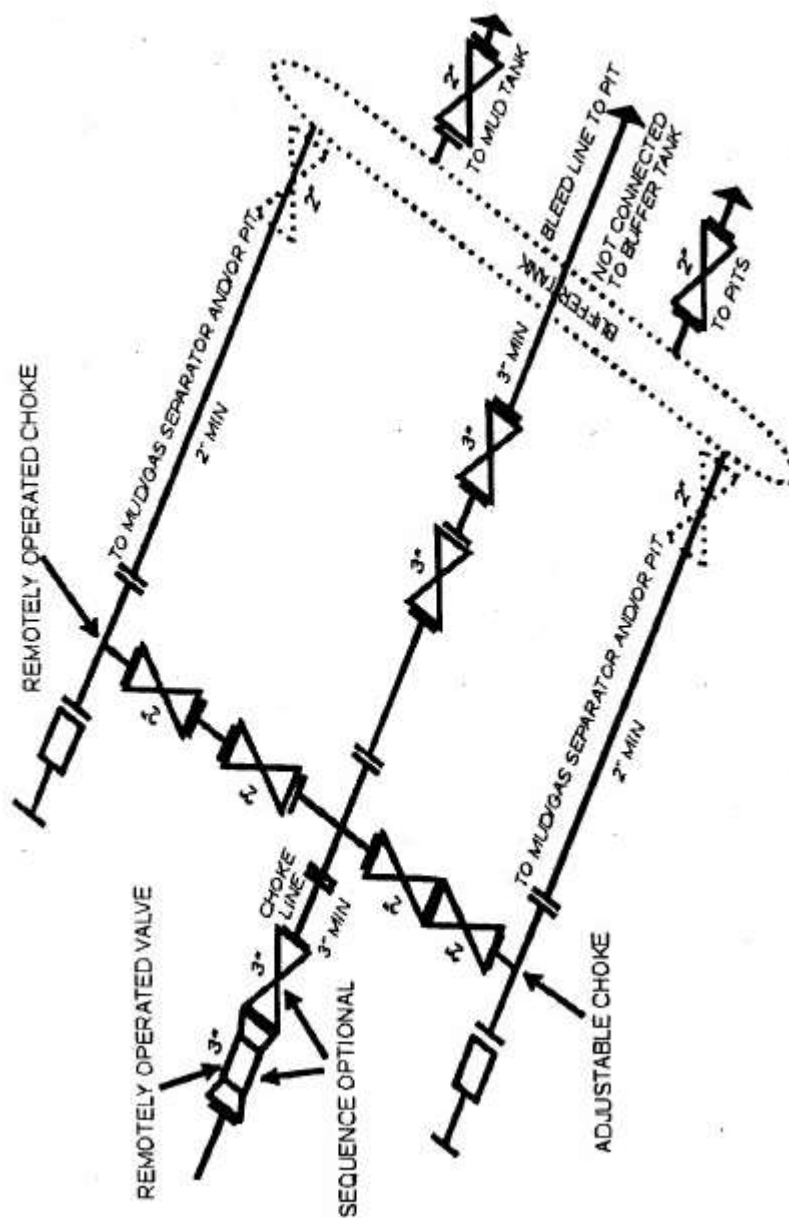
Completion

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.



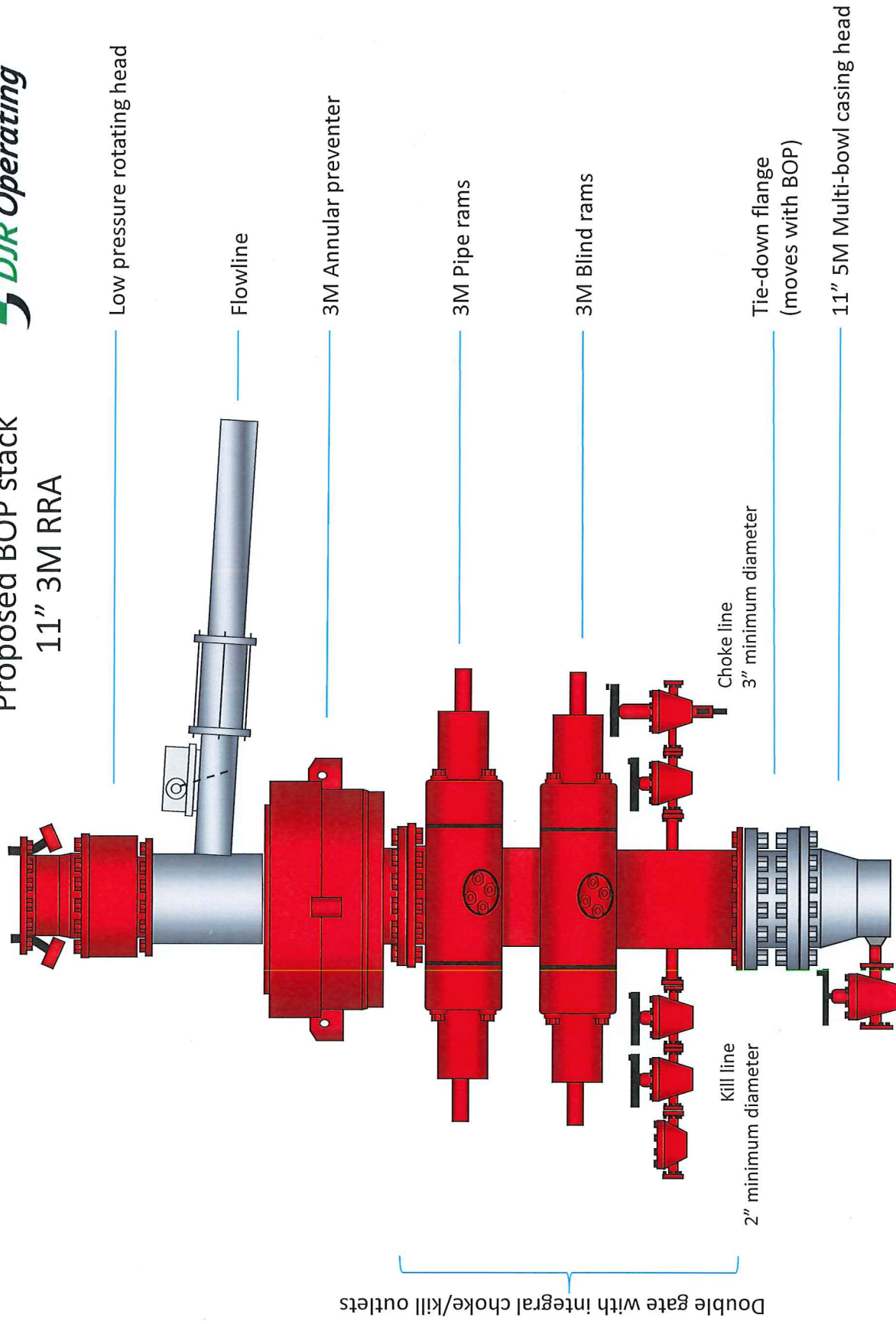
Choke Manifold

Actual system to conform with Onshore Order 2





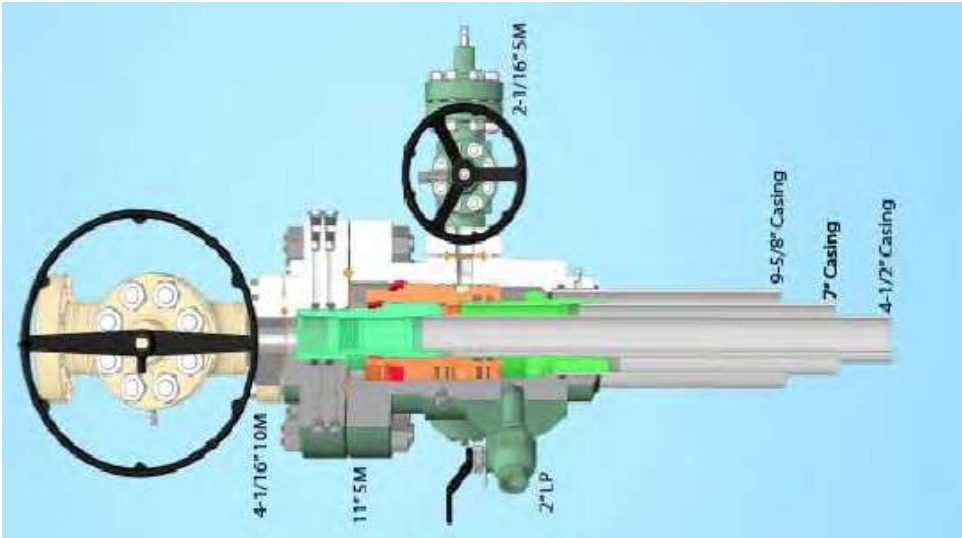
Proposed BOP stack 11" 3M RRA



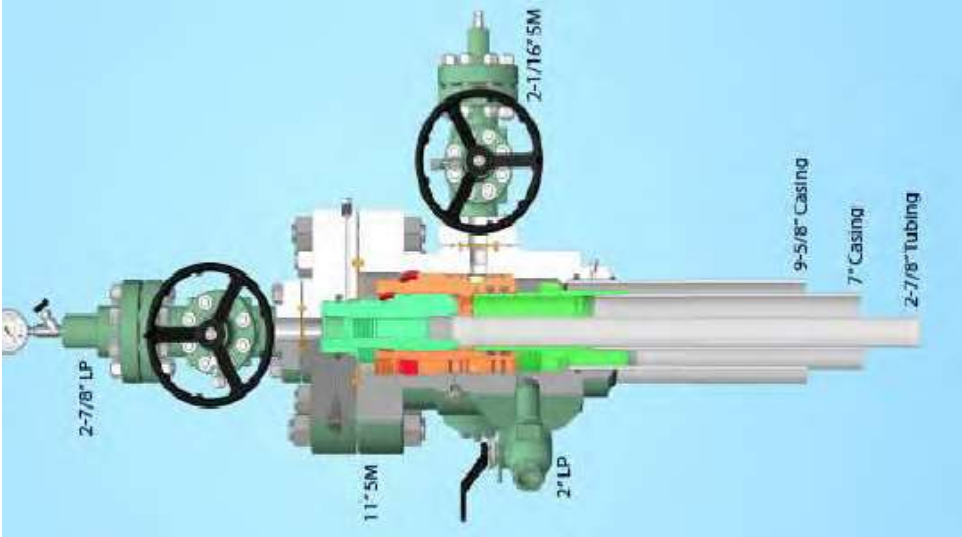


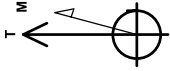
Proposed Wellhead
11" 5M Multi-bowl

Frac configuration with 4-1/2" tieback



Production configuration with 2-7/8" tubing





Azimuths to True North: 847.0°
Magnetic North: 847.0°
Magnetic Field:
Strength: 49003.5 T
Dip Angle: 62.0°
Date: 8/8/2022
Model: HDGM2022

CASING DETAILS

MD	Name
380	Surface
5337	Intermediate

FORMATION DETAILS

Formation	MDPath	TVDPath
Ojo Alamo	1327	1317
Kirtland	1441	1428
Fruitland	1646	1629
Pictured Cliffs	1882	1861
Lewis	1989	1965
Chacra	2761	2722
Menefee	3433	3381
Point Lookout	4153	4086
Mancos	4356	4285
Mancos Silt	4739	4657

WELL DETAILS: Lybrook P26A 2306 COM #404H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0	0	1888569.21	2842376.91	36.18962500	-107.42908400

Plan: APD (Lybrook P26A 2306 COM #404H/Original Drilling)

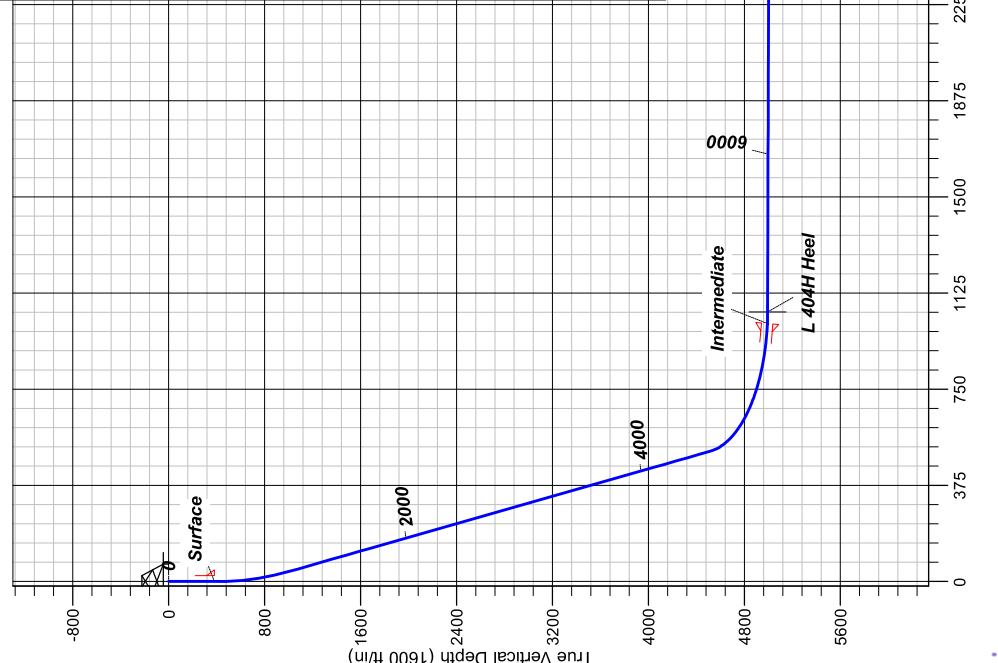
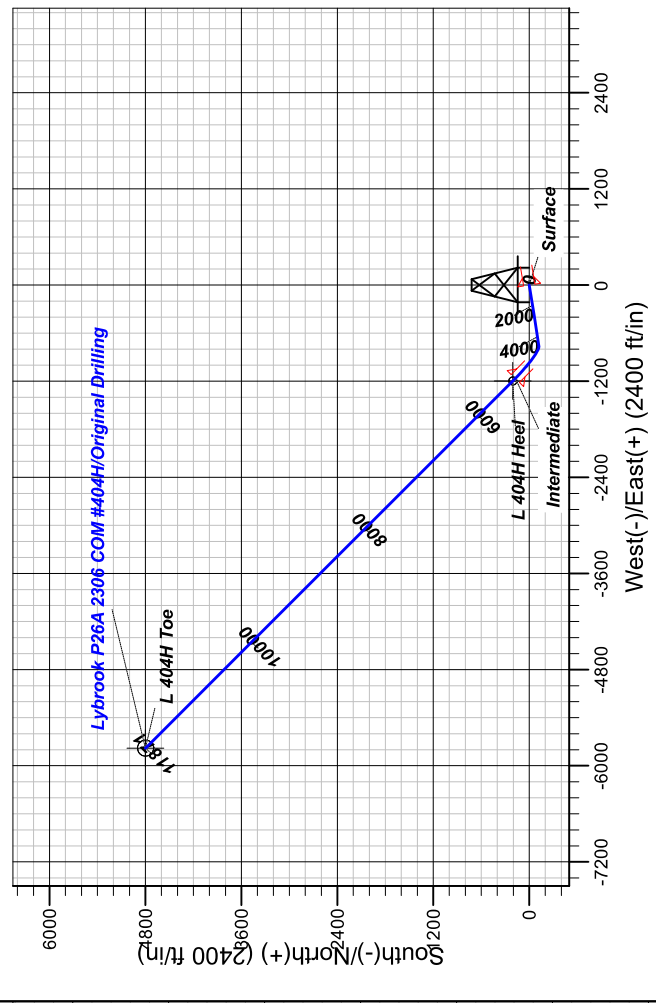
Created By: Janie Collins Date: 10:44, August 08 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
L-104H Heel	4993	206	-1196	18887.69.92	284.1180.04	36.19018998	-107.43313723
L-104H Toe	5034	4799	-5779	18993344.49	2836577.71	36.20280765	-107.44867252

SECTION DETAILS

MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec
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
997	11.45	260.98	993	-9	-56	2.00	260.98	38
4592	11.45	260.98	4517	-121	-761	0.00	0.00	508
5382	89.63	315.07	5383	206	-1196	10.50	54.69	1052
1811	89.63	315.07	4934	4799	-5779	0.00	0.00	7512



Lybrook P26A 2306 COM #404H/Original Drilling/APD

L 404H Toe



DJR Operating

Gallo Canyon Unit

P26A 2306 Pad

Lybrook P26A 2306 COM #404H - Slot 3

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 #404H - Slot 3
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 #404H	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 #404H - Slot 3					
Well Position	+N/-S	0 ft	Northing:	1,888,569.22 usft	Latitude:	36.18962500
	+E/-W	0 ft	Easting:	2,842,376.91 usft	Longitude:	-107.42908400
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	309.71

Plan Survey Tool Program	Date	8/8/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	11,871	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	
997	11.45	260.98	993	-9	-56	2.00	2.00	0.00	260.98	
4592	11.45	260.98	4517	-121	-761	0.00	0.00	0.00	0.00	
5382	89.63	315.07	4993	206	-1196	10.50	9.90	6.85	54.69	L 404H Heel
11,871	89.63	315.07	5034	4799	-5779	0.00	0.00	0.00	0.00	L 404H Toe



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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	260.98	500	0	-1	1	2.00	2.00	0.00
600	3.50	260.98	600	-1	-5	4	2.00	2.00	0.00
700	5.50	260.98	700	-2	-13	9	2.00	2.00	0.00
800	7.50	260.98	799	-4	-24	16	2.00	2.00	0.00
900	9.50	260.98	898	-6	-39	26	2.00	2.00	0.00
997	11.45	260.98	993	-9	-56	38	2.00	2.00	0.00
1000	11.45	260.98	996	-9	-57	38	0.00	0.00	0.00
1100	11.45	260.98	1094	-12	-76	51	0.00	0.00	0.00
1200	11.45	260.98	1192	-15	-96	64	0.00	0.00	0.00
1300	11.45	260.98	1290	-18	-116	77	0.00	0.00	0.00
1400	11.45	260.98	1388	-21	-135	90	0.00	0.00	0.00
1500	11.45	260.98	1486	-25	-155	103	0.00	0.00	0.00
1600	11.45	260.98	1584	-28	-174	116	0.00	0.00	0.00
1700	11.45	260.98	1682	-31	-194	130	0.00	0.00	0.00
1800	11.45	260.98	1780	-34	-214	143	0.00	0.00	0.00
1900	11.45	260.98	1878	-37	-233	156	0.00	0.00	0.00
2000	11.45	260.98	1976	-40	-253	169	0.00	0.00	0.00
2100	11.45	260.98	2074	-43	-272	182	0.00	0.00	0.00
2200	11.45	260.98	2172	-46	-292	195	0.00	0.00	0.00
2300	11.45	260.98	2270	-49	-312	208	0.00	0.00	0.00
2400	11.45	260.98	2368	-53	-331	221	0.00	0.00	0.00
2500	11.45	260.98	2466	-56	-351	234	0.00	0.00	0.00
2600	11.45	260.98	2564	-59	-370	247	0.00	0.00	0.00
2700	11.45	260.98	2662	-62	-390	260	0.00	0.00	0.00
2800	11.45	260.98	2760	-65	-410	274	0.00	0.00	0.00
2900	11.45	260.98	2858	-68	-429	287	0.00	0.00	0.00
3000	11.45	260.98	2956	-71	-449	300	0.00	0.00	0.00
3100	11.45	260.98	3054	-74	-468	313	0.00	0.00	0.00
3200	11.45	260.98	3152	-77	-488	326	0.00	0.00	0.00
3300	11.45	260.98	3250	-81	-508	339	0.00	0.00	0.00
3400	11.45	260.98	3348	-84	-527	352	0.00	0.00	0.00
3500	11.45	260.98	3446	-87	-547	365	0.00	0.00	0.00
3600	11.45	260.98	3544	-90	-566	378	0.00	0.00	0.00
3700	11.45	260.98	3642	-93	-586	391	0.00	0.00	0.00
3800	11.45	260.98	3740	-96	-606	404	0.00	0.00	0.00
3900	11.45	260.98	3838	-99	-625	418	0.00	0.00	0.00
4000	11.45	260.98	3936	-102	-645	431	0.00	0.00	0.00
4100	11.45	260.98	4034	-105	-664	444	0.00	0.00	0.00
4200	11.45	260.98	4133	-109	-684	457	0.00	0.00	0.00
4300	11.45	260.98	4231	-112	-704	470	0.00	0.00	0.00
4400	11.45	260.98	4329	-115	-723	483	0.00	0.00	0.00
4500	11.45	260.98	4427	-118	-743	496	0.00	0.00	0.00
4592	11.45	260.98	4517	-121	-761	508	0.00	0.00	0.00
4600	11.95	264.29	4525	-121	-762	509	10.50	6.31	41.40
4700	20.21	288.65	4621	-116	-789	533	10.50	8.26	24.36
4800	29.88	298.53	4711	-99	-827	573	10.50	9.67	9.87
4900	39.94	303.82	4793	-69	-876	630	10.50	10.06	5.29
5000	50.16	307.25	4864	-28	-934	700	10.50	10.22	3.43



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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	60.45	309.79	4921	23	-998	782	10.50	10.29	2.53	
5200	70.78	311.85	4962	83	-1067	873	10.50	10.33	2.06	
5300	81.13	313.66	4986	149	-1138	970	10.50	10.35	1.81	
5382	89.63	315.07	4993	206	-1196	1052	10.50	10.36	1.71	
5400	89.63	315.07	4993	218	-1209	1069	0.00	0.00	0.00	
5500	89.63	315.07	4993	289	-1279	1169	0.00	0.00	0.00	
5600	89.63	315.07	4994	360	-1350	1269	0.00	0.00	0.00	
5700	89.63	315.07	4995	431	-1421	1368	0.00	0.00	0.00	
5800	89.63	315.07	4995	502	-1491	1468	0.00	0.00	0.00	
5900	89.63	315.07	4996	572	-1562	1567	0.00	0.00	0.00	
6000	89.63	315.07	4997	643	-1632	1667	0.00	0.00	0.00	
6100	89.63	315.07	4997	714	-1703	1766	0.00	0.00	0.00	
6200	89.63	315.07	4998	785	-1774	1866	0.00	0.00	0.00	
6300	89.63	315.07	4998	856	-1844	1965	0.00	0.00	0.00	
6400	89.63	315.07	4999	926	-1915	2065	0.00	0.00	0.00	
6500	89.63	315.07	5000	997	-1986	2165	0.00	0.00	0.00	
6600	89.63	315.07	5000	1068	-2056	2264	0.00	0.00	0.00	
6700	89.63	315.07	5001	1139	-2127	2364	0.00	0.00	0.00	
6800	89.63	315.07	5002	1209	-2198	2463	0.00	0.00	0.00	
6900	89.63	315.07	5002	1280	-2268	2563	0.00	0.00	0.00	
7000	89.63	315.07	5003	1351	-2339	2662	0.00	0.00	0.00	
7100	89.63	315.07	5004	1422	-2409	2762	0.00	0.00	0.00	
7200	89.63	315.07	5004	1493	-2480	2862	0.00	0.00	0.00	
7300	89.63	315.07	5005	1563	-2551	2961	0.00	0.00	0.00	
7400	89.63	315.07	5005	1634	-2621	3061	0.00	0.00	0.00	
7500	89.63	315.07	5006	1705	-2692	3160	0.00	0.00	0.00	
7600	89.63	315.07	5007	1776	-2763	3260	0.00	0.00	0.00	
7700	89.63	315.07	5007	1847	-2833	3359	0.00	0.00	0.00	
7800	89.63	315.07	5008	1917	-2904	3459	0.00	0.00	0.00	
7900	89.63	315.07	5009	1988	-2974	3558	0.00	0.00	0.00	
8000	89.63	315.07	5009	2059	-3045	3658	0.00	0.00	0.00	
8100	89.63	315.07	5010	2130	-3116	3758	0.00	0.00	0.00	
8200	89.63	315.07	5011	2201	-3186	3857	0.00	0.00	0.00	
8300	89.63	315.07	5011	2271	-3257	3957	0.00	0.00	0.00	
8400	89.63	315.07	5012	2342	-3328	4056	0.00	0.00	0.00	
8500	89.63	315.07	5012	2413	-3398	4156	0.00	0.00	0.00	
8600	89.63	315.07	5013	2484	-3469	4255	0.00	0.00	0.00	
8700	89.63	315.07	5014	2554	-3539	4355	0.00	0.00	0.00	
8800	89.63	315.07	5014	2625	-3610	4454	0.00	0.00	0.00	
8900	89.63	315.07	5015	2696	-3681	4554	0.00	0.00	0.00	
9000	89.63	315.07	5016	2767	-3751	4654	0.00	0.00	0.00	
9100	89.63	315.07	5016	2838	-3822	4753	0.00	0.00	0.00	
9200	89.63	315.07	5017	2908	-3893	4853	0.00	0.00	0.00	
9300	89.63	315.07	5018	2979	-3963	4952	0.00	0.00	0.00	
9400	89.63	315.07	5018	3050	-4034	5052	0.00	0.00	0.00	
9500	89.63	315.07	5019	3121	-4104	5151	0.00	0.00	0.00	
9600	89.63	315.07	5019	3192	-4175	5251	0.00	0.00	0.00	
9700	89.63	315.07	5020	3262	-4246	5351	0.00	0.00	0.00	
9800	89.63	315.07	5021	3333	-4316	5450	0.00	0.00	0.00	
9900	89.63	315.07	5021	3404	-4387	5550	0.00	0.00	0.00	
10,000	89.63	315.07	5022	3475	-4458	5649	0.00	0.00	0.00	
10,100	89.63	315.07	5023	3546	-4528	5749	0.00	0.00	0.00	
10,200	89.63	315.07	5023	3616	-4599	5848	0.00	0.00	0.00	
10,300	89.63	315.07	5024	3687	-4670	5948	0.00	0.00	0.00	



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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	89.63	315.07	5025	3758	-4740	6047	0.00	0.00	0.00	
10,500	89.63	315.07	5025	3829	-4811	6147	0.00	0.00	0.00	
10,600	89.63	315.07	5026	3899	-4881	6247	0.00	0.00	0.00	
10,700	89.63	315.07	5027	3970	-4952	6346	0.00	0.00	0.00	
10,800	89.63	315.07	5027	4041	-5023	6446	0.00	0.00	0.00	
10,900	89.63	315.07	5028	4112	-5093	6545	0.00	0.00	0.00	
11,000	89.63	315.07	5028	4183	-5164	6645	0.00	0.00	0.00	
11,100	89.63	315.07	5029	4253	-5235	6744	0.00	0.00	0.00	
11,200	89.63	315.07	5030	4324	-5305	6844	0.00	0.00	0.00	
11,300	89.63	315.07	5030	4395	-5376	6944	0.00	0.00	0.00	
11,400	89.63	315.07	5031	4466	-5446	7043	0.00	0.00	0.00	
11,500	89.63	315.07	5032	4537	-5517	7143	0.00	0.00	0.00	
11,600	89.63	315.07	5032	4607	-5588	7242	0.00	0.00	0.00	
11,700	89.63	315.07	5033	4678	-5658	7342	0.00	0.00	0.00	
11,800	89.63	315.07	5034	4749	-5729	7441	0.00	0.00	0.00	
11,871	89.63	315.07	5034	4799	-5779	7512	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		
- hit/miss target										
- Shape								Longitude		
L 404H Heel	0.00	0.00	4993	206	-1196	1,888,769.92	2,841,180.04	36.19018998		
- plan hits target center										
- Circle (radius 50)										
L 404H Toe	0.00	0.00	5034	4799	-5779	1,893,344.50	2,836,577.71	36.20280765		
- plan hits target center										
- Circle (radius 100)										

Casing Points						Casing Diameter (in)	Hole Diameter (in)
Measured Depth (ft)	Vertical Depth (ft)	Name					
380	380	Surface				9.63	12.25
5337	4990	Intermediate				7.00	8.75



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1327	1317	Ojo Alamo		0.00	0.00	
1441	1428	Kirtland		0.00	0.00	
1646	1629	Fruitland		0.00	0.00	
1882	1861	Pictured Cliffs		0.00	0.00	
1989	1965	Lewis		0.00	0.00	
2761	2722	Chacra		0.00	0.00	
3433	3381	Menefee		0.00	0.00	
4153	4086	Point Lookout		0.00	0.00	
4356	4285	Mancos		0.00	0.00	
4739	4657	Mancos Silt		0.00	0.00	



DJR Operating

Gallo Canyon Unit

P26A 2306 Pad

Lybrook P26A 2306 COM #404H

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 #404H - Slot 3
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 #404H	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	11,871	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						
Gallo Canyon Unit #203H - OH - OH	3790	3666	386	364	17.741	CC
Gallo Canyon Unit #203H - OH - OH	3800	3675	386	364	17.699	ES
Gallo Canyon Unit #203H - OH - OH	5400	4832	603	566	16.323	SF
Gallo Canyon Unit #204H - OH - OH	4842	4709	145	116	4.961	SF
Gallo Canyon Unit #204H - OH - OH	4860	4724	145	116	4.964	CC, ES
Gallo Canyon Unit #422H - Original Drilling - APD	1427	1421	33	23	3.159	CC
Gallo Canyon Unit #422H - Original Drilling - APD	1600	1593	34	22	2.836	ES
Gallo Canyon Unit #422H - Original Drilling - APD	1800	1793	38	24	2.737	SF
Lybrook P26A 2306 COM #325H - Original Drilling - APD	641	640	13	9	2.975	CC, ES
Lybrook P26A 2306 COM #325H - Original Drilling - APD	11,871	12,939	689	316	1.844	SF

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	Vertical	Measured	Vertical	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					
0	0	4	4	0	0	-91.53	-24	-912	912								
100	100	111	111	0	0	-91.53	-24	-911	911	911	0.42	2,164.016					
200	200	210	210	1	0	-91.52	-24	-910	911	910	0.94	966.054					
300	300	314	314	1	0	-91.54	-24	-909	910	908	1.52	599.826					
400	400	412	412	1	1	-91.57	-25	-908	909	907	2.08	437.117					
425	425	436	436	1	1	-91.58	-25	-908	908	906	2.22	409.437					
500	500	507	507	2	1	7.41	-26	-908	907	904	2.63	345.074					
600	600	604	604	2	1	7.39	-27	-908	903	900	3.18	284.083					
700	700	700	700	2	1	7.42	-28	-908	895	891	3.73	239.789					
800	799	797	797	3	2	7.48	-29	-908	884	880	4.29	206.011					
900	898	893	893	3	2	7.58	-29	-909	871	866	4.86	179.217					
997	993	987	987	4	2	7.73	-30	-910	854	849	5.42	157.707					
1000	996	990	990	4	2	7.73	-30	-910	854	848	5.44	157.038					
1100	1094	1087	1087	4	2	7.88	-31	-911	835	829	6.00	139.215					
1200	1192	1185	1185	4	2	8.19	-29	-913	817	810	6.57	124.371					
1300	1290	1291	1291	5	3	8.52	-28	-914	798	791	7.15	111.650					
1400	1388	1391	1391	5	3	8.78	-27	-914	779	771	7.72	100.834					

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 #404H - Slot 3
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 #404H	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
1500	1486	1488	1487	6	3	9.04	-27	-914	759	751	8.30	91.526		
1600	1584	1587	1587	6	3	9.33	-26	-915	740	731	8.88	83.380		
1700	1682	1680	1680	7	3	9.63	-25	-915	721	712	9.45	76.305		
1800	1780	1778	1778	7	4	9.95	-25	-916	702	692	10.03	70.003		
1900	1878	1875	1875	8	4	10.28	-24	-917	684	673	10.62	64.399		
2000	1976	1982	1982	8	4	10.67	-24	-917	665	654	11.21	59.311		
2100	2074	2079	2079	8	4	11.04	-23	-917	645	633	11.79	54.707		
2200	2172	2177	2176	9	4	11.43	-23	-917	626	613	12.38	50.539		
2300	2270	2275	2275	9	5	11.84	-22	-917	606	593	12.96	46.741		
2400	2368	2373	2373	10	5	12.23	-22	-917	586	573	13.55	43.268		
2500	2466	2470	2470	10	5	12.64	-22	-917	567	553	14.14	40.088		
2600	2564	2567	2567	11	5	13.08	-22	-917	548	533	14.74	37.176		
2700	2662	2671	2671	11	5	13.59	-22	-917	528	513	15.33	34.478		
2800	2760	2771	2771	12	6	14.16	-22	-916	508	492	15.92	31.909		
2900	2858	2867	2867	12	6	14.74	-22	-915	488	471	16.52	29.520		
3000	2956	2962	2962	13	6	15.35	-22	-914	468	451	17.12	27.314		
3100	3054	3050	3050	13	6	15.83	-23	-915	449	432	17.74	25.338		
3200	3152	3138	3137	14	6	16.15	-25	-918	433	415	18.34	23.618		
3300	3250	3224	3224	14	7	16.29	-28	-923	420	401	18.94	22.166		
3400	3348	3317	3316	14	7	16.26	-32	-932	409	390	19.54	20.944		
3500	3446	3411	3410	15	7	16.00	-38	-941	400	379	20.14	19.844		
3600	3544	3500	3497	15	7	15.32	-47	-952	392	371	20.71	18.924		
3700	3642	3588	3584	16	7	14.51	-55	-966	387	366	21.27	18.210		
3790	3730	3666	3660	16	8	13.77	-63	-981	386	364	21.74	17.741 CC		
3800	3740	3675	3669	16	8	13.67	-64	-982	386	364	21.80	17.699 ES		
3900	3838	3762	3752	17	8	12.54	-74	-1002	388	366	22.31	17.393		
4000	3936	3851	3838	17	8	11.18	-86	-1024	393	370	22.83	17.230		
4100	4034	3936	3919	18	9	9.78	-98	-1048	402	378	23.28	17.245		
4200	4133	4029	4006	18	9	8.23	-111	-1076	413	389	23.82	17.328		
4300	4231	4118	4090	19	9	6.62	-126	-1104	426	401	24.31	17.513		
4400	4329	4194	4159	19	10	5.20	-140	-1130	443	418	24.60	18.003		
4500	4427	4272	4229	20	10	3.69	-155	-1161	465	440	24.90	18.690		
4592	4517	4354	4302	20	11	2.05	-173	-1195	489	464	25.35	19.283		
4600	4525	4362	4309	20	11	-1.18	-174	-1198	491	466	25.40	19.327		
4650	4573	4415	4356	20	11	-16.37	-186	-1220	502	476	25.78	19.477		
4700	4621	4458	4394	21	12	-25.61	-195	-1238	511	485	25.97	19.658		
4750	4667	4498	4429	21	12	-31.95	-204	-1255	518	491	26.14	19.799		
4800	4711	4536	4463	21	12	-36.80	-213	-1271	523	497	26.30	19.890		
4850	4753	4579	4500	22	12	-41.21	-223	-1290	527	501	26.60	19.827		
4900	4793	4626	4541	22	13	-45.53	-233	-1311	530	503	27.05	19.603		
4950	4830	4672	4582	22	13	-49.77	-243	-1330	532	504	27.62	19.254		
5000	4864	4706	4611	23	13	-53.08	-251	-1344	533	505	28.13	18.956		
5050	4894	4736	4637	23	14	-56.06	-258	-1357	535	506	28.79	18.590		
5100	4921	4761	4659	24	14	-58.47	-264	-1368	538	509	29.59	18.196		
5150	4943	4783	4678	24	14	-60.40	-269	-1378	543	513	30.58	17.768		
5200	4962	4800	4693	25	14	-61.68	-273	-1386	550	519	31.72	17.351		
5250	4976	4813	4704	26	14	-62.24	-276	-1391	560	527	32.96	16.978		
5300	4986	4824	4713	26	14	-62.26	-279	-1396	571	537	34.32	16.654		
5350	4991	4824	4713	27	14	-60.87	-279	-1396	586	550	35.49	16.508		
5382	4993	4831	4720	28	14	-60.55	-282	-1400	596	560	36.46	16.353		
5400	4993	4832	4721	28	14	-60.65	-282	-1400	603	566	36.92	16.323 SF		
5500	4993	4837	4725	29	14	-61.16	-283	-1402	646	607	39.20	16.479		

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 #404H - Slot 3
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 #404H	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			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	
5600	4994	4842	4728	31	14	-61.58	-285	-1404	701	660	40.98	17.107	
5700	4995	4845	4731	33	15	-61.94	-286	-1405	765	723	42.28	18.096	
5800	4995	4856	4740	35	15	-63.04	-289	-1410	836	793	43.42	19.262	
5900	4996	4856	4740	37	15	-63.04	-289	-1410	913	869	44.00	20.747	
6000	4997	4856	4740	39	15	-63.04	-289	-1410	993	949	44.39	22.383	
6100	4997	4856	4740	42	15	-63.04	-289	-1410	1077	1033	44.64	24.133	
6200	4998	4856	4740	44	15	-63.04	-289	-1410	1164	1119	44.81	25.973	
6300	4998	4856	4740	46	15	-63.04	-289	-1410	1252	1207	44.92	27.882	
6400	4999	4856	4740	48	15	-63.04	-289	-1410	1342	1297	44.98	29.847	
6500	5000	4856	4740	51	15	-63.04	-289	-1410	1434	1389	45.01	31.857	
6600	5000	4856	4740	53	15	-63.04	-289	-1410	1526	1481	45.02	33.902	
6700	5001	4856	4740	55	15	-63.04	-289	-1410	1620	1575	45.02	35.977	
6800	5002	4856	4740	58	15	-63.04	-289	-1410	1714	1669	45.01	38.076	
6900	5002	4856	4740	60	15	-63.04	-289	-1410	1809	1764	45.00	40.196	
7000	5003	4856	4740	63	15	-63.04	-289	-1410	1904	1859	44.98	42.332	
7100	5004	4856	4740	65	15	-63.04	-289	-1410	2000	1955	44.96	44.482	
7200	5004	4856	4740	68	15	-63.04	-289	-1410	2096	2051	44.93	46.643	
7300	5005	4856	4740	70	15	-63.04	-289	-1410	2192	2147	44.91	48.815	
7400	5005	4856	4740	72	15	-63.04	-289	-1410	2289	2244	44.89	50.994	
7500	5006	4869	4752	75	15	-64.40	-294	-1415	2386	2341	45.17	52.821	
7600	5007	4870	4752	77	15	-64.45	-294	-1416	2483	2438	45.16	54.985	
7700	5007	4870	4753	80	15	-64.50	-295	-1416	2581	2536	45.15	57.154	
7800	5008	4871	4753	82	15	-64.54	-295	-1416	2678	2633	45.15	59.327	
7900	5009	4871	4753	85	15	-64.59	-295	-1416	2776	2731	45.14	61.502	
8000	5009	4872	4754	87	15	-64.63	-295	-1416	2874	2829	45.14	63.679	
8100	5010	4872	4754	90	15	-64.66	-295	-1417	2972	2927	45.13	65.858	
8200	5011	4872	4754	92	15	-64.70	-295	-1417	3071	3025	45.13	68.038	
8300	5011	4873	4755	95	15	-64.73	-295	-1417	3169	3124	45.13	70.218	
8400	5012	4873	4755	97	15	-64.77	-296	-1417	3267	3222	45.13	72.399	
8500	5012	4873	4755	100	15	-64.80	-296	-1417	3366	3321	45.13	74.579	
8600	5013	4874	4755	103	15	-64.83	-296	-1417	3465	3419	45.14	76.758	
8700	5014	4874	4756	105	15	-64.85	-296	-1417	3563	3518	45.14	78.937	
8800	5014	4888	4767	108	15	-66.26	-301	-1423	3662	3617	45.44	80.597	
8900	5015	4888	4767	110	15	-66.26	-301	-1423	3761	3716	45.44	82.770	
9000	5016	4888	4767	113	15	-66.26	-301	-1423	3860	3815	45.44	84.941	
9100	5016	4888	4767	115	15	-66.26	-301	-1423	3959	3913	45.45	87.110	
9200	5017	4888	4767	118	15	-66.26	-301	-1423	4058	4012	45.45	89.277	
9300	5018	4888	4767	120	15	-66.26	-301	-1423	4157	4112	45.46	91.441	
9400	5018	4888	4767	123	15	-66.26	-301	-1423	4256	4211	45.47	93.603	
9500	5019	4888	4767	125	15	-66.26	-301	-1423	4355	4310	45.48	95.762	
9600	5019	4888	4767	128	15	-66.26	-301	-1423	4454	4409	45.49	97.918	
9700	5020	4888	4767	131	15	-66.26	-301	-1423	4554	4508	45.50	100.071	
9800	5021	4888	4767	133	15	-66.26	-301	-1423	4653	4607	45.52	102.220	
9900	5021	4888	4767	136	15	-66.26	-301	-1423	4752	4707	45.53	104.366	
10,000	5022	4888	4767	138	15	-66.26	-301	-1423	4851	4806	45.55	106.509	
10,100	5023	4888	4767	141	15	-66.26	-301	-1423	4951	4905	45.57	108.648	
10,200	5023	4888	4767	143	15	-66.26	-301	-1423	5050	5004	45.59	110.783	
10,300	5024	4888	4767	146	15	-66.26	-301	-1423	5149	5104	45.61	112.914	
10,400	5025	4888	4767	148	15	-66.26	-301	-1423	5249	5203	45.63	115.040	
10,500	5025	4888	4767	151	15	-66.26	-301	-1423	5348	5303	45.65	117.163	
10,600	5026	4888	4767	154	15	-66.26	-301	-1423	5448	5402	45.67	119.281	
10,700	5027	4888	4767	156	15	-66.26	-301	-1423	5547	5502	45.70	121.395	

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 #404H - Slot 3
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 #404H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,800	5027	4888	4767	159	15	-66.26	-301	-1423	5647	5601	45.72	123.505		
10,900	5028	4888	4767	161	15	-66.26	-301	-1423	5746	5700	45.75	125.609		
11,000	5028	4888	4767	164	15	-66.26	-301	-1423	5846	5800	45.77	127.709		
11,100	5029	4888	4767	166	15	-66.26	-301	-1423	5945	5899	45.80	129.805		
11,200	5030	4888	4767	169	15	-66.26	-301	-1423	6045	5999	45.83	131.895		
11,300	5030	4888	4767	172	15	-66.26	-301	-1423	6144	6099	45.86	133.980		
11,400	5031	4888	4767	174	15	-66.26	-301	-1423	6244	6198	45.89	136.061		
11,500	5032	4888	4767	177	15	-66.26	-301	-1423	6344	6298	45.92	138.136		
11,600	5032	4888	4767	179	15	-66.26	-301	-1423	6443	6397	45.95	140.206		
11,700	5033	4888	4767	182	15	-66.26	-301	-1423	6543	6497	45.99	142.270		
11,800	5034	4888	4767	184	15	-66.26	-301	-1423	6642	6596	46.02	144.330		
11,871	5034	4888	4767	186	15	-66.26	-301	-1423	6713	6667	46.05	145.794		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	4	4	0	0	-91.37	-21	-882	882					
100	100	107	107	0	0	-91.38	-21	-882	882	882	0.42	2,107.687		
200	200	207	207	1	0	-91.39	-21	-881	882	881	0.91	973.795		
270	270	274	274	1	0	-91.41	-22	-881	882	880	1.29	681.590		
300	300	304	304	1	0	-91.42	-22	-881	882	880	1.46	602.820		
400	400	405	405	1	1	-91.45	-22	-881	882	880	2.03	434.128		
425	425	431	431	1	1	-91.46	-22	-881	882	879	2.17	405.457		
500	500	505	505	2	1	7.55	-23	-881	880	878	2.59	339.847		
600	600	604	604	2	1	7.58	-23	-881	876	873	3.14	278.853		
700	700	703	703	2	1	7.65	-23	-881	868	865	3.70	234.664		
800	799	799	799	3	1	7.76	-24	-881	858	853	4.26	201.363		
900	898	898	898	3	2	7.91	-24	-882	843	839	4.83	174.697		
997	993	992	992	4	2	8.11	-24	-882	826	821	5.38	153.633		
1000	996	995	995	4	2	8.12	-24	-882	826	820	5.40	152.973		
1100	1094	1094	1094	4	2	8.30	-24	-883	807	801	5.96	135.260		
1200	1192	1190	1190	4	2	8.47	-25	-884	788	781	6.53	120.629		
1300	1290	1289	1289	5	2	8.64	-26	-885	769	762	7.11	108.225		
1400	1388	1388	1388	5	3	8.91	-25	-885	750	742	7.68	97.632		
1500	1486	1492	1492	6	3	9.23	-24	-885	731	722	8.27	88.392		
1600	1584	1587	1587	6	3	9.48	-24	-885	711	702	8.84	80.425		
1700	1682	1682	1682	7	3	9.71	-25	-886	692	682	9.42	73.459		
1800	1780	1787	1787	7	4	9.99	-25	-886	673	663	10.01	67.209		
1900	1878	1889	1889	8	4	10.37	-24	-885	652	642	10.59	61.589		
2000	1976	1984	1984	8	4	10.77	-23	-884	632	621	11.17	56.566		
2100	2074	2081	2081	8	4	11.19	-22	-884	612	600	11.75	52.055		
2200	2172	2179	2179	9	4	11.64	-22	-883	592	580	12.34	47.966		
2300	2270	2277	2277	9	5	12.13	-21	-883	572	559	12.93	44.249		
2400	2368	2373	2373	10	5	12.63	-20	-883	552	539	13.52	40.856		
2500	2466	2469	2469	10	5	13.13	-20	-883	533	519	14.11	37.779		
2600	2564	2570	2569	11	5	13.64	-20	-883	514	499	14.70	34.934		
2700	2662	2670	2670	11	5	14.17	-20	-882	494	479	15.30	32.297		
2800	2760	2769	2769	12	6	14.76	-20	-881	474	458	15.89	29.831		
2900	2858	2867	2867	12	6	15.35	-21	-881	454	437	16.49	27.529		
3000	2956	2963	2963	13	6	16.02	-21	-880	434	417	17.09	25.399		
3100	3054	3062	3061	13	6	16.69	-22	-879	414	397	17.69	23.420		
3200	3152	3159	3158	14	6	17.39	-22	-879	395	376	18.30	21.573		
3300	3250	3255	3255	14	7	18.15	-23	-879	375	357	18.91	19.856		
3400	3348	3354	3354	14	7	18.98	-24	-879	356	337	19.52	18.255		
3500	3446	3447	3447	15	7	19.92	-25	-879	338	318	20.15	16.770		
3600	3544	3545	3545	15	7	21.12	-25	-880	320	300	20.78	15.422		
3700	3642	3643	3643	16	7	22.47	-24	-881	303	282	21.42	14.152		
3800	3740	3742	3742	16	8	23.95	-24	-882	286	264	22.06	12.961		
3900	3838	3840	3840	17	8	25.62	-24	-883	269	246	22.72	11.829		
4000	3936	3938	3938	17	8	27.49	-24	-884	252	228	23.40	10.763		
4100	4034	4036	4036	18	8	29.57	-24	-886	236	212	24.09	9.783		
4200	4133	4134	4134	18	8	31.88	-25	-887	220	195	24.80	8.861		
4300	4231	4231	4231	19	9	34.54	-25	-889	204	179	25.54	8.003		
4400	4329	4330	4330	19	9	37.58	-25	-890	190	163	26.31	7.210		
4500	4427	4429	4429	20	9	42.19	-23	-890	175	148	27.16	6.454		
4592	4517	4512	4511	20	9	49.74	-13	-886	165	137	28.17	5.869		
4600	4525	4519	4518	20	9	47.33	-12	-885	165	136	28.26	5.829		
4650	4573	4562	4559	20	9	38.13	-3	-881	160	131	28.82	5.556		

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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	Distance	Rule Assigned:									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4700	4621	4600	4596	21	9	35.50	8	-877	155	126	29.22	5.299	
4750	4667	4638	4632	21	10	36.93	20	-873	150	121	29.40	5.105	
4800	4711	4676	4667	21	10	41.17	33	-869	147	117	29.34	4.997	
4842	4747	4709	4697	21	10	46.92	46	-864	145	116	29.27	4.961 SF	
4850	4753	4716	4703	22	10	48.23	49	-862	145	116	29.24	4.962	
4860	4762	4724	4711	22	10	49.93	52	-861	145	116	29.22	4.964 CC, ES	
4900	4793	4755	4739	22	10	56.83	63	-854	146	117	28.93	5.053	
4950	4830	4790	4770	22	10	65.23	75	-845	152	124	28.27	5.380	
5000	4864	4819	4796	23	10	71.81	84	-836	165	137	27.34	6.024	
5050	4894	4842	4817	23	10	76.21	90	-828	185	158	26.54	6.952	
5100	4921	4860	4833	24	10	78.09	94	-822	211	185	26.04	8.100	
5150	4943	4872	4844	24	10	77.49	97	-817	243	217	25.82	9.392	
5200	4962	4881	4852	25	10	74.79	99	-814	278	252	25.83	10.759	
5250	4976	4885	4856	26	10	70.30	100	-812	316	290	25.98	12.162	
5300	4986	4886	4856	26	10	64.55	100	-811	356	330	26.21	13.571	
5350	4991	4884	4855	27	10	58.20	100	-812	396	370	26.49	14.964	
5382	4993	4882	4853	28	10	54.10	99	-813	423	396	26.68	15.841	
5400	4993	4875	4847	28	10	52.56	98	-816	438	411	26.65	16.423	
5500	4993	4875	4847	29	10	52.56	98	-816	524	496	27.41	19.104	
5600	4994	4866	4839	31	10	50.59	96	-819	614	586	27.80	22.080	
5700	4995	4861	4834	33	10	49.42	95	-821	707	679	28.15	25.104	
5800	4995	4857	4830	35	10	48.43	94	-823	801	773	28.42	28.188	
5900	4996	4853	4827	37	10	47.59	93	-824	897	868	28.64	31.312	
6000	4997	4843	4818	39	10	45.44	90	-828	993	965	28.76	34.539	
6100	4997	4843	4818	42	10	45.44	90	-828	1090	1061	28.94	37.678	
6200	4998	4843	4818	44	10	45.44	90	-828	1188	1159	29.09	40.836	
6300	4998	4843	4818	46	10	45.44	90	-828	1286	1257	29.22	44.010	
6400	4999	4843	4818	48	10	45.44	90	-828	1384	1355	29.33	47.194	
6500	5000	4843	4818	51	10	45.44	90	-828	1482	1453	29.42	50.384	
6600	5000	4843	4818	53	10	45.44	90	-828	1581	1552	29.51	53.578	
6700	5001	4843	4818	55	10	45.44	90	-828	1680	1650	29.59	56.775	
6800	5002	4843	4818	58	10	45.44	90	-828	1779	1749	29.66	59.972	
6900	5002	4843	4818	60	10	45.44	90	-828	1878	1848	29.73	63.167	
7000	5003	4843	4818	63	10	45.44	90	-828	1977	1947	29.79	66.361	
7100	5004	4843	4818	65	10	45.44	90	-828	2076	2046	29.85	69.552	
7200	5004	4830	4806	68	10	42.74	87	-832	2175	2145	29.85	72.873	
7300	5005	4829	4806	70	10	42.57	87	-832	2275	2245	29.90	76.065	
7400	5005	4829	4805	72	10	42.41	87	-833	2374	2344	29.96	79.252	
7500	5006	4828	4804	75	10	42.26	86	-833	2473	2443	30.01	82.433	
7600	5007	4827	4804	77	10	42.12	86	-833	2573	2543	30.06	85.607	
7700	5007	4827	4803	80	10	41.99	86	-833	2672	2642	30.10	88.775	
7800	5008	4826	4803	82	10	41.87	86	-834	2772	2742	30.15	91.935	
7900	5009	4825	4802	85	10	41.76	86	-834	2872	2841	30.20	95.087	
8000	5009	4812	4790	87	10	39.04	82	-838	2971	2941	30.20	98.387	
8100	5010	4812	4790	90	10	39.04	82	-838	3071	3041	30.25	101.518	
8200	5011	4812	4790	92	10	39.04	82	-838	3171	3140	30.30	104.641	
8300	5011	4812	4790	95	10	39.04	82	-838	3270	3240	30.35	107.755	
8400	5012	4812	4790	97	10	39.04	82	-838	3370	3340	30.40	110.859	
8500	5012	4812	4790	100	10	39.04	82	-838	3470	3439	30.45	113.955	
8600	5013	4812	4790	103	10	39.04	82	-838	3569	3539	30.50	117.040	
8700	5014	4812	4790	105	10	39.04	82	-838	3669	3639	30.55	120.116	
8800	5014	4812	4790	108	10	39.04	82	-838	3769	3738	30.60	123.181	

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Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				(ft)	(ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8900	5015	4812	4790	110	10	39.04	82	-838	3869	3838	30.65	126.235	
9000	5016	4812	4790	113	10	39.04	82	-838	3968	3938	30.70	129.279	
9100	5016	4812	4790	115	10	39.04	82	-838	4068	4037	30.75	132.312	
9200	5017	4812	4790	118	10	39.04	82	-838	4168	4137	30.80	135.334	
9300	5018	4812	4790	120	10	39.04	82	-838	4268	4237	30.85	138.344	
9400	5018	4812	4790	123	10	39.04	82	-838	4368	4337	30.90	141.343	
9500	5019	4812	4790	125	10	39.04	82	-838	4467	4437	30.95	144.330	
9600	5019	4812	4790	128	10	39.04	82	-838	4567	4536	31.01	147.305	
9700	5020	4812	4790	131	10	39.04	82	-838	4667	4636	31.06	150.268	
9800	5021	4812	4790	133	10	39.04	82	-838	4767	4736	31.11	153.218	
9900	5021	4812	4790	136	10	39.04	82	-838	4867	4836	31.17	156.156	
10,000	5022	4812	4790	138	10	39.04	82	-838	4967	4935	31.22	159.082	
10,100	5023	4812	4790	141	10	39.04	82	-838	5067	5035	31.28	161.995	
10,200	5023	4812	4790	143	10	39.04	82	-838	5166	5135	31.33	164.895	
10,300	5024	4812	4790	146	10	39.04	82	-838	5266	5235	31.39	167.781	
10,400	5025	4812	4790	148	10	39.04	82	-838	5366	5335	31.44	170.655	
10,500	5025	4812	4790	151	10	39.04	82	-838	5466	5435	31.50	173.516	
10,600	5026	4812	4790	154	10	39.04	82	-838	5566	5534	31.56	176.363	
10,700	5027	4812	4790	156	10	39.04	82	-838	5666	5634	31.62	179.196	
10,800	5027	4812	4790	159	10	39.04	82	-838	5766	5734	31.68	182.016	
10,900	5028	4812	4790	161	10	39.04	82	-838	5866	5834	31.74	184.823	
11,000	5028	4812	4790	164	10	39.04	82	-838	5966	5934	31.80	187.615	
11,100	5029	4812	4790	166	10	39.04	82	-838	6065	6034	31.86	190.394	
11,200	5030	4812	4790	169	10	39.04	82	-838	6165	6133	31.92	193.159	
11,300	5030	4812	4790	172	10	39.04	82	-838	6265	6233	31.98	195.909	
11,400	5031	4812	4790	174	10	39.04	82	-838	6365	6333	32.04	198.646	
11,500	5032	4812	4790	177	10	39.04	82	-838	6465	6433	32.11	201.368	
11,600	5032	4812	4790	179	10	39.04	82	-838	6565	6533	32.17	204.076	
11,700	5033	4812	4790	182	10	39.04	82	-838	6665	6633	32.23	206.770	
11,800	5034	4812	4790	184	10	39.04	82	-838	6765	6733	32.30	209.450	
11,871	5034	4812	4790	186	10	39.04	82	-838	6836	6804	32.34	211.350	

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 #404H - Slot 3
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 #404H	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			
0	0	0	0	0	0	-116.08	-17	-36	40						
100	100	100	100	0	0	-116.08	-17	-36	40	39	0.62	64.471			
200	200	200	200	1	1	-116.08	-17	-36	40	38	1.33	29.809			
300	300	300	300	1	1	-116.08	-17	-36	40	38	2.05	19.387			
400	400	400	400	1	1	-116.08	-17	-36	40	37	2.77	14.364			
425	425	425	425	1	1	-116.08	-17	-36	40	37	2.95	13.490			
500	500	499	499	2	2	-17.26	-18	-37	40	36	3.47	11.477			
600	600	598	598	2	2	-18.16	-19	-41	40	36	4.14	9.621			
700	700	696	696	2	2	-19.77	-21	-48	40	35	4.83	8.296			
800	799	795	794	3	3	-22.07	-25	-58	40	35	5.52	7.319			
900	898	894	892	3	3	-25.03	-29	-72	41	35	6.22	6.569			
997	993	991	988	4	4	-29.62	-34	-87	40	33	6.94	5.696			
1000	996	994	990	4	4	-29.79	-34	-87	39	32	6.96	5.669			
1100	1094	1094	1089	4	4	-36.29	-38	-102	37	29	7.73	4.787			
1200	1192	1193	1188	4	4	-43.62	-43	-117	35	27	8.53	4.111			
1300	1290	1293	1286	5	5	-51.64	-48	-132	34	24	9.38	3.604			
1400	1388	1393	1385	5	5	-60.11	-52	-147	33	23	10.26	3.238			
1427	1415	1421	1412	5	5	-62.46	-54	-151	33	23	10.51	3.159 CC			
1500	1486	1493	1484	6	6	-68.68	-57	-162	33	22	11.17	2.989			
1600	1584	1593	1582	6	6	-76.99	-62	-177	34	22	12.09	2.836 ES			
1700	1682	1693	1681	7	6	-84.71	-67	-191	36	23	13.01	2.758			
1800	1780	1793	1780	7	7	-91.68	-71	-206	38	24	13.90	2.737 SF			
1900	1878	1893	1878	8	7	-97.81	-76	-221	41	26	14.77	2.756			
2000	1976	1992	1977	8	8	-103.14	-81	-236	44	28	15.63	2.802			
2100	2074	2092	2075	8	8	-107.73	-85	-251	47	31	16.46	2.867			
2200	2172	2192	2174	9	8	-111.69	-90	-266	51	34	17.29	2.942			
2300	2270	2292	2273	9	9	-115.10	-95	-281	55	37	18.10	3.024			
2400	2368	2392	2371	10	9	-118.05	-99	-296	59	40	18.91	3.109			
2500	2466	2492	2470	10	10	-120.62	-104	-311	63	43	19.71	3.195			
2600	2564	2592	2569	11	10	-122.86	-109	-326	67	47	20.51	3.280			
2700	2662	2692	2667	11	11	-124.83	-114	-341	72	50	21.30	3.363			
2800	2760	2791	2766	12	11	-126.57	-118	-355	76	54	22.10	3.443			
2900	2858	2891	2865	12	11	-128.12	-123	-370	81	58	22.89	3.521			
3000	2956	2991	2963	13	12	-129.50	-128	-385	85	61	23.69	3.596			
3100	3054	3091	3062	13	12	-130.75	-132	-400	90	65	24.48	3.668			
3200	3152	3191	3161	14	13	-131.87	-137	-415	94	69	25.27	3.737			
3300	3250	3291	3259	14	13	-132.88	-142	-430	99	73	26.06	3.803			
3400	3348	3391	3358	14	14	-133.80	-146	-445	104	77	26.86	3.866			
3500	3446	3491	3456	15	14	-134.65	-151	-460	109	81	27.65	3.927			
3600	3544	3590	3555	15	14	-135.42	-156	-475	113	85	28.45	3.985			
3700	3642	3690	3654	16	15	-136.13	-161	-490	118	89	29.24	4.040			
3800	3740	3790	3752	16	15	-136.78	-165	-505	123	93	30.03	4.093			
3900	3838	3890	3851	17	16	-137.39	-170	-520	128	97	30.83	4.143			
4000	3936	3990	3950	17	16	-137.95	-175	-534	133	101	31.62	4.191			
4100	4034	4090	4048	18	17	-138.47	-179	-549	137	105	32.42	4.238			
4200	4133	4190	4147	18	17	-138.95	-184	-564	142	109	33.21	4.282			
4300	4231	4290	4246	19	17	-139.41	-189	-579	147	113	34.01	4.325			
4400	4329	4389	4344	19	18	-139.83	-193	-594	152	117	34.81	4.366			
4500	4427	4482	4435	20	18	-140.14	-198	-607	158	122	35.52	4.438			
4592	4517	4550	4503	20	18	-139.71	-207	-612	172	137	35.66	4.833			
4600	4525	4558	4511	20	18	-142.91	-208	-612	174	138	35.74	4.874			
4650	4573	4600	4552	20	19	-157.35	-217	-612	190	154	35.95	5.292			

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 #404H - Slot 3
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 #404H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4700	4621	4626	4577	21	19	-165.86	-224	-610	213	177	35.51	5.997	
4750	4667	4650	4600	21	19	-171.29	-230	-608	242	207	35.02	6.912	
4800	4711	4679	4628	21	19	-174.78	-240	-605	276	241	35.04	7.889	
4850	4753	4700	4647	22	19	-177.80	-247	-601	315	280	34.81	9.057	
4900	4793	4716	4661	22	19	179.20	-252	-599	358	323	34.57	10.350	
4950	4830	4728	4672	22	19	175.66	-257	-596	403	369	34.38	11.721	
5000	4864	4737	4680	23	19	170.51	-260	-594	450	416	34.25	13.148	
5050	4894	4750	4692	23	19	163.22	-266	-591	499	465	34.47	14.479	
5100	4921	4750	4692	24	19	140.62	-266	-591	548	514	34.32	15.984	
5150	4943	4750	4692	24	19	83.28	-266	-591	598	564	34.31	17.440	
5200	4962	4750	4692	25	19	42.82	-266	-591	648	614	34.41	18.832	
5250	4976	4750	4692	26	19	28.83	-266	-591	697	663	34.60	20.153	
5300	4986	4735	4678	26	19	21.66	-260	-595	746	711	34.44	21.646	
5350	4991	4728	4672	27	19	18.46	-257	-596	793	758	34.61	22.909	
5382	4993	4723	4668	28	19	17.11	-255	-597	822	788	34.73	23.682	
5400	4993	4720	4665	28	19	17.04	-254	-598	839	804	34.80	24.107	
5500	4993	4700	4647	29	19	16.57	-247	-601	931	896	35.04	26.572	
5600	4994	4700	4647	31	19	16.57	-247	-601	1024	989	35.61	28.757	
5700	4995	4681	4629	33	19	16.17	-240	-604	1118	1082	35.73	31.285	
5800	4995	4671	4620	35	19	15.96	-237	-606	1213	1177	35.96	33.716	
5900	4996	4650	4600	37	19	15.57	-230	-608	1308	1272	35.98	36.346	
6000	4997	4650	4600	39	19	15.57	-230	-608	1403	1367	36.29	38.671	
6100	4997	4650	4600	42	19	15.57	-230	-608	1499	1463	36.55	41.027	
6200	4998	4650	4600	44	19	15.57	-230	-608	1596	1559	36.77	43.407	
6300	4998	4650	4600	46	19	15.57	-230	-608	1693	1656	36.96	45.806	
6400	4999	4627	4578	48	19	15.18	-224	-610	1790	1753	36.87	48.540	
6500	5000	4622	4573	51	19	15.09	-222	-611	1887	1850	36.97	51.034	
6600	5000	4600	4552	53	19	14.76	-217	-612	1985	1948	36.89	53.791	
6700	5001	4600	4552	55	19	14.76	-217	-612	2082	2045	37.04	56.219	
6800	5002	4600	4552	58	19	14.76	-217	-612	2180	2143	37.16	58.655	
6900	5002	4600	4552	60	19	14.76	-217	-612	2278	2241	37.28	61.098	
7000	5003	4600	4552	63	19	14.76	-217	-612	2376	2338	37.39	63.545	
7100	5004	4600	4552	65	19	14.76	-217	-612	2474	2437	37.49	65.996	
7200	5004	4600	4552	68	19	14.76	-217	-612	2573	2535	37.58	68.448	
7300	5005	4600	4552	70	19	14.76	-217	-612	2671	2633	37.67	70.903	
7400	5005	4600	4552	72	19	14.76	-217	-612	2770	2732	37.76	73.357	
7500	5006	4600	4552	75	19	14.76	-217	-612	2868	2831	37.84	75.812	
7600	5007	4600	4552	77	19	14.76	-217	-612	2967	2929	37.91	78.265	
7700	5007	4600	4552	80	19	14.76	-217	-612	3066	3028	37.98	80.717	
7800	5008	4578	4531	82	19	14.46	-212	-612	3164	3127	37.89	83.512	
7900	5009	4576	4529	85	19	14.43	-212	-612	3263	3225	37.95	85.996	
8000	5009	4574	4527	87	18	14.41	-211	-612	3362	3324	38.00	88.476	
8100	5010	4572	4525	90	18	14.38	-211	-612	3461	3423	38.06	90.952	
8200	5011	4550	4503	92	18	14.10	-207	-612	3561	3523	37.97	93.789	
8300	5011	4550	4503	95	18	14.10	-207	-612	3660	3622	38.03	96.227	
8400	5012	4550	4503	97	18	14.10	-207	-612	3759	3721	38.10	98.660	
8500	5012	4550	4503	100	18	14.10	-207	-612	3858	3820	38.17	101.089	
8600	5013	4550	4503	103	18	14.10	-207	-612	3957	3919	38.23	103.513	
8700	5014	4550	4503	105	18	14.10	-207	-612	4057	4018	38.29	105.933	
8800	5014	4550	4503	108	18	14.10	-207	-612	4156	4117	38.36	108.347	
8900	5015	4550	4503	110	18	14.10	-207	-612	4255	4217	38.42	110.755	
9000	5016	4550	4503	113	18	14.10	-207	-612	4354	4316	38.48	113.158	

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 #404H - Slot 3
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 #404H	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		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)			
9100	5016	4550	4503	115	18	14.10	-207	-612	4454	4415	38.54	115.555	
9200	5017	4550	4503	118	18	14.10	-207	-612	4553	4515	38.60	117.946	
9300	5018	4550	4503	120	18	14.10	-207	-612	4653	4614	38.66	120.331	
9400	5018	4550	4503	123	18	14.10	-207	-612	4752	4713	38.73	122.709	
9500	5019	4550	4503	125	18	14.10	-207	-612	4851	4813	38.79	125.080	
9600	5019	4550	4503	128	18	14.10	-207	-612	4951	4912	38.85	127.444	
9700	5020	4550	4503	131	18	14.10	-207	-612	5050	5011	38.91	129.802	
9800	5021	4550	4503	133	18	14.10	-207	-612	5150	5111	38.97	132.152	
9900	5021	4550	4503	136	18	14.10	-207	-612	5249	5210	39.03	134.494	
10,000	5022	4550	4503	138	18	14.10	-207	-612	5349	5310	39.09	136.829	
10,100	5023	4550	4503	141	18	14.10	-207	-612	5449	5409	39.15	139.157	
10,200	5023	4550	4503	143	18	14.10	-207	-612	5548	5509	39.22	141.477	
10,300	5024	4550	4503	146	18	14.10	-207	-612	5648	5608	39.28	143.788	
10,400	5025	4550	4503	148	18	14.10	-207	-612	5747	5708	39.34	146.092	
10,500	5025	4550	4503	151	18	14.10	-207	-612	5847	5808	39.40	148.388	
10,600	5026	4550	4503	154	18	14.10	-207	-612	5947	5907	39.47	150.675	
10,700	5027	4550	4503	156	18	14.10	-207	-612	6046	6007	39.53	152.955	
10,800	5027	4550	4503	159	18	14.10	-207	-612	6146	6106	39.59	155.225	
10,900	5028	4550	4503	161	18	14.10	-207	-612	6246	6206	39.66	157.487	
11,000	5028	4550	4503	164	18	14.10	-207	-612	6345	6306	39.72	159.741	
11,100	5029	4550	4503	166	18	14.10	-207	-612	6445	6405	39.79	161.986	
11,200	5030	4550	4503	169	18	14.10	-207	-612	6545	6505	39.85	164.222	
11,300	5030	4550	4503	172	18	14.10	-207	-612	6644	6605	39.92	166.449	
11,400	5031	4550	4503	174	18	14.10	-207	-612	6744	6704	39.98	168.667	
11,500	5032	4550	4503	177	18	14.10	-207	-612	6844	6804	40.05	170.876	
11,600	5032	4550	4503	179	18	14.10	-207	-612	6944	6903	40.12	173.077	
11,700	5033	4550	4503	182	18	14.10	-207	-612	7043	7003	40.19	175.268	
11,800	5034	4550	4503	184	18	14.10	-207	-612	7143	7103	40.25	177.449	
11,871	5034	4550	4503	186	18	14.10	-207	-612	7214	7174	40.30	178.999	

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 #404H - Slot 3
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 #404H	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 #325H - 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		
0	0	0	0	0	0	-116.26	-9	-18	20					
100	100	100	100	0	0	-116.26	-9	-18	20	19	0.62	32.021		
200	200	200	200	1	1	-116.26	-9	-18	20	18	1.33	14.805		
300	300	300	300	1	1	-116.26	-9	-18	20	18	2.05	9.629		
400	400	400	400	1	1	-116.26	-9	-18	20	17	2.77	7.134		
425	425	425	425	1	1	-116.26	-9	-18	20	17	2.95	6.700		
500	500	500	500	2	2	-20.97	-9	-17	18	15	3.47	5.322		
600	600	600	600	2	2	-44.67	-12	-14	14	10	4.15	3.397		
641	640	640	640	2	2	-65.29	-14	-12	13	9	4.43	2.975 CC, ES		
700	700	699	698	2	2	-99.72	-17	-8	16	11	4.84	3.319		
800	799	796	795	3	3	-130.58	-24	0	32	27	5.54	5.801		
900	898	893	892	3	3	-142.05	-31	9	55	48	6.25	8.727		
997	993	987	985	4	3	-147.87	-39	17	80	73	6.94	11.515		
1000	996	990	987	4	3	-148.00	-39	18	81	74	6.97	11.582		
1100	1094	1085	1082	4	4	-151.62	-46	26	109	101	7.67	14.170		
1200	1192	1181	1178	4	4	-153.75	-53	35	137	129	8.39	16.336		
1300	1290	1277	1273	5	5	-155.16	-61	43	165	156	9.10	18.168		
1400	1388	1373	1368	5	5	-156.15	-68	52	194	184	9.82	19.732		
1500	1486	1469	1463	6	5	-156.89	-75	60	222	212	10.54	21.080		
1600	1584	1564	1558	6	6	-157.46	-82	69	251	240	11.27	22.252		
1700	1682	1660	1653	7	6	-157.91	-90	78	279	267	12.00	23.280		
1800	1780	1756	1749	7	6	-158.28	-97	86	308	295	12.73	24.187		
1900	1878	1852	1844	8	7	-158.59	-104	95	336	323	13.46	24.995		
2000	1976	1948	1939	8	7	-158.85	-111	103	365	351	14.19	25.717		
2100	2074	2044	2034	8	8	-159.07	-119	112	394	379	14.92	26.368		
2200	2172	2139	2129	9	8	-159.26	-126	120	422	406	15.66	26.955		
2300	2270	2235	2224	9	8	-159.43	-133	129	451	434	16.39	27.490		
2400	2368	2331	2320	10	9	-159.58	-140	137	479	462	17.13	27.977		
2500	2466	2427	2415	10	9	-159.71	-148	146	508	490	17.86	28.423		
2600	2564	2523	2510	11	9	-159.83	-155	154	536	518	18.60	28.833		
2700	2662	2619	2605	11	10	-159.93	-162	163	565	546	19.34	29.212		
2800	2760	2714	2700	12	10	-160.03	-169	172	594	573	20.08	29.561		
2900	2858	2810	2795	12	11	-160.11	-177	180	622	601	20.82	29.886		
3000	2956	2906	2891	13	11	-160.19	-184	189	651	629	21.55	30.188		
3100	3054	3002	2986	13	11	-160.26	-191	197	679	657	22.29	30.469		
3200	3152	3098	3081	14	12	-160.33	-199	206	708	685	23.03	30.732		
3300	3250	3193	3176	14	12	-160.39	-206	214	736	713	23.77	30.978		
3400	3348	3289	3271	14	12	-160.45	-213	223	765	740	24.51	31.209		
3500	3446	3385	3366	15	13	-160.50	-220	231	794	768	25.25	31.427		
3600	3544	3481	3462	15	13	-160.55	-228	240	822	796	25.99	31.631		
3700	3642	3577	3557	16	14	-160.59	-235	249	851	824	26.73	31.824		
3800	3740	3673	3652	16	14	-160.64	-242	257	879	852	27.47	32.007		
3900	3838	3768	3747	17	14	-160.68	-249	266	908	880	28.21	32.179		
4000	3936	3864	3842	17	15	-160.71	-257	274	937	908	28.96	32.343		
4100	4034	3960	3937	18	15	-160.75	-264	283	965	935	29.70	32.498		
4200	4133	4056	4033	18	16	-160.78	-271	291	994	963	30.44	32.645		
4300	4231	4152	4128	19	16	-160.81	-278	300	1022	991	31.18	32.786		
4400	4329	4248	4223	19	16	-160.84	-286	308	1051	1019	31.92	32.919		
4500	4427	4346	4321	20	17	-160.87	-294	316	1079	1047	32.66	33.052		
4592	4517	4436	4411	20	18	-160.90	-302	324	1107	1075	33.40	33.185		
4600	4525	4444	4419	20	18	-160.92	-309	332	1135	1103	34.14	33.318		
4650	4573	4492	4467	20	18	-160.95	-316	340	1163	1131	34.88	33.451		

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



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Anticollision Report



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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 #404H	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 #325H - 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	4621	5932	5198	21	29	128.66	350	-325	875	837	38.11	22.964	
4750	4667	5950	5198	21	29	124.83	362	-338	851	811	39.73	21.425	
4800	4711	5972	5198	21	29	122.17	378	-353	830	789	41.42	20.038	
4850	4753	5998	5198	22	30	120.05	396	-372	812	769	43.17	18.801	
4900	4793	6028	5198	22	30	118.14	417	-393	796	751	44.98	17.698	
4950	4830	6061	5198	22	31	116.32	441	-417	783	736	46.82	16.725	
5000	4864	6098	5199	23	32	114.54	467	-443	773	724	48.69	15.869	
5050	4894	6138	5199	23	33	112.82	494	-472	764	714	50.59	15.106	
5100	4921	6180	5199	24	34	111.19	524	-502	758	705	52.51	14.431	
5150	4943	6225	5199	24	34	109.70	555	-534	753	699	54.46	13.826	
5200	4962	6271	5200	25	35	108.41	588	-567	749	693	56.43	13.282	
5250	4976	6319	5200	26	36	107.39	622	-601	747	688	58.40	12.789	
5300	4986	6368	5200	26	38	106.67	656	-636	745	685	60.38	12.342	
5312	4988	6380	5200	26	38	106.55	664	-644	745	684	60.84	12.244	
5350	4991	6418	5201	27	39	106.30	691	-671	744	682	62.33	11.938	
5357	4992	6425	5201	27	39	106.28	696	-676	744	681	62.61	11.883	
5382	4993	6450	5201	28	39	106.26	713	-694	744	680	63.57	11.700	
5386	4993	6454	5201	28	40	106.26	716	-697	744	680	63.72	11.672	
5400	4993	6468	5201	28	40	106.26	726	-707	744	679	64.25	11.572	
5422	4993	6490	5201	28	40	106.26	741	-723	743	678	65.10	11.418	
5500	4993	6568	5202	29	42	106.28	796	-778	743	675	68.17	10.894	
5522	4993	6590	5202	30	43	106.28	812	-794	743	673	69.06	10.752	
5600	4994	6668	5202	31	44	106.30	866	-849	742	670	72.24	10.270	
5622	4994	6690	5202	32	45	106.30	882	-865	742	669	73.15	10.139	
5700	4995	6768	5203	33	47	106.32	937	-921	741	665	76.42	9.697	
5722	4995	6790	5203	34	47	106.32	952	-936	741	663	77.36	9.577	
5800	4995	6868	5203	35	49	106.34	1007	-992	740	659	80.70	9.172	
5822	4995	6890	5204	36	50	106.34	1022	-1008	740	658	81.66	9.062	
5900	4996	6968	5204	37	52	106.35	1077	-1063	739	654	85.06	8.692	
5922	4996	6990	5204	38	52	106.36	1092	-1079	739	653	86.04	8.591	
6000	4997	7068	5205	39	54	106.37	1147	-1134	739	649	89.50	8.252	
6022	4997	7090	5205	40	54	106.38	1162	-1150	738	648	90.48	8.160	
6100	4997	7168	5205	42	56	106.39	1217	-1206	738	644	93.99	7.848	
6122	4997	7190	5206	42	57	106.40	1233	-1221	737	642	94.98	7.764	
6200	4998	7268	5206	44	59	106.41	1287	-1277	737	638	98.53	7.478	
6222	4998	7290	5206	44	59	106.42	1303	-1293	737	637	99.54	7.401	
6300	4998	7368	5207	46	61	106.43	1358	-1348	736	633	103.11	7.137	
6322	4999	7390	5207	47	62	106.43	1373	-1364	736	632	104.13	7.066	
6400	4999	7468	5207	48	64	106.45	1428	-1419	735	627	107.74	6.824	
6422	4999	7490	5207	49	64	106.45	1443	-1435	735	626	108.76	6.758	
6500	5000	7568	5208	51	66	106.47	1498	-1491	734	622	112.39	6.534	
6522	5000	7590	5208	51	67	106.47	1513	-1506	734	621	113.42	6.473	
6600	5000	7668	5209	53	69	106.49	1568	-1562	733	616	117.07	6.265	
6622	5000	7690	5209	54	69	106.49	1583	-1577	733	615	118.10	6.209	
6700	5001	7768	5209	55	71	106.51	1638	-1633	733	611	121.77	6.016	
6722	5001	7790	5209	56	72	106.51	1654	-1649	732	610	122.81	5.964	
6800	5002	7868	5210	58	74	106.53	1708	-1704	732	605	126.50	5.785	
6822	5002	7890	5210	58	74	106.53	1724	-1720	732	604	127.54	5.736	
6900	5002	7968	5210	60	76	106.54	1779	-1776	731	600	131.25	5.569	
6922	5002	7990	5211	61	77	106.55	1794	-1791	731	598	132.29	5.524	
7000	5003	8068	5211	63	79	106.56	1849	-1847	730	594	136.01	5.368	
7022	5003	8090	5211	63	79	106.57	1864	-1862	730	593	137.06	5.326	

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Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well Lybrook P26A 2306 COM #404H - Slot 3
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 #404H	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 #325H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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)			
7100	5004	8168	5212	65	81	106.58	1919	-1918	729	588	140.78	5.180	
7122	5004	8190	5212	66	82	106.59	1934	-1934	729	587	141.83	5.140	
7200	5004	8268	5212	68	84	106.60	1989	-1989	728	583	145.57	5.004	
7222	5004	8290	5212	68	84	106.61	2004	-2005	728	582	146.63	4.967	
7300	5005	8368	5213	70	86	106.62	2059	-2061	728	577	150.37	4.838	
7322	5005	8390	5213	71	87	106.63	2075	-2076	727	576	151.43	4.803	
7400	5005	8468	5214	72	89	106.64	2129	-2132	727	572	155.18	4.683	
7422	5006	8490	5214	73	89	106.65	2145	-2147	727	570	156.24	4.650	
7500	5006	8568	5214	75	91	106.66	2200	-2203	726	566	160.00	4.537	
7522	5006	8590	5214	75	92	106.67	2215	-2219	726	565	161.07	4.506	
7600	5007	8668	5215	77	94	106.68	2270	-2274	725	560	164.83	4.399	
7622	5007	8690	5215	78	94	106.68	2285	-2290	725	559	165.90	4.369	
7700	5007	8768	5216	80	96	106.70	2340	-2345	724	555	169.67	4.268	
7722	5008	8790	5216	80	97	106.70	2355	-2361	724	553	170.73	4.241	
7800	5008	8868	5216	82	99	106.72	2410	-2417	723	549	174.51	4.145	
7822	5008	8890	5216	83	100	106.72	2425	-2432	723	548	175.58	4.119	
7900	5009	8968	5217	85	102	106.74	2480	-2488	723	543	179.36	4.028	
7922	5009	8990	5217	85	102	106.74	2496	-2504	722	542	180.43	4.003	
8000	5009	9068	5217	87	104	106.76	2550	-2559	722	537	184.22	3.918	
8022	5009	9090	5218	88	105	106.76	2566	-2575	721	536	185.29	3.894	
8100	5010	9168	5218	90	107	106.78	2621	-2630	721	532	189.08	3.812	
8122	5010	9190	5218	90	107	106.78	2636	-2646	721	531	190.15	3.790	
8200	5011	9268	5219	92	109	106.80	2691	-2702	720	526	193.94	3.712	
8222	5011	9290	5219	93	110	106.80	2706	-2717	720	525	195.01	3.691	
8300	5011	9368	5219	95	112	106.82	2761	-2773	719	520	198.81	3.617	
8322	5011	9390	5219	96	112	106.82	2776	-2789	719	519	199.88	3.597	
8400	5012	9468	5220	97	114	106.84	2831	-2844	718	515	203.69	3.527	
8422	5012	9490	5220	98	115	106.84	2846	-2860	718	513	204.76	3.507	
8500	5012	9568	5221	100	117	106.86	2901	-2915	717	509	208.56	3.440	
8522	5013	9590	5221	101	117	106.86	2917	-2931	717	508	209.63	3.422	
8600	5013	9668	5221	103	119	106.88	2971	-2987	717	503	213.44	3.358	
8622	5013	9690	5221	103	120	106.88	2987	-3002	716	502	214.51	3.340	
8700	5014	9768	5222	105	122	106.90	3042	-3058	716	497	218.32	3.279	
8722	5014	9790	5222	106	123	106.90	3057	-3074	716	496	219.40	3.262	
8800	5014	9868	5222	108	125	106.92	3112	-3129	715	492	223.21	3.203	
8822	5015	9890	5223	108	125	106.92	3127	-3145	715	490	224.28	3.187	
8900	5015	9968	5223	110	127	106.94	3182	-3200	714	486	228.10	3.131	
8922	5015	9990	5223	111	128	106.94	3197	-3216	714	485	229.17	3.115	
9000	5016	10,068	5224	113	130	106.96	3252	-3272	713	480	232.99	3.061	
9022	5016	10,090	5224	113	130	106.96	3267	-3287	713	479	234.06	3.047	
9100	5016	10,168	5224	115	132	106.98	3322	-3343	712	475	237.88	2.995	
9122	5016	10,190	5225	116	133	106.98	3338	-3359	712	473	238.95	2.981	
9200	5017	10,268	5225	118	135	107.00	3392	-3414	712	469	242.77	2.931	
9222	5017	10,290	5225	118	135	107.00	3408	-3430	711	468	243.84	2.917	
9300	5018	10,368	5226	120	137	107.02	3462	-3485	711	463	247.66	2.870	
9322	5018	10,390	5226	121	138	107.02	3478	-3501	711	462	248.74	2.857	
9400	5018	10,468	5226	123	140	107.04	3533	-3557	710	457	252.56	2.811	
9422	5018	10,490	5226	123	141	107.04	3548	-3572	710	456	253.63	2.798	
9500	5019	10,568	5227	125	143	107.06	3603	-3628	709	452	257.46	2.754	
9522	5019	10,590	5227	126	143	107.07	3618	-3644	709	450	258.53	2.742	
9600	5019	10,668	5228	128	145	107.08	3673	-3699	708	446	262.35	2.700	
9622	5020	10,690	5228	129	146	107.09	3688	-3715	708	445	263.43	2.688	

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Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
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Offset Design: P26A 2306 Pad - Lybrook P26A 2306 COM #325H - Original Drilling - APD												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												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)			
9700	5020	10,768	5228	131	148	107.10	3743	-3770	707	440	267.25	2.647	
9722	5020	10,790	5228	131	148	107.11	3759	-3786	707	439	268.33	2.636	
9800	5021	10,868	5229	133	150	107.12	3813	-3842	707	434	272.15	2.596	
9822	5021	10,890	5229	134	151	107.13	3829	-3857	706	433	273.23	2.585	
9900	5021	10,968	5229	136	153	107.14	3883	-3913	706	429	277.05	2.547	
9922	5022	10,990	5230	136	153	107.15	3899	-3928	706	427	278.13	2.537	
10,000	5022	11,068	5230	138	155	107.16	3954	-3984	705	423	281.96	2.500	
10,022	5022	11,090	5230	139	156	107.17	3969	-4000	705	422	283.03	2.490	
10,100	5023	11,168	5231	141	158	107.18	4024	-4055	704	417	286.86	2.454	
10,122	5023	11,190	5231	141	159	107.19	4039	-4071	704	416	287.93	2.445	
10,200	5023	11,268	5231	143	161	107.21	4094	-4127	703	411	291.76	2.410	
10,222	5023	11,290	5231	144	161	107.21	4109	-4142	703	410	292.83	2.401	
10,300	5024	11,368	5232	146	163	107.23	4164	-4198	702	406	296.66	2.368	
10,322	5024	11,390	5232	146	164	107.23	4180	-4213	702	404	297.74	2.358	
10,400	5025	11,468	5233	148	166	107.25	4234	-4269	702	400	301.56	2.326	
10,422	5025	11,490	5233	149	166	107.25	4250	-4285	701	399	302.64	2.317	
10,500	5025	11,568	5233	151	168	107.27	4304	-4340	701	394	306.47	2.286	
10,522	5025	11,590	5233	152	169	107.27	4320	-4356	701	393	307.54	2.278	
10,600	5026	11,668	5234	154	171	107.29	4375	-4412	700	388	311.37	2.248	
10,622	5026	11,690	5234	154	171	107.29	4390	-4427	700	387	312.45	2.239	
10,700	5027	11,768	5235	156	173	107.31	4445	-4483	699	383	316.27	2.210	
10,722	5027	11,790	5235	157	174	107.31	4460	-4498	699	381	317.35	2.202	
10,800	5027	11,868	5235	159	176	107.33	4515	-4554	698	377	321.18	2.174	
10,822	5027	11,890	5235	159	177	107.34	4530	-4570	698	376	322.25	2.166	
10,900	5028	11,968	5236	161	179	107.35	4585	-4625	697	371	326.08	2.139	
10,922	5028	11,990	5236	162	179	107.36	4601	-4641	697	370	327.16	2.131	
11,000	5028	12,068	5236	164	181	107.37	4655	-4697	697	366	330.98	2.104	
11,022	5029	12,090	5237	164	182	107.38	4671	-4712	696	364	332.06	2.097	
11,100	5029	12,168	5237	166	184	107.39	4725	-4768	696	360	335.89	2.071	
11,122	5029	12,190	5237	167	184	107.40	4741	-4783	695	359	336.96	2.064	
11,200	5030	12,268	5238	169	186	107.42	4796	-4839	695	354	340.79	2.039	
11,222	5030	12,290	5238	170	187	107.42	4811	-4855	695	353	341.86	2.032	
11,300	5030	12,368	5238	172	189	107.44	4866	-4910	694	348	345.69	2.008	
11,322	5030	12,390	5238	172	190	107.44	4881	-4926	694	347	346.77	2.001	
11,400	5031	12,468	5239	174	192	107.46	4936	-4982	693	343	350.59	1.977	
11,422	5031	12,490	5239	175	192	107.46	4951	-4997	693	341	351.67	1.971	
11,500	5032	12,568	5240	177	194	107.48	5006	-5053	692	337	355.49	1.947	
11,522	5032	12,590	5240	177	195	107.48	5022	-5068	692	336	356.57	1.941	
11,600	5032	12,668	5240	179	197	107.50	5076	-5124	691	331	360.40	1.919	
11,622	5032	12,690	5240	180	197	107.51	5092	-5140	691	330	361.47	1.912	
11,700	5033	12,768	5241	182	199	107.52	5146	-5195	691	325	365.30	1.891	
11,722	5033	12,790	5241	182	200	107.53	5162	-5211	690	324	366.37	1.885	
11,800	5034	12,868	5241	184	202	107.54	5217	-5266	690	320	370.20	1.863	
11,816	5034	12,883	5242	185	202	107.55	5228	-5278	690	319	370.96	1.859	
11,871	5034	12,939	5242	186	204	107.56	5267	-5317	689	316	373.69	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 #404H - Slot 3
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 #404H	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

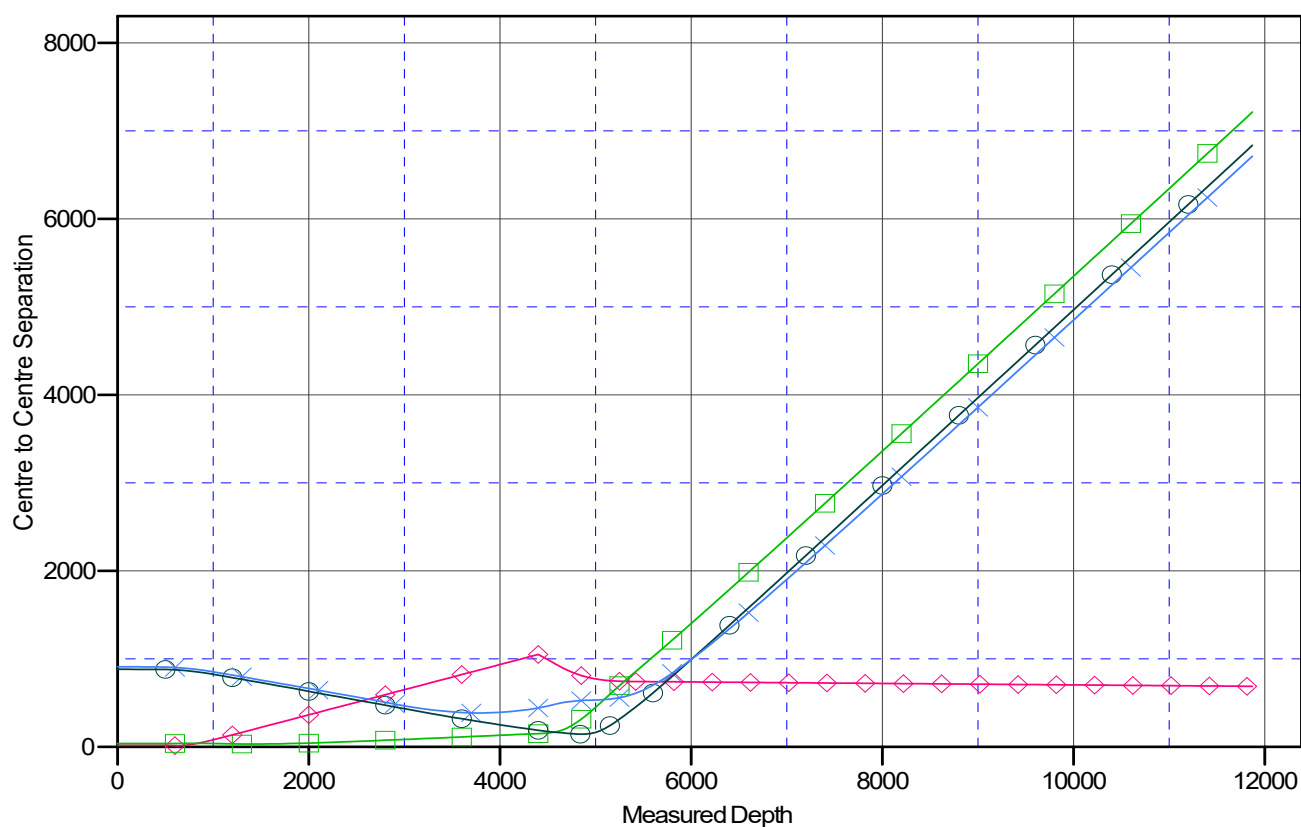
Central Meridian is -107.83333333

Coordinates are relative to: Lybrook P26A 2306 COM #404H - Slot 3

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 #404H Original Drilling (APD)
■ Gallo Canyon Unit #20 4H Original Drilling (APD)

● Gallo Canyon Unit #20 4H Offset Datum
× Gallo Canyon Unit #20 3H Offset Datum

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 #404H - Slot 3
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 #404H	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

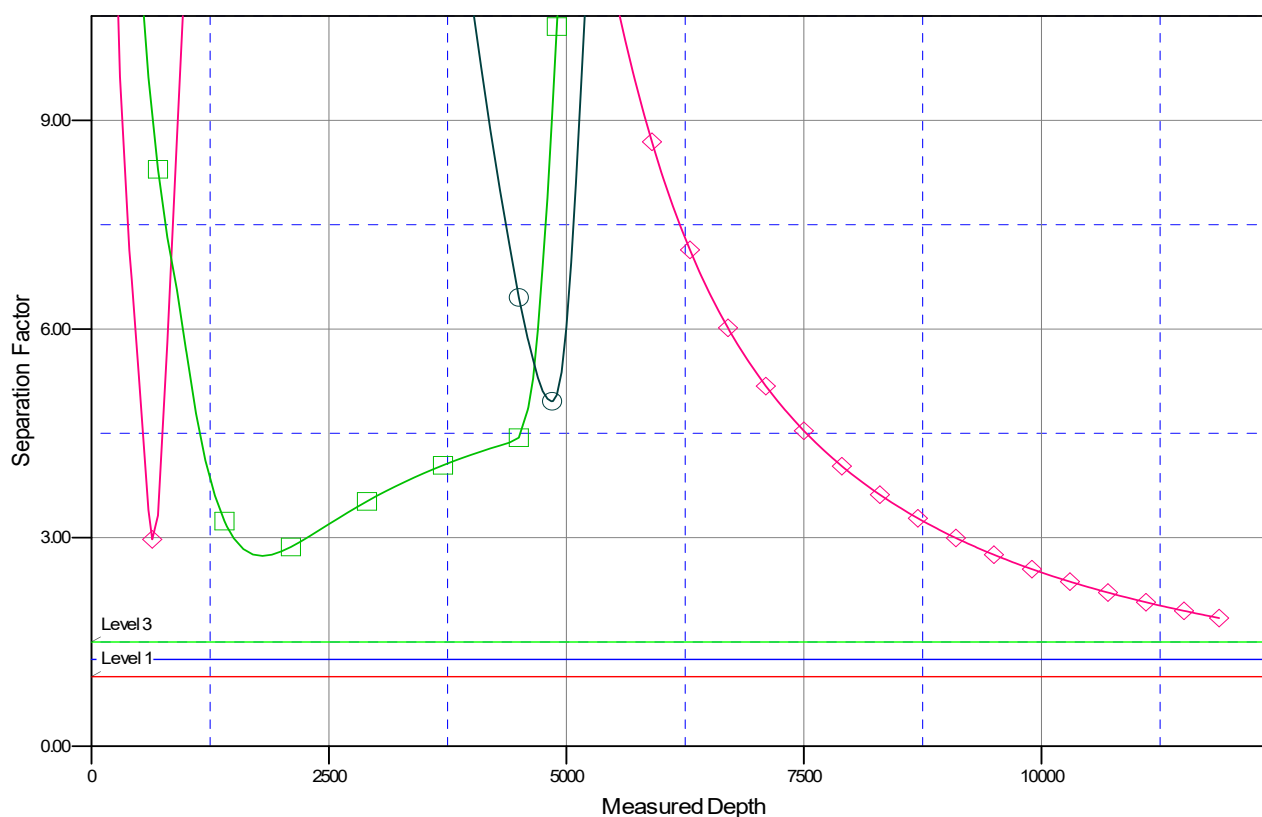
Central Meridian is -107.8333333

Coordinates are relative to: Lybrook P26A 2306 COM #404H - Slot 3

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

Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND



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



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

* DJR OPERATING LLC
#404H 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: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 27, 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/oecd/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 453948

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 453948
	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