Form 3160-3 (June 2015) UNITED STATES					APPROV o. 1004-0 nnuary 31	137	
DEPARTMENT OF THE II BUREAU OF LAND MANA	NTERIOR	Γ		5. Lease Serial No.			
APPLICATION FOR PERMIT TO D		6. If Indian, Allotee	or Tribe	Name			
1a. Type of work: DRILL R	EENTER			7. If Unit or CA Agi	reement,	Name and No.	
1b. Type of Well: Oil Well Gas Well O  1c. Type of Completion: Hydraulic Fracturing Si		8. Lease Name and	Well No.				
2. Name of Operator				9. API Well No.	0-045	-38330	
3a. Address	3b. Phone N	No. (include area code	()	10. Field and Pool,	or Exploi	atory	
Location of Well (Report location clearly and in accordance v     At surface     At proposed prod. zone		requirements.*)		11. Sec., T. R. M. or			
14. Distance in miles and direction from nearest town or post offi	ice*			12. County or Parish	1	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	cres in lease	17. Spacir	ng Unit dedicated to t	his well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	ed Depth	20. BLM/	BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will s	start*	23. Estimated durate	ion		
	24. Attac	chments					
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1	, and the H	Iydraulic Fracturing r	ule per 4.	3 CFR 3162.3-3	
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		Item 20 above). 5. Operator certification	ation.	s unless covered by an mation and/or plans as			
25. Signature	Name	(Printed/Typed)			Date		
Title	<b>'</b>						
Approved by (Signature)	Name	e (Printed/Typed)			Date		
Title	Office	2					
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	nt holds legal	or equitable title to th	ose rights	in the subject lease w	hich wou	lld entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					any depar	tment or agency	
				R			



\*(Instructions on page 2)

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code <sup>3</sup> Pool Name						
30-045-38330 98175			BETONNIE	TSOSIE	WASH	UNIT	MANC	OS OIL POOL
<sup>4</sup> Property Code		<sup>5</sup> Property Name						
325179		BETONNIE TSOSIE WASH UNIT						401H
OGRID No.		<sup>8</sup> Operator Name						<sup>9</sup> Elevation
371838		DJR OPERATING, LLC					6864'	

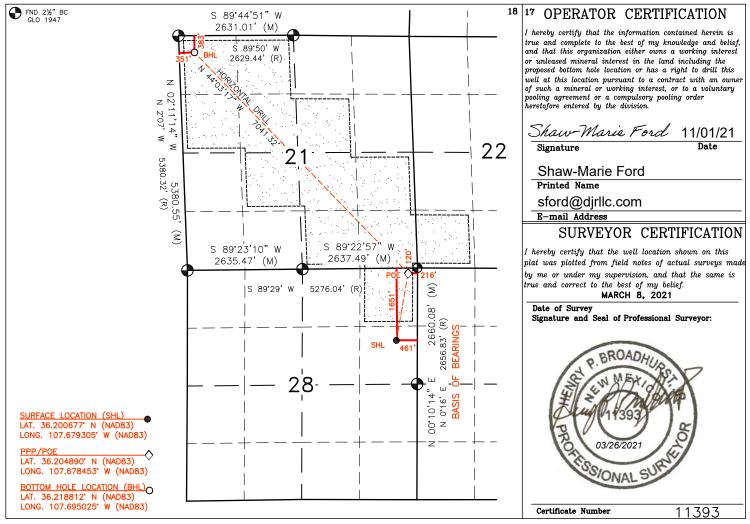
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	28	23N	8W		1651'	NORTH	461'	EAST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	23N	8W		383'	NORTH	351'	WEST	SAN JUAN
SEC 22: SW/SW (40 AC.); SEC 2 NW/4 (400 AC.)	(40 AC.); 1: SE/4, S	SW/NE, NE/Ś	/NE	oint or Infill	<sup>14</sup> Consolidation C	ode	<sup>15</sup> Order No. R-13	3930 R-13930	A

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



DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

DJR OPERATING, LLC BETONNIE TSOSIE WASH UNIT #401H

E/4 CORNER SEC 28 LAT. 36.197916° N (NAD83) A JUAN COUNTY
ARRIBA COUNTY LONG. 107.677760° W (NAD83) NE CORNER SEC 28 LAT. 36.205224\* N (NAD83) LONG. 107.677719\* W (NAD83) N/4 CORNER SEC 28 LAT. 36.205157\* N (NAD83) SAN RIO / LONG. 107.686659° W (NAD83) NW CORNER SEC 28 LAT. 36.205090° N (NAD83) LONG. 107.695591 W (NAD83) NW CORNER SEC 21 LAT. 36.219861\* N (NAD83) LONG. 107.696262\* W (NAD83) N/4 CORNER SEC 21 LAT. 36.219882\* N (NAD83) LONG. 107.687342° W (NAD83) ≥|≥ NMNM∞ | <u>~</u> 076842 22 22 NMNM 118132 NMNM050999 T 23 N T 22 N SURFACE LOCATION (SHL) LAT. 36.200677° N (NAD83) LONG. 107.679305° W (NAD83) LAT. 36.204890° N (NAD83) LONG. 107.678453° W (NAD83) BOTTOM HOLE LOCATION (BHL) LAT. 36.218812\* N (NAD83) LONG. 107.695025\* W (NAD83) PENETRATED SPACING UNIT;
SEC 22: SW/SW (40 AC.); SEC 28: NE/NE (40 AC.);
SEC 21: SE/4, SW/NE, NE/SW, NW/4 (400 AC.);
= 480 ACRES

13,137.00 ACRES - ALL SEC 18, T23N, R7W;
ALL 11, 13, 14, 21-23, 26-28, 33-35, T23N, R8W; ALL 3-5, 7, 8,
10, 6 (E/2 & SW/4), 9 (E/2 & NW/4), T22N R8W - UNDIVIDED UNIT 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

<b>I. Operator:</b> DJR Operating, LLC_		OGRI	<b>D:</b> 371838	Da	ate: _12_/_11_	
II. Type: ⊠ Original □ Amendment	due to [	□ 19.15.27.9.D(6)	)(a) NMAC □ 19.15.27	.9.D(6)(b) NM	AC  Other.	
If Other, please describe:				· · · · · · · · · · · · · · · · · · ·		
III. Well(s): Provide the following info be recompleted from a single well pad of				t of wells prop	osed to be drill	ed or proposed to
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil	Gas	Produced
				BBL/D	MCF/D	Water BBL/D
Betonnie Tsosie Wash Unit 401H	TBD	H-28-23N-08W	1651 FNL x 461 FEL	423	538	150
Betonnie Tsosie Wash Unit 402H	TBD	H-28-23N-08W	1657 FNL x 479 FEL	345	439	123
Betonnie Tsosie Wash Unit 732H	TBD	H-28-23N-08W	1645 FNL x 442 FEL	289	368	103
IV. Central Delivery Point Name:		Chaco Processin	g Plant		See 19.15.27.9	9(D)(1) NMAC]

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	Initial	First
				Commencement	Flow Back	Production
				Date	Date	Date
Betonnie Tsosie Wash Unit 401H	TBD	07/04/2024	07/16/2024	09/15/2024	09/25/2024	09/27/2024
Betonnie Tsosie Wash Unit 402H	TBD	07/05/2024	07/18/2024	09/15/2024	09/27/2024	09/29/2024
Betonnie Tsosie Wash Unit 732H	TBD	07/06/2024	07/20/2024	09/15/2024	09/29/2024	09/31/2024
		·				

- 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.

Page 1 of 4

#### 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. $\square$ 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 $\square$	will □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well	prior to the date of first p	production.			

XIII. Line Pressure. Operator $\square$ does $\square$ 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 b	y the new w	rell(s).

Attach Operator's plan		1		1 ' 1	1.
Attach (Inerator's plat	a ta manage nr	oduction in	rechance to t	he increased	line preceiire

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	n
for which confidentiality is asserted and the basis for such assertion.	

# Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a)

- power generation for grid; (b)
- compression on lease; (c)
- (d) liquids removal on lease;
- reinjection for underground storage; (e)
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- fuel cell production; and (h)
- other alternative beneficial uses approved by the division. (i)

#### **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- 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
- 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: Shaw-Marie Ford
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrllc.com
Date: 12/11/2023
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
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-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:

- o Individual 3-phase separator will be set for the individual well.
- o 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.
- o The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

#### Heater treaters will be set as follows:

- o 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.
- o The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

#### Vapor Recovery Equipment will be set as follows:

- o 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.

1 Road 3263 Aztec, NM 87410 Phone (505) 632-3476 Fax (505) 632-8151



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-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:

- o Scheduled maintenance for gas capturing equipment including:
  - Vapor Recovery Tower
  - Vapor Recovery Unit
  - Storage tanks
  - o Pipelines
  - o Emergency flaring



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-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

- o 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.
- o 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:

- o DJR facilities are built and ready from day 1 of Flowback.
- o 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.

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#### 19.15.27.8 D. Venting and flaring during production operations

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

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

#### 19.15.27.8 E. Performance standards

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

1 Road 3263 Aztec, NM 87410 Phone (505) 632-3476 Fax (505) 632-8151



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

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

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



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 305H, 306H, 721H
NWNE B-21-23N-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.

DJRs 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.

1 Road 3263 Aztec, NM 87410 Phone (505) 632-3476 Fax (505) 632-8151 Rev 0



# DRILLING PLAN Betonnie Tsosie Wash Unit #401H San Juan County, New Mexico

**Surface Location** 

461-ft FEL & 1651-ft FNL Sec 28 T23N R08W Graded Elevation 6864' MSL RKB Elevation 6878' (14' KB) SHL Geographical Coordinates (NAD-83)

Latitude 36.2006770° N Longitude 107.6793050° W

**Kick Off Point for Horizontal Build Curve** 

4560-ft MD 4395-ft TVD **Local Coordinates (from SHL)** 

964-ft North 567-ft East

**Heel Location (Pay zone entry)** 

216-ft FEL & 120-ft FNL Sec 28 T23N R08W **Heel Geographical Coordinates (NAD-83)** 

Latitude 36.2048898° N Longitude 107.67845299° W

**Bottom Hole Location (TD)** 

351-ft FWL & 383-ft FNL Sec 21 T23N R08W **BHL Geographical Coordinates (NAD-83)** 

Latitude 36.21881155° N Longitude 107.6950245° W

#### Well objectives

This well is planned as a 7040-ft lateral in the Gallup C sand.

#### **Bottom Hole temperature and pressure**

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

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

Name	MD (ft)	TVD (ft)	Lithology	Pore fluid	Expected Pore Pressure (ppg)	Planned Mud Weight (ppg)
Ojo Alamo	651	651	Sd	W	8.3	8.4 - 8.8
Kirtland	771	770	Sh	-	8.3	8.4 - 8.8
Fruitland	1027	1022	С	G	8.3	9.0 - 9.5
Pictured Cliffs	1344	1327	Sd	W	8.3	9.0 - 9.5
Lewis	1472	1449	Sh	-		9.0 - 9.5
Chacra	2095	2044	Sd	-	8.3	9.0 - 9.5
Menefee	2876	2789	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3874	3741	Sd	-	8.3	9.0 - 9.5
Mancos	4054	3912	Sh	-		9.0 - 9.5
Mancos Silt	4325	4171	SIt	O/G	6.6	9.0 - 9.5
Gallup A	4870	4674	SIt	O/G	6.6	9.0 - 9.5
Gallup B	4943	4730	Sd	O/G	6.6	8.8 -9.0
Gallup C	5093	4830	Sd	O/G	6.6	8.8 -9.0
Target	5503	4956	Sd	O/G	6.6	8.8 -9.0

#### **Casing Program**

Casing	Hole	Weight			MD	MD	TVD	TVD	Top of Cement
OD	Size	(#/ft)	Grade	Coupling	Top	Bottom	Top	Bottom	·
9-5/8"	12-1/4"	36	K-55	STC	surf	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5451	surf	4954	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5160	12545	4866	5024	5160

Note: all casing will be new

Rev 0



#### **Casing Design Load Cases**

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

#### Note #

- 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
- 50 bbl kick at TD, 0.50 ppg intensity, 4" drill pipe, 9.0 ppg mud, fracture gradient at shoe 2060 psi BHP, 687 psi surface pressure, 12.5 ppg EMW shoe integrity
- 4 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
- Overpull values as follows: Surface casing 20,000 lbs, Intermediate & Production 100,000 lbs

#### **Casing Design Factors**

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

#### **Cement Design**

9-5/8" Surface Casing	<u>Lead</u>
Name	Redi-Mix
Туре	I-II
Planned top	Surface
Density (ppg)	14.50
Yield (cf/sx)	1.61
Mix water (gal/sx)	7.41
Volume (sx)	114
Volume (bbls)	33
Volume (cu. ft.)	185
Excess %	50

7" Intermediate Casing	<u>Lead</u>	<u>Tail</u>
	BJ Services	BJ Services
Туре	III	Poz/G
Planned top	Surface	4060-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	394	223
Volume (bbls)	164	59
Volume (cu.ft.)	923	333
Excess %	55	55

Rev 0



#### 4-1/2" Production Liner

	BJ Services
Type	Poz/G
Planned top	5160-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	620
Volume (bbls)	173
Volume (cu.ft)	969
Excess %	40

#### **Wellhead & Pressure Control**

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

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

#### **Mud Program**

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

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 - 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non- dispersed	350 – 5451	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5451 – 12545	8.8 - 9.2	34 – 38	6 – 8	6 – 8

#### Cores, tests and logs

Wellbore surveying: Drift (inclination only) surveys will be obtained in surface hole. MWD directional surveys will be taken in intermediate and production hole.

Logging while drilling: None in surface hole. MWD GR in intermediate and production hole.

Mud logging: a two-person mud logging unit with C1-C4 gas analysis will be operational in intermediate and production hole.

Electric logging: No open hole electric logs are programmed. A cased hole GR/CCL will be run during completions for perforating depth control.

#### **Cuttings and drilling fluids management**

A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports with a bucket loader. Drying agents will be used if necessary. The solids will be taken to a licensed commercial disposal facility. Whole mud will be dewatered back to drill water and used as make up for subsequent wells or hauled off for disposal. A diagram of the closed loop system is included.

#### Completion

It is envisioned that this well will be completed with a multi-stage sand frac, using the plug and perf technique. After drilling out the plugs, the current plan is to install a 2-7/8" plunger-assisted gas lift tubing string. The stimulation and completion plan will be sundried at a later date.

# Proposed Wellhead 11" 5M Multi-bowl



Production configuration with 2-7/8" tubing

2-7/8\*LP

11\*\*SM

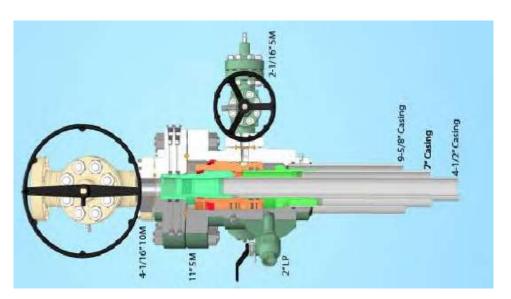
2\*LP

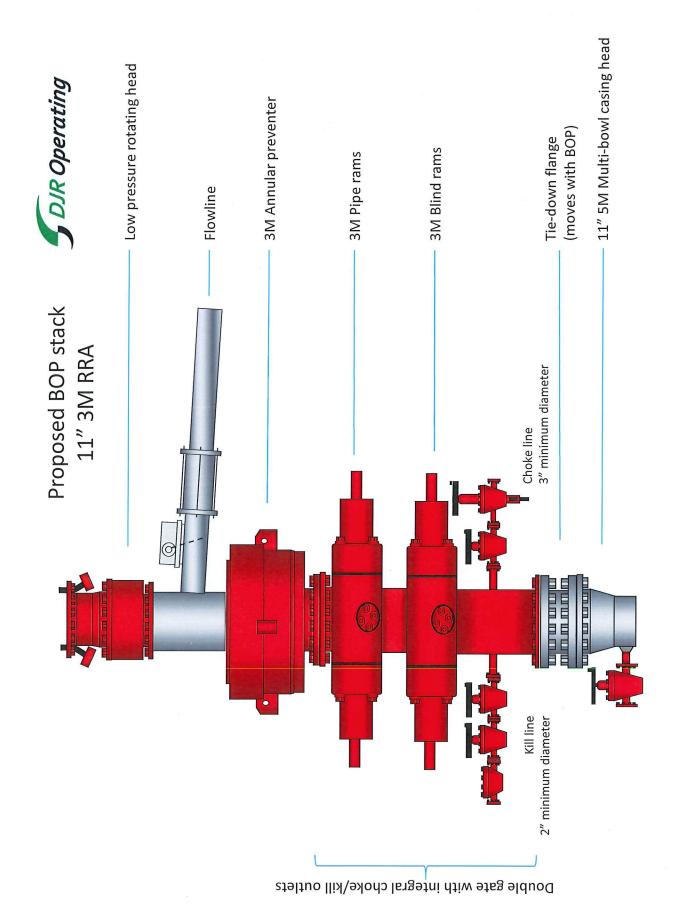
9\*\*S/8\*\*Casing

7\*\*Casing

2\*7/8\*\*Tubing

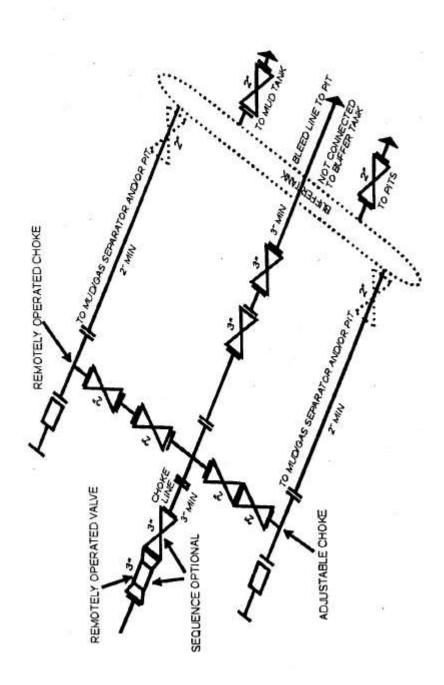
Frac configuration with 4-1/2" tieback





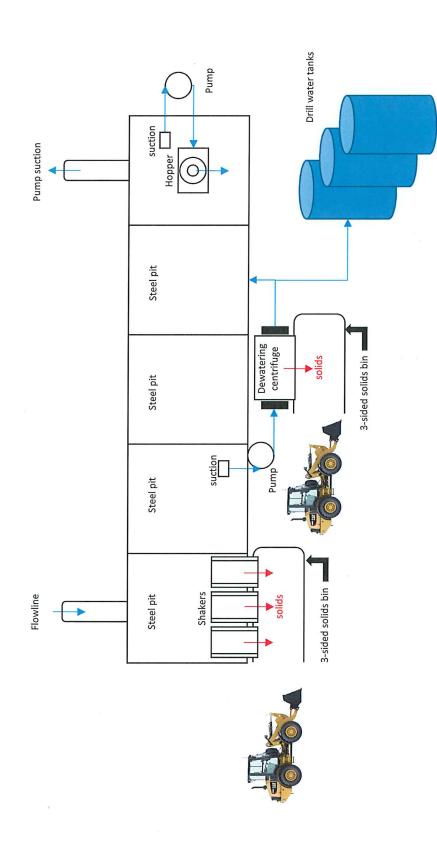


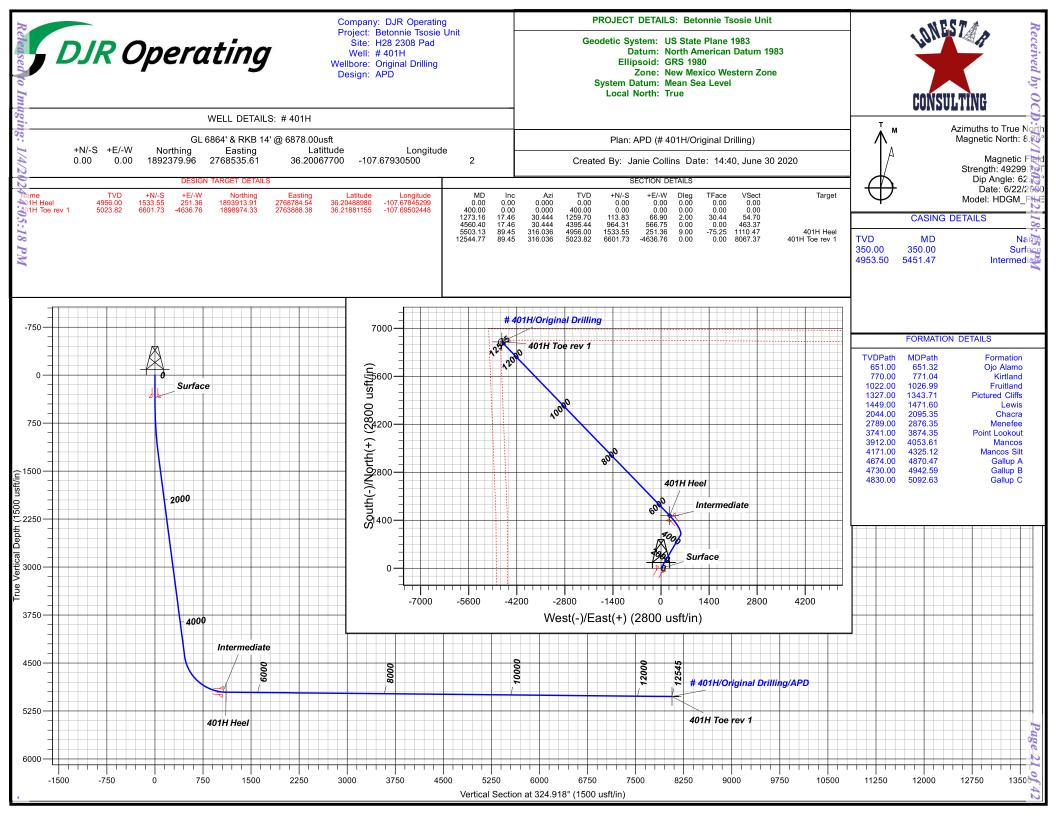
# Choke Manifold Actual system to conform with Onshore Order 2



# Closed Loop Mud System









# **DJR Operating**

Betonnie Tsosie Unit H28 2308 Pad # 401H - Slot 2

**Original Drilling** 

Plan: APD

### **Standard Planning Report**

30 June, 2020



Planning Report



Database: Company:

D.JR

**DJR** Operating

Project: Site:

Betonnie Tsosie Unit H28 2308 Pad

Well: Wellbore: # 401H **Original Drilling** 

APD Design:

Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Minimum Curvature

Project

Betonnie Tsosie Unit

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Western Zone

System Datum:

Mean Sea Level

H28 2308 Pad Site

Site Position:

Northing: Lat/Long Easting:

1,892,386.18 usft 2,768,554.49 usft

Latitude: Longitude:

36.20069400 -107.67924100

**Position Uncertainty:** 

0.00 usft

Slot Radius:

13.20 in

**Grid Convergence:** 

0.09

Well

**Well Position** 

From:

# 401H - Slot 2

+N/-S +E/-W

-6.19 usft -18.88 usft Northing: Easting:

1,892,379.97 usft 2,768,535.62 usft Latitude: Longitude:

36.20067700 -107.67930500

**Position Uncertainty** 

0.00 usft

Wellhead Elevation:

**Ground Level:** 

6,864.00 usft

Wellbore

Original Drilling

Dip Angle Magnetics **Model Name** Sample Date Declination Field Strength (°) (°) (nT) HDGM FILE 6/22/2020 8.70 62.73 49.299.70000000

APD Design

Audit Notes:

Version: Phase: **PLAN** 

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

+N/-S (usft) +E/-W (usft)

Remarks

Direction (°) 324.918

0.00 0.00 0.00

**Plan Survey Tool Program** 

6/30/2020 Date

12,544.77 APD (Original Drilling)

**Depth From** Depth To (usft) (usft)

0.00

Survey (Wellbore)

**Tool Name** 

MWD+HDGM OWSG MWD + HDGM

**Plan Sections** Vertical Dogleg Build Measured Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100ft) (°/100ft) (°/100ft) (°) (°) (usft) (usft) (°) Target 0.00 0.00 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 400.00 0.00 0.000 400.00 0.00 0.00 0.00 0.00 0.00 0.00 1,273.16 17.46 30.444 1,259.70 113.83 66.90 2.00 2.00 0.00 30.44 4.560.40 17.46 30.444 4.395.44 964.31 566.75 0.00 0.00 0.00 0.00 251.36 -7.89 -75.25 401H Heel 5,503.13 89 45 316 036 4,956.00 1 533 55 9.00 7 64 12,544.77 89.45 316.036 5,023.82 6,601.73 -4,636.76 0.00 0.00 0.00 0.00 401H Toe rev 1 DJR Operating



#### **Lonestar Consulting, LLC**

Planning Report



Database: Company: DJR

DJR Operating

Project: Betonnie Tsosie Unit Site: H28 2308 Pad

Well: # 401H
Wellbore: Original Drilling
Design: APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Design:	APD								
Diamod Sumov									
Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	2.00	30.444	499.98	1.50	0.00	0.72	2.00	2.00	0.00
600.00	4.00	30.444	599.84	1.50 6.02	0.88 3.54	2.89	2.00	2.00	0.00
700.00	6.00	30.444	699.45	13.53	7.95	6.50	2.00	2.00	0.00
800.00	8.00	30.444	798.70	24.04	14.13	11.55	2.00	2.00	0.00
900.00	10.00	30.444	897.47	37.52	22.05	18.03	2.00	2.00	0.00
1,000.00	12.00	30.444	995.62	53.97	31.72	25.93	2.00	2.00	0.00
1,100.00	14.00	30.444	1,093.06	73.36	43.12	35.25	2.00	2.00	0.00
1,200.00	16.00	30.444	1,189.64	95.68	56.23	45.98	2.00	2.00	0.00
1,273.16	17.46 17.46	30.444 30.444	1,259.70	113.83	66.90	54.70 58.04	2.00	2.00	0.00
1,300.00			1,285.31	120.78	70.98		0.00	0.00	0.00
1,400.00	17.46	30.444	1,380.70	146.65	86.19	70.47	0.00	0.00	0.00
1,500.00	17.46	30.444	1,476.09	172.52	101.40	82.90	0.00	0.00	0.00
1,600.00	17.46	30.444	1,571.48	198.39	116.60	95.33	0.00	0.00	0.00
1,700.00	17.46	30.444	1,666.87	224.27	131.81	107.77	0.00	0.00	0.00
1,800.00	17.46	30.444	1,762.26	250.14	147.01	120.20	0.00	0.00	0.00
1,900.00	17.46	30.444	1,857.65	276.01	162.22	132.63	0.00	0.00	0.00
2,000.00	17.46	30.444	1,953.04	301.88	177.42	145.06	0.00	0.00	0.00
2,100.00	17.46	30.444	2,048.43	327.75	192.63	157.49	0.00	0.00	0.00
2,200.00	17.46	30.444	2,143.83	353.62	207.84	169.93	0.00	0.00	0.00
2,300.00	17.46	30.444	2,239.22	379.50	223.04	182.36	0.00	0.00	0.00
2,400.00	17.46	30.444	2,334.61	405.37	238.25	194.79	0.00	0.00	0.00
2,500.00	17.46	30.444	2,430.00	431.24	253.45	207.22	0.00	0.00	0.00
2,600.00	17.46	30.444	2,525.39	457.11	268.66	219.65	0.00	0.00	0.00
2,700.00	17.46	30.444	2,620.78	482.98	283.86	232.09	0.00	0.00	0.00
2,800.00	17.46	30.444	2,716.17	508.86	299.07	244.52	0.00	0.00	0.00
2,900.00	17.46	30.444	2,811.56	534.73	314.27	256.95	0.00	0.00	0.00
3,000.00	17.46	30.444	2,906.95	560.60	329.48	269.38	0.00	0.00	0.00
3,100.00	17.46	30.444	3.002.34	586.47	344.69	281.82	0.00	0.00	0.00
3,200.00	17.46	30.444	3,097.73	612.34	359.89	294.25	0.00	0.00	0.00
3,300.00	17.46	30.444	3,193.13	638.22	375.10	306.68	0.00	0.00	0.00
3,400.00	17.46	30.444	3,288.52	664.09	390.30	319.11	0.00	0.00	0.00
3,500.00	17.46	30.444	3,383.91	689.96	405.51	331.54	0.00	0.00	0.00
3,600.00 3,700.00	17.46 17.46	30.444	3,479.30 3,574.69	715.83 741.70	420.71	343.98 356.41	0.00	0.00	0.00
3,700.00	17.46 17.46	30.444 30.444	3,574.69 3,670.08	741.70 767.57	435.92 451.13	356.41 368.84	0.00 0.00	0.00 0.00	0.00 0.00
3,900.00	17.46	30.444	3,765.47	793.45	466.33	381.27	0.00	0.00	0.00
4,000.00	17.46	30.444	3,860.86	819.32	481.54	393.70	0.00	0.00	0.00
4,100.00	17.46	30.444	3,956.25	845.19	496.74	406.14	0.00	0.00	0.00
4,200.00	17.46	30.444	4,051.64	871.06	511.95 527.15	418.57	0.00	0.00	0.00
4,300.00	17.46	30.444	4,147.04	896.93	527.15	431.00	0.00	0.00	0.00
4,400.00	17.46	30.444	4,242.43	922.81	542.36	443.43	0.00	0.00	0.00
4,500.00	17.46	30.444	4,337.82	948.68	557.56	455.86	0.00	0.00	0.00
4,560.40	17.46	30.444	4,395.44	964.31	566.75	463.37	0.00	0.00	0.00
4,600.00	18.68	19.631	4,433.09	975.40	571.89	469.50	9.00	3.07	-27.31
4,700.00	23.87	359.128	4,526.37	1,010.79	576.97	495.54	9.00	5.19	-20.50
4,800.00	30.79	346.466	4,615.23	1,056.00	570.66	536.16	9.00	6.92	-12.66
4,900.00	38.51	338.276	4,697.48	1,109.91	553.11	590.37	9.00	7.72	-8.19
5,000.00	46.63	332.518	4,771.09	1,171.20	524.76	656.82	9.00	8.12	-5.76
5,100.00	54.97	328.144	4,834.26	1,238.36	486.30	733.88	9.00	8.34	-4.37

DJR Operating



#### **Lonestar Consulting, LLC**

**Planning Report** 



Database: Company: DJR

DJR Operating

Original Drilling

Project: Betonnie Tsosie Unit Site: H28 2308 Pad

Wellbore: Design:

Well:

APD

# 401H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Design:	APD								
Planned Survey									
r iaimoa oarvoy									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100ft)	(°/100ft)	(°/100ft)
5,200.00	63.44	324.590	4,885.43	1,309.73	438.68	819.65	9.00	8.47	-3.55
5,300.00	71.98	321.530	4,923.33	1,383.56	383.07	912.03	9.00	8.54	-3.06
5,400.00	80.57	318.756	4,947.04	1,458.03	320.84	1,008.73	9.00	8.59	-2.77
5,500.00	89.18	316.118	4,955.96	1,531.30	253.53	1,107.38	9.00	8.61	-2.64
5,503.13	89.45	316.036	4,956.00	1,533.55	251.36	1,110.47	9.00	8.61	-2.61
5,600.00	89.45	316.036	4,956.93	1,603.27	184.11	1,206.18	0.00	0.00	0.00
5,700.00	89.45	316.036	4,957.90	1,675.25	114.70	1,304.98	0.00	0.00	0.00
5,800.00	89.45	316.036	4,958.86	1,747.22	45.28	1,403.77	0.00	0.00	0.00
5,900.00	89.45	316.036	4,959.82	1,819.20	-24.14	1,502.57	0.00	0.00	0.00
6,000.00	89.45	316.036	4,960.79	1,891.17	-93.56	1,601.37	0.00	0.00	0.00
6,100.00	89.45	316.036	4,961.75	1,963.15	-162.97	1,700.16	0.00	0.00	0.00
6,200.00	89.45	316.036	4,962.71	2,035.12	-232.39	1,798.96	0.00	0.00	0.00
6,300.00	89.45	316.036	4,963.67	2,107.09	-301.81	1,897.75	0.00	0.00	0.00
6,400.00	89.45	316.036	4,964.64	2,179.07	-371.22	1,996.55	0.00	0.00	0.00
6,500.00	89.45	316.036	4,965.60	2,251.04	-440.64	2,095.35	0.00	0.00	0.00
6,600.00	89.45	316.036	4,966.56	2,323.02	-510.06	2,194.14	0.00	0.00	0.00
6,700.00	89.45	316.036	4,967.53	2,394.99	-579.48	2,292.94	0.00	0.00	0.00
6,800.00	89.45	316.036	4,968.49	2,466.97	-648.89	2,391.74	0.00	0.00	0.00
6,900.00	89.45	316.036	4,969.45	2,538.94	-718.31	2,490.53	0.00	0.00	0.00
7,000.00	89.45	316.036	4,970.42	2,610.92	-787.73	2,589.33	0.00	0.00	0.00
7,100.00	89.45	316.036	4,971.38	2,682.89	-857.15	2,688.13	0.00	0.00	0.00
7,200.00	89.45	316.036	4,972.34	2,754.86	-926.56	2,786.92	0.00	0.00	0.00
7,300.00	89.45	316.036	4,973.31	2,826.84	-995.98	2,885.72	0.00	0.00	0.00
7,400.00	89.45	316.036	4,974.27	2,898.81	-1,065.40	2,984.52	0.00	0.00	0.00
7,500.00	89.45	316.036	4,975.23	2,970.79	-1,134.81	3,083.31	0.00	0.00	0.00
7,600.00	89.45	316.036	4,976.20	3,042.76	-1,204.23	3,182.11	0.00	0.00	0.00
7,700.00	89.45	316.036	4,977.16	3,114.74	-1,273.65	3,280.90	0.00	0.00	0.00
7,800.00	89.45	316.036	4,978.12	3,186.71	-1,343.07	3,379.70	0.00	0.00	0.00
7,900.00	89.45	316.036	4,979.08	3,258.69	-1,412.48	3,478.50	0.00	0.00	0.00
8,000.00	89.45	316.036	4,980.05	3,330.66	-1,481.90	3,577.29	0.00	0.00	0.00
8,100.00	89.45	316.036	4,981.01	3,402.63	-1,551.32	3,676.09	0.00	0.00	0.00
8,200.00	89.45	316.036	4,981.97	3,474.61	-1,620.74	3,774.89	0.00	0.00	0.00
8,300.00	89.45	316.036	4,982.94	3,546.58	-1,690.15	3,873.68	0.00	0.00	0.00
8,400.00	89.45	316.036	4,983.90	3,618.56	-1,759.57	3,972.48	0.00	0.00	0.00
8,500.00	89.45	316.036	4,984.86	3,690.53	-1,828.99	4,071.28	0.00	0.00	0.00
8,600.00	89.45	316.036	4,985.83	3,762.51	-1,898.40	4,170.07	0.00	0.00	0.00
8,700.00	89.45	316.036	4,986.79	3,834.48	-1,967.82	4,268.87	0.00	0.00	0.00
8,800.00	89.45	316.036	4,987.75	3,906.46	-2,037.24	4,367.67	0.00	0.00	0.00
8,900.00	89.45	316.036	4,988.72	3,978.43	-2,106.66	4,466.46	0.00	0.00	0.00
9,000.00	89.45	316.036	4,989.68	4,050.40	-2,176.07	4,565.26	0.00	0.00	0.00
9,100.00	89.45	316.036	4,990.64	4,122.38	-2,245.49	4,664.05	0.00	0.00	0.00
9,200.00	89.45	316.036	4,991.61	4,194.35	-2,314.91	4,762.85	0.00	0.00	0.00
9,300.00	89.45	316.036	4,992.57	4,266.33	-2,384.32	4,861.65	0.00	0.00	0.00
9,400.00	89.45	316.036	4,993.53	4,338.30	-2,453.74	4,960.44	0.00	0.00	0.00
9,500.00	89.45	316.036	4,994.49	4,410.28	-2,523.16	5,059.24	0.00	0.00	0.00
9,600.00	89.45	316.036	4,995.46	4,482.25	-2,592.58	5,158.04	0.00	0.00	0.00
9,700.00	89.45	316.036	4,996.42	4,554.23	-2,661.99	5,256.83	0.00	0.00	0.00
9,800.00	89.45	316.036	4,997.38	4,626.20	-2,731.41	5,355.63	0.00	0.00	0.00
9,900.00	89.45	316.036	4,998.35	4,698.17	-2,800.83	5,454.43	0.00	0.00	0.00
10,000.00	89.45	316.036	4,999.31	4,770.15	-2,870.25	5,553.22	0.00	0.00	0.00
10,100.00	89.45	316.036	5,000.27	4,842.12	-2,939.66	5,652.02	0.00	0.00	0.00
10,200.00	89.45	316.036	5,001.24	4,914.10	-3,009.08	5,750.82	0.00	0.00	0.00
10,300.00	89.45	316.036	5,002.20	4,986.07	-3,078.50	5,849.61	0.00	0.00	0.00
10,400.00	89.45	316.036	5,003.16	5,058.05	-3,147.91	5,948.41	0.00	0.00	0.00



**Planning Report** 



Database: Company:

Project:

Wellbore: Design: DJR

DJR Operating

Site: Well: Betonnie Tsosie Unit H28 2308 Pad # 401H

Original Drilling
APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	89.45	316.036	5,004.13	5,130.02	-3,217.33	6,047.20	0.00	0.00	0.00
10,600.00	89.45	316.036	5,005.09	5,201.99	-3,286.75	6,146.00	0.00	0.00	0.00
10,700.00	89.45	316.036	5,006.05	5,273.97	-3,356.17	6,244.80	0.00	0.00	0.00
10,800.00	89.45	316.036	5,007.02	5,345.94	-3,425.58	6,343.59	0.00	0.00	0.00
10,900.00	89.45	316.036	5,007.98	5,417.92	-3,495.00	6,442.39	0.00	0.00	0.00
11,000.00	89.45	316.036	5,008.94	5,489.89	-3,564.42	6,541.19	0.00	0.00	0.00
11,100.00	89.45	316.036	5,009.90	5,561.87	-3,633.84	6,639.98	0.00	0.00	0.00
11,200.00	89.45	316.036	5,010.87	5,633.84	-3,703.25	6,738.78	0.00	0.00	0.00
11,300.00	89.45	316.036	5,011.83	5,705.82	-3,772.67	6,837.58	0.00	0.00	0.00
11,400.00	89.45	316.036	5,012.79	5,777.79	-3,842.09	6,936.37	0.00	0.00	0.00
11,500.00	89.45	316.036	5,013.76	5,849.76	-3,911.50	7,035.17	0.00	0.00	0.00
11,600.00	89.45	316.036	5,014.72	5,921.74	-3,980.92	7,133.97	0.00	0.00	0.00
11,700.00	89.45	316.036	5,015.68	5,993.71	-4,050.34	7,232.76	0.00	0.00	0.00
11,800.00	89.45	316.036	5,016.65	6,065.69	-4,119.76	7,331.56	0.00	0.00	0.00
11,900.00	89.45	316.036	5,017.61	6,137.66	-4,189.17	7,430.35	0.00	0.00	0.00
12,000.00	89.45	316.036	5,018.57	6,209.64	-4,258.59	7,529.15	0.00	0.00	0.00
12,100.00	89.45	316.036	5,019.54	6,281.61	-4,328.01	7,627.95	0.00	0.00	0.00
12,200.00 12,300.00 12,400.00 12,500.00 12,544.77	89.45 89.45 89.45 89.45	316.036 316.036 316.036 316.036 316.036	5,020.50 5,021.46 5,022.43 5,023.39 5,023.82	6,353.59 6,425.56 6,497.53 6,569.51 6,601.73	-4,397.43 -4,466.84 -4,536.26 -4,605.68 -4,636.76	7,726.74 7,825.54 7,924.34 8,023.13 8,067.37	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
401H Heel - plan hits target cent - Circle (radius 50.00		0.000	4,956.00	1,533.55	251.36	1,893,913.91	2,768,784.54	36.20488980	-107.67845300
401H Toe rev 1 - plan hits target cent - Circle (radius 100.0		0.000	5,023.82	6,601.73	-4,636.76	1,898,974.33	2,763,888.38	36.21881155	-107.69502449

Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	350.00	350.00	Surface		9.62	12.25	
	5,451.47	4,953.50	Intermediate		7.00	8.75	



Planning Report



Database: DJR

Company: DJR Operating
Project: Betonnie Tsosie Unit

 Site:
 H28 2308 Pad

 Well:
 # 401H

 Wellbore:
 Original Drilling

 Design:
 APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
651.32	651.00	Ojo Alamo		0.00	0.000
771.04	770.00	Kirtland		0.00	0.000
1,026.99	1,022.00	Fruitland		0.00	0.000
1,343.71	1,327.00	Pictured Cliffs		0.00	0.000
1,471.60	1,449.00	Lewis		0.00	0.000
2,095.35	2,044.00	Chacra		0.00	0.000
2,876.35	2,789.00	Menefee		0.00	0.000
3,874.35	3,741.00	Point Lookout		0.00	0.000
4,053.61	3,912.00	Mancos		0.00	0.000
4,325.12	4,171.00	Mancos Silt		0.00	0.000
4,870.47	4,674.00	Gallup A		0.00	0.000
4,942.59	4,730.00	Gallup B		0.00	0.000
5,092.63	4,830.00	Gallup C		0.00	0.000



## **DJR Operating**

Betonnie Tsosie Unit H28 2308 Pad # 401H

Original Drilling APD

# **Anticollision Report**

30 June, 2020



# **SDJR Operating**

#### Lonestar Consulting, LLC

#### Anticollision Report

TVD Reference:

MD Reference:



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft
Reference Well: # 401H

Reference Well: # 401H
Well Error: 0.00 usft
Reference Wellbore
Reference Design: APD

Local Co-ordinate Reference:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

North Reference: True

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: DJR

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:UnlimitedScan Method:Closest Approach 3DResults Limited by:Maximum ellipse separation of 1,000.00 usftError Surface:Pedal CurveWarning Levels Evaluated at:2.00 SigmaCasing Method:Not applied

Survey Tool Program Date 6/30/2020

From To

(usft) (usft) Survey (Wellbore) Tool Name Description

0.00 12,544.77 APD (Original Drilling) MWD+HDGM OWSG MWD + HDGM

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth	Offset Measured Depth	Dista Between Centres	Between Ellipses	Separation Factor	Warning
H28 2308 Pad	(usft)	(usft)	(usft)	(usft)		
# 402H - Original Drilling - APD	400.00	400.00	19.99	17.53	8.128	CC, ES
# 402H - Original Drilling - APD	11,100.00	11,037.87	1,248.97	928.01	3.891	SF
# 732H - Original Drilling - APD	605.02	605.01	13.41	9.52	3.448	CC, ES, SF

Offset De	sign	H28 230	08 Pad - i	# 402H - Or	iginal Drill	ling - APD							Offset Site Error:	0.00 usft
Survey Prog		WD+HDGM											Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista					
Measured	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Depth (usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	ractor		
0.00	0.00	0.00	0.00	0.00	0.00	-109.14	-6.55	-18.88	19.99					
100.00	100.00	100.00	100.00	0.15	0.15	-109.14	-6.55	-18.88	19.99	19.68	0.31	64.832		
200.00	200.00	200.00	200.00	0.51	0.51	-109.14	-6.55	-18.88	19.99	18.96	1.03	19.495		
300.00	300.00	300.00	300.00	0.87	0.87	-109.14	-6.55	-18.88	19.99	18.24	1.74	11.472		
400.00	400.00	400.00	400.00	1.23	1.23	-109.14	-6.55	-18.88	19.99	17.53	2.46	8.128 0	CC, ES	
500.00	499.98	499.66	499.66	1.59	1.58	-140.43	-5.99	-19.68	21.89	18.71	3.17	6.900		
000.00	500.04	500.00	500.05	4.05	4.04	444.45	2.00	00.50	07.00	04.00	2.00	7.198		
600.00	599.84	599.32	599.25	1.95	1.94	-141.15	-3.92	-22.59	27.96	24.08	3.88			
700.00 800.00	699.45 798.70	698.89 798.11	698.75 797.89	2.31 2.68	2.29 2.65	-144.66 -148.97	-1.74 0.43	-25.67 -28.73	36.93 48.94	32.33 43.62	4.60 5.32	8.027 9.196		
900.00	897.47	896.85	896.57	3.06	3.00	-146.97	2.60	-20.73 -31.79	64.18	58.14	6.04	10.619		
1,000.00	995.62	995.00	994.64	3.46	3.36	-156.42	4.75	-31.79	82.77	76.00	6.04	12.229		
1,000.00	995.62	995.00	994.04	3.40	3.30	-130.42	4.75	-34.02	02.11	76.00	0.77	12.229		
1,100.00	1,093.06	1,092.44	1,092.01	3.88	3.71	-159.23	6.88	-37.83	104.75	97.26	7.49	13.979		
1,200.00	1,189.64	1,189.04	1,188.54	4.33	4.05	-161.50	9.00	-40.81	130.12	121.90	8.22	15.831		
1,273.16	1,259.70	1,259.12	1,258.57	4.67	4.31	-162.89	10.53	-42.98	150.82	142.07	8.75	17.233		
1,300.00	1,285.31	1,284.73	1,284.16	4.80	4.40	-163.39	11.09	-43.77	158.75	149.80	8.95	17.741		
1,400.00	1,380.70	1,380.15	1,379.51	5.29	4.74	-164.87	13.18	-46.72	188.36	178.69	9.67	19.488		
1,500.00	1,476.09	1,475.57	1,474.86	5.80	5.09	-165.95	15.27	-49.67	218.06	207.67	10.39	20.993		
1,600.00	1,571.48	1,570.99	1,570.22	6.31	5.43	-166.77	17.36	-52.61	247.80	236.69	11.11	22.301		
1,700.00	1,666.87	1,666.41	1,665.57	6.82	5.78	-167.41	19.45	-55.56	277.59	265.75	11.84	23.446		
1,800.00	1,762.26	1,761.83	1,760.92	7.34	6.12	-167.93	21.55	-58.51	307.40	294.83	12.57	24.456		
1,900.00	1,857.65	1,857.24	1,856.27	7.87	6.47	-168.36	23.64	-61.46	337.23	323.93	13.30	25.354		
2 000 00	1.953.04	1,952.66	1.051.60	8.40	6.81	-168.71	25.73	-64.41	367.08	353.04	14.03	26.156		
2,000.00	,		1,951.62											
2,100.00 2,200.00	2,048.43 2,143.83	2,048.08 2,143.50	2,046.97 2,142.32	8.93 9.46	7.16 7.50	-169.02 -169.28	27.82 29.91	-67.36 -70.30	396.93 426.80	382.16 411.29	14.77 15.50	26.876 27.527		
2,200.00	2,143.83	∠, 143.50	2,142.32	9.46	7.50	-109.28	29.91	-70.30	426.80	411.29	15.50	21.521		



#### Anticollision Report



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft

Reference Well: # 401H
Well Error: 0.00 usft
Reference Wellbore
Reference Design: APD

Local Co-ordinate Reference: Well # 401H - Slot 2

 TVD Reference:
 GL 6864' & RKB 14' @ 6878.00usft

 MD Reference:
 GL 6864' & RKB 14' @ 6878.00usft

North Reference: Tru

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Output errors are at 2.00 s
Database: DJR

Offset TVD Reference: Offset Datum

urvey Prog	ram: U-M	WD+HDGM											Offset Well Error:	0.00 ι
Refer		Offse	et	Semi Major	Axis				Dista					
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	ractor		
2,300.00	2,239.22	2,238.92	2,237.67	10.00	7.85	-169.51	32.00	-73.25	456.67	440.43	16.24	28.117		
2,400.00	2,334.61	2,334.34	2,333.02	10.53	8.19	-169.71	34.09	-76.20	486.55	469.57	16.98	28.655		
2,500.00	2,430.00	2,429.76	2,428.38	11.07	8.54	-169.88	36.18	-79.15	516.43	498.71	17.72	29.147		
2,600.00	2,525.39	2,525.18	2,523.73	11.61	8.88	-170.04	38.27	-82.10	546.32	527.86	18.46	29.599		
2,700.00	2,620.78	2,620.60	2,619.08	12.15	9.23	-170.18	40.36	-85.05	576.21	557.01	19.20	30.015		
2,800.00	2,716.17	2,716.02	2,714.43	12.69	9.57	-170.31	42.45	-87.99	606.10	586.16	19.94	30.400		
2,900.00	2,811.56	2,811.44	2,809.78	13.23	9.92	-170.42	44.54	-90.94	635.99	615.32	20.68	30.756		
3,000.00	2,906.95	2,906.86	2,905.13	13.78	10.26	-170.53	46.63	-93.89	665.89	644.47	21.42	31.087		
3,100.00	3,002.34	3,002.28	3,000.48	14.32	10.61	-170.62	48.72	-96.84	695.79	673.63	22.16	31.396		
3,200.00	3,097.73	3,097.70	3,095.83	14.86	10.95	-170.71	50.81	-99.79	725.69	702.79	22.90	31.684		
3,300.00	3,193.13	3,193.12	3,191.18	15.41	11.30	-170.79	52.90	-102.73	755.59	731.95	23.65	31.953		
3,400.00	3,288.52	3,288.54	3,286.53	15.95	11.64	-170.87	54.99	-105.68	785.50	761.11	24.39	32.206		
3,500.00	3,383.91	3,383.96	3,381.89	16.49	11.99	-170.94	57.08	-108.63	815.40	790.27	25.13	32.444		
3,600.00	3,479.30	3,479.38	3,477.24	17.04	12.33	-171.00	59.17	-111.58	845.31	819.43	25.88	32.667		
3,700.00	3,574.69	3,574.80	3,572.59	17.58	12.68	-171.06	61.26	-114.53	875.21	848.59	26.62	32.878		
3,800.00	3,670.08	3,670.21	3,667.94	18.13	13.02	-171.12	63.35	-117.48	905.12	877.76	27.36	33.077		
3,900.00	3,765.47	3,765.63	3,763.29	18.68	13.37	-171.17	65.44	-120.42	935.03	906.92	28.11	33.266		
4,000.00	3,860.86	3,861.05	3,858.64	19.22	13.71	-171.22	67.53	-123.37	964.94	936.08	28.85	33.444		
4,100.00	3,956.25	3,956.47	3,953.99	19.77	14.06	-171.26	69.62	-126.32	994.84	965.25	29.60	33.613		
4,200.00	4,051.64	4,051.89	4,049.34	20.31	14.40	-171.31	71.71	-129.27	1,024.75	994.41	30.34	33.774		
4,300.00	4,147.04	4,147.31	4,144.69	20.86	14.75	-171.35	73.80	-132.22	1,054.66	1,023.58	31.09	33.926		
4 400 00	4 242 42	4,242.73	4,240.04	21.41	15.09	171 20	75.90	-135.17	1 004 50	1,052.74	21 02	24.072		
4,400.00	4,242.43	4,242.73	4,240.04	21.41 21.95	15.09	-171.39		-135.17	1,084.58		31.83 32.61	34.072		
4,500.00 4,560.40	4,337.82 4,395.44	4,342.64	4,414.80	22.29	15.46	-171.41 -171.09	78.28 84.79	-136.44	1,114.46	1,081.85 1,098.64	33.20	34.175 34.091		
4,600.00	4,433.09	4,416.22	4,462.56	22.29	15.74	-171.09	92.44	-145.36	1,131.84 1,142.87	1,109.28	33.59	34.091		
4,650.00	4,480.14	4,528.46	4,520.86	22.78	16.17	-146.85	105.70	-166.33	1,156.58	1,122.49	34.09	33.924		
4,030.00	4,400.14	4,320.40	4,520.00	22.70	10.17	-140.03	103.70	-100.55	1,130.30	1,122.40	34.03	33.324		
4,700.00	4,526.37	4,588.99	4,576.44	23.06	16.43	-136.73	122.75	-183.09	1,169.97	1,135.36	34.61	33.808		
4,750.00	4,571.49	4,648.76	4,628.85	23.33	16.69	-128.60	143.27	-203.12	1,182.96	1,147.82	35.14	33.668		
4,800.00	4,615.23	4,707.73	4,677.71	23.60	16.98	-122.01	166.94	-226.11	1,195.48	1,159.79	35.69	33.494		
4,850.00	4,657.31	4,765.90	4,722.70	23.87	17.30	-116.57	193.41	-251.71	1,207.47	1,171.18	36.28	33.279		
4,900.00	4,697.48	4,823.22	4,763.58	24.13	17.66	-112.00	222.31	-279.60	1,218.85	1,181.94	36.92	33.014		
4,950.00	4,735.48	4,879.70	4,800.15	24.39	18.06	-108.10	253.30	-309.42	1,229.58	1,191.97	37.61	32.691		
5,000.00	4,771.09	4,935.31	4,832.31	24.64	18.51	-104.74	286.01	-340.83	1,239.58	1,201.21	38.37	32.305		
5,050.00	4,804.09	4,990.04	4,859.97	24.90	19.02	-101.82	320.09	-373.49	1,248.80	1,209.59	39.21	31.853		
5,100.00	4,834.26	5,043.88	4,883.13	25.16	19.60	-99.27	355.19	-407.09	1,257.18	1,217.06	40.12	31.335		
5,150.00	4,861.43	5,096.84	4,901.83	25.42	20.23	-97.04	391.00	-441.31	1,264.70	1,223.57	41.12	30.755		
5,200.00	4,885.43	5,148.90	4,916.14	25.69	20.91	-95.10	427.20	-475.86	1,271.29	1,229.08	42.21	30.121		
5,250.00	4,906.10	5,146.90	4,916.14	25.09	21.64	-93.10 -93.41	463.51	-475.66 -510.47	1,271.29	1,233.56	43.37	29.442		
5,250.00			4,932.08	25.98	22.40			-510.47 -544.90		1,233.56	43.37	29.442		
5,350.00	4,923.33 4,937.00	5,250.36 5,299.72	4,932.08	26.29	23.19	-91.97 -90.74	499.67 535.40	-544.90 -578.88	1,281.58 1,285.22	1,236.97	45.91	28.729		
5,400.00	4,937.00	5,299.72	4,934.04	26.99	24.02	-90.74 -89.82	570.91	-612.62	1,287.82	1,239.51	47.31	27.223		
5,400.00	7,047.04	0,040.71	4,004.47	20.00	24.02	-00.02	570.51	-012.02	1,201.02	1,240.02	47.51	21.220		
5,450.00	4,953.37	5,398.32	4,934.90	27.39	24.88	-89.27	606.87	-646.81	1,289.31	1,240.52	48.79	26.427		
5,503.13	4,956.00	5,451.39	4,935.36	27.87	25.85	-89.08	645.34	-683.37	1,289.60	1,239.10	50.49	25.540		
5,600.00	4,956.93	5,548.26	4,936.21	28.89	27.69	-89.07	715.55	-750.10	1,288.89	1,235.08	53.81	23.951		
5,700.00	4,957.90	5,648.26	4,937.08	30.17	29.68	-89.07	788.02	-818.99	1,288.17	1,230.68	57.49	22.407		
5,800.00	4,958.86	5,748.26	4,937.95	31.64	31.76	-89.07	860.50	-887.88	1,287.44	1,226.07	61.37	20.978		
5,900.00	4,959.82	5,848.25	4,938.82	33.29	33.90	-89.06	932.98	-956.77	1,286.71	1,221.29	65.42	19.668		
6,000.00	4,960.79	5,948.25	4,939.69	35.07	36.10	-89.06	1,005.45	-1,025.66	1,285.99	1,216.37	69.62	18.472		
6,100.00	4,961.75	6,048.25	4,940.56	36.97	38.34	-89.05	1,077.93	-1,094.55	1,285.26	1,211.33	73.93	17.386		
6,200.00	4,962.71	6,148.24	4,941.43	38.96	40.62	-89.05	1,150.41	-1,163.44	1,284.53	1,206.20	78.34	16.398		
6,300.00	4,963.67	6,248.24	4,942.30	41.03	42.92	-89.04	1,222.88	-1,232.33	1,283.81	1,200.98	82.83	15.500		



#### Anticollision Report



DJR Operating Company: Project: Betonnie Tsosie Unit H28 2308 Pad Reference Site: Site Error: 0.00 usft

Reference Well: # 401H Well Error: 0.00 usft Reference Wellbore **Original Drilling** Reference Design: APD

Local Co-ordinate Reference:

Well # 401H - Slot 2 TVD Reference: GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft MD Reference: North Reference:

**Survey Calculation Method:** Minimum Curvature Output errors are at 2.00 sigma

Database: DJR Offset TVD Reference: Offset Datum

Offset De	_		08 Pad - i	# 402H - Ori	ginal Dril	ling - APD							Offset Site Error:	0.00 us
urvey Prog Refer		WD+HDGM Offse	et	Semi Major	Axis				Dista	ince			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,500.00	4,965.60	6,448.24	4,944.04	45.33	47.62	-89.03	1,367.84	-1,370.11	1,282.35	1,190.35	92.00	13.938		
6,600.00	4,966.56	6,548.23	4,944.91	47.55	49.99	-89.03	1,440.31	-1,439.00	1,281.62	1,184.95	96.67	13.257		
6,700.00	4,967.53	6,648.23	4,945.78	49.81	52.39	-89.02	1,512.79	-1,507.89	1,280.90	1,179.51	101.39	12.634		
6,800.00	4,968.49	6,748.23	4,946.66	52.10	54.80	-89.02	1,585.27	-1,576.78	1,280.17	1,174.03	106.14	12.061		
6,900.00	4,969.45	6,848.23	4,947.53	54.42	57.22	-89.01	1,657.75	-1,645.67	1,279.44	1,168.52	110.92	11.535		
7,000.00	4,970.42	6,948.22	4,948.40	56.76	59.65	-89.01	1,730.22	-1,714.56	1,278.72	1,162.98	115.73	11.049		
7,100.00	4,971.38	7,048.22	4,949.27	59.12	62.09	-89.00	1,802.70	-1,783.45	1,277.99	1,157.42	120.57	10.599		
7,200.00	4,972.34	7,148.22	4,950.14	61.49	64.54	-89.00	1,875.18	-1,852.34	1,277.26	1,151.83	125.43	10.183		
7,300.00	4,973.31	7,248.22	4,951.01	63.89	67.00	-89.00	1,947.65	-1,921.23	1,276.54	1,146.23	130.31	9.796		
7,400.00	4,974.27	7,348.21	4,951.88	66.29	69.47	-88.99	2,020.13	-1,990.12	1,275.81	1,140.60	135.21	9.436		
7,500.00	4,975.23	7,448.21	4,952.75	68.71	71.94	-88.99	2,092.61	-2,059.01	1,275.08	1,134.96	140.12	9.100		
7,600.00	4,976.20	7,548.21	4,953.62	71.14	74.42	-88.98	2,165.08	-2,127.90	1,274.36	1,129.31	145.05	8.786		
7,700.00	4,977.16	7,648.20	4,954.49	73.58	76.90	-88.98	2,237.56	-2,196.79	1,273.63	1,123.64	149.99	8.491		
7,800.00	4,978.12	7,748.20	4,955.36	76.02	79.39	-88.97	2,310.04	-2,265.68	1,272.90	1,117.96	154.94	8.215		
7,900.00	4,979.08	7,848.20	4,956.23	78.48	81.88	-88.97	2,382.51	-2,334.57	1,272.18	1,112.27	159.90	7.956		
8,000.00	4,980.05	7,948.20	4,957.10	80.94	84.37	-88.96	2,454.99	-2,403.46	1,271.45	1,106.57	164.88	7.712		
8,100.00	4,981.01	8,048.19	4,957.97	83.41	86.87	-88.96	2,527.47	-2,472.35	1,270.72	1,100.87	169.86	7.481		
8,200.00	4,981.97	8,148.19	4,958.84	85.88	89.37	-88.95	2,599.95	-2,541.24	1,270.00	1,095.15	174.85	7.264		
8,300.00	4,982.94	8,248.19	4,959.71	88.36	91.88	-88.95	2,672.42	-2,610.12	1,269.27	1,089.43	179.84	7.058		
8,400.00	4,983.90	8,348.19	4,960.58	90.85	94.38	-88.94	2,744.90	-2,679.01	1,268.54	1,083.70	184.84	6.863		
8,500.00	4,984.86	8,448.18	4,961.45	93.34	96.89	-88.94	2,817.38	-2,747.90	1,267.82	1,077.96	189.85	6.678		
8,600.00	4,985.83	8,548.18	4,962.33	95.83	99.41	-88.93	2,889.85	-2,816.79	1,267.09	1,072.22	194.87	6.502		
8,700.00	4,986.79	8,648.18	4,963.20	98.33	101.92	-88.93	2,962.33	-2,885.68	1,266.36	1,066.48	199.89	6.335		
8,800.00	4,987.75	8,748.17	4,964.07	100.83	104.44	-88.92	3,034.81	-2,954.57	1,265.64	1,060.73	204.91	6.177		
8,900.00	4,988.72	8,848.17	4,964.94	103.33	106.95	-88.92	3,107.28	-3,023.46	1,264.91	1,054.97	209.94	6.025		
9,000.00	4,989.68	8,948.17	4,965.81	105.84	109.47	-88.91	3,179.76	-3,092.35	1,264.18	1,049.21	214.97	5.881		
9,100.00	4,990.64	9,048.17	4,966.68	108.34	112.00	-88.91	3,252.24	-3,161.24	1,263.46	1,043.45	220.01	5.743		
9,200.00	4,991.61	9,148.16	4,967.55	110.86	114.52	-88.90	3,324.71	-3,230.13	1,262.73	1,037.68	225.05	5.611		
9,300.00	4,992.57	9,248.16	4,968.42	113.37	117.04	-88.90	3,397.19	-3,299.02	1,262.00	1,031.91	230.09	5.485		
9,400.00	4,993.53	9,348.16	4,969.29	115.89	119.57	-88.89	3,469.67	-3,367.91	1,261.28	1,026.14	235.14	5.364		
9,500.00	4,994.49	9,448.16	4,970.16	118.41	122.09	-88.89	3,542.14	-3,436.80	1,260.55	1,020.36	240.19	5.248		
9,600.00	4,995.46	9,548.15	4,971.03	120.93	124.62	-88.88	3,614.62	-3,505.69	1,259.82	1,014.58	245.24	5.137		
9,700.00	4,996.42	9,648.15	4,971.90	123.45	127.15	-88.88	3,687.10	-3,574.58	1,259.10	1,008.80	250.30	5.030		
9,800.00	4,997.38	9,748.15	4,972.77	125.97	129.68	-88.88	3,759.58	-3,643.47	1,258.37	1,003.01	255.36	4.928		
9,900.00	4,998.35	9,848.15	4,973.64	128.50	132.21	-88.87	3,832.05	-3,712.36	1,257.64	997.23	260.42	4.829		
10,000.00	4,999.31	9,948.14	4,974.51	131.03	134.74	-88.87	3,904.53	-3,781.25	1,256.92	991.44	265.48	4.735		
10,100.00	5,000.27	10,048.14	4,975.38	133.55	137.28	-88.86	3,977.01	-3,850.14	1,256.19	985.65	270.54	4.643		
10,200.00	5,001.24	10,148.14	4,976.25	136.08	139.81	-88.86	4,049.48	-3,919.03	1,255.46	979.85	275.61	4.555		
10,300.00	5,002.20	10,248.13	4,977.12	138.62	142.34	-88.85	4,121.96	-3,987.92	1,254.74	974.06	280.68	4.470		
10,400.00 10,500.00	5,003.16 5,004.13	10,348.13 10,448.13	4,978.00 4,978.87	141.15 143.68	144.88 147.41	-88.85 -88.84	4,194.44 4,266.91	-4,056.81 -4,125.70	1,254.01 1,253.29	968.26 962.47	285.75 290.82	4.389 4.309		
10,600.00	5,005.09	10,548.13	4,979.74	146.22	149.95	-88.84	4,339.39	-4,194.59	1,252.56	956.67	295.89	4.233		
10,700.00	5,005.09	10,648.12	4,980.61	148.75	152.49	-88.83	4,411.87	-4,194.39	1,251.83	950.86	300.97	4.255		
10,700.00	5,000.03	10,748.12	4,981.48	151.29	155.02	-88.83	4,484.34	-4,203.46	1,251.63	945.06	306.04	4.139		
10,800.00	5,007.02	10,748.12	4,982.35	153.83	157.56	-88.82	4,556.82	-4,401.26	1,250.38	939.26	311.12	4.000		
11,000.00	5,008.94	10,948.12	4,983.22	156.36	160.10	-88.82	4,629.30	-4,470.15	1,249.65	933.45	316.20	3.952		
11,098.83	5,009.89	11,037.87	4,984.00	158.87	162.38	-88.81	4,694.35	-4,531.98	1,248.97	928.03	320.94	3.892		
11,100.00	5,009.89	11,037.87	4,984.00	158.90	162.38	-88.81	4,694.35	-4,531.98 -4,531.98	1,248.97	928.01	320.94	3.891 S	F	
11,200.00	5,010.87	11,037.87	4,984.00	161.44	162.38	-88.81	4,694.35	-4,531.98	1,253.06	931.26	321.80	3.894		
11,300.00	5,011.83	11,037.87	4,984.00	163.99	162.38	-88.81	4,694.35	-4,531.98	1,265.06	944.41	320.66	3.945		
11,400.00	5,012.79	11,037.87	4,984.00	166.53	162.38	-88.81	4,694.35	-4,531.98	1,284.77	967.10	317.66	4.044		
11,500.00	5,013.76	11,037.87	4,984.00	169.07	162.38	-88.81	4,694.35	-4,531.98	1,311.81	998.78	313.03	4.191		



#### Anticollision Report



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft

Reference Well: # 401H
Well Error: 0.00 usft
Reference Wellbore
Reference Design: APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method: Minimum Curvature

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft

GL 6864' & RKB 14' @ 6878.00usft

Output errors are at 2.00 sigma
Database: DJR

Offset TVD Reference: Offset Datum

Offset Des	•	H28 230	08 Pad - #	# 402H - Ori	ginal Drill	ing - APD							Offset Site Error:	0.00 ust
Refere		Offse	et	Semi Major	Axis				Dista	nce			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,600.00	5,014.72	11,037.87	4,984.00	171.61	162.38	-88.81	4,694.35	-4,531.98	1,345.77	1,038.72	307.05	4.383		
11,700.00	5,015.68	11,037.87	4,984.00	174.16	162.38	-88.81	4,694.35	-4,531.98	1,386.12	1,086.12	300.00	4.620		
11,800.00	5,016.65	11,037.87	4,984.00	176.70	162.38	-88.81	4,694.35	-4,531.98	1,432.33	1,140.14	292.19	4.902		
11,900.00	5,017.61	11,037.87	4,984.00	179.25	162.38	-88.81	4,694.35	-4,531.98	1,483.84	1,199.97	283.87	5.227		
12,000.00	5,018.57	11,037.87	4,984.00	181.79	162.38	-88.81	4,694.35	-4,531.98	1,540.14	1,264.84	275.29	5.595		
12,100.00	5,019.54	11,037.87	4,984.00	184.34	162.38	-88.81	4,694.35	-4,531.98	1,600.71	1,334.07	266.63	6.003		
12,200.00	5,020.50	11,037.87	4,984.00	186.88	162.38	-88.81	4,694.35	-4,531.98	1,665.08	1,407.04	258.04	6.453		
12,300.00	5,021.46	11,037.87	4,984.00	189.43	162.38	-88.81	4,694.35	-4,531.98	1,732.84	1,483.21	249.63	6.942		
12,400.00	5,022.43	11,037.87	4,984.00	191.98	162.38	-88.81	4,694.35	-4,531.98	1,803.60	1,562.13	241.47	7.469		
12,500.00	5,023.39	11,037.87	4,984.00	194.53	162.38	-88.81	4,694.35	-4,531.98	1,877.02	1,643.40	233.62	8.035		
12,544.77	5,023.82	11,037.87	4,984.00	195.67	162.38	-88.81	4,694.35	-4,531.98	1,910.67	1,680.46	230.21	8.300		



#### Anticollision Report



Company: DJR Operating Project: Betonnie Tsosie Unit H28 2308 Pad Reference Site: 0.00 usft Site Error:

Reference Well: # 401H Well Error: 0.00 usft Reference Wellbore Original Drilling

Reference Design: APD Local Co-ordinate Reference:

Well # 401H - Slot 2 TVD Reference: GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft MD Reference:

North Reference:

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma Database: DJR

Offset TVD Reference: Offset Datum

Offset Des	_		08 Pad - #	# 732H - Ori	iginal Drill	ling - APD							Offset Site Error:	0.00 usft
Survey Progr		WD+HDGM Offse		Comi Major	Avia				Diete				Offset Well Error:	0.00 usft
Refere Measured	ence Vertical	Measured	et Vertical	Semi Major Reference	Offset	Highside	Offset Wellbor	e Centre	Dista Between	Between	Minimum	Separation	\A/a	
Depth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	71.85	6.19	18.88	19.87					
100.00	100.00	100.00	100.00	0.15	0.15	71.85	6.19	18.88	19.87	19.56	0.31	64.455		
200.00	200.00	200.00	200.00	0.51	0.51	71.85	6.19	18.88	19.87	18.85	1.03	19.382		
300.00	300.00	300.00	300.00	0.87	0.87	71.85	6.19	18.88	19.87	18.13	1.74	11.406		
400.00	400.00	400.00	400.00	1.23	1.23	71.85	6.19	18.88	19.87	17.41	2.46	8.080		
500.00	499.98	500.38	500.36	1.59	1.57	49.25	4.64	18.05	17.45	14.29	3.16	5.520		
600.00	E00.04	600.03	E00.07	1.05	1.01	95.07	0.05	15 50	10.40	0.57	2.05	3.485		
600.00 605.02	599.84 604.85	600.03 605.01	599.87 604.83	1.95 1.97	1.91 1.93	85.97 88.96	0.05 -0.26	15.56 15.40	13.43 13.41	9.57 9.52	3.85 3.89		C, ES, SF	
700.00	699.45	698.24	697.70	2.31	2.26	139.46	-7.46	11.51	21.36	16.79	4.57	4.675	O, E3, 3F	
800.00	798.70	794.33	793.09	2.68	2.60	160.04	-17.65	6.00	42.84	37.57	5.27	8.130		
900.00	897.47	887.70	885.35	3.06	2.96	167.65	-30.25	-0.80	72.54	66.59	5.95	12.187		
1,000.00	995.62	977.81	973.90	3.46	3.32	171.24	-44.91	-8.72	109.01	102.40	6.62	16.479		
1,100.00	1,093.06	1,064.22	1,058.28	3.88	3.69	173.23	-61.26	-17.55	151.70	144.44	7.26	20.901		
1,200.00	1,189.64	1,146.54	1,138.12	4.33	4.05	174.45	-78.91	-27.09	200.19	192.32	7.87	25.423		
1,273.16	1,259.70	1,204.03	1,193.51	4.67	4.32	175.06	-92.43	-34.39	239.14	230.83	8.31	28.772		
1,300.00	1,285.31	1,224.58	1,213.24	4.80	4.42	175.27	-97.50	-37.13	254.03	245.56	8.47	29.991		
1,400.00	1,380.70	1,299.47	1,284.77	5.29	4.78	175.88	-117.03	-47.68	310.89	301.87	9.02	34.451		
1,500.00	1,476.09	1,380.95	1,362.27	5.80	5.20	176.36	-139.16	-59.64	368.82	359.17	9.66	38.195		
1,600.00	1,571.48	1,462.43	1,439.76	6.31	5.63	176.70	-161.28	-71.59	426.77	416.47	10.30	41.449		
1,700.00	1,666.87	1,543.90	1,517.26	6.82	6.06	176.97	-183.41	-83.54	484.72	473.78	10.94	44.299		
1,800.00	1,762.26	1,625.38	1,594.76	7.34	6.49	177.17	-205.54	-95.50	542.68	531.09	11.59	46.811		
1,900.00	1,857.65	1,706.86	1,672.26	7.87	6.93	177.34	-227.66	-107.45	600.65	588.40	12.25	49.040		
2,000.00	1,953.04	1,788.33	1,749.76	8.40	7.38	177.48	-249.79	-119.40	658.61	645.70	12.91	51.028		
2,100.00	2,048.43	1,869.81	1,827.26	8.93	7.83	177.59	-271.91	-131.35	716.58	703.01	13.57	52.810		
2,200.00	2,143.83	1,951.29	1,904.76	9.46	8.28	177.69	-294.04	-143.31	774.55	760.31	14.23	54.416		
2,300.00	2,239.22	2,032.76	1,982.25	10.00	8.73	177.77	-316.17	-155.26	832.52	817.62	14.90	55.871		
2,400.00	2,334.61	2,114.24	2,059.75	10.53	9.18	177.85	-338.29	-167.21	890.49	874.92	15.57	57.193		
2,500.00	2,430.00	2,195.72	2,137.25	11.07	9.63	177.91	-360.42	-179.17	948.46	932.22	16.24	58.399		
2,600.00	2,525.39	2,277.20	2,214.75	11.61	10.09	177.97	-382.54	-191.12	1,006.44	989.52	16.91	59.503		
2,700.00	2,620.78	2,358.67	2,292.25	12.15	10.55	178.02	-404.67	-203.07	1,064.41	1,046.82	17.59	60.517		
2,800.00	2,716.17	2,440.15	2,369.75	12.69	11.01	178.07	-426.80	-215.03	1,122.38	1,104.12	18.26	61.453		
2,900.00	2,811.56	2,521.63	2,447.25	13.23	11.46	178.11	-448.92	-226.98	1,180.36	1,161.42	18.94	62.317		
3,000.00	2,906.95	2,603.10	2,524.74	13.78	11.92	178.14	-471.05	-238.93	1,238.33	1,218.72	19.62	63.118		
3,100.00	3,002.34	2,684.58	2,602.24	14.32	12.38	178.18	-493.17	-250.88	1,296.31	1,276.01	20.30	63.862		
3,200.00	3,097.73	2,766.06	2,679.74	14.86	12.85	178.21	-515.30	-262.84	1,354.29	1,333.31	20.98	64.555		
3,300.00	3,193.13	2,847.53	2,757.24	15.41	13.31	178.24	-537.43	-274.79	1,412.26	1,390.60	21.66	65.202		
3,400.00	3,288.52	2,929.01	2,834.74	15.95	13.77	178.26	-559.55	-286.74	1,470.24	1,447.90	22.34	65.807		
3,500.00	3,383.91	3,010.49	2,912.24	16.49	14.23	178.29	-581.68	-298.70	1,528.21	1,505.19	23.02	66.373		
3,600.00	3,479.30	3,091.96	2,989.74	17.04	14.69	178.31	-603.81	-310.65	1,586.19	1,562.48	23.71	66.905		
3,700.00	3,574.69	3,173.44	3,067.24	17.58	15.16	178.33	-625.93	-322.60	1,644.17	1,619.78	24.39	67.405		
3,800.00	3,670.08	3,254.92	3,144.73	18.13	15.62	178.35	-648.06	-334.56	1,702.15	1,677.07	25.08	67.876		
		0.0	0.055.55			47		0	,			05		
3,900.00	3,765.47	3,336.39	3,222.23	18.68	16.09	178.37	-670.18	-346.51	1,760.12	1,734.36	25.76	68.320		
4,000.00	3,860.86	3,417.87	3,299.73	19.22	16.55	178.38	-692.31	-358.46	1,818.10	1,791.65	26.45	68.740		
4,100.00	3,956.25	3,499.35	3,377.23	19.77	17.01	178.40	-714.44	-370.41	1,876.08	1,848.94	27.14	69.137		
4,200.00	4,051.64	3,580.82	3,454.73	20.31	17.48 17.94	178.42	-736.56 -758.60	-382.37 -394.32	1,934.05	1,906.23	27.82	69.512		
4,300.00	4,147.04	3,662.30	3,532.23	20.86	17.94	178.43	-758.69	-394.32	1,992.03	1,963.52	28.51	69.868		
4,400.00	4,242.43	3,743.78	3,609.73	21.41	18.41	178.44	-780.81	-406.27	2,050.01	2,020.81	29.20	70.207		
4,500.00	4,337.82	3,825.25	3,687.22	21.95	18.87	178.46	-802.94	-418.23	2,107.99	2,078.10	29.89	70.528		
4,560.40	4,395.44	3,874.47	3,734.04	22.29	19.15	178.46	-816.31	-425.45	2,143.01	2,112.70	30.31	70.714		
4,600.00	4,433.09	3,906.52	3,764.52	22.50	19.34	-168.79	-825.01	-430.15	2,166.23	2,135.65	30.58	70.842		
4,650.00	4,480.14	3,946.23	3,802.29	22.78	19.56	-154.86	-835.79	-435.97	2,196.23	2,165.31	30.92	71.032		
4 700 00	4 500 0=	0.004.00	0.000.00	20.05	40.70	440.00	242.05	444.01	0.000.00	0.405.55	04.6-	74.050		
4,700.00	4,526.37	3,984.89	3,839.06	23.06	19.79	-143.32	-846.29	-441.64	2,226.82	2,195.57	31.25	71.256		



#### Anticollision Report



Company: DJR Operating Project: Betonnie Tsosie Unit H28 2308 Pad Reference Site: 0.00 usft Site Error:

Reference Well: # 401H Well Error: 0.00 usft Reference Wellbore Original Drilling

Reference Design: APD Local Co-ordinate Reference:

Well # 401H - Slot 2 TVD Reference: GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft MD Reference:

North Reference:

**Survey Calculation Method:** Minimum Curvature

Output errors are at 2.00 sigma Database: DJR

Offset TVD Reference: Offset Datum

Offset De	_		08 Pad - #	# 732H - Ori	iginal Dril	ling - APD							Offset Site Error:	0.00 usft
Survey Progr		WD+HDGM		0					D:				Offset Well Error:	0.00 usft
Refero Measured	ence Vertical	Offse Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	nce Between	Minimum	Separation	M	
Depth	Depth	Depth	Depth	Keierence	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,750.00	4,571.49	4,022.24	3,874.59	23.33	20.00	-133.76	-856.43	-447.12	2,257.87	2,226.29	31.57	71.512		
4,800.00	4,615.23	4,058.06	3,908.66	23.60	20.20	-125.70	-866.16	-452.38	2,289.23	2,257.34	31.88	71.800		
4,850.00	4,657.31	4,092.12	3,941.06	23.87	20.40	-118.78	-875.41	-457.38	2,320.77	2,288.59	32.18	72.117		
4,900.00	4,697.48	4,124.22	3,971.59	24.13	20.58	-112.71	-884.13	-462.09	2,352.39	2,319.92	32.47	72.457		
4,950.00	4,735.48	4,154.16	4,000.07	24.39	20.75	-107.30	-892.26	-466.48	2,383.97	2,351.22	32.74	72.815		
5,000.00	4,771.09	4,181.76	4,026.32	24.64	20.91	-102.42	-899.75	-470.53	2,415.39	2,382.39	33.01	73.183		
5,050.00	4,804.09	4,206.84	4,050.18	24.90	21.05	-97.96	-906.56	-474.21	2,446.58	2,413.31	33.26	73.550		
5,100.00	4,834.26	5,696.26	4,913.75	25.16	29.18	-99.14	-501.21	-1,255.17	2,462.75	2,415.76	46.99	52.413		
5,150.00 5,200.00	4,861.43 4,885.43	5,737.49 5,780.80	4,914.07 4,914.40	25.42 25.69	29.82 30.51	-96.87 -94.91	-472.04 -441.39	-1,284.30 -1,314.90	2,470.86 2,478.36	2,422.73 2,429.01	48.13 49.35	51.339 50.217		
5,250.00	4,906.10	5,825.94	4,914.75	25.98	31.28	-93.23	-409.44	-1,346.80	2,485.13	2,434.45	50.67	49.043		
0,200.00	4,000.10	0,020.04	4,014.70	20.00	01.20	-50.20	-400.44	-1,040.00	2,400.10	2,404.40	00.01	40.040		
5,300.00	4,923.33	5,872.63	4,915.11	26.29	32.10	-91.83	-376.41	-1,379.78	2,491.02	2,438.94	52.08	47.831		
5,350.00	4,937.00	5,920.57	4,915.47	26.62	32.97	-90.72	-342.48	-1,413.65	2,495.93	2,442.35	53.58	46.579		
5,400.00	4,947.04	5,969.47	4,915.85	26.99	33.89	-89.90	-307.88	-1,448.20	2,499.78	2,444.60	55.18	45.305		
5,450.00	4,953.37	6,019.03	4,916.23	27.39	34.85	-89.36	-272.80	-1,483.22	2,502.49	2,445.64	56.85	44.017		
5,503.13	4,956.00	6,072.07	4,916.64	27.87	35.91	-89.11	-235.27	-1,520.69	2,504.09	2,445.37	58.71	42.651		
F 000 00	4.050.05	0.400.05	4.047.00	20.05	07.00	00.11	100 70	4 500 45	0.505.75	0.440.45	20.55	40.000		
5,600.00	4,956.93	6,168.93	4,917.38	28.89	37.89	-89.11	-166.73	-1,589.13	2,505.76	2,443.49	62.28	40.236		
5,700.00 5,800.00	4,957.90	6,268.92 6,368.90	4,918.15 4,918.92	30.17 31.64	40.00 42.17	-89.10 -89.10	-95.97 -25.22	-1,659.77	2,507.50 2,509.23	2,441.33 2,439.01	66.16 70.22	37.900		
5,900.00	4,958.86 4,959.82	6,468.89	4,919.69	33.29	44.39	-89.09	-25.22 45.53	-1,730.41 -1,801.05	2,510.96	2,439.01	74.42	35.735 33.742		
6,000.00	4,959.82	6,568.87	4,919.69	35.29	46.64	-89.09	116.29	-1,871.69	2,510.96	2,430.54	78.74	31.913		
0,000.00	4,900.79	0,308.87	4,920.40	33.07	40.04	-09.09	110.29	-1,071.09	2,312.09	2,433.93	10.14	31.913		
6,100.00	4,961.75	6,668.86	4,921.22	36.97	48.93	-89.09	187.04	-1,942.34	2,514.42	2,431.27	83.16	30.237		
6,200.00	4,962.71	6,768.84	4,921.99	38.96	51.25	-89.08	257.79	-2,012.98	2,516.15	2,428.50	87.66	28.704		
6,300.00	4,963.67	6,868.83	4,922.76	41.03	53.60	-89.08	328.55	-2,083.62	2,517.89	2,425.65	92.23	27.299		
6,400.00	4,964.64	6,968.81	4,923.53	43.15	55.96	-89.07	399.30	-2,154.26	2,519.62	2,422.75	96.87	26.010		
6,500.00	4,965.60	7,068.80	4,924.30	45.33	58.35	-89.07	470.06	-2,224.90	2,521.35	2,419.79	101.56	24.827		
6,600.00	4,966.56	7,168.78	4,925.07	47.55	60.75	-89.07	540.81	-2,295.54	2,523.08	2,416.79	106.29	23.738		
6,700.00	4,967.53	7,268.77	4,925.83	49.81	63.16	-89.06	611.56	-2,366.19	2,524.81	2,413.75	111.06	22.734		
6,800.00	4,968.49	7,368.75	4,926.60	52.10	65.59	-89.06	682.32	-2,436.83	2,526.55	2,410.68	115.87	21.806		
6,900.00	4,969.45	7,468.74	4,927.37	54.42	68.03	-89.06	753.07	-2,507.47	2,528.28	2,407.58	120.70	20.947		
7,000.00	4,970.42	7,568.72	4,928.14	56.76	70.48	-89.05	823.83	-2,578.11	2,530.01	2,404.45	125.56	20.150		
7,100.00	4,971.38	7,668.71	4,928.91	59.12	72.94	-89.05	894.58	-2,648.75	2,531.74	2,401.30	130.44	19.409		
7,200.00	4,972.34	7,768.69	4,929.68	61.49	75.41	-89.04	965.33	-2,719.40	2,533.47	2,398.13	135.35	18.718		
7,300.00	4,973.31	7,868.68	4,930.44	63.89	77.88	-89.04	1,036.09	-2,790.04	2,535.21	2,394.94	140.27	18.074		
7,400.00	4,974.27	7,968.66	4,931.21	66.29	80.37	-89.04	1,106.84	-2,860.68	2,536.94	2,391.73	145.21	17.471		
7,500.00	4,975.23	8,068.64	4,931.98	68.71	82.86	-89.03	1,177.60	-2,931.32	2,538.67	2,388.51	150.16	16.907		
7 000 00	4.070.05	0.400.00	4.000.75	74.4.	05.05	00.00	4 0 4 0 0 5	0.004.00	0.540.45	0.005.65	,	40.07-		
7,600.00	4,976.20	8,168.63	4,932.75	71.14	85.35	-89.03	1,248.35	-3,001.96	2,540.40	2,385.28	155.12	16.377		
7,700.00	4,977.16	8,268.61	4,933.52	73.58	87.85	-89.03	1,319.10	-3,072.60	2,542.13	2,382.03	160.10	15.878		
7,800.00 7,900.00	4,978.12 4,979.08	8,368.60 8,468.58	4,934.29 4,935.05	76.02 78.48	90.36 92.86	-89.02 -89.02	1,389.86 1,460.61	-3,143.25 -3,213.89	2,543.87 2,545.60	2,378.78 2,375.51	165.09 170.09	15.409 14.966		
8,000.00	4,980.05	8,568.57	4,935.82	80.94	95.38	-89.01	1,531.36	-3,284.53	2,547.33	2,372.24	175.09	14.548		
8,100.00	4,981.01	8,668.55	4,936.59	83.41	97.90	-89.01	1,602.12	-3,355.17	2,549.06	2,368.95	180.11	14.153		
8,200.00	4,981.97	8,768.54	4,937.36	85.88	100.42	-89.01	1,672.87	-3,425.81	2,550.79	2,365.66	185.13	13.778		
8,300.00	4,982.94	8,868.52	4,938.13	88.36	102.94	-89.00	1,743.63	-3,496.46	2,552.53	2,362.36	190.16	13.423		
8,400.00	4,983.90	8,968.51	4,938.90	90.85	105.47	-89.00	1,814.38	-3,567.10	2,554.26	2,359.06	195.20	13.085		
8,500.00	4,984.86	9,068.49	4,939.66	93.34	108.00	-89.00	1,885.13	-3,637.74	2,555.99	2,355.75	200.24	12.765		
8,600.00	4,985.83	9,168.48	4,940.43	95.83	110.53	-88.99	1,955.89	-3,708.38	2,557.72	2,352.44	205.29	12.459		
8,700.00	4,985.83	9,268.46	4,941.20	98.33	113.06	-88.99	2,026.64	-3,779.02	2,559.46	2,332.44	210.34	12.459		
8,800.00	4,987.75	9,368.45	4,941.97	100.83	115.60	-88.99	2,020.04	-3,849.67	2,561.19	2,345.79	215.40	11.891		
8,900.00	4,988.72	9,468.43	4,942.74	103.33	118.14	-88.98	2,168.15	-3,920.31	2,562.92	2,342.46	220.46	11.625		
9,000.00	4,989.68	9,568.42	4,943.51	105.84	120.68	-88.98	2,238.90	-3,990.95	2,564.65	2,339.13	225.52	11.372		
9,100.00	4,990.64	9,668.40	4,944.27	108.34	123.22	-88.97	2,309.66	-4,061.59	2,566.38	2,335.79	230.59	11.130		
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#### Anticollision Report



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft

Reference Well: # 401H
Well Error: 0.00 usft
Reference Wellbore Original Drilling

Reference Design: APD

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Minimum Curvature

2.00 sigma DJR Offset Datum

Offset De	sign	H28 230	08 Pad - #	# 732H - Ori	ginal Dril	ling - APD							Offset Site Error:	0.00 usf
Survey Prog	ram: 0-M	WD+HDGM											Offset Well Error:	0.00 usf
Refer	ence	Offse	et	Semi Major	Axis				Dista	ınce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth	Vertical Depth	Reference (usft)	Offset (usft)	Highside Toolface	Offset Wellbor	+E/-W	Between Centres	Between Ellipses	Minimum Separation (usft)	Separation Factor	Warning	
(usit)	(usit)	(usft)	(usft)	(usit)	(usit)	(°)	(usft)	(usft)	(usft)	(usft)	(usit)			
9,200.00	4,991.61	9,768.39	4,945.04	110.86	125.77	-88.97	2,380.41	-4,132.23	2,568.12	2,332.45	235.66	10.897		
9,300.00	4,992.57	9,868.37	4,945.81	113.37	128.31	-88.97	2,451.17	-4,202.87	2,569.85	2,329.11	240.74	10.675		
9,400.00	4,993.53	9,968.36	4,946.58	115.89	130.86	-88.96	2,521.92	-4,273.52	2,571.58	2,325.76	245.82	10.461		
9,500.00	4,994.49	10,068.34	4,947.35	118.41	133.41	-88.96	2,592.67	-4,344.16	2,573.31	2,322.41	250.90	10.256		
9,600.00	4,995.46	10,168.33	4,948.12	120.93	135.96	-88.96	2,663.43	-4,414.80	2,575.05	2,319.06	255.98	10.059		
9,700.00	4,996.42	10,268.31	4,948.88	123.45	138.51	-88.95	2,734.18	-4,485.44	2,576.78	2,315.71	261.07	9.870		
9,800.00	4,997.38	10,283.37	4,949.00	125.97	138.90	-88.95	2,744.84	-4,496.08	2,579.91	2,316.01	263.89	9.776		
9,900.00	4,998.35	10,283.37	4,949.00	128.50	138.90	-88.95	2,744.84	-4,496.08	2,586.86	2,320.90	265.96	9.727		
10,000.00	4,999.31	10,283.37	4,949.00	131.03	138.90	-88.95	2,744.84	-4,496.08	2,597.64	2,330.02	267.63	9.706		
10,100.00	5,000.27	10,283.37	4,949.00	133.55	138.90	-88.95	2,744.84	-4,496.08	2,612.22	2,343.31	268.91	9.714		
10,200.00	5,001.24	10,283.37	4,949.00	136.08	138.90	-88.95	2,744.84	-4,496.08	2,630.51	2,360.71	269.81	9.750		
10,300.00	5,002.20	10,283.37	4,949.00	138.62	138.90	-88.95	2,744.84	-4,496.08	2,652.45	2,382.12	270.33	9.812		
10,400.00	5,003.16	10,283.37	4,949.00	141.15	138.90	-88.95	2,744.84	-4,496.08	2,677.95	2,407.45	270.50	9.900		
10,500.00	5,004.13	10,283.37	4,949.00	143.68	138.90	-88.95	2,744.84	-4,496.08	2,706.91	2,436.57	270.34	10.013		
10,600.00	5,005.09	10,283.37	4,949.00	146.22	138.90	-88.95	2,744.84	-4,496.08	2,739.21	2,469.35	269.85	10.151		
10,700.00	5,006.05	10,283.37	4,949.00	148.75	138.90	-88.95	2,744.84	-4,496.08	2,774.74	2,505.66	269.08	10.312		
10,800.00	5,007.02	10,283.37	4,949.00	151.29	138.90	-88.95	2,744.84	-4,496.08	2,813.38	2,545.33	268.04	10.496		
10,900.00	5,007.98	10,283.37	4,949.00	153.83	138.90	-88.95	2,744.84	-4,496.08	2,855.00	2,588.23	266.77	10.702		
11,000.00	5,008.94	10,283.37	4,949.00	156.36	138.90	-88.95	2,744.84	-4,496.08	2,899.47	2,634.20	265.27	10.930		
11,100.00	5,009.90	10,283.37	4,949.00	158.90	138.90	-88.95	2,744.84	-4,496.08	2,946.67	2,683.08	263.59	11.179		
11,200.00	5,010.87	10,283.37	4,949.00	161.44	138.90	-88.95	2,744.84	-4,496.08	2,996.46	2,734.71	261.74	11.448		
11,300.00	5,011.83	10,283.37	4,949.00	163.99	138.90	-88.95	2,744.84	-4,496.08	3,048.72	2,788.96	259.75	11.737		
11,400.00	5,012.79	10,283.37	4,949.00	166.53	138.90	-88.95	2,744.84	-4,496.08	3,103.32	2,845.67	257.65	12.045		
11,500.00	5,013.76	10,283.37	4,949.00	169.07	138.90	-88.95	2,744.84	-4,496.08	3,160.14	2,904.70	255.44	12.371		
11,600.00	5,014.72	10,283.37	4,949.00	171.61	138.90	-88.95	2,744.84	-4,496.08	3,219.07	2,965.92	253.16	12.716		
11,700.00	5,015.68	10,283.37	4,949.00	174.16	138.90	-88.95	2,744.84	-4,496.08	3,279.99	3,029.18	250.81	13.078		
11,800.00	5,016.65	10,283.37	4,949.00	176.70	138.90	-88.95	2,744.84	-4,496.08	3,342.79	3,094.38	248.41	13.457		
11,900.00	5,017.61	10,283.37	4,949.00	179.25	138.90	-88.95	2,744.84	-4,496.08	3,407.37	3,161.38	245.99	13.852		
12,000.00	5,018.57	10,283.37	4,949.00	181.79	138.90	-88.95	2,744.84	-4,496.08	3,473.63	3,230.09	243.54	14.263		
12,100.00	5,019.54	10,283.37	4,949.00	184.34	138.90	-88.95	2,744.84	-4,496.08	3,541.47	3,300.39	241.08	14.690		
12,200.00	5,020.50	10,283.37	4,949.00	186.88	138.90	-88.95	2,744.84	-4,496.08	3,610.81	3,372.18	238.62	15.132		
12,300.00	5,021.46	10,283.37	4,949.00	189.43	138.90	-88.95	2,744.84	-4,496.08	3,681.55	3,445.38	236.17	15.588		
12,400.00	5,022.43	10,283.37	4,949.00	191.98	138.90	-88.95	2,744.84	-4,496.08	3,753.63	3,519.89	233.74	16.059		
12,500.00	5,023.39	10,283.37	4,949.00	194.53	138.90	-88.95	2,744.84	-4,496.08	3,826.97	3,595.64	231.33	16.544		
12,544.77	5,023.82	10,283.37	4,949.00	195.67	138.90	-88.95	2,744.84	-4,496.08	3,860.19	3,629.93	230.26	16.765		



Anticollision Report

**TVD Reference:** 

MD Reference:

North Reference:



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft
Reference Well: # 401H

Reference Well: # 401H
Well Error: 0.00 usft
Reference Wellbore
Reference Design: APD

Survey Calculation Method:

Stit
Output errors are at
Database:
Offset TVD Reference:

Well # 401H - Slot 2 GL 6864' & RKB 14' @ 6878.00usft

GL 6864' & RKB 14' @ 6878.00usft

Minimum Curvature 2.00 sigma DJR

Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 6864' & RKB 14' @ 6878.00usft

Offset Depths are relative to Offset Datum

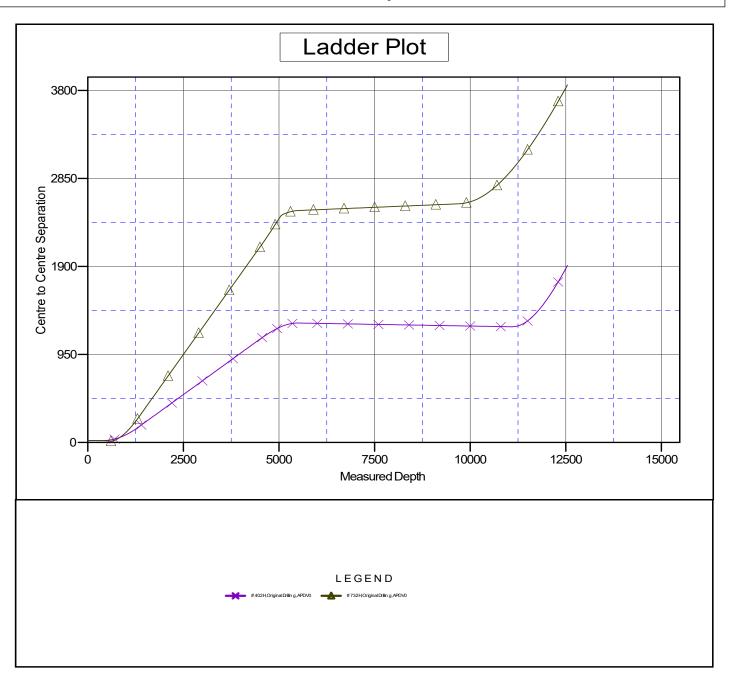
Central Meridian is -107.83333333

Coordinates are relative to: # 401H - Slot 2

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

Grid Convergence at Surface is: 0.09°

Local Co-ordinate Reference:





#### Anticollision Report



Company: DJR Operating
Project: Betonnie Tsosie Unit
Reference Site: H28 2308 Pad
Site Error: 0.00 usft
Reference Well: # 401H
Well Error: 0.00 usft

Reference Wellbore Original Drilling
Reference Design: APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well # 401H - Slot 2

GL 6864' & RKB 14' @ 6878.00usft GL 6864' & RKB 14' @ 6878.00usft

True

Minimum Curvature

2.00 sigma DJR

Offset Datum

Reference Depths are relative to GL 6864' & RKB 14' @ 6878.00usft

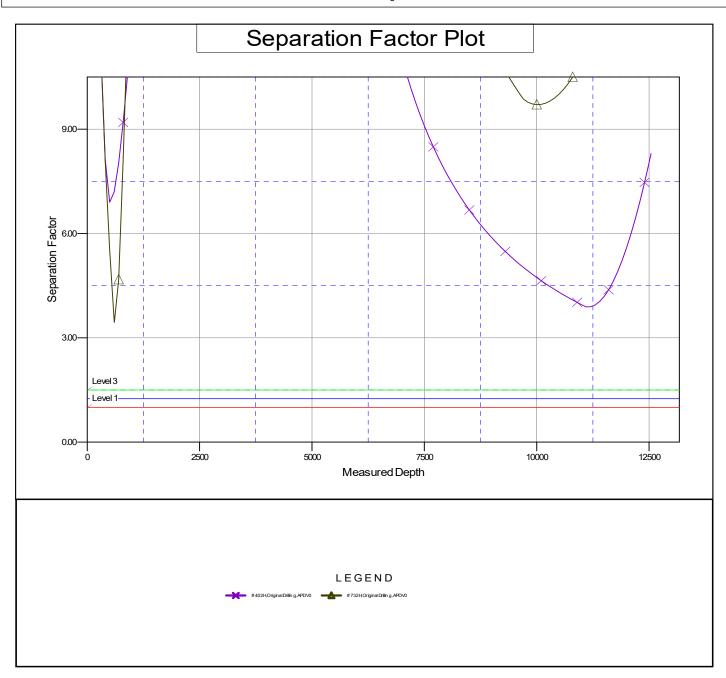
Offset Depths are relative to Offset Datum

Central Meridian is -107.83333333

Coordinates are relative to: # 401H - Slot 2

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

Grid Convergence at Surface is: 0.09°





### 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

#401H Betonnie Tsosie Wash Unit

Lease: NMNM50999 Unit:NMNM135219A

SH: SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> Section 28, T.23 N., R.8 W.

BH: NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> Section 21, T.23 N., R.8 W.

San Juan 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 the surface casing to a minimum of psi for 30 minutes.
D. X Test all casing strings below the surface 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.
E.  Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, Farmington District Office, Branch of Reservoir Management, 6251 College Blvd. Suite A, Farmington, New Mexico 87402. The effective date of the agreement must be <b>prior</b> to any sales.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

Released to Imaging: 1/4/2024 4:05:18 PM Approval Date: 11/07/2023

- F. \(\infty\) 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.

#### I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, 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.
- 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. 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 (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). 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 at Virgil Lucero at 505-793-1836.
- G. 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.
- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- I. 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 time, unless the well is secured with blowout preventers or cement plugs.

J. 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.

#### 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 within 30 days after the work is completed.
  - 1 .Original and three copies on Federal and an Original and five copies on Indian leases of Sundry Notice (Form 3150-5), giving 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 any and 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 manner in which 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 (Form 3160-4) 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.

#### 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 or 50 MMCF following its (completion)(recompletion), whichever first occurs, without the prior, written approval of the authorized officer. 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 first gas to surface.

#### 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 in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.F.
- 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.F. 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 BLM 24 Hour Number (505) 564-7750

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 293132

#### **CONDITIONS**

Operator:	OGRID:
DJR OPERATING, LLC	371838
1 Road 3263	Action Number:
Aztec, NM 87410	293132
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	1/4/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/4/2024
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	1/4/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	1/4/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	1/4/2024
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	1/4/2024