Form 3160-3 (June 2015)		FORM APPF OMB No. 100 Expires: Januar	04-0137
UNITED STATES DEPARTMENT OF THE IN	TERIOR	5. Lease Serial No.	
BUREAU OF LAND MANA		NMNM117562	
APPLICATION FOR PERMIT TO DE	RILL OR REENTER	6. If Indian, Allotee or Tr	ibe Name
Ia. Type of work:	ENTER	7. If Unit or CA Agreeme	
1b. Type of Well: ✓ ✓ Oil Well Gas Well Other		VENADO CANYON UN	
	8. Lease Name and Well		
1c. Type of Completion: Hydraulic Fracturing	igle Zone 🖌 Multiple Zone	VENADO CANYON UN	
2. Name of Operator DJR OPERATING LLC		9. API Well No. 30-043-21404	J
3a. Address1700 LINCOLN STREET, SUITE 2800, DENVER, CO 802	3b. Phone No. (include area code) (505) 632-3476	10. Field and Pool, or Ex BASIN MANCOS/LYBF	
4. Location of Well (<i>Report location clearly and in accordance w</i>	11. Sec., T. R. M. or Blk.		
At surface SENE / 2288 FNL / 754 FEL / LAT 36.13853	4 / LONG -107.432101	SEC 14/T22N/R6W/NM	IP
At proposed prod. zone SESE / 521 FSL / 102 FEL / LAT	36.146538 / LONG -107.447414		
14. Distance in miles and direction from nearest town or post offic 60 miles	ve*	12. County or Parish SANDOVAL	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Spac 360.0	ng Unit dedicated to this w	ell
18. Distance from proposed location* to nearest well, drilling, completed, 20 feet		/BIA Bond No. in file	
		ИВ001464 	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7120 feet	22. Approximate date work will start* 05/12/2021	23. Estimated duration10 days	
	24. Attachments		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule p	er 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operatio Item 20 above).	ns unless covered by an exis	ting bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		rmation and/or plans as may	be requested by the
25. Signature (Electronic Submission)	Name (Printed/Typed) SHAW-MARIE FORD / Ph: (505)	632-3476 Date 11/	e 12/2020
Title	·		
Regulatory Specialist			
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) DAVE J MANKIEWICZ / Ph: (505) 564-7761 Date 02/*	e 17/2022
Title AFM-Minerals	Office Farmington Field Office		
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights	in the subject lease which	would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements o			epartment or agency



(Continued on page 2)

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 611 S. First St., Artesia, N.M. 68210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410 Phone: (505) 334-6176 Fax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fs. NM 67505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-043-2	Number 21404			Pool Code 42289					L Y	BROOK G			
⁴ Property C					5 Pro	perty]	Name					° We	ell Number
32527	I			VE	ENADO CA								303H
⁷ OGRID No						rator						9	Elevation
371838	8				DJR OPE	RATIN	IG, LLC						7120
					¹⁰ Surf	ace	Locati	ion					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from			South line	Feet	from the	East/Wes	t line	County
н	14	22-N	6-W		2288	5	NC	ORTH		754	EAS	T	SANDOVAL
			¹¹ Botto	om Hole	Locati	on I	f Diffe	rent Fi	om S	Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/	South line	Feet	from the	East/Wes	t line	County
P	10	22-N	6W		521		SC	DUTH		102	EAS	т	SANDOVAL
¹⁸ Dedicated Acre	85	1	Joint or	Infill	¹⁴ Consolid	ation C	Code		15 Ord	ier No.			
SEE DETAIL	BELOW									D 1	4067	R-1406	7.0
NOALLOW			SIGNET		S COMP				INTE				NSOLIDATED
NU ALLOW	ABLE W	OR A NO										LEN CC	NSOLIDATED
16		OR A N	JN-SIA	INDARD (JNII IIA	5 DE	EN AF	FICT			ISION		
DETAIL:									1	17 OPE	RATOR	CERT	IFICATION
DEDICATED ACRES SEC. 14: N2/SE, SEC. 14: N2/SEC. 14: N	SW/NE, SE/	I NW, N2/NW (24	0 ACRES)					1					on contained herein
SEC. 11: SW/SW	(40 ACRES)		,		1					belief, and	that this org	anization e	
<u>SEC. 15:</u> NE/NE (<u>SEC. 10:</u> SE/SE (TOTAL = 360 A	CRES		1	1							veral interest in the hole location or
,		┝────┼-		+	_i			 		has a right to a contra	to drill this ct with an o	well at the	hole location or is location pursuant ch a mineral or
		l i				1		1	-1	a working	interest. or t	o a volunta	ry pooling agreement tofore entered by the
		1						1		division.			
	1			FND BLM "1945" BC	1	1				1			
	I	0	ـــــــــــــــــــــــــــــــــــــ	·	·/	11 -		· ·		4			
				51		1				Shaw	Mari	Far	08/05/20
			85.0	677						Signature	-Marii	Da	<u>- 00/05/2</u> 0 te
						 				Shaw-	Marie Fo	ord	
			B.L.M. BHL	B.L.M.]				1	Printed			
			102'	' -	li –		1			E-mail	djrllC.COn Address	1	
		N88'43'55"w	25	<u> </u>	S88'42'37	Ę	<u>N88</u> 41	42 " W		<u> </u>			
		2020.70	i		2611.29		2609	.37'	2683.86*	18 SUI	RVEYOR	CERT	IFICATION
	1		i	B.L.M.	ARE.	ļ!			83.8				ion shown on this pla ual surveys made by
	· · ·			– – –		l.	1	2288'	28	me or unde	τ my superv	ision, and i	that the same is true
	1		39"E			1		– – – – – – – – – – – – – – – – – – –	-	and correct	to the best	of my belie	1.
			52	2718.28			754	D.L.A.			19, 202	0	N. RUS
	1	5	NOT	21	H B.L.M.		<u>_</u>	SHL		Date of S	urvey	LET.	MEL
SURFACE (SHL)			·	·····	∣┖╸╤╸╼	14-	<u> </u>	·	.	Signature	and Seal	Protested	Surveyor
2288' FNL, 754' LAT: 36.138534'		4				1		1500'	ļ			-: (i5703) · · · · · · · · · · · · · · · · · ·
LONG: 107.43210	1" W NAD83					1		\checkmark	!			ICEN (
POINT OF ENTRY 2191' FSL, 1500'	FEL SEC. 1	14				ٰ لے ٰ	<u> </u>		J			×	5
LAT: 36.136147* LONG: 107.434675	N				1		2191		5°.			ROF	ESSIONAL
BOTTOM HOLE (BH	HL)				1	1			N00"52"35"E	GLENV	V. RUS.		
521' FSL, 102' F LAT: 36.146538' I	N	€	FND BLM 1948" BC					00'20'24	N00 ⁻ 26	Certificate			15703
LONG: 107.447414	4" W NAD83				<u> </u>	0	I_N	88'32'54"W 2615.05	•				

Released to Imaging: 3/16/2022 1:18:52 PM

Re	ceived	bv	OCD:	3/16/2	2022 9	:29:42	AM
----	--------	----	------	--------	--------	--------	----

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: DJR Operating, LLC **OGRID:** 371838 **Date:** 02 / 23 / 2022

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.

If Other, please describe:

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Venado Canyon Unit 301H	TBD	H-14-22N-06W	2229 FNL x 747 FEL	280	410	100
Venado Canyon Unit 302H	TBD	H-14-22N-06W	2209 FNL x 745 FEL	445	660	160
Venado Canyon Unit 303H	TBD	H-14-22N-06W	2288 FNL x 754 FEL	250	375	90
Venado Canyon Unit 304H	TBD	H-14-22N-06W	2248 FNL x 750 FEL	440	660	160
Venado Canyon Unit 503H	TBD	H-14-22N-06W	2268 FNL x 752 FEL	260	400	95

IV. Central Delivery Point Name: _Chaco Processing Plant _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Venado Canyon Unit 301H	TBD	06/29/2022	07/09/2022	10/19/2022	11/17/2022	11/17/2022
Venado Canyon Unit 302H	TBD	06/13/2022	06/23/2022	10/11/2022	11/17/2022	11/17/2022
Venado Canyon Unit 303H	TBD	07/07/2022	07/17/2022	10/23/2022	11/17/2022	11/17/2022
Venado Canyon Unit 304H	TBD	07/16/2022	07/26/2022	10/27/2022	11/17/2022	11/17/2022
Venado Canyon Unit 503H	TBD	06/22/2022	07/02/2022	10/15/2022	11/17/2022	11/17/2022

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 🖂 Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 \Box 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. \Box 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 \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes 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

 \Box 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. \Box 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. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

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

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Shaw-Maris Ford
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrllc.com
Date: 02/23/2022
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

.



SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

- Individual heater treaters will be set for each 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 separators.
- Oil will be separated from the produced water and the produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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

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



VENTING and FLARING

DJR Operating, LLC (DJR) has a natural gas system available prior to startup of completion operations. DJR utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, DJR utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) DJR utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) DJR's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

DJR will only flare gas during the following times:

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

1 Road 3263 Aztec, NM 87410



OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

DJR Operating, LLC (DJR) understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

19.15.27.8 B. Venting and flaring during drilling operations

- DJR shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- In the event of an emergency, DJR will vent natural gas in order to avoid substantial impact. DJR shall report the vented or flared gas to the NMOCD.

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

- DJR facilities are built and ready from day 1 of Flowback.
- Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
 - 1) An appropriately sized flare stack with an automatic igniter.
 - 2) DJR analyzes the natural gas samples twice per week.
 - 3) DJR routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
 - 4) DJR provides the NMOCD with pipeline specifications and natural gas data.

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



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.



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 1



5 DJR Operating

DRILLING PLAN Venado Canyon Unit 303H Sandoval County, New Mexico

Surface Location

754-ft FEL & 2288-ft FNL Sec 14 T22N R06W Graded Elevation 7122' MSL RKB Elevation 7136' (14' KB)

Kick Off Point for Horizontal Build Curve 4840-ft MD 4663-ft TVD

Heel Location (Pay zone entry) 1500-ft FEL & 2191-ft FSL Sec 14 T22N R06W

Bottom Hole Location (TD)

102-ft FEL & 521-ft FSL Sec 10 T22N R06W SHL Geographical Coordinates (NAD-83) Latitude 36.1385341° N Longitude 107.4321005° W

Local Coordinates (from SHL) 1183-ft South 189-ft West

Heel Geographical Coordinates (NAD-83)Latitude36.1361466° NLongitude107.43467460° W

BHL Geographical Coordinates (NAD-83) Latitude 36.1465383° N Longitude 107.4474146° W

Well objectives

This well is planned as a 5330-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 143°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	1327	1311	Sd	W	8.3	8.4 - 8.8
Kirtland	1483	1460	Sh	-	8.3	8.4 - 8.8
Fruitland	1715	1681	С	G	8.3	9.0 - 9.5
Pictured Cliffs	1919	1876	Sd	W	8.3	9.0 - 9.5
Lewis	2016	1969	Sh	-		9.0 - 9.5
Chacra	2764	2682	Sd	-	8.3	9.0 - 9.5
Menefee	3473	3359	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4281	4130	Sd	-	8.3	9.0 - 9.5
Mancos	4432	4274	Sh	-		9.0 - 9.5
Mancos Silt	4809	4634	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5371	5149	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5428	5191	Sd	O/G	6.6	8.8 -9.0
Gallup C	5566	5279	Sd	O/G	6.6	8.8 -9.0
Target	5951	5389	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	Тор	Bottom	Тор	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	5895	surf	5387	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5607	11286	5301	5398	5607

Note: all casing will be new

Rev 1





Casing Design Load Cases

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

Note # 1

- Fluid level at shoe, air column to surface, pore pressure outside
- 2 3 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
- 7 Overpull values as follows: Surface casing 20,000 lbs, Intermediate & Production 100,000 lbs

Casing Design Factors

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

Cement Design

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

" Intermediate Casing	Lead	Tail
	BJ Services	BJ Services
Туре	III	Poz/G
Planned top	Surface	4340-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.34	1.50
Mix water (gal/sx)	13.26	7.20
Volume (sx)	422	248
Volume (bbls)	176	66
Volume (cu.ft.)	988	371
Excess %	50	50

Rev 1

4-1/2" Production Liner

	BJ Services
Туре	Poz/G
Planned top	5607-ft
Density (ppg)	13.3
Yield (cf/sx)	1.56
Mix water (gal/sx)	7.71
Volume (sx)	476
Volume (bbls)	133
Volume (cu.ft)	745
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% KCI Low solids, non- dispersed	350 – 5895	9.0 - 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5895 – 11286	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

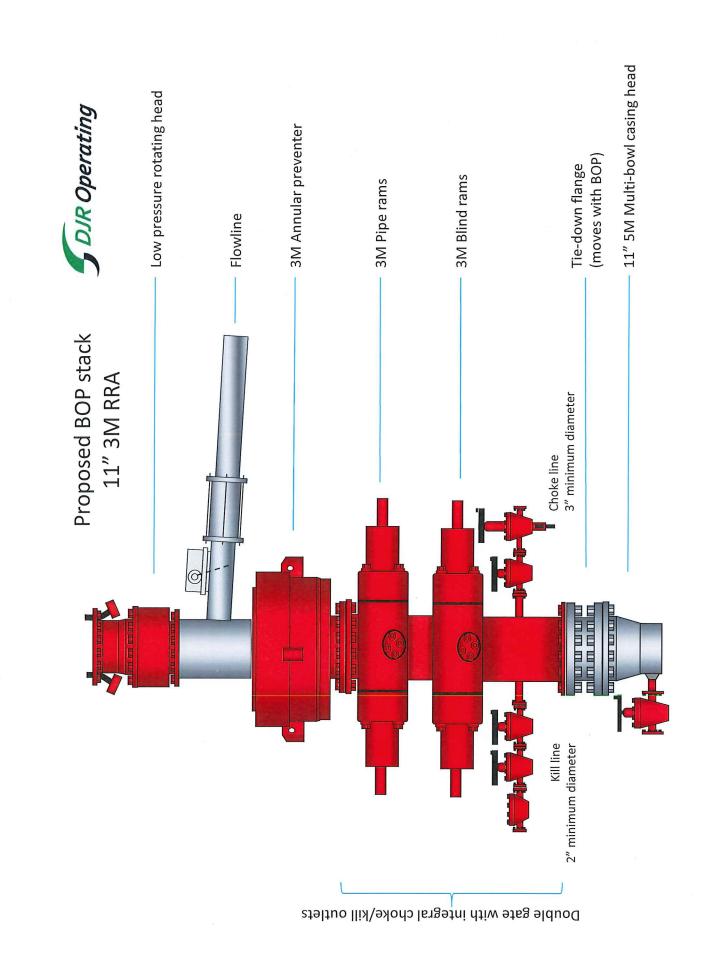
A closed loop, steel tank-based circulating system will be used. In addition to the rig solids control equipment, a dewatering centrifuge and chemical flocculation system will be operational to strip solids from the whole mud. All solids will be collected in 3-sided bins and will then be put into transports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

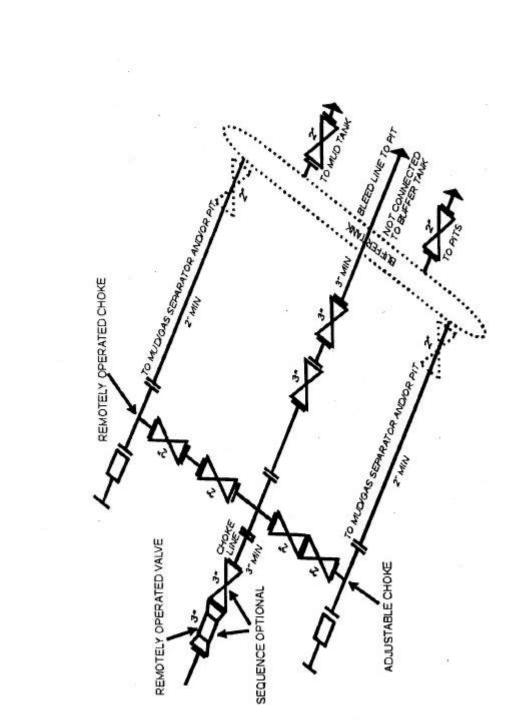


1



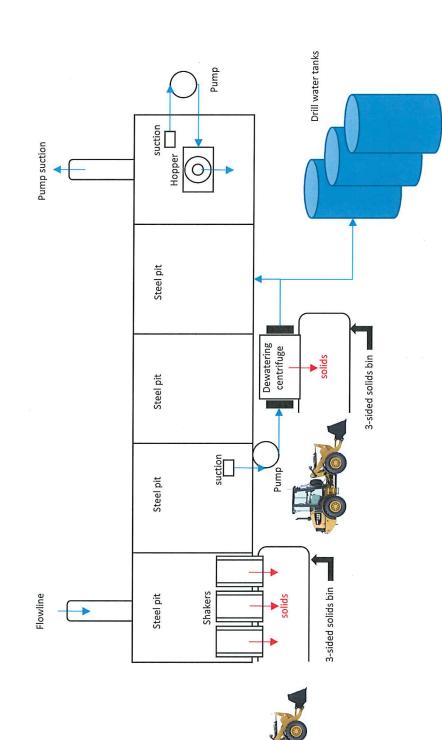
Actual system to conform with Onshore Order 2

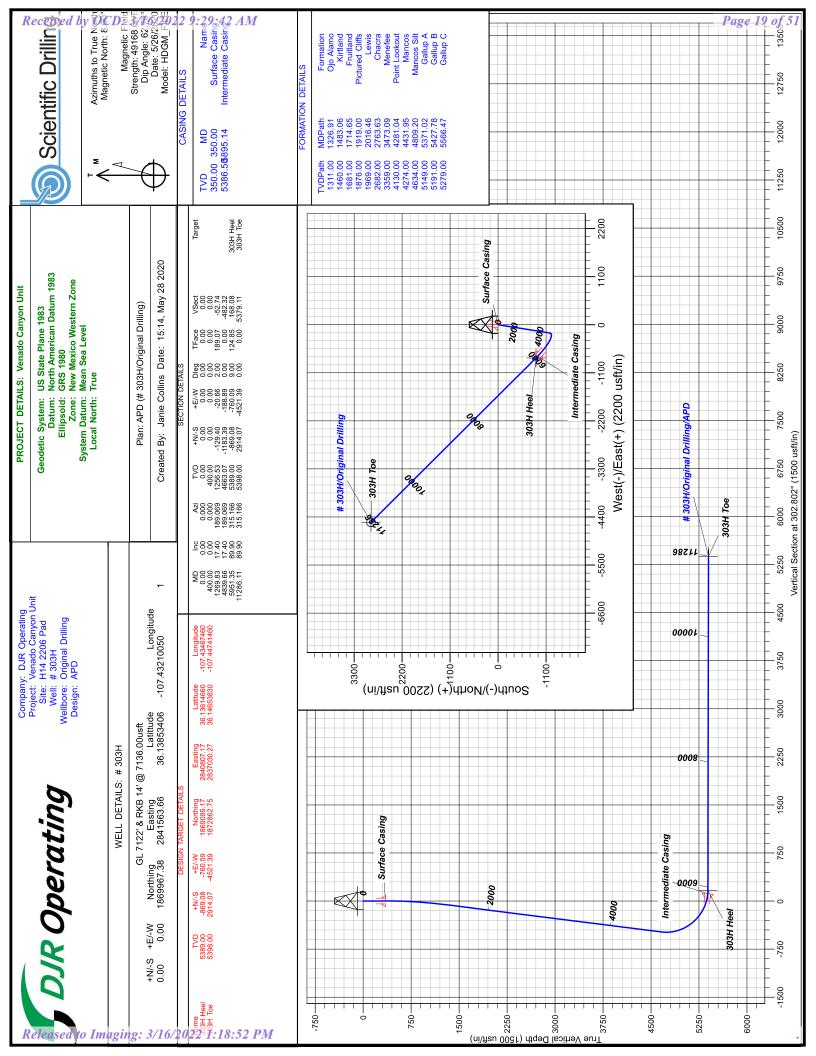
Choke Manifold



Closed Loop Mud System









DJR Operating

Venado Canyon Unit H14 2206 Pad # 303H - Slot 1

Original Drilling

Plan: APD

Standard Planning Report

28 May, 2020



Planning Report

Database: Company: Project: Site: Well: Wellbore: Design: Project	DJR DJR Operating Venado Canyon Unit H14 2206 Pad # 303H Original Drilling APD Venado Canyon Unit				TVD Refer MD Refere North Refe	Local Co-ordinate Reference:Well # 303H - Slot 1TVD Reference:GL 7122' & RKB 14' @ 7136.00usftMD Reference:GL 7122' & RKB 14' @ 7136.00usftNorth Reference:TrueSurvey Calculation Method:Minimum Curvature				
Map System: Geo Datum: Map Zone:	US State F North Ame	Plane 1983 rican Datum co Western Zo			System Dat	um:	Μ	ean Sea Level		
Site	H14 2206	6 Pad								
Site Position: From: Position Uncertainty	Lat/Lo		Norti Easti) usft Slot	-		046.75 usft 573.62 usft 13.20 in	Latitude: Longitude: Grid Conver	gence:		36.13875198 -107.43206567 0.24 °
Well	# 303H -	Slot 1								
Well Position Position Uncertainty	+N/-S -79.33 usft Northing: +E/-W -10.28 usft Easting:			asting:	ition:	1,869,967.38 2,841,563.66	usft Lo	litude: ngitude: ound Level:		36.13853406 -107.43210050 7,122.00 usft
Wellbore	Original	Drilling								
Magnetics	Model Name Sample Date			le Date	•			Angle °)	Field Stre (nT)	-
	H	HDGM_FILE		5/26/2020		8.60		62.78	49,168	.6000000
Design Audit Notes: Version:	APD		Pha		PLAN		On Depth:		0.00	
Vertical Section:		D	epth From (T (usft)	'VD)	+N/-S (usft)	(นะ	/-W sft)		rection (°)	
			0.00		0.00	0.	00	30	02.802	
Plan Survey Tool Pr Depth From (usft) 1 0.00	Depth (usft)		5/28/2020 (Wellbore) riginal Drilling)	Tool Name MWD+HDGM OWSG MWD -	+ HDGM	Remarks			
	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00 400.00 1,269.83 4,839.66 5,951.35 11,286.11	0.00 0.00 17.40 17.40 89.90 89.90	0.000 0.000 189.069 189.069 315.166 315.166	0.00 400.00 1,256.53 4,663.07 5,389.00 5,398.00	0.00 0.00 -129.40 -1,183.39 -869.08 2,914.08	0.00 0.00 -20.66 -188.89 -760.09 -4,521.39	0.00 0.00 2.00 0.00 9.00 0.00	0.00 0.00 2.00 0.00 6.52 0.00	0.00 0.00 0.00 11.34	0.00 0.00 189.07 0.00 124.85 30 0.00 30	

5/28/2020 3:11:17PM

Released to Imaging: 3/16/2022 1:18:52 PM



Planning Report

Database:	DJR	Local Co-ordinate Reference:	Well # 303H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Project:	Venado Canyon Unit	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site:	H14 2206 Pad	North Reference:	True
Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned 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)
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	189.069	499.98	-1.72	-0.28	-0.70	2.00	2.00	0.00
600.00	4.00	189.069	599.84	-6.89	-1.10	-2.81	2.00	2.00	0.00
700.00	6.00	189.069	699.45	-15.50	-2.47	-6.32	2.00	2.00	0.00
800.00	8.00	189.069	798.70	-27.53	-4.39	-11.22	2.00	2.00	0.00
900.00	10.00	189.069	897.47	-42.98	-6.86	-17.52	2.00	2.00	0.00
1,000.00	12.00	189.069	995.62	-61.82	-9.87	-25.20	2.00	2.00	0.00
1,100.00	14.00	189.069	1,093.06	-84.03	-13.41	-34.25	2.00	2.00	0.00
1,200.00	16.00	189.069	1,189.64	-109.59	-17.49	-44.67	2.00	2.00	0.00
1,269.83	17.40	189.069	1,256.53	-129.40	-20.66	-52.74	2.00	2.00	0.00
1,300.00	17.40	189.069	1,285.32	-138.31	-22.08	-56.37	0.00	0.00	0.00
1,400.00	17.40	189.069	1,380.74	-167.84	-26.79	-68.41	0.00	0.00	0.00
1,400.00	17.40	189.069	1,360.74	-107.84 -197.36	-26.79 -31.50	-80.44	0.00	0.00	0.00
1,600.00	17.40	189.069	1,571.59	-226.89	-36.21	-92.47	0.00	0.00	0.00
1,700.00 1,800.00	17.40 17.40	189.069 189.069	1,667.02 1,762.45	-256.41 -285.93	-40.93 -45.64	-104.51 -116.54	0.00 0.00	0.00 0.00	0.00 0.00
1,900.00	17.40	189.069	1,857.87	-315.46	-50.35	-128.57	0.00	0.00	0.00
2,000.00	17.40	189.069	1,953.30	-344.98	-55.07	-140.61	0.00	0.00	0.00
2,100.00	17.40	189.069	2,048.72	-374.51	-59.78	-152.64	0.00	0.00	0.00
2,200.00	17.40	189.069	2,144.15	-404.03	-64.49	-164.67	0.00	0.00	0.00
2,300.00	17.40	189.069	2,239.57	-433.56	-69.20	-176.71	0.00	0.00	0.00
2,400.00	17.40	189.069	2,335.00	-463.08	-73.92	-188.74	0.00	0.00	0.00
2,500.00	17.40	189.069	2,430.43	-492.61	-78.63	-200.77	0.00	0.00	0.00
2,600.00	17.40	189.069	2,525.85	-522.13	-83.34	-212.81	0.00	0.00	0.00
2,700.00	17.40	189.069	2,621.28	-551.66	-88.05	-224.84	0.00	0.00	0.00
2,800.00	17.40	189.069	2,716.70	-581.18	-92.77	-236.88	0.00	0.00	0.00
2,900.00	17.40	189.069	2,812.13	-610.71	-97.48	-248.91	0.00	0.00	0.00
3,000.00	17.40	189.069	2,907.55	-640.23	-102.19	-260.94	0.00	0.00	0.00
3,100.00	17.40	189.069	3,002.98	-669.76	-106.90	-272.98	0.00	0.00	0.00
3,200.00			3,098.41			-285.01	0.00	0.00	0.00
3,200.00	17.40 17.40	189.069 189.069	3,193.83	-699.28 -728.81	-111.62 -116.33	-285.01	0.00	0.00	0.00
3,400.00	17.40	189.069	3,289.26	-758.33	-121.04	-309.08	0.00	0.00	0.00
3,500.00	17.40	189.069	3,384.68	-787.86	-125.76	-321.11	0.00	0.00	0.00
3,600.00	17.40	189.069	3,480.11	-817.38	-130.47	-333.14	0.00	0.00	0.00
3,700.00	17.40	189.069	3,575.53	-846.91	-135.18	-345.18	0.00	0.00	0.00
3,800.00	17.40	189.069	3,670.96	-876.43	-139.89	-357.21	0.00	0.00	0.00
3,900.00	17.40	189.069	3,766.39	-905.96	-144.61	-369.24	0.00	0.00	0.00
4,000.00	17.40	189.069	3,861.81	-935.48	-149.32	-381.28	0.00	0.00	0.00
4,100.00	17.40	189.069	3,957.24	-965.01	-154.03	-393.31	0.00	0.00	0.00
4,200.00	17.40	189.069	4,052.66	-994.53	-158.74	-405.34	0.00	0.00	0.00
4,300.00	17.40	189.069	4,148.09	-1,024.06	-163.46	-417.38	0.00	0.00	0.00
4,400.00	17.40	189.069	4,243.52	-1,053.58	-168.17	-429.41	0.00	0.00	0.00
4,400.00	17.40	189.069	4,338.94	-1,083.11	-172.88	-441.45	0.00	0.00	0.00
4,600.00	17.40	189.069	4,434.37	-1,112.63	-172.00	-453.48	0.00	0.00	0.00
4,700.00	17.40	189.069	4,529.79	-1,142.16	-182.31	-465.51	0.00	0.00	0.00
4,700.00	17.40	189.069	4,625.22	-1,171.68	-187.02	-477.55	0.00	0.00	0.00
4,839.66	17.40	189.069	4,663.07	-1,183.39	-188.89	-482.32	0.00	0.00	0.00
4,900.00	14.95	206.587	4,721.05	-1,199.27	-193.80	-486.80	9.00	-4.05	29.03
5,000.00	14.82	242.149	4,817.89	-1,216.82	-210.91	-481.91	9.00	-0.13	35.56
5,100.00	19.35	269.078	4,913.60	-1,223.07	-238.84	-461.83	9.00	4.53	26.93

5/28/2020 3:11:17PM

Released to Imaging: 3/16/2022 1:18:52 PM

Page 3

COMPASS 5000.15 Build 91D

.



Planning Report

Database:	DJR	Local Co-ordinate Reference:	Well # 303H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Project:	Venado Canyon Unit	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site:	H14 2206 Pad	North Reference:	True
Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned 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)
5,200.00	26.23	284.275	5,005.82	-1,217.88	-276.90	-427.03	9.00	6.88	15.20
5,300.00	34.05	293.198	5,092.27	-1,201.37	-324.14	-378.37	9.00	7.83	8.92
5,400.00	42.30	299.043	5,170.84	-1,173.95	-379.41	-317.06	9.00	8.25	5.85
5,500.00	50.77	303.265	5,239.58	-1,136.29	-441.35	-244.60	9.00	8.47	4.22
5,600.00	59.36	306.567	5,296.81	-1,089.32	-508.42	-162.78	9.00	8.59	3.30
5,700.00	68.01	309.324	5,341.11	-1,034.20	-578.98	-73.61	9.00	8.66	2.76
5,800.00	76.71	311.762	5,371.39	-972.28	-651.29	20.72	9.00	8.70	2.44
5,900.00	85.42	314.030	5,386.91	-905.09	-723.57	117.87	9.00	8.72	2.27
5,951.35	89.90	315.166	5,389.00	-869.08	-760.09	168.08	9.00	8.72	2.21
6,000.00	89.90	315.166	5,389.08	-834.57	-794.39	215.60	0.00	0.00	0.00
6,100.00	89.90	315.166	5,389.25	-763.66	-864.90	313.28	0.00	0.00	0.00
0,100.00	00.00	010.100			-004.00	010.20			
6,200.00	89.90	315.166	5,389.42	-692.74	-935.40	410.96	0.00	0.00	0.00
6,300.00	89.90	315.166	5,389.59	-621.83	-1,005.91	508.64	0.00	0.00	0.00
6,400.00	89.90	315.166	5,389.76	-550.91	-1,076.41	606.32	0.00	0.00	0.00
6,500.00	89.90	315.166	5,389.93	-480.00	-1,146.92	704.00	0.00	0.00	0.00
6,600.00	89.90	315.166	5,390.09	-409.08	-1,217.42	801.68	0.00	0.00	0.00
6,700.00	89.90	315.166	5,390.26	-338.17	-1,287.93	899.37	0.00	0.00	0.00
6,800.00	89.90	315.166	5,390.43	-267.25	-1,358.44	997.05	0.00	0.00	0.00
6,900.00	89.90	315.166	5,390.60	-196.34	-1,428.94	1,094.73	0.00	0.00	0.00
7,000.00	89.90	315.166	5,390.77	-125.42	-1,499.45	1,192.41	0.00	0.00	0.00
7,100.00	89.90	315.166	5,390.94	-54.51	-1,569.95	1,290.09	0.00	0.00	0.00
7 200 00	89.90	215 166	5,391.11	16.41	-1,640.46	1 207 77	0.00	0.00	0.00
7,200.00		315.166			,	1,387.77			
7,300.00	89.90	315.166	5,391.28	87.32	-1,710.96	1,485.45	0.00	0.00	0.00
7,400.00	89.90	315.166	5,391.44	158.24	-1,781.47	1,583.13	0.00	0.00	0.00
7,500.00	89.90	315.166	5,391.61	229.15	-1,851.97	1,680.81	0.00	0.00	0.00
7,600.00	89.90	315.166	5,391.78	300.07	-1,922.48	1,778.49	0.00	0.00	0.00
7,700.00	89.90	315.166	5,391.95	370.98	-1,992.99	1,876.17	0.00	0.00	0.00
7,800.00	89.90	315.166	5,392.12	441.90	-2,063.49	1,973.85	0.00	0.00	0.00
7,900.00	89.90	315.166	5,392.29	512.81	-2,134.00	2,071.53	0.00	0.00	0.00
8,000.00	89.90	315.166	5,392.46	583.73	-2,204.50	2,071.55	0.00	0.00	0.00
8,100.00	89.90	315.166	5,392.40	654.64	-2,204.30	2,109.21	0.00	0.00	0.00
8,100.00	69.90	515.100	5,592.02	054.04	-2,275.01	2,200.09		0.00	0.00
8,200.00	89.90	315.166	5,392.79	725.56	-2,345.51	2,364.58	0.00	0.00	0.00
8,300.00	89.90	315.166	5,392.96	796.47	-2,416.02	2,462.26	0.00	0.00	0.00
8,400.00	89.90	315.166	5,393.13	867.39	-2,486.52	2,559.94	0.00	0.00	0.00
8,500.00	89.90	315.166	5,393.30	938.30	-2,557.03	2,657.62	0.00	0.00	0.00
8,600.00	89.90	315.166	5,393.47	1,009.22	-2,627.53	2,755.30	0.00	0.00	0.00
8,700.00	89.90	315.166	5,393.64	1,080.13	-2,698.04	2,852.98	0.00	0.00	0.00
8,800.00	89.90	315.166	5,393.81	1,151.05	-2,768.55	2,950.66	0.00	0.00	0.00
8,900.00	89.90	315.166	5,393.97	1,221.96	-2,839.05	3,048.34	0.00	0.00	0.00
9,000.00	89.90	315.166	5,394.14	1,292.88	-2,909.56	3,146.02	0.00	0.00	0.00
9,100.00	89.90	315.166	5,394.31	1,363.79	-2,980.06	3,243.70	0.00	0.00	0.00
9,200.00	89.90	315.166	5,394.48	1,434.71	-3,050.57	3,341.38	0.00	0.00	0.00
9,200.00	89.90	315.166	5,394.48	1,434.71	-3,030.37	3,439.06	0.00	0.00	0.00
9,400.00	89.90	315.166	5,394.82	1,576.54	-3,191.58	3,536.74	0.00	0.00	0.00
9,500.00	89.90	315.166	5,394.99	1,647.45	-3,262.08	3,634.42	0.00	0.00	0.00
9,600.00	89.90	315.166	5,395.16	1,718.37	-3,332.59	3,732.10	0.00	0.00	0.00
9,700.00	89.90	315.166	5,395.32	1,789.28	-3,403.10	3,829.78	0.00	0.00	0.00
9,800.00	89.90	315.166	5,395.49	1,860.20	-3,473.60	3,927.47	0.00	0.00	0.00
9,900.00	89.90	315.166	5,395.66	1,931.11	-3,544.11	4,025.15	0.00	0.00	0.00
10,000.00	89.90	315.166	5,395.83	2,002.03	-3,614.61	4,122.83	0.00	0.00	0.00
10,100.00	89.90	315.166	5,396.00	2,072.94	-3,685.12	4,220.51	0.00	0.00	0.00
,									
10,200.00	89.90	315.166	5,396.17	2,143.86	-3,755.62	4,318.19	0.00	0.00	0.00
10,300.00	89.90	315.166	5,396.34	2,214.77	-3,826.13	4,415.87	0.00	0.00	0.00
10,400.00	89.90	315.166	5,396.51	2,285.69	-3,896.63	4,513.55	0.00	0.00	0.00

5/28/2020 3:11:17PM

Page 4

COMPASS 5000.15 Build 91D

.



Planning Report

Database:	DJR	Local Co-ordinate Reference:	Well # 303H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Project:	Venado Canyon Unit	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site:	H14 2206 Pad	North Reference:	True
Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		

Planned 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	89.90	315.166	5,396.67	2,356.60	-3,967.14	4,611.23	0.00	0.00	0.00
10,600.00	89.90	315.166	5,396.84	2,427.52	-4,037.65	4,708.91	0.00	0.00	0.00
10,700.00	89.90	315.166	5,397.01	2,498.43	-4,108.15	4,806.59	0.00	0.00	0.00
10,800.00	89.90	315.166	5,397.18	2,569.35	-4,178.66	4,904.27	0.00	0.00	0.00
10,900.00	89.90	315.166	5,397.35	2,640.26	-4,249.16	5,001.95	0.00	0.00	0.00
11,000.00	89.90	315.166	5,397.52	2,711.18	-4,319.67	5,099.63	0.00	0.00	0.00
11,100.00	89.90	315.166	5,397.69	2,782.09	-4,390.17	5,197.31	0.00	0.00	0.00
11,200.00	89.90	315.166	5,397.85	2,853.01	-4,460.68	5,294.99	0.00	0.00	0.00
11,286.11	89.90	315.166	5,398.00	2,914.08	-4,521.39	5,379.11	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
303H Heel - plan hits target cent - Circle (radius 50.00		0.000	5,389.00	-869.08	-760.09	1,869,095.17	2,840,807.17	36.13614660	-107.43467460
303H Toe - plan hits target cent - Circle (radius 100.0		0.000	5,398.00	2,914.08	-4,521.39	1,872,862.76	2,837,030.27	36.14653830	-107.44741460

Casi	ing Points							
		Measured Depth (usft)	Vertical Depth (usft)	Na	me	Casing Diameter (in)	Hole Diameter (in)	
		350.00 5,895.14	350.00 5,386.50	Surface Casing Intermediate Casing		9.62 7.00	12.25 8.75	

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,326.91	1,311.00	Ojo Alamo		0.00	0.000
	1,483.06	1,460.00	Kirtland		0.00	0.000
	1,714.65	1,681.00	Fruitland		0.00	0.000
	1,919.00	1,876.00	Pictured Cliffs		0.00	0.000
	2,016.46	1,969.00	Lewis		0.00	0.000
	2,763.63	2,682.00	Chacra		0.00	0.000
	3,473.09	3,359.00	Menefee		0.00	0.000
	4,281.04	4,130.00	Point Lookout		0.00	0.000
	4,431.95	4,274.00	Mancos		0.00	0.000
	4,809.20	4,634.00	Mancos Silt		0.00	0.000
	5,371.02	5,149.00	Gallup A		0.00	0.000
	5,427.78	5,191.00	Gallup B		0.00	0.000
	5,566.47	5,279.00	Gallup C		0.00	0.000

5/28/2020 3:11:17PM

Released to Imaging: 3/16/2022 1:18:52 PM



Planning Report

Database:	DJR	Local Co-ordinate Reference:	Well # 303H - Slot 1
Company:	DJR Operating	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Project:	Venado Canyon Unit	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site:	H14 2206 Pad	North Reference:	True
Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD		



DJR Operating

Venado Canyon Unit H14 2206 Pad # 303H

Original Drilling APD

Anticollision Report

28 May, 2020



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum
		_	
Reference	APD		

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria						
Interpolation Method:	Stations	Error Model:	ISCWSA				
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D				
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Pedal Curve				
Warning Levels Evaluate	ed at: 2.00 Sigma	Casing Method:	Not applied				

Survey Tool Program		Date 5/28/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	11,286.11	APD (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
H14 2206 Pad						
# 301H - Original Drilling - APD	400.00	400.00	59.91	57.45	24.360	CC, ES
# 301H - Original Drilling - APD	11,286.11	10,367.78	1,230.11	944.95	4.314	SF
# 302H - Original Drilling - APD	400.00	400.00	79.99	77.53	32.529	CC, ES
# 302H - Original Drilling - APD	700.00	689.53	109.78	105.24	24.175	SF
# 304H - Original Drilling - APD	400.00	400.00	40.04	37.58	16.283	CC
# 304H - Original Drilling - APD	1,000.00	1,008.19	41.01	34.38	6.187	ES
# 304H - Original Drilling - APD	1,100.00	1,108.24	43.16	35.77	5.840	SF
# 503H - Original Drilling - APD	400.00	400.00	19.88	17.42	8.085	CC, ES
# 503H - Original Drilling - APD	11.286.11	10.485.80	768.07	519.17	3.086	SF

Offset De	•)6 Pad - <i>‡</i>	# 301H - Ori	ginal Drill	ing - APD							Offset Site Error:	0.00 us
urvey Prog		WD+HDGM											Offset Well Error:	0.00 us
Refer	ence	Offse	et	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	7.57	59.38	7.89	59.91					
100.00	100.00	100.00	100.00	0.15	0.15	7.57	59.38	7.89	59.91	59.60	0.31	194.317		
200.00	200.00	200.00	200.00	0.51	0.51	7.57	59.38	7.89	59.91	58.88	1.03	58.431		
300.00	300.00	300.00	300.00	0.87	0.87	7.57	59.38	7.89	59.91	58.16	1.74	34.385		
400.00	400.00	400.00	400.00	1.23	1.23	7.57	59.38	7.89	59.91	57.45	2.46	24.360 CC	, ES	
500.00	499.98	500.31	500.31	1.57	1.58	178.75	59.14	8.08	61.44	58.29	3.15	19.507		
600.00	599.84	600.20	600.19	1.91	1.91	179.33	58.53	8.56	66.13	62.31	3.82	17.295		
700.00	699.45	699.85	699.85	2.26	2.25	179.84	57.92	9.04	74.31	69.80	4.51	16.466		
800.00	798.70	799.17	799.16	2.62	2.60	-179.76	57.31	9.51	85.97	80.76	5.21	16.496		
900.00	897.47	898.01	898.00	3.00	2.95	-179.47	56.70	9.99	101.09	95.18	5.92	17.087		
1,000.00	995.62	996.27	996.25	3.41	3.29	-179.27	56.10	10.46	119.66	113.03	6.63	18.061		
1,100.00	1,093.06	1,093.81	1,093.80	3.83	3.64	-179.15	55.50	10.93	141.64	134.30	7.34	19.305		
1,200.00	1,189.64	1,190.54	1,190.51	4.29	3.98	-179.07	54.90	11.39	167.01	158.96	8.05	20.745		
1,269.83	1,256.53	1,257.53	1,257.50	4.62	4.22	-179.04	54.49	11.71	186.73	178.17	8.55	21.834		
1,300.00	1,285.32	1,286.36	1,286.34	4.77	4.32	-179.04	54.31	11.85	195.59	186.82	8.77	22.306		
1,400.00	1,380.74	1,381.94	1,381.92	5.28	4.66	-179.02	53.73	12.31	224.99	215.51	9.48	23.741		
1,500.00	1,476.17	1,477.52	1,477.49	5.79	5.00	-179.00	53.14	12.77	254.39	244.20	10.19	24.965		
1,600.00	1,571.59	1,573.11	1,573.07	6.31	5.34	-178.99	52.55	13.23	283.78	272.88	10.91	26.018		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Irvey Progr		WD+HDGM	-4	Comi Maion	Aula				Dista				Offset Well Error:	0.00 ι
Refere easured	Vertical	Offs Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista	nce Between	Minimum	Constation		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S	+E/-W	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Separation Factor	Warning	
							(usft)	(usft)						
1,700.00	1,667.02	1,668.69	1,668.65	6.84	5.68	-178.98	51.97	13.69	313.18	301.55	11.63	26.934		
1,800.00	1,762.45	1,764.27	1,764.23	7.37	6.02	-178.97	51.38	14.15	342.58	330.23	12.35	27.737		
1,900.00	1,857.87	1,859.85	1,859.81	7.90	6.36	-178.97	50.79	14.61	371.97	358.90	13.08	28.446		
2,000.00	1,953.30	1,955.43	1,955.39	8.44	6.70	-178.96	50.20	15.06	401.37	387.57	13.80	29.077		
2,100.00	2,048.72	2,051.01	2,050.97	8.98	7.04	-178.96	49.62	15.52	430.77	416.23	14.53	29.641		
2,200.00	2,144.15	2,146.60	2,146.54	9.53	7.39	-178.95	49.03	15.98	460.16	444.90	15.26	30.149		
2,300.00	2,239.57	2,242.18	2,242.12	10.07	7.73	-178.95	48.44	16.44	489.56	473.56	15.99	30.608		
2,400.00	2,335.00	2,337.76	2,337.70	10.62	8.07	-178.94	47.86	16.90	518.96	502.23	16.73	31.025		
2,500.00	2,430.43	2,433.34	2,433.28	11.17	8.41	-178.94	47.27	17.36	548.35	530.89	17.46	31.405		
2,600.00	2,525.85	2,528.92	2,528.86	11.72	8.75	-178.94	46.68	17.82	577.75	559.55	18.20	31.753		
2,700.00	2,621.28	2,624.50	2,624.44	12.27	9.10	-178.94	46.10	18.28	607.15	588.22	18.93	32.073		
2,800.00	2,716.70	2,720.09	2,720.02	12.82	9.44	-178.93	45.51	18.73	636.54	616.88	19.67	32.368		
2,900.00	2,812.13	2,815.67	2,815.60	13.37	9.78	-178.93	44.92	19.19	665.94	645.54	20.40	32.641		
3,000.00	2,907.55	2,911.25	2,911.17	13.92	10.12	-178.93	44.33	19.65	695.34	674.20	21.14	32.894		
3,100.00	3,002.98	3,006.83	3,006.75	14.47	10.47	-178.93	43.75	20.11	724.73	702.86	21.88	33.129		
3,200.00	3,098.41	3,102.41	3,102.33	15.02	10.81	-178.93	43.16	20.57	754.13	731.52	22.61	33.349		
3,300.00	3,193.83	3,197.99	3,197.91	15.58	11.15	-178.92	42.57	21.03	783.53	760.17	23.35	33.554		
3,400.00	3,289.26	3,293.58	3,293.49	16.13	11.49	-178.92	41.99	21.05	812.92	788.83	24.09	33.745		
3,500.00	3,384.68	3,389.16	3,389.07	16.69	11.84	-178.92	41.40	21.95	842.32	817.49	24.83	33.925		
3,600.00	3,480.11	3,484.74	3,484.65	17.24	12.18	-178.92	40.81	21.33	871.71	846.15	24.03	34.094		
3,700.00	3,575.53	3,580.32	3,580.23	17.79	12.10	-178.92	40.22	22.40	901.11	874.80	26.31	34.254		
3,800.00	3,670.96	3,675.90	3,675.80	18.35	12.86	-178.92	39.64	23.32	930.51	903.46	27.05	34.404		
3,900.00	3,766.39	3,771.48	3,771.38	18.91	13.21	-178.92	39.05	23.78	959.90	932.12	27.79	34.546		
4,000.00	3,861.81	3,867.06	3,866.96	19.46	13.55	-178.92	38.46	24.24	989.30	960.77	28.53	34.680		
4,100.00	3,957.24	3,962.65	3,962.54	20.02	13.89	-178.92	37.88	24.70	1,018.70	989.43	29.27	34.807		
4,200.00	4,052.66	4,058.23	4,058.12	20.57	14.23	-178.92	37.29	25.16	1,048.09	1,018.09	30.01	34.928		
4,300.00	4,148.09	4,153.81	4,153.70	21.13	14.58	-178.91	36.70	25.62	1,077.49	1,046.74	30.75	35.043		
4,400.00	4,243.52	4,249.39	4,249.28	21.68	14.92	-178.91	36.12	26.07	1,106.89	1,075.40	31.49	35.152		
4,500.00	4,338.94	4,344.97	4,344.85	22.24	15.26	-178.91	35.53	26.53	1,136.28	1,104.05	32.23	35.255		
4,600.00	4,434.37	4,440.55	4,440.43	22.80	15.61	-178.91	34.94	26.99	1,165.68	1,132.71	32.97	35.354		
4,700.00	4,529.79	4,536.14	4,536.01	23.35	15.95	-178.91	34.35	27.45	1,195.08	1,161.36	33.71	35.449		
4,800.00	4,625.22	4,631.72	4,631.59	23.91	16.29	-178.91	33.77	27.91	1,224.47	1,190.02	34.45	35.539		
4,839.66	4,663.07	4,669.63	4,669.50	24.13	16.43	-178.91	33.53	28.09	1,236.13	1,201.38	34.75	35.574		
4,850.00	4,672.94	4,679.52	4,679.39	24.10	16.46	178.35	33.47	28.14	1,239.13	1,204.30	34.82	35.582		
4,900.00	4,721.05	4,727.68	4,727.55	24.45	16.63	163.11	33.18	28.37	1,252.33	1,217.14	35.19	35.586		
4,950.00	4,769.46	4,756.58	4,756.45	24.69	16.74	145.26	33.00	28.51	1,263.52	1,228.10	35.41	35.681		
5,000.00	4,817.89	4,788.35	4,788.22	24.89	16.85	127.46	33.37	28.11	1,273.18	1,237.55	35.63	35.732		
5,050.00	4,866.03	4,800.00	4,799.85	25.07	16.89	112.25	33.79	27.68	1,281.77	1,246.09	35.68	35.927		
5,100.00	4,913.60	4,833.64	4,833.35	25.22	17.00	100.92	35.85	25.62	1,288.90	1,253.03	35.87	35.929		
5,150.00	4,960.29	4,850.00	4,849.58	25.35	17.05	92.55	37.31	24.16	1,294.89	1,258.98	35.91	36.056		
5,200.00	5,005.82	4,878.90	4,878.11	25.46	17.14	86.64	40.62	20.89	1,299.54	1,263.49	36.05	36.049		
5,250.00	5,049.90	4,900.00	4,898.78	25.54	17.21	82.28	43.61	17.93	1,302.94	1,266.83	36.11	36.081		
5,300.00	5,092.27	4,924.13	4,922.24	25.60	17.29	79.16	47.63	13.95	1,305.08	1,268.87	36.20	36.048		
5,350.00	5,132.67	4,950.00	4,947.13	25.65	17.37	76.94	52.64	9.01	1,305.97	1,269.65	36.32	35.953		
5,400.00	5,170.84	4,969.30	4,965.50	25.67	17.44	75.28	56.85	4.86	1,305.64	1,269.24	36.40	35.869		
5,450.00	5,206.55	5,000.00	4,994.33	25.68	17.54	74.37	64.36	-2.54	1,304.18	1,267.55	36.62	35.609		
5,500.00	5,239.58	5,014.39	5,007.66	25.68	17.58	73.57	68.22	-6.34	1,301.48	1,264.75	36.73	35.438		
5,550.00	5,269.73	5,036.88	5,028.24	25.66	17.66	73.29	74.68	-0.34	1,297.74	1,260.78	36.96	35.108		
5,600.00	5,296.81	5,050.00	5,040.10	25.63	17.00	73.09	78.68	-16.65	1,293.04	1,255.88	37.17	34.790		
5,650.00	5,320.65	5,081.73	5,068.27	25.59	17.81	73.62	89.09	-26.89	1,293.04	1,235.68	37.65	34.790 34.192		
5,700.00	5,341.11	5,100.00	5,084.15	25.54	17.87	74.07	95.53	-33.23	1,280.68	1,249.02	38.06	33.645		
5,750.00	5,358.06	5,126.34	5,106.56	25.48	17.97	74.95	105.38	-42.92	1,273.29	1,234.63		32.939		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

ffset Des	-		06 Pau - 4	# 301H - Ori	ginal Dhi	ing - Ai D							Offset Site Error:	0.00 ι
rvey Progr		ND+HDGM		0									Offset Well Error:	0.00 u
Refere		Offs		Semi Major Reference		Higheide	Offect Walls	ro Contro	Dista		Minimum	Sonaration		
easured 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	
												00.404		
5,800.00	5,371.39	5,150.00	5,126.20	25.42	18.05	75.97	114.79	-52.17	1,265.21	1,225.91	39.30	32.191		
5,850.00 5,900.00	5,381.03 5,386.91	5,170.57 5,200.00	5,142.86 5,166.01	25.36 25.32	18.13 18.25	77.09 78.67	123.38 136.34	-60.62 -73.36	1,256.55 1,247.45	1,216.55 1,206.58	40.00 40.87	31.410 30.519		
5,951.35	5,389.00	5,200.00	5,177.35	25.32	18.23	79.95	143.16	-80.06	1,247.45	1,196.00	40.87	29.697		
6,000.00	5,389.08	5,236.73	5,193.68	25.56	18.41	80.71	153.57	-90.29	1,228.97	1,186.40	42.57	28.871		
6,100.00	5,389.25	5,287.42	5,229.48	26.88	18.66	82.38	179.15	-115.43	1,214.95	1,170.39	44.56	27.263		
6,200.00	5,389.42	5,350.00	5,269.57	28.48	19.02	84.27	213.41	-149.08	1,205.72	1,158.92	46.80	25.763		
6,300.00	5,389.59	5,415.87	5,306.45	30.22	19.49	86.02	252.32	-187.30	1,200.49	1,151.30	49.19	24.406		
6,400.00	5,389.76	5,495.29	5,343.14	32.07	20.17	87.77	302.54	-236.60	1,198.26	1,146.41	51.85	23.109		
6,473.00	5,389.88	5,559.54	5,366.23	33.48	20.84	88.87	345.31	-278.59	1,197.90	1,143.90	54.00	22.185		
6,500.00	5,389.93	5,584.50	5,373.55	34.01	21.13	89.22	362.34	-295.30	1,197.94	1,143.11	54.83	21.849		
6,600.00	5,390.09	5,681.35	5,392.96	36.03	22.37	90.14	430.00	-361.69	1,198.47	1,140.35	58.12	20.620		
6,700.00	5,390.26	5,781.77	5,398.07	38.11	23.85	90.37	501.53	-431.87	1,199.17	1,137.49	61.68	19.442		
6,800.00	5,390.43	5,881.77	5,398.38	40.25	25.50	90.38	572.92	-501.89	1,199.84	1,134.39	65.45	18.333		
6,900.00	5,390.60	5,981.77	5,398.69	42.43	27.28	90.39	644.30	-571.92	1,200.51	1,131.11	69.41	17.297		
7,000.00	5,390.77	6,081.77	5,399.00	44.66	29.19	90.39	715.69	-641.94	1,201.19	1,127.66	73.53	16.336		
7,100.00	5,390.94	6,181.76	5,399.31	46.92	31.19	90.40	787.07	-711.96	1,201.86	1,124.07	77.79	15.450		
7,200.00	5,391.11	6,281.76	5,399.62	49.22	33.27	90.41	858.46	-781.99	1,202.54	1,120.37	82.16	14.636		
7,300.00	5,391.28	6,381.76	5,399.93	51.54	35.42	90.41	929.85	-852.01	1,203.21	1,116.58	86.63	13.889		
7,400.00	5,391.44	6,481.76	5,400.24	53.88	37.62	90.42	1,001.23	-922.04	1,203.89	1,112.71	91.18	13.204		
7,500.00	5,391.61	6,581.75	5,400.54	56.24	39.87	90.43	1,072.62	-992.06	1,204.56	1,108.77	95.79	12.575		
7,600.00	5,391.78	6,681.75	5,400.85	58.63	42.16	90.43	1,144.01	-1,062.09	1,205.24	1,104.77	100.46	11.997		
7,700.00	5,391.95	6,781.75	5,401.16	61.03	44.48	90.44	1,215.39	-1,132.11	1,205.91	1,100.73	105.18	11.465		
7,800.00	5,392.12	6,881.75	5,401.47	63.44	46.82	90.44	1,286.78	-1,202.14	1,206.58	1,096.64	109.95	10.974		
7,900.00	5,392.29	6,981.74	5,401.78	65.86	49.19	90.45	1,358.16	-1,272.16	1,207.26	1,092.51	114.75	10.521		
8,000.00	5,392.46	7,081.74	5,402.09	68.30	51.58	90.46	1,429.55	-1,342.18	1,207.93	1,088.36	119.58	10.102		
8,100.00	5,392.62	7,181.74	5,402.40	70.75	53.99	90.46	1,500.94	-1,412.21	1,208.61	1,084.17	124.44	9.712		
8,200.00	5,392.79	7,281.74	5,402.71	73.21	56.42	90.47	1,572.32	-1,482.23	1,209.28	1,079.96	129.32	9.351		
8,300.00	5,392.96	7,381.74	5,403.02	75.68	58.85	90.48	1,643.71	-1,552.26	1,209.96	1,075.73	134.23	9.014		
8,400.00	5,393.13	7,481.73	5,403.33	78.15	61.30	90.48	1,715.10	-1,622.28	1,210.63	1,071.47	139.16	8.700		
8,500.00	5,393.30	7,581.73	5,403.64	80.63	63.76	90.49	1,786.48	-1,692.31	1,211.31	1,067.20	144.10	8.406		
8,600.00	5,393.47	7,681.73	5,403.95	83.12	66.23	90.50	1,857.87	-1,762.33	1,211.98	1,062.92	149.06	8.131		
8,700.00	5,393.64	7,781.73	5,404.26	85.61	68.71	90.50	1,929.26	-1,832.36	1,212.66	1,058.62	154.04	7.872		
8,800.00	5,393.81	7,881.72	5,404.57	88.11	71.19	90.51	2,000.64	-1,902.38	1,213.33	1,054.30	159.03	7.630		
8,900.00	5,393.97	7,981.72	5,404.88	90.62	73.68	90.52	2,072.03	-1,972.40	1,214.00	1,049.98	164.02	7.401		
9,000.00	5,394.14	8,081.72	5,405.19	93.12	76.18	90.52	2,143.41	-2,042.43	1,214.68	1,045.65	169.03	7.186		
9,100.00	5,394.31	8,181.72	5,405.50	95.64	78.68	90.53	2,214.80	-2,112.45	1,215.35	1,041.30	174.05	6.983		
9,200.00	5,394.48	8,281.71	5,405.81	98.15	81.19	90.53	2,286.19	-2,182.48	1,216.03	1,036.95	179.08	6.790		
9,300.00	5,394.65	8,381.71	5,406.12	100.67	83.70	90.54	2,357.57	-2,252.50	1,216.70	1,032.59	184.12	6.608		
9,400.00	5,394.82	8,481.71	5,406.43	103.20	86.22	90.55	2,428.96	-2,322.53	1,217.38	1,028.22	189.16	6.436		
9,500.00	5,394.99	8,581.71	5,406.73	105.73	88.74	90.55	2,500.35	-2,392.55	1,218.05	1,023.84	194.21	6.272		
9,600.00	5,395.16	8,681.70	5,407.04	108.26	91.26	90.56	2,571.73	-2,462.58	1,218.73	1,019.46	199.27	6.116		
9,700.00	5,395.32	8,781.70	5,407.35	110.79	93.79	90.57	2,643.12	-2,532.60	1,219.40	1,015.07	204.33	5.968		
9,800.00	5,395.49	8,881.70	5,407.66	113.32	96.32	90.57	2,714.50	-2,602.63	1,220.08	1,010.68	209.40	5.827		
9,900.00	5,395.66	8,981.70	5,407.97	115.86	98.85	90.58	2,785.89	-2,672.65	1,220.75	1,006.28	214.47	5.692		
0,000.00	5,395.83	9,081.70	5,408.28	118.40	101.39	90.58	2,857.28	-2,742.67	1,221.43	1,001.88	219.55	5.563		
0,100.00	5,396.00	9,181.69	5,408.59	120.94	103.92	90.59	2,928.66	-2,812.70	1,222.10	997.47	224.63	5.440		
0,200.00	5,396.17	9,281.69	5,408.90	123.49	106.46	90.60	3,000.05	-2,882.72	1,222.78	993.06	229.72	5.323		
0,300.00	5,396.34	9,381.69	5,409.21	126.03	109.00	90.60	3,071.44	-2,952.75	1,223.45	988.65	234.81	5.210		
0,400.00	5,396.51	9,481.69	5,409.52	128.58	111.55	90.61	3,142.82	-3,022.77	1,224.13	984.23	239.90	5.103		
10,500.00	5,396.67	9,581.68	5,409.83	131.13	114.09	90.62	3,214.21	-3,092.80	1,224.80	979.81	245.00	4.999		
0,600.00	5,396.84	9,681.68	5,410.14	133.68	116.64									



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset Des	sign	H14 220	06 Pad - <i>‡</i>	# 301H - Ori	ginal Dril	ing - APD							Offset Site Error:	0.00 usft
Survey Progr	am: 0-M	WD+HDGM											Offset Well Error:	0.00 usft
Refere	Reference Offset Semi Major Axis Distance													
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,700.00	5,397.01	9,781.68	5,410.45	136.23	119.19	90.63	3,356.98	-3,232.85	1,226.15	970.95	255.20	4.805		
10,800.00	5,397.18	9,881.68	5,410.76	138.79	121.74	90.63	3,428.37	-3,302.87	1,226.83	966.52	260.30	4.713		
10,900.00	5,397.35	9,981.67	5,411.07	141.34	124.29	90.64	3,499.75	-3,372.89	1,227.50	962.09	265.41	4.625		
11,000.00	5,397.52	10,081.67	5,411.38	143.90	126.84	90.65	3,571.14	-3,442.92	1,228.18	957.66	270.52	4.540		
11,100.00	5,397.69	10,181.67	5,411.69	146.46	129.39	90.65	3,642.53	-3,512.94	1,228.85	953.22	275.63	4.458		
11,200.00	5,397.85	10,281.67	5,412.00	149.01	131.95	90.66	3,713.91	-3,582.97	1,229.53	948.78	280.75	4.379		
11,286.11	5,398.00	10,367.78	5,412.26	151.22	134.15	90.66	3,775.39	-3,643.27	1,230.11	944.95	285.15	4.314 SF	-	



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

ffset De	-		00 Pad - 1	# 302H - Ori	ginal Dril	iing - APD							Offset Site Error:	0.00
rvey Progr		WD+HDGM											Offset Well Error:	0.00
Refere		Offs		Semi Major					Dista			•		
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbo +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	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	7.39	79.33	10.28	79.99					
100.00	100.00	100.00	100.00	0.15	0.15	7.39	79.33	10.28	79.99	79.68	0.31	259.472		
200.00	200.00	200.00	200.00	0.51	0.51	7.39	79.33	10.28	79.99	78.97	1.03	78.023		
300.00	300.00	300.00	300.00	0.87	0.87	7.39	79.33	10.28	79.99	78.25	1.74	45.915		
400.00	400.00	400.00	400.00	1.23	1.23	7.39	79.33	10.28	79.99	77.53	2.46	32.529 0	C, ES	
500.00	499.98	497.38	497.36	1.57	1.58	177.91	80.92	9.85	83.31	80.15	3.15	26.415		
600.00	599.84	594.10	593.95	1.91	1.93	176.86	85.67	8.55	93.25	89.40	3.85	24.244		
700.00	699.45	689.53	689.04	2.26	2.28	175.53	93.43	6.42	109.78	105.24	4.54	24.175 \$	8F	
800.00	798.70	783.61	782.47	2.62	2.62	174.22	104.03	3.51	132.80	127.56	5.23	25.381		
900.00	897.47	879.72	877.77	3.00	2.98	173.24	115.99	0.24	160.34	154.40	5.94	27.015		
1,000.00	995.62	974.81	972.07	3.41	3.34	172.66	127.81	-3.01	191.21	184.57	6.64	28.805		
1,100.00	1,093.06	1,068.79	1,065.27	3.83	3.70	172.32	139.50	-6.21	225.37	218.03	7.34	30.710		
1,200.00	1,189.64	1,161.53	1,157.23	4.29	4.06	172.15	151.04	-9.37	262.76	254.72	8.04	32.678		
1,269.83	1,256.53	1,225.50	1,220.67	4.62	4.31	172.09	158.99	-11.55	290.76	282.23	8.53	34.079		
1,300.00	1,285.32	1,252.99	1,247.93	4.77	4.42	172.11	162.41	-12.49	303.19	294.45	8.74	34.675		
1,400.00	1,380.74	1,344.11	1,338.28	5.28	4.77	172.16	173.74	-15.60	344.39	334.96	9.43	36.515		
1,500.00	1,476.17	1,435.22	1,428.64	5.79	5.13	172.21	185.08	-18.70	385.59	375.47	10.12	38.086		
1,600.00	1,571.59	1,526.34	1,519.00	6.31	5.49	172.24	196.41	-21.81	426.79	415.97	10.82	39.439		
1,700.00	1,667.02	1,617.46	1,609.35	6.84	5.84	172.27	207.74	-24.92	468.00	456.47	11.52	40.615		
1,800.00	1,762.45	1,708.58	1,699.71	7.37	6.20	172.30	219.08	-28.02	509.20	496.97	12.23	41.647		
1,900.00	1,857.87	1,799.69	1,790.07	7.90	6.56	172.32	230.41	-31.13	550.40	537.47	12.93	42.559		
2,000.00	1,953.30	1,890.81	1,880.42	8.44	6.92	172.33	241.74	-34.24	591.60	577.96	13.64	43.369		
2,100.00	2,048.72	1,981.93	1,970.78	8.98	7.28	172.35	253.07	-37.34	632.80	618.45	14.35	44.093		
2,200.00	2,144.15	2,073.05	2,061.14	9.53	7.64	172.35	264.41	-40.45	674.00	658.94	15.06	44.745		
2,200.00	2,144.15	2,073.05 2,164.16	2,061.14 2,151.49	9.53	8.00	172.30	204.41	-40.45	715.21	699.43	15.06	44.745		
2,400.00	2,335.00	2,255.28	2,241.85	10.62	8.36	172.39	287.07	-46.66	756.41	739.92	16.49	45.869		
2,500.00	2,430.43	2,346.40	2,332.21	11.17	8.72	172.39	298.41	-49.77	797.61	780.41	17.21	46.357		
2,600.00	2,430.43		2,332.21		9.08	172.39	309.74			820.89		46.803		
	2,525.65	2,437.52 2,528.63	2,422.56	11.72 12.27		172.40	309.74	-52.88 -55.98	838.81 880.02	861.38	17.92 18.64	40.803		
2,700.00 2,800.00	2,021.20	2,528.03	2,603.28	12.27	9.44 9.80	172.41	332.40	-59.09	921.22	901.86	19.36	47.213		
2,800.00	2,716.70	2,019.75	2,603.28	12.02	9.80	172.42	343.74	-59.09	921.22	901.80 942.34	20.08	47.591 47.940		
3,000.00	2,907.55	2,801.98	2,783.99	13.92	10.52	172.43	355.07	-65.30	1,003.62	982.83	20.79	48.264		
3,100.00	3,002.98	2,893.10	2,874.34	14.47	10.88	172.44	366.40	-68.41	1,044.82	1,023.31	21.51	48.564		
3,200.00	3,098.41	2,984.22	2,964.70	15.02	11.24	172.44	377.74	-71.52	1,086.03	1,063.79	22.23	48.844		
3,300.00 3,400.00	3,193.83 3,289.26	3,075.34 3,166.45	3,055.06 3,145.41	15.58 16.13	11.60 11.97	172.45 172.45	389.07 400.40	-74.62 -77.73	1,127.23 1,168.43	1,104.27 1,144.75	22.96 23.68	49.106 49.351		
	5,209.20	5,100.45		10.13	11.97		400.40	-11.13	1,100.43	1,144.75	23.00	49.001		
3,500.00	3,384.68	3,257.57	3,235.77	16.69	12.33	172.45	411.73	-80.84	1,209.63	1,185.23	24.40	49.580		
3,600.00	3,480.11	3,348.69	3,326.13	17.24	12.69	172.46	423.07	-83.94	1,250.83	1,225.71	25.12	49.795		
3,700.00	3,575.53	3,439.81	3,416.48	17.79	13.05	172.46	434.40	-87.05	1,292.04	1,266.19	25.84	49.998		
3,800.00	3,670.96	3,530.92	3,506.84	18.35 18.91	13.41 13.77	172.47 172.47	445.73	-90.16 -93.26	1,333.24	1,306.67	26.56 27.29	50.189 50.369		
3,900.00	3,766.39	3,622.04	3,597.20	10.91	13.11	112.41	457.06	-93.20	1,374.44	1,347.15	21.29	50.509		
4,000.00	3,861.81	3,713.16	3,687.55	19.46	14.13	172.47	468.40	-96.37	1,415.64	1,387.63	28.01	50.539		
4,100.00	3,957.24	3,804.28	3,777.91	20.02	14.49	172.47	479.73	-99.48	1,456.85	1,428.11	28.73	50.700		
4,200.00	4,052.66	3,895.39	3,868.27	20.57	14.86	172.48	491.06	-102.58	1,498.05	1,468.59	29.46	50.853		
4,300.00	4,148.09	3,986.51	3,958.62	21.13	15.22	172.48	502.40	-105.69	1,539.25	1,509.07	30.18	50.998		
4,400.00	4,243.52	4,077.63	4,048.98	21.68	15.58	172.48	513.73	-108.80	1,580.45	1,549.55	30.91	51.136		
4,500.00	4,338.94	4,168.75	4,139.34	22.24	15.94	172.48	525.06	-111.90	1,621.65	1,590.02	31.63	51.267		
4,600.00	4,434.37	6,346.43	5,393.22	22.80	33.03	-149.15	-211.74	736.30	1,601.94	1,557.49	44.45	36.041		
4,700.00	4,529.79	6,363.37	5,393.10	23.35	33.38	-148.50	-223.73	748.25	1,566.76	1,520.17	46.59	33.628		
4,800.00	4,625.22	6,380.30	5,392.98	23.91	33.73	-147.86	-235.73	760.19	1,537.10	1,488.40	48.70	31.561		
4,839.66	4,663.07	6,387.01	5,392.94	24.13	33.87	-147.60	-240.49	764.93	1,526.94	1,477.42	49.52	30.833		
4 950 00	4 670 04	6 200 60	E 202.02	04.40	22.04	140.00	044 67	700 14	1 604 45	1 171 74	40.70	20.050		
4,850.00	4,672.94	6,388.68	5,392.93	24.19	33.91	-149.82	-241.67	766.11	1,524.45	1,474.71	49.73	30.652		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

ffset De	-		06 Pad - #	# 302H - Ori	ginal Dril	ling - APD							Offset Site Error:	0.00
rvey Prog		WD+HDGM											Offset Well Error:	0.00
Refer		Offs		Semi Major Reference		Higheide	Offect Walls	o Contro	Dista		Minimum	Sonaration		
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface	Offset Wellbor +N/-S	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
						(°)	(usft)	(usft)						
4,900.00	4,721.05	6,394.40	5,392.89	24.45	34.02	-162.89	-245.72	770.14	1,513.21	1,462.53	50.68	29.857		
4,950.00	4,769.46	6,396.20	5,392.87	24.69	34.06	-179.07	-247.00	771.42	1,503.49	1,451.98	51.51	29.191		
5,000.00	4,817.89	6,394.08	5,392.89	24.89	34.02	164.29	-245.49	769.92	1,495.37	1,443.18	52.19	28.652		
5,050.00	4,866.03	6,388.05	5,392.93	25.07	33.89	149.98	-241.22	765.66	1,488.92	1,436.19	52.73	28.236		
5,100.00	4,913.60	6,378.14	5,393.00	25.22	33.69	138.90	-234.20	758.67	1,484.16	1,431.04	53.12	27.939		
5,150.00	4,960.29	6,364.42	5,393.09	25.35	33.41	130.55	-224.48	748.99	1,481.05	1,427.69	53.36	27.757		
5,200.00	5,005.82	6,346.97	5,393.21	25.46	33.05	124.12	-212.11	736.67	1,479.52	1,426.07	53.44	27.684		
5,227.29	5,030.07	6,335.91	5,393.29	25.50	32.82	121.19	-204.28	728.87	1,479.31	1,425.88	53.43	27.689		
5,250.00	5,049.90	6,325.89	5,393.36	25.54	32.61	118.99	-197.19	721.80	1,479.45	1,426.07	53.38	27.715		
5,300.00	5,092.27	6,301.33	5,393.53	25.60	32.11	114.71	-179.78	704.47	1,480.69	1,427.51	53.18	27.843		
5,350.00	5,132.67	6,273.43	5,393.72	25.65	31.55	111.02	-160.01	684.78	1,483.06	1,430.19	52.87	28.050		
5,400.00	5,170.84	6,242.36	5,393.94	25.67	30.94	107.76	-138.00	662.85	1,486.36	1,433.90	52.46	28.333		
5,450.00	5,206.55	6,208.31	5,394.18	25.68	30.26	104.82	-113.88	638.82	1,490.37	1,438.41	51.96	28.683		
5,500.00	5,239.58	6,171.49	5,394.43	25.68	29.56	102.17	-87.79	612.84	1,494.87	1,443.45	51.42	29.073		
5,550.00	5,269.73	6,132.14	5,394.70	25.66	28.82	99.77	-59.91	585.07	1,499.62	1,448.78	50.84	29.497		
5,600.00	5,296.81	6,090.49	5,394.99	25.63	28.05	97.62	-30.40	555.68	1,504.41	1,454.16	50.25	29.937		
5,650.00	5,320.65	6,046.80	5,395.29	25.59	27.28	95.73	0.55	524.85	1,509.03	1,459.33	49.70	30.364		
5,700.00	5,341.11	6,001.33	5,395.29 5,395.61	25.59	26.48	94.10	32.76	492.77	1,513.28	1,464.11	49.17	30.304		
5,750.00	5,358.06	5,954.38	5,395.93	25.48	25.72	92.75	66.03	459.63	1,517.00	1,468.27	48.72	31.134		
5,800.00	5,371.39	5,906.23	5,396.27	25.42	24.95	91.69	100.15	425.65	1,520.04	1,471.70	48.33	31.448		
5,850.00	5,381.03	5,857.17	5,396.61	25.36	24.33	90.92	134.90	391.03	1,520.04	1,474.23	48.06	31.675		
5,050.00	5,501.05	3,037.17	3,330.01	20.00	24.22	30.32	154.50	391.05	1,522.25	1,474.20	40.00	51.075		
5,900.00	5,386.91	5,807.51	5,396.95	25.32	23.51	90.46	170.09	355.99	1,523.66	1,475.80	47.86	31.838		
5,951.35	5,389.00	5,747.50	5,395.17	25.32	22.73	90.23	212.47	313.57	1,523.99	1,476.34	47.64	31.989		
6,000.00	5,389.08	5,690.08	5,388.23	25.56	22.04	89.97	252.51	273.03	1,523.53	1,475.99	47.54	32.048		
6,100.00	5,389.25	5,578.21	5,360.18	26.88	20.93	88.90	327.82	195.41	1,521.98	1,474.26	47.72	31.893		
6,200.00	5,389.42	5,478.74	5,319.72	28.48	20.21	87.37	390.23	129.52	1,520.45	1,472.05	48.39	31.420		
0.007.04	5 000 50	F 440.07	5 000 04	00.04	10.01	00.00	404.44	00.00	4 500 04	4 470 00	40.05	00.000		
6,267.24	5,389.53	5,419.97	5,289.34	29.64	19.91	86.22	424.44	92.66	1,520.04	1,470.99	49.05	30.988		
6,300.00	5,389.59	5,393.70	5,274.30	30.22	19.80	85.65	438.99	76.79	1,520.16	1,470.74	49.41	30.765		
6,400.00	5,389.76	5,322.56	5,229.25	32.07	19.57	83.95	475.85	35.96	1,522.30	1,471.64	50.65	30.054		
6,500.00	5,389.93	5,263.55	5,187.43	34.01	19.43	82.37	503.36	4.75	1,527.85	1,475.85	52.00	29.381		
6,600.00	5,390.09	5,214.61	5,149.95	36.03	19.34	80.96	523.87	-19.10	1,537.55	1,484.16	53.39	28.798		
6,700.00	5,390.26	5,173.81	5,116.95	38.11	19.27	79.73	539.29	-37.46	1,551.87	1,497.10	54.77	28.335		
6,800.00	5,390.43	5,139.54	5,088.09	40.25	19.21	78.65	551.01	-51.76	1,571.10	1,515.01	56.10	28.006		
6,900.00	5,390.60	5,100.00	5,053.63	42.43	19.14	77.38	563.07	-66.91	1,595.42	1,538.14	57.28	27.851		
7,000.00	5,390.77	5,085.69	5,040.87	44.66	19.11	76.91	567.05	-72.04	1,624.64	1,566.13	58.51	27.765		
7,100.00	5,390.94	5,064.29	5,021.54	46.92	19.07	76.20	572.60	-79.32	1,658.83	1,599.26	59.57	27.848		
7,200.00	5,391.11	5,050.00	5,008.46	49.22	19.05	75.72	576.05	-83.94	1,697.75	1,637.21	60.54	28.044		
7,300.00	5,391.28	5,029.42	4,989.41	51.54	19.01	75.02	580.63	-90.23	1,741.15	1,679.81	61.34	28.385		
7,400.00	5,391.44	5,015.06	4,975.98	53.88	18.98	74.54	583.55	-94.37	1,788.80	1,726.74	62.06	28.824		
7,500.00	5,391.61	5,000.00	4,961.77	56.24	18.95	74.02	586.39	-98.48	1,840.41	1,777.75	62.66	29.370		
7,600.00	5,391.78	5,000.00	4,961.77	58.63	18.95	74.02	586.39	-98.48	1,895.75	1,832.49	63.26	29.970		
7,700.00	5,391.95	4,980.72	4,943.42	61.03	18.91	73.36	589.66	-103.41	1,954.35	1,890.72	63.63	30.714		
7,800.00	5,391.95	4,980.72	4,943.42 4,934.58	61.03	18.91	73.36	589.66 591.08	-103.41 -105.63	2,016.14	1,890.72	63.99	30.714 31.508		
7,900.00	5,392.12	4,971.50	4,934.58 4,913.84	65.86	18.84	73.04	591.08	-105.65	2,016.14	2,016.73	64.19	32.417		
3,000.00	5,392.29	4,950.00	4,913.84	68.30	18.84	72.30	594.04 594.04	-110.45	2,080.92	2,016.73	64.19	32.417		
8,100.00	5,392.46	4,950.00	4,913.84 4,913.84	70.75	18.84	72.30	594.04 594.04	-110.45	2,148.07	2,083.60	64.69	34.282		
0,100.00	0,002.02	4,000.00	4,010.04	10.15	10.04	12.00	004.04	- 110.43	2,211.10	2,100.01	04.08	04.202		
8,200.00	5,392.79	4,950.00	4,913.84	73.21	18.84	72.30	594.04	-110.45	2,289.58	2,224.72	64.86	35.302		
8,300.00	5,392.96	4,950.00	4,913.84	75.68	18.84	72.30	594.04	-110.45	2,363.51	2,298.53	64.98	36.372		
8,400.00	5,393.13	4,930.90	4,895.27	78.15	18.79	71.65	596.24	-114.33	2,438.99	2,374.03	64.97	37.542		
8,500.00	5,393.30	4,925.88	4,890.37	80.63	18.78	71.47	596.75	-115.28	2,516.29	2,451.29	65.00	38.712		
8,600.00	5,393.47	4,921.22	4,885.81	83.12	18.77	71.31	597.20	-116.14	2,595.10	2,530.09	65.01	39.917		
8,700.00	5,393.64	4,900.00	4,864.98	85.61	18.71	70.58	598.94	-119.77	2,675.53	2,610.62	64.91	41.217		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset De	sign	H14 220	06 Pad - #	# 302H - Ori	ginal Drill	ing - APD							Offset Site Error:	0.00 usft
Survey Prog		WD+HDGM											Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista					
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	
8,800.00	5,393.81	4,900.00	4,864.98	88.11	18.71	70.58	598.94	-119.77	2,756.90	2,691.98	64.91	42.469		
8,900.00	5,393.97	4,900.00	4,864.98	90.62	18.71	70.58	598.94	-119.77	2,839.45	2,774.55	64.90	43.751		
9,000.00	5,394.14	4,900.00	4,864.98	93.12	18.71	70.58	598.94	-119.77	2,923.09	2,858.22	64.87	45.058		
9,100.00	5,394.31	4,900.00	4,864.98	95.64	18.71	70.58	598.94	-119.77	3,007.73	2,942.89	64.84	46.390		
9,200.00	5,394.48	4,900.00	4,864.98	98.15	18.71	70.58	598.94	-119.77	3,093.29	3,028.50	64.79	47.743		
9,300.00	5,394.65	4,900.00	4,864.98	100.67	18.71	70.58	598.94	-119.77	3,179.69	3,114.95	64.74	49.117		
9,400.00	5,394.82	4,900.00	4,864.98	103.20	18.71	70.58	598.94	-119.77	3,266.86	3,202.19	64.68	50.509		
9,500.00	5,394.99	4,900.00	4,864.98	105.73	18.71	70.58	598.94	-119.77	3,354.76	3,290.14	64.62	51.918		
9,600.00	5,395.16	4,900.00	4,864.98	108.26	18.71	70.58	598.94	-119.77	3,443.31	3,378.76	64.55	53.342		
9,700.00	5,395.32	4,900.00	4,864.98	110.79	18.71	70.58	598.94	-119.77	3,532.47	3,467.99	64.48	54.781		
9,800.00	5,395.49	4,900.00	4,864.98	113.32	18.71	70.58	598.94	-119.77	3,622.20	3,557.79	64.41	56.233		
9,900.00	5,395.66	4,900.00	4,864.98	115.86	18.71	70.58	598.94	-119.77	3,712.46	3,648.11	64.34	57.697		
10,000.00	5,395.83	4,900.00	4,864.98	118.40	18.71	70.58	598.94	-119.77	3,803.20	3,738.93	64.27	59.171		
10,100.00	5,396.00	4,877.41	4,842.68	120.94	18.65	69.80	600.25	-123.10	3,893.96	3,829.85	64.11	60.737		
10,200.00	5,396.17	4,875.56	4,840.84	123.49	18.65	69.74	600.33	-123.35	3,985.51	3,921.47	64.04	62.239		
10,300.00	5,396.34	4,873.79	4,839.09	126.03	18.64	69.68	600.41	-123.58	4,077.44	4,013.48	63.96	63.748		
10,400.00	5,396.51	4,872.10	4,837.42	128.58	18.64	69.62	600.48	-123.80	4,169.75	4,105.86	63.89	65.266		
10,500.00	5,396.67	4,850.00	4,815.48	131.13	18.58	68.86	601.08	-126.39	4,262.75	4,199.02	63.73	66.887		
10,600.00	5,396.84	4,850.00	4,815.48	133.68	18.58	68.86	601.08	-126.39	4,355.66	4,291.99	63.67	68.412		
10,700.00	5,397.01	4,850.00	4,815.48	136.23	18.58	68.86	601.08	-126.39	4,448.88	4,385.28	63.61	69.943		
10,800.00	5,397.18	4,850.00	4,815.48	138.79	18.58	68.86	601.08	-126.39	4,542.39	4,478.84	63.55	71.480		
10,900.00	5,397.35	4,850.00	4,815.48	141.34	18.58	68.86	601.08	-126.39	4,636.17	4,572.68	63.49	73.022		
11,000.00	5,397.52	4,850.00	4,815.48	143.90	18.58	68.86	601.08	-126.39	4,730.21	4,666.77	63.43	74.569		
11,100.00	5,397.69	4,850.00	4,815.48	146.46	18.58	68.86	601.08	-126.39	4,824.48	4,761.10	63.38	76.121		
11,200.00	5,397.85	4,850.00	4,815.48	149.01	18.58	68.86	601.08	-126.39	4,918.98	4,855.66	63.33	77.677		
11,286.11	5,398.00	4,850.00	4,815.48	151.22	18.58	68.86	601.08	-126.39	5,000.53	4,937.25	63.28	79.020		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

ffset De	-		00 Fau - 7	# 304H - Ori	gina Dii	ing 74 D							Offset Site Error:	
Irvey Prog		WD+HDGM											Offset Well Error:	0.00
Refer		Offs		Semi Major		1 Parks and a	0		Dista			0		
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	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	7.21	39.73	5.03	40.04					
100.00	100.00	100.00	100.00	0.15	0.15	7.21	39.73	5.03	40.04	39.73	0.31	129.888		
200.00	200.00	200.00	200.00	0.51	0.51	7.21	39.73	5.03	40.04	39.02	1.03	39.057		
300.00	300.00	300.00	300.00	0.87	0.87	7.21	39.73	5.03	40.04	38.30	1.74	22.984		
400.00	400.00	400.00	400.00	1.23	1.23	7.21	39.73	5.03	40.04	37.58	2.46	16.283 CC	2	
401.20	401.20	401.22	401.22	1.23	1.23	178.15	39.73	5.03	40.04	37.58	2.47	16.229		
500.00	499.98	501.40	501.37	1.57	1.58	177.79	38.01	4.50	40.04	36.90	3.15	12.718		
600.00	599.84	602.79	602.62	1.91	1.92	176.73	32.86	2.93	40.06	36.23	3.82	10.482		
700.00	699.45	704.17	703.59	2.26	2.28	174.97	24.30	0.32	40.11	35.60	4.51	8.899		
800.00	798.70	805.53	804.18	2.62	2.64	172.51	12.32	-3.34	40.24	35.04	5.20	7.736		
900.00	897.47	906.87	904.23	3.00	3.03	169.40	-3.05	-8.04	40.52	34.61	5.91	6.859		
1,000.00	995.62	1,008.19	1,003.63	3.41	3.44	165.67	-21.79	-13.76	41.01	34.38	6.63	6.187 ES	3	
1,100.00	1,093.06	1,108.24	1,101.38	3.83	3.87	162.33	-42.20	-19.99	43.16	35.77	7.39	5.840 SF	:	
1,200.00	1,189.64	1,208.07	1,198.91	4.29	4.30	160.74	-62.58	-26.22	48.71	40.54	8.17	5.964		
1,269.83	1,256.53	1,277.66	1,266.89	4.62	4.61	160.56	-76.78	-30.56	54.54	45.83	8.72	6.258		
1,300.00	1,285.32	1,307.69	1,296.23	4.77	4.74	160.63	-82.91	-32.43	57.41	48.45	8.95	6.412		
1,400.00	1,380.74	1,407.24	1,393.48	5.28	5.19	160.82	-103.23	-38.63	66.91	57.17	9.74	6.869		
1,500.00	1,476.17	1,506.78	1,490.74	5.79	5.64	160.97	-123.55	-44.84	76.41	65.87	10.54	7.252		
1,600.00	1,571.59	1,606.33	1,587.99	6.31	6.09	161.08	-143.87	-51.05	85.91	74.57	11.34	7.578		
1,700.00	1,667.02	1,705.88	1,685.25	6.84	6.54	161.17	-164.19	-57.25	95.41	83.27	12.14	7.858		
1,800.00	1,762.45	1,805.43	1,782.50	7.37	7.00	161.24	-184.51	-63.46	104.92	91.96	12.95	8.100		
1,900.00	1,857.87	1,904.97	1,879.75	7.90	7.46	161.30	-204.83	-69.66	114.42	100.65	13.76	8.313		
2,000.00	1,953.30	2,004.52	1,977.01	8.44	7.92	161.36	-225.15	-75.87	123.92	109.34	14.58	8.500		
2,100.00	2,048.72	2,104.07	2,074.26	8.98	8.38	161.40	-245.47	-82.08	133.42	118.03	15.40	8.666		
2,200.00	2,144.15	2,203.61	2,171.51	9.53	8.84	161.44	-265.79	-88.28	142.93	126.71	16.21	8.814		
2,300.00	2,239.57	2,303.16	2,268.77	10.07	9.31	161.47	-286.11	-94.49	152.43	135.39	17.04	8.948		
2,400.00	2,335.00	2,402.71	2,366.02	10.62	9.77	161.50	-306.43	-100.70	161.93	144.07	17.86	9.068		
2,500.00	2,430.43	2,502.26	2,463.28	11.17	10.24	161.53	-326.74	-106.90	171.43	152.75	18.68	9.178		
2,600.00	2,525.85	2,601.80	2,560.53	11.72	10.70	161.55	-347.06	-113.11	180.94	161.43	19.50	9.277		
2,700.00	2,621.28	2,701.35	2,657.78	12.27	11.17	161.58	-367.38	-119.31	190.44	170.11	20.33	9.368		
2,800.00	2,716.70	2,800.90	2,755.04	12.82	11.63	161.60	-387.70	-125.52	199.94	178.79	21.15	9.452		
2,900.00	2,812.13	2,900.45	2,852.29	13.37	12.10	161.61	-408.02	-131.73	209.44	187.47	21.98	9.529		
3,000.00	2,907.55	2,999.99	2,949.54	13.92	12.57	161.63	-428.34	-137.93	218.95	196.14	22.81	9.601		
3,100.00	3,002.98	3,099.54	3,046.80	14.47	13.03	161.64	-448.66	-144.14	228.45	204.82	23.63	9.667		
3,200.00	3,098.41	3,199.09	3,144.05	15.02	13.50	161.66	-468.98	-150.34	237.95	213.49	24.46	9.728		
3,300.00	3,193.83	3,298.64	3,241.31	15.58	13.97	161.67	-489.30	-156.55	247.46	222.17	25.29	9.785		
3,400.00	3,289.26	3,398.18	3,338.56	16.13	14.44	161.68	-509.62	-162.76	256.96	230.84	26.12	9.839		
3,500.00	3,384.68	3,497.73	3,435.81	16.69	14.90	161.69	-529.94	-168.96	266.46	239.52	26.95	9.889		
3,600.00	3,480.11	3,597.28	3,533.07	17.24	14.30	161.70	-550.26	-175.17	275.97	248.19	20.33	9.936		
3,700.00	3,575.53	3,696.83	3,630.32	17.79	15.84	161.71	-570.58	-181.38	285.47	256.86	28.61	9.980		
3,800.00	3,670.96	3,796.37	3,727.57	18.35	16.31	161.72	-590.90	-187.58	294.97	265.54	29.43	10.021		
3,900.00	3,766.39	3,895.92	3,824.83	18.91	16.78	161.73	-611.22	-193.79	304.47	274.21	30.27	10.060		
4,000.00	3,861.81	3,995.47	3,922.08	19.46	17.25	161.74	-631.54	-199.99	313.98	282.88	31.10	10.097		
4,100.00	3,957.24	4,095.02	4,019.34	20.02	17.72	161.74	-651.86	-206.20	323.48	291.55	31.93	10.132		
4,200.00	4,052.66	4,194.56	4,116.59	20.57	18.18	161.75	-672.18	-212.41	332.98	300.23	32.76	10.165		
4,300.00	4,148.09	4,294.11	4,213.84	21.13	18.65	161.76	-692.50	-218.61	342.49	308.90	33.59	10.197		
4,400.00	4,243.52	4,393.66	4,311.10	21.68	19.12	161.76	-712.82	-224.82	351.99	317.57	34.42	10.227		
4,400.00	4,243.52 4,338.94	4,393.00	4,311.10	21.00	19.12	161.76	-712.02	-224.62	361.49	317.57	34.42	10.227		
4,600.00	4,434.37	4,592.75	4,505.60	22.24	20.06	161.77	-753.46	-237.23	370.99	334.91	36.08	10.233		
4,700.00	4,529.79	4,692.30	4,602.86	23.35	20.53	161.78	-773.78	-243.44	380.50	343.58	36.91	10.308		
4,800.00	4,625.22	4,791.85	4,700.11	23.91	20.55	161.79	-794.10	-243.44	390.00	352.26	37.74	10.333		
					.	40.5		· ·-	···	o		40		
1,839.66	4,663.07	4,831.33	4,738.68	24.13	21.19	161.79	-802.16	-252.10	393.77	355.70	38.07	10.342		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

ffset Des	-		06 Pad - <i>‡</i>	+ 00411 - OII	gina Din									0.00
rvey Progr		ND+HDGM											Offset Well Error:	0.00 us
Refere easured	ence Vertical	Offs Measured	et Vertical	Semi Major		Highside	Offset Wellbor	o Contro	Dista Between	nce Between	Minimum	Sonarotion		
easured Depth (usft)	Depth (usft)	мeasured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S	+E/-W	Centres (usft)	Ellipses (usft)	Separation (usft)	Separation Factor	Warning	
							(usft)	(usft)						
4,850.00	4,672.94	4,841.63	4,748.74	24.19	21.23	159.23	-804.26	-252.75	394.69	356.53	38.16	10.343		
4,900.00	4,721.05	4,891.52	4,797.49	24.45	21.47	145.01	-814.44	-255.86	397.23	358.68	38.55	10.304		
4,950.00	4,769.46	4,972.49	4,876.18	24.69	21.86	129.23	-833.11	-258.67	395.40	356.45	38.95	10.153		
5,000.00	4,817.89	5,064.29	4,962.93	24.89	22.34	115.81	-862.38	-253.15	385.29	346.45	38.84	9.920		
5,050.00	4,866.03	5,143.08	5,033.96	25.07	22.77	107.26	-894.09	-240.94	368.25	329.85	38.40	9.589		
5,100.00	4,913.60	5,206.66	5,088.18	25.22	23.13	103.96	-923.79	-226.18	346.71	308.68	38.03	9.116		
5,150.00	4,960.29	5,255.66	5,127.71	25.35	23.42	104.45	-948.97	-211.92	323.30	285.25	38.05	8.497		
5,200.00	5,005.82	5,292.02	5,155.61	25.46	23.64	106.71	-968.85	-199.76	300.67	262.04	38.63	7.783		
5,250.00	5,049.90	5,317.97	5,174.72	25.54	23.80	109.10	-983.62	-190.29	281.43	241.63	39.80	7.071		
5,300.00	5,092.27	5,335.57	5,187.29	25.60	23.91	110.62	-993.90	-183.50	268.05	226.70	41.36	6.482		
5,350.00	5,132.67	5,346.51	5,194.93	25.65	23.98	110.87	-1,000.40	-179.13	262.55	219.61	42.94	6.115		
5,355.97	5,137.35	5,347.44	5,195.58	25.65	23.98	110.81	-1,000.95	-178.75	262.49	219.38	43.11	6.089		
5,400.00	5,170.84	5,352.15	5,198.82	25.67	24.01	109.75	-1,003.77	-176.83	266.05	221.89	44.15	6.026		
5,450.00	5,206.55	5,353.54	5,199.77	25.68	24.02	107.28	-1,004.61	-176.26	278.45	233.65	44.80	6.216		
5,500.00	5,239.58	5,350.00	5,197.34	25.68	24.00	103.22	-1,002.48	-177.71	298.65	253.81	44.84	6.660		
5,550.00	5,269.73	5,350.00	5,197.34	25.66	24.00	99.39	-1,002.48	-177.71	325.03	280.10	44.93	7.234		
5,600.00	5,296.81	5,339.51	5,190.06	25.63	23.93	92.88	-996.23	-181.94	355.88	311.46	44.42	8.011		
5,650.00	5,320.65	5,330.47	5,183.68	25.59	23.87	86.42	-990.90	-185.49	389.86	345.75	44.11	8.838		
5,700.00	5,341.11	5,319.85	5,176.08	25.54	23.81	79.67	-984.71	-189.58	425.81	381.94	43.87	9.707		
5,750.00	5,358.06	5,300.00	5,161.56	25.48	23.68	71.81	-973.34	-196.92	462.99	419.68	43.32	10.689		
5,800.00	5,371.39	5,300.00	5,161.56	25.42	23.68	67.32	-973.34	-196.92	500.48	456.59	43.89	11.404		
- 950 00	E 201 02	E 000 70	E 147.00	25.26	22 57	60.04	060 57	202.68	E37.06	404.20	40.67	10.010		
5,850.00	5,381.03	5,280.73	5,147.08	25.36	23.57	60.94	-962.57	-203.68	537.96	494.29	43.67	12.318		
5,900.00	5,386.91	5,265.84	5,135.64	25.32	23.48	55.91	-954.43	-208.65	575.07	531.31	43.76	13.141		
5,951.35	5,389.00	5,250.00	5,123.25	25.32	23.38	51.51	-945.96	-213.69	612.44	568.52	43.92	13.944		
6,000.00	5,389.08	5,234.79	5,111.13	25.56	23.29	50.45	-938.01	-218.30	647.95	603.87	44.08	14.698		
6,100.00	5,389.25	5,200.00	5,082.65	26.88	23.09	48.14	-920.51	-227.93	724.11	679.87	44.24	16.370		
6,200.00	5,389.42	5,182.26	5,067.74	28.48	22.99	47.02	-911.98	-232.36	803.63	758.88	44.75	17.960		
6,300.00	5,389.59	5,150.00	5,040.01	30.22	22.81	45.08	-897.15	-239.55	886.18	841.38	44.80	19.781		
6,400.00	5,389.76	5,150.00	5,040.01	32.07	22.81	45.08	-897.15	-239.55	970.85	925.44	45.41	21.379		
6,500.00	5,389.93	5,124.12	5,017.22	34.01	22.66	43.63	-885.93	-244.50	1,057.38	1,011.92	45.46	23.260		
6,600.00	5,390.09	5,100.00	4,995.59	36.03	22.53	42.34	-876.03	-248.46	1,145.67	1,100.16	45.51	25.176		
-,	-,	-,	.,						.,	.,				
6,700.00	5,390.26	5,100.00	4,995.59	38.11	22.53	42.34	-876.03	-248.46	1,235.13	1,189.30	45.83	26.948		
6,800.00	5,390.43	5,082.32	4,979.51	40.25	22.44	41.44	-869.11	-250.96	1,325.74	1,279.85	45.89	28.887		
6,900.00	5,390.60	5,070.93	4,969.06	42.43	22.38	40.88	-864.82	-252.39	1,417.34	1,371.34	46.00	30.814		
7,000.00	5,390.77	5,050.00	4,949.67	44.66	22.26	39.89	-857.26	-254.63	1,509.87	1,463.88	45.99	32.830		
7,100.00	5,390.94	5,050.00	4,949.67	46.92	22.26	39.89	-857.26	-254.63	1,602.87	1,556.72	46.15	34.732		
7,200.00	5,391.11	5,050.00	4,949.67	49.22	22.26	39.89	-857.26	-254.63	1,696.66	1,650.39	46.28	36.663		
7,300.00	5,391.28	5,050.00	4,949.67	51.54	22.26	39.89	-857.26	-254.63	1,791.13	1,744.75	46.38	38.618		
7,400.00	5,391.44	5,026.91	4,928.04	53.88	22.14	38.86	-849.43	-256.54	1,885.61	1,839.29	46.33	40.703		
7,500.00	5,391.61	5,020.05	4,921.56	56.24	22.11	38.56	-847.20	-256.99	1,980.77	1,934.40	46.37	42.718		
7,600.00	5,391.78	5,000.00	4,902.53	58.63	22.00	37.72	-840.97	-258.01	2,076.49	2,030.15	46.33	44.817		
7 700 00	E 204 05	E 000 00	4 000 50	04.00	20.00	07 70	040.07	050.04	0 470 04	0.405.04	10.10	40.044		
7,700.00	5,391.95	5,000.00	4,902.53	61.03	22.00	37.72	-840.97	-258.01	2,172.21	2,125.81	46.40	46.814		
7,800.00	5,392.12	5,000.00	4,902.53	63.44	22.00	37.72	-840.97	-258.01	2,268.31	2,221.85	46.46	48.824		
7,900.00	5,392.29	5,000.00	4,902.53	65.86	22.00	37.72	-840.97	-258.01	2,364.72	2,318.21	46.51	50.844		
8,000.00	5,392.46	5,000.00	4,902.53	68.30	22.00	37.72	-840.97	-258.01	2,461.43	2,414.87	46.55	52.873		
8,100.00	5,392.62	5,000.00	4,902.53	70.75	22.00	37.72	-840.97	-258.01	2,558.38	2,511.79	46.59	54.909		
8 200 00	5 302 70	5 000 00	1 002 52	70 04	22.00	37 70	.040.07	-250 04	2 655 57	2 600 04	16 63	56 054		
8,200.00	5,392.79 5 392 96	5,000.00	4,902.53	73.21	22.00	37.72	-840.97 -834.99	-258.01	2,655.57	2,608.94	46.63	56.951		
8,300.00	5,392.96	4,979.33	4,882.76	75.68	21.90	36.90	-834.99	-258.59	2,752.54	2,705.95	46.59	59.080 61.144		
8,400.00	5,393.13	4,975.53	4,879.10	78.15	21.88	36.75	-833.94	-258.64	2,849.95	2,803.33	46.61	61.144		
8,500.00	5,393.30	4,971.93	4,875.65	80.63	21.86	36.61	-832.96	-258.68	2,947.50	2,900.87	46.63	63.209		
8,600.00	5,393.47	4,950.00	4,854.47	83.12	21.75	35.80	-827.27	-258.58	3,045.51	2,998.92	46.59	65.363		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset De	sign	H14 220)6 Pad - 🕫	# 304H - Ori	ginal Drill	ling - APD							Offset Site Error:	0.00 usft
Survey Prog		WD+HDGM											Offset Well Error:	0.00 usft
		Offse		Semi Major Axis			Distance							
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	
8,800.00	5,393.81	4,950.00	4,854.47	88.11	21.75	35.80	-827.27	-258.58	3,241.07	3,194.42	46.65	69.469		
8,900.00	5,393.97	4,950.00	4,854.47	90.62	21.75	35.80	-827.27	-258.58	3,339.05	3,292.36	46.68	71.525		
9,000.00	5,394.14	4,950.00	4,854.47	93.12	21.75	35.80	-827.27	-258.58	3,437.14	3,390.43	46.71	73.583		
9,100.00	5,394.31	4,950.00	4,854.47	95.64	21.75	35.80	-827.27	-258.58	3,535.34	3,488.60	46.74	75.641		
9,200.00	5,394.48	4,950.00	4,854.47	98.15	21.75	35.80	-827.27	-258.58	3,633.64	3,586.87	46.77	77.700		
9,300.00	5,394.65	4,950.00	4,854.47	100.67	21.75	35.80	-827.27	-258.58	3,732.03	3,685.24	46.79	79.759		
9,400.00	5,394.82	4,950.00	4,854.47	103.20	21.75	35.80	-827.27	-258.58	3,830.50	3,783.68	46.82	81.817		
9,500.00	5,394.99	4,950.00	4,854.47	105.73	21.75	35.80	-827.27	-258.58	3,929.05	3,882.21	46.84	83.875		
9,600.00	5,395.16	4,950.00	4,854.47	108.26	21.75	35.80	-827.27	-258.58	4,027.67	3,980.80	46.87	85.932		
9,700.00	5,395.32	4,950.00	4,854.47	110.79	21.75	35.80	-827.27	-258.58	4,126.36	4,079.46	46.90	87.987		
9,800.00	5,395.49	4,950.00	4,854.47	113.32	21.75	35.80	-827.27	-258.58	4,225.11	4,178.18	46.92	90.041		
9,900.00	5,395.66	4,950.00	4,854.47	115.86	21.75	35.80	-827.27	-258.58	4,323.91	4,276.96	46.95	92.093		
10,000.00	5,395.83	4,950.00	4,854.47	118.40	21.75	35.80	-827.27	-258.58	4,422.77	4,375.79	46.98	94.143		
10,100.00	5,396.00	4,950.00	4,854.47	120.94	21.75	35.80	-827.27	-258.58	4,521.68	4,474.68	47.01	96.191		
10,200.00	5,396.17	4,931.46	4,836.46	123.49	21.66	35.14	-822.86	-258.08	4,620.33	4,573.33	47.00	98.306		
10,300.00	5,396.34	4,929.87	4,834.92	126.03	21.65	35.09	-822.49	-258.01	4,719.28	4,672.26	47.03	100.354		
10,400.00	5,396.51	4,928.34	4,833.42	128.58	21.65	35.04	-822.15	-257.95	4,818.27	4,771.21	47.05	102.400		
10,500.00	5,396.67	4,909.46	4,815.02	131.13	21.55	34.41	-818.10	-256.98	4,917.56	4,870.51	47.05	104.520		
10,600.00	5,396.84	4,909.46	4,815.02	133.68	21.55	34.41	-818.10	-256.98	5,016.58	4,969.50	47.08	106.552		
10,700.00	5,397.01	4,909.46	4,815.02	136.23	21.55	34.41	-818.10	-256.98	5,115.63	5,068.52	47.11	108.582		
10,800.00	5,397.18	4,909.46	4,815.02	138.79	21.55	34.41	-818.10	-256.98	5,214.72	5,167.58	47.15	110.608		
10,900.00	5,397.35	4,909.46	4,815.02	141.34	21.55	34.41	-818.10	-256.98	5,313.85	5,266.67	47.18	112.631		
11,000.00	5,397.52	4,909.46	4,815.02	143.90	21.55	34.41	-818.10	-256.98	5,413.00	5,365.79	47.21	114.651		
11,100.00	5,397.69	4,909.46	4,815.02	146.46	21.55	34.41	-818.10	-256.98	5,512.19	5,464.94	47.25	116.666		
11,200.00	5,397.85	4,909.46	4,815.02	149.01	21.55	34.41	-818.10	-256.98	5,611.41	5,564.12	47.28	118.678		
11,286.11	5,398.00	4,909.46	4,815.02	151.22	21.55	34.41	-818.10	-256.98	5,696.87	5,649.55	47.31	120.407		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Survey Progra		WD+HDGM											Offset Well Error:	0.00 ust
Refere		Offs	et Vertical	Semi Major		Highside	Offset Wellbor	. Contro	Dista		Minimarum	Conception		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
										(2011)	(221)			
0.00 100.00	0.00 100.00	0.00 100.00	0.00 100.00	0.00 0.15	0.00 0.15	7.72 7.72	19.70 19.70	2.67 2.67	19.88 19.88	19.57	0.31	64.490		
200.00	200.00	200.00	200.00	0.15	0.13	7.72	19.70	2.67	19.88	18.86	1.03	19.392		
300.00	300.00	300.00	300.00	0.87	0.87	7.72	19.70	2.67	19.88	18.14	1.74	11.412		
400.00	400.00	400.00	400.00	1.23	1.23	7.72	19.70	2.67	19.88	17.42	2.46	8.085 (CC. ES	
500.00	499.98	500.35	500.35	1.57	1.58	178.94	19.26	2.68	21.19	18.04	3.15	6.723		
600.00	599.84	601.10	601.03	1.91	1.92	-179.52	15.72	2.70	22.96	19.14	3.82	6.009		
700.00	699.45	701.90	701.58	2.26	2.26	-176.85	8.63	2.76	24.78	20.28	4.50	5.505		
800.00	798.70	802.75	801.86	2.62	2.62	-173.31	-1.99	2.84	26.73	21.54	5.19	5.148		
900.00	897.47	903.63	901.74	3.00	2.99	-169.12	-16.14	2.94	28.89	23.00	5.89	4.901		
1,000.00	995.62	1,004.46	1,001.01	3.41	3.39	-164.53	-33.77	3.08	31.36	24.74	6.62	4.740		
1,100.00	1,093.06	1,104.33	1,099.07	3.83	3.79	-161.38	-52.66	3.22	36.02	28.65	7.37	4.886		
1,200.00	1,189.64	1,204.00	1,196.95	4.29	4.21	-160.55	-71.50	3.36	44.03	35.90	8.14	5.412		
1,269.83	1,256.53	1,273.42	1,265.12	4.62	4.50	-160.90	-84.63	3.46	51.57	42.90	8.67	5.945		
1,300.00	1,285.32	1,303.37	1,294.53	4.77	4.63	-161.16	-90.30	3.50	55.18	46.27	8.91	6.194		
1,400.00	1,380.74	1,402.65	1,392.01	5.28	5.05	-161.82	-109.07	3.65	67.13	57.45	9.68	6.935		
1,500.00	1,476.17	1,501.93	1,489.50	5.79	5.48	-162.29	-127.84	3.79	79.09	68.63	10.46	7.561		
1,600.00	1,571.59	1,601.21	1,586.99	6.31	5.91	-162.63	-146.62	3.93	91.06	79.81	11.25	8.097		
1,700.00	1,667.02	1,700.49	1,684.48	6.84	6.34	-162.89	-165.39	4.07	103.03	90.99	12.04	8.560		
1,800.00	1,762.45	1,799.77	1,781.97	7.37	6.78	-163.10	-184.16	4.21	115.00	102.17	12.83	8.964		
1,900.00	1,857.87	1,899.05	1,879.46	7.90	7.22	-163.27	-202.94	4.36	126.97	113.34	13.62	9.319		
2,000.00	1,953.30	1,998.33	1,976.95	8.44	7.65	-163.41	-221.71	4.50	138.94	124.51	14.42	9.633		
2,100.00	2,048.72	2,097.61	2,074.44	8.98	8.09	-163.53	-240.49	4.64	150.91	135.69	15.22	9.914		
2,200.00	2,144.15	2,196.89	2,171.93	9.53	8.53	-163.63	-259.26	4.78	162.88	146.86	16.02	10.165		
2,300.00	2,239.57	2,296.18	2,269.42	10.07	8.97	-163.71	-278.03	4.92	174.85	158.02	16.83	10.391		
2,400.00	2,335.00	2,395.46	2,366.91	10.62	9.41	-163.79	-296.81	5.07	186.83	169.19	17.63	10.596		
2,500.00	2,430.43	2,494.74	2,464.39	11.17	9.86	-163.85	-315.58	5.21	198.80	180.36	18.44	10.782		
2,600.00	2,525.85	2,594.02	2,561.88	11.72	10.30	-163.91	-334.36	5.35	210.77	191.53	19.24	10.952		
2,700.00	2,621.28	2,693.30	2,659.37	12.27	10.74	-163.97	-353.13	5.49	222.75	202.69	20.05	11.108		
2,800.00	2,716.70	2,792.58	2,756.86	12.82	11.19	-164.01	-371.90	5.63	234.72	213.86	20.86	11.252		
2,900.00	2,812.13	2,891.86	2,854.35	13.37	11.63	-164.05	-390.68	5.78	246.69	225.02	21.67	11.384		
3,000.00	2,907.55	2,991.14	2,951.84	13.92	12.07	-164.09	-409.45	5.92	258.67	236.19	22.48	11.507		
3,100.00	3,002.98	3,090.42	3,049.33	14.47	12.52	-164.13	-428.23	6.06	270.64	247.35	23.29	11.621		
3,200.00	3,098.41	3,189.70	3,146.82	15.02	12.96	-164.16	-447.00	6.20	282.62	258.52	24.10	11.727		
3,300.00	3,193.83	3,288.98	3,244.31	15.58	13.41	-164.19	-465.77	6.34	294.59	269.68	24.91	11.826		
3,400.00	3,289.26	3,388.26	3,341.80	16.13	13.85	-164.22	-484.55	6.49	306.56	280.84	25.72	11.918		
3,500.00	3,384.68	3,487.54	3,439.28	16.69	14.30	-164.24	-503.32	6.63	318.54	292.01	26.53	12.005		
3,600.00	3,480.11	3,586.82	3,536.77	17.24	14.74	-164.27	-522.10	6.77	330.51	303.17	27.35	12.086		
3,700.00	3,575.53	3,686.10	3,634.26	17.79	15.19	-164.29	-540.87	6.91	342.49	314.33	28.16	12.163		
3,800.00	3,670.96	3,785.38	3,731.75	18.35	15.64	-164.31	-559.64	7.05	354.46	325.49	28.97	12.235		
3,900.00	3,766.39	3,884.66	3,829.24	18.91	16.08	-164.33	-578.42	7.20	366.44	336.65	29.78	12.303		
4,000.00	3,861.81	3,983.94	3,926.73	19.46	16.53	-164.35	-597.19	7.34	378.41	347.82	30.60	12.368		
4,100.00	3,957.24	4,083.22	4,024.22	20.02	16.97	-164.36	-615.96	7.48	390.39	358.98	31.41	12.429		
4,200.00	4,052.66	4,182.50	4,121.71	20.57	17.42	-164.38	-634.74	7.62	402.36	370.14	32.22	12.486		
4,300.00	4,148.09	4,281.78	4,219.20	21.13	17.87	-164.39	-653.51	7.76	414.34	381.30	33.04	12.541		
4,400.00	4,243.52	4,366.77	4,302.94	21.68	18.23	-164.76	-667.63	5.92	427.54	393.83	33.71	12.683		
4,500.00	4,338.94	4,444.32	4,379.75	22.24	18.50	-166.22	-673.83	-2.40	445.24	411.10	34.15	13.039		
4,600.00	4,434.37	4,517.19	4,451.27	22.80	18.71	-168.49	-673.46	-16.15	468.21	433.84	34.37	13.623		
4,700.00	4,529.79	4,584.09	4,515.55	23.35	18.86	-171.20	-667.85	-33.68	497.25	462.86	34.38	14.461		
4,800.00	4,625.22	4,650.00	4,576.89	23.91	18.99	-174.29	-657.45	-55.36	533.01	498.72	34.29	15.544		
4,839.66	4,663.07	4,666.53	4,591.88	24.13	19.01	-175.12	-654.10	-61.46	549.05	514.98	34.07	16.116		



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

		MD UDOM												
urvey Progra		ND+HDGM		O and Malan	•				Dist				Offset Well Error:	0.00
Refere easured	vertical	Offs Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	o Contro	Dista Between	nce Between	Minimum	Separation	14/	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
	4,721.05				19.07	164.38	-646.40	-74.59		540.39	33.84	16.967		
4,900.00 4,950.00	4,721.05	4,700.00 4,726.30	4,621.69 4,644.55	24.45 24.69	19.07	144.55	-639.52	-74.59	574.24 594.74	561.14	33.60	17.700		
5,000.00	4,817.89	4,750.00	4,664.69	24.89	19.10	124.89	-632.69	-96.07	614.70	581.43	33.27	18.475		
5,050.00	4,866.03	4,780.09	4,689.59	25.07	19.17	107.93	-623.20	-110.04	633.90	600.84	33.06	19.176		
5,100.00	4,913.60	4,800.00	4,705.63	25.22	19.19	94.98	-616.42	-119.69	652.29	619.69	32.59	20.012		
5,150.00	4,960.29	4,833.61	4,731.86	25.35	19.23	84.98	-604.08	-136.70	669.53	637.11	32.43	20.647		
0,100.00	4,000.20	4,000.01	4,701.00	20.00	10.20	04.00	-004.00	-100.10	000.00	007.11	02.40	20.047		
5,200.00	5,005.82	4,850.00	4,744.25	25.46	19.24	77.68	-597.67	-145.30	685.85	653.99	31.86	21.529		
5,250.00	5,049.90	4,886.95	4,771.16	25.54	19.28	71.80	-582.30	-165.40	700.68	668.91	31.77	22.057		
5,300.00	5,092.27	4,913.57	4,789.63	25.60	19.30	67.32	-570.46	-180.47	714.34	682.89	31.45	22.715		
5,350.00	5,132.67	4,950.00	4,813.61	25.65	19.34	63.69	-553.25	-201.83	726.75	695.37	31.38	23.163		
5,400.00	5,170.84	4,966.74	4,824.10	25.67	19.35	60.93	-544.97	-211.91	737.49	706.59	30.90	23.864		
5,450.00	5,206.55	5,000.00	4,843.92	25.68	19.39	58.63	-527.85	-232.40	746.94	716.11	30.83	24.226		
5,500.00	5,239.58	5,019.87	4,855.09	25.68	19.42	56.83	-517.21	-244.92	754.76	724.22	30.54	24.715		
5,550.00	5,269.73	5,050.00	4,871.06	25.66	19.48	55.40	-500.53	-264.27	761.11	730.56	30.56	24.909		
5,600.00	5,296.81	5,072.99	4,882.43	25.63	19.53	54.30	-487.36	-279.30	765.87	735.35	30.52	25.097		
5,650.00	5,320.65	5,100.00	4,894.87	25.59	19.62	53.49	-471.45	-297.23	769.06	738.40	30.66	25.080		
5,700.00	5,341.11	5,126.13	4,905.93	25.54	19.73	52.95	-455.61	-314.82	770.66	739.74	30.92	24.925		
5,750.00	5,358.06	5,150.00	4,915.19	25.48	19.85	52.63	-440.79	-331.08	770.68	739.43	31.25	24.662		
5,800.00	5,371.39	5,179.34	4,925.44	25.42	20.04	52.58	-422.15	-351.27	769.11	737.29	31.82	24.172		
5,850.00	5,381.03	5,200.00	4,931.91	25.36	20.20	52.69	-408.75	-365.61	766.01	733.65	32.36	23.671		
5,900.00	5,386.91	5,232.63	4,940.82	25.32	20.50	53.12	-387.19	-388.42	761.28	728.05	33.23	22.907		
5,951.35	5,389.00	5,250.00	4,944.91	25.32	20.67	53.62	-375.52	-400.62	755.01	721.00	34.00	22.205		
6,000.00	5,389.08	5,286.24	4,951.97	25.56	21.08	54.02	-350.81	-426.16	748.79	713.69	35.10	21.333		
6,100.00	5,389.25	5,350.00	4,959.49	26.88	21.88	54.46	-306.32	-471.17	740.86	703.61	37.25	19.888		
6,188.99	5,389.40	5,393.07	4,961.00	28.30	22.47	54.55	-275.73	-501.44	738.68	699.65	39.03	18.927		
6,200.00	5,389.42	5,399.81	4,961.01	28.48	22.57	54.55	-270.91	-506.16	738.73	699.47	39.27	18.814		
6,300.00	5,389.59	5,499.80	4,961.17	30.22	24.10	54.59	-199.51	-576.17	739.30	697.31	41.99	17.607		
6,400.00	5,389.76	5,599.80	4,961.33	32.07	25.80	54.62	-128.11	-646.18	739.88	694.91	44.97	16.452		
6,500.00	5,389.93	5,699.80	4,961.48	34.01	27.64	54.65	-56.71	-716.19	740.45	692.29	48.16	15.374		
6,600.00	5,390.09	5,799.80	4,961.64	36.03	29.58	54.68	14.69	-786.20	741.02	689.50	51.52	14.382		
6,700.00	5,390.26	5,899.80	4,961.80	38.11	31.62	54.71	86.09	-856.21	741.59	686.57	55.02	13.478		
6,800.00	5,390.43	5,999.79	4,961.95	40.25	33.73	54.74	157.49	-926.22	742.17	683.53	58.64	12.656		
6,900.00	5,390.60	6,099.79	4,962.11	42.43	35.91	54.77	228.89	-996.23	742.74	680.39	62.35	11.912		
7,000.00	5,390.77	6,199.79	4,962.27	44.66	38.13	54.80	300.29	-1,066.24	743.31	677.17	66.14	11.238		
7,100.00	5,390.94	6,299.79	4,962.43	46.92	40.39	54.83	371.69	-1,136.25	743.89	673.89	70.00	10.627		
7,200.00	5,391.11	6,399.78	4,962.58	49.22	42.69	54.86	443.09	-1,206.26	744.46	670.54	73.91	10.072		
7,300.00	5,391.28	6,499.78	4,962.74	51.54	45.02	54.89	514.49	-1,276.27	745.03	667.15	77.88	9.567		
7,400.00	5,391.44	6,599.78	4,962.90	53.88	47.38	54.92	585.89	-1,346.28	745.61	663.72	81.88	9.106		
7,500.00	5,391.61	6,699.78	4,963.06	56.24	49.76	54.95	657.29	-1,416.29	746.18	660.25	85.93	8.684		
7,600.00	5,391.78	6,799.77	4,963.21	58.63	52.15	54.98	728.69	-1,486.30	746.76	656.75	90.00	8.297		
7,700.00	5,391.95	6,899.77	4,963.37	61.03	54.57	55.01	800.10	-1,556.31	747.33	653.22	94.11	7.941		
7,800.00	5,392.12	6,999.77	4,963.53	63.44	57.00	55.04	871.50	-1,626.32	747.91	649.67	98.23	7.614		
7,900.00	5,392.29	7,099.77	4,963.69	65.86	59.44	55.07	942.90	-1,696.33	748.48	646.10	102.38	7.311		
8,000.00	5,392.46	7,199.76	4,963.84	68.30	61.89	55.10	1,014.30	-1,766.34	749.06	642.50	106.55	7.030		
8,100.00	5,392.62	7,299.76	4,964.00	70.75	64.35	55.13	1,085.70	-1,836.35	749.63	638.89	110.74	6.769		
8,200.00	5,392.79	7,399.76	4,964.16	73.21	66.82	55.16	1,157.10	-1,906.36	750.21	635.26	114.95	6.527		
8,300.00	5,392.96	7,499.76	4,964.32	75.68	69.30	55.18	1,228.50	-1,976.37	750.78	631.62	119.17	6.300		
8,400.00	5,392.90	7,599.75	4,964.32	75.08	71.79	55.21	1,228.50	-2,046.38	751.36	627.96	123.40	6.089		
8,500.00	5,393.13	7,699.75	4,964.63	80.63	74.28	55.24	1,299.90	-2,040.38	751.93	624.29	123.40	5.891		
8,600.00	5,393.47	7,799.75	4,964.79	83.12	76.78	55.27	1,442.70	-2,186.40	752.51	620.61	131.90	5.705		
8,700.00	5,393.47	7,899.75	4,964.95	85.61	79.28	55.30	1,442.70	-2,180.40	753.09	616.92	136.17	5.530		
-,														

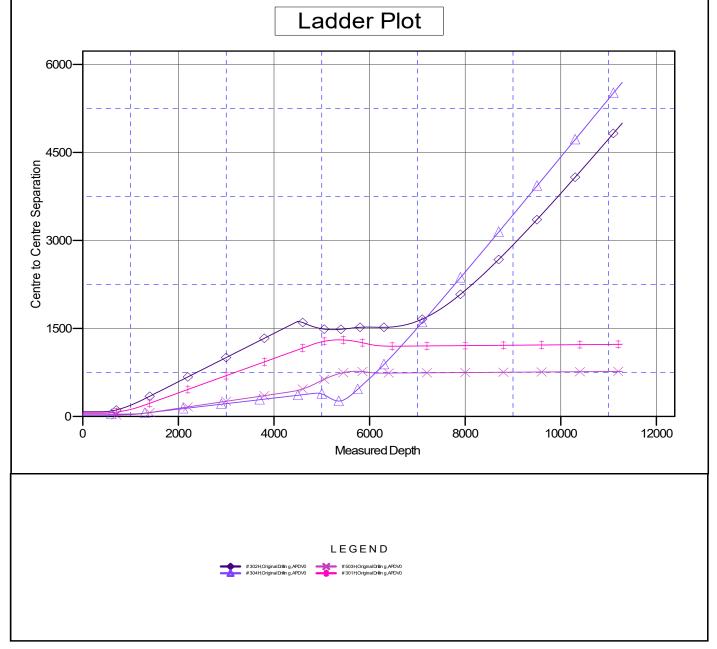


Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Offset De	•		06 Pad - #	# 503H - Ori	iginal Drill	ing - APD							Offset Site Error:	0.00 usft
Survey Prog		WD+HDGM											Offset Well Error:	0.00 usft
Refer		Offse		Semi Major					Dista					
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	
8,900.00	5,393.97	8,099.74	4,965.26	90.62	84.31	55.36	1,656.90	-2,396.43	754.24	609.50	144.74	5.211		
9,000.00	5,394.14	8,199.74	4,965.42	93.12	86.82	55.39	1,728.30	-2,466.45	754.82	605.78	149.03	5.065		
9,100.00	5,394.31	8,299.74	4,965.57	95.64	89.34	55.42	1,799.71	-2,536.46	755.40	602.06	153.34	4.926		
9,200.00	5,394.48	8,399.74	4,965.73	98.15	91.87	55.45	1,871.11	-2,606.47	755.97	598.32	157.65	4.795		
9,300.00	5,394.65	8,499.73	4,965.89	100.67	94.39	55.48	1,942.51	-2,676.48	756.55	594.58	161.97	4.671		
9,400.00	5,394.82	8,599.73	4,966.05	103.20	96.92	55.51	2,013.91	-2,746.49	757.13	590.83	166.30	4.553		
9,500.00	5,394.99	8,699.73	4,966.20	105.73	99.46	55.54	2,085.31	-2,816.50	757.71	587.08	170.63	4.441		
9,600.00	5,395.16	8,799.73	4,966.36	108.26	101.99	55.56	2,156.71	-2,886.51	758.29	583.31	174.97	4.334		
9,700.00	5,395.32	8,899.72	4,966.52	110.79	104.53	55.59	2,228.11	-2,956.52	758.86	579.55	179.32	4.232		
9,800.00	5,395.49	8,999.72	4,966.68	113.32	107.07	55.62	2,299.51	-3,026.53	759.44	575.77	183.67	4.135		
9,900.00	5,395.66	9,099.72	4,966.83	115.86	109.61	55.65	2,370.91	-3,096.54	760.02	572.00	188.03	4.042		
10,000.00	5,395.83	9,199.72	4,966.99	118.40	112.15	55.68	2,442.31	-3,166.55	760.60	568.21	192.39	3.953		
10,100.00	5,396.00	9,299.71	4,967.15	120.94	114.70	55.71	2,513.71	-3,236.56	761.18	564.43	196.76	3.869		
10,200.00	5,396.17	9,399.71	4,967.31	123.49	117.24	55.74	2,585.11	-3,306.57	761.76	560.63	201.13	3.787		
10,300.00	5,396.34	9,499.71	4,967.46	126.03	119.79	55.77	2,656.51	-3,376.58	762.34	556.84	205.51	3.710		
10,400.00	5,396.51	9,599.71	4,967.62	128.58	122.34	55.79	2,727.91	-3,446.59	762.92	553.03	209.89	3.635		
10,500.00	5,396.67	9,699.70	4,967.78	131.13	124.89	55.82	2,799.31	-3,516.60	763.50	549.23	214.27	3.563		
10,600.00	5,396.84	9,799.70	4,967.94	133.68	127.44	55.85	2,870.72	-3,586.61	764.08	545.42	218.66	3.494		
10,700.00	5,397.01	9,899.70	4,968.09	136.23	130.00	55.88	2,942.12	-3,656.62	764.66	541.60	223.06	3.428		
10,800.00	5,397.18	9,999.70	4,968.25	138.79	132.55	55.91	3,013.52	-3,726.63	765.24	537.78	227.46	3.364		
10,900.00	5,397.35	10,099.69	4,968.41	141.34	135.11	55.94	3,084.92	-3,796.64	765.82	533.96	231.86	3.303		
11,000.00	5,397.52	10,199.69	4,968.56	143.90	137.66	55.97	3,156.32	-3,866.65	766.40	530.14	236.27	3.244		
11,100.00	5,397.69	10,299.69	4,968.72	146.46	140.22	55.99	3,227.72	-3,936.66	766.99	526.31	240.68	3.187		
11,200.00	5,397.85	10,399.69	4,968.88	149.01	142.78	56.02	3,299.12	-4,006.67	767.57	522.47	245.09	3.132		
11,286.11	5,398.00	10,485.80	4,969.02	151.22	144.98	56.05	3,360.61	-4,066.96	768.07	519.17	248.90	3.086 S	F	



Central Meridian is -10	7.83333333	Grid Convergence at Surface is: 0.24°				
Offset Depths are rela	tive to Offset Datum	Coordinate System is US State Plan	ne 1983, New Mexico Western Zone			
Reference Depths are	relative to GL 7122' & RKB 14' @ 7136.00usft	Coordinates are relative to: # 303H	- Slot 1			
tererene beergin						
Reference Design:	APD	Offset TVD Reference:	Offset Datum			
Reference Wellbore	Original Drilling	Database:	DJR			
Well Error:	0.00 usft	Output errors are at	2.00 sigma			
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature			
Site Error:	0.00 usft	North Reference:	True			
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft			
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft			
Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1			



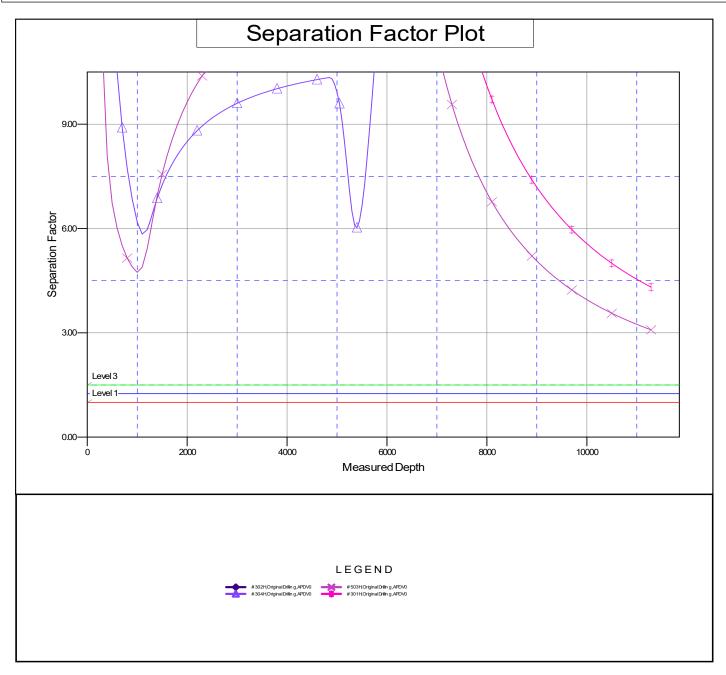


Anticollision Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well # 303H - Slot 1
Project:	Venado Canyon Unit	TVD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Reference Site:	H14 2206 Pad	MD Reference:	GL 7122' & RKB 14' @ 7136.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	# 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	DJR
Reference Design:	APD	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 7122' & RKB 14' @ 7136.00usft Offset Depths are relative to Offset Datum Central Meridian is -107.83333333

Coordinates are relative to: # 303H - Slot 1 Coordinate System is US State Plane 1983, New Mexico Western Zone Grid Convergence at Surface is: 0.24°



Conditions Of Approval

Air Resources

- Areas not required for facilities would be revegetated during interim reclamation.
- Dirt roads would be watered during periods of high use (magnesium chloride, organic-based compounds, and/or polymer compounds could also be used on dirt roads upon approval of the BLM).
- BMPs provided in The Gold Book would be implemented for proposed and existing roads (BLM and U.S. Forest Service 2007).
- Compressor engines 300 horsepower or less used during well production must be rated by the manufacturer as emitting NO_x at 2 grams per horsepower hour or less to comply with the NMED Air Quality Bureau's guidance.

Water Resources

- To prevent erosion, certain areas surrounding the proposed site would be recontoured during interim reclamation.
- Culverts and silt traps would be installed as appropriate, and placement will be determined during the BLM onsite and facility onsite.

Wildlife, Migratory Birds, and Special-Status Species

- Any wildlife encountered within the proposed project area would be avoided and allowed to move out of the proposed project area. No wildlife would be intentionally harmed or harassed.
- Wildlife hazards, such as storage tanks, associated with the proposed project would be fenced or covered, as necessary.
- Because the proposed project would disturb more than 4.0 acres of vegetation, migratory breeding bird nesting surveys would be required if construction activities are scheduled to occur during the migratory bird nesting season (May 15 July 31). If an active nest is encountered, it would be avoided (avoidance buffer to be determined by BLM FFO) and left undisturbed until the nest has failed, or nestlings have fledged. If present, an inactive nest could be cleared by a BLM FFO–approved wildlife biologist.
- DJR would notify the BLM and U.S. Fish and Wildlife Service (USFWS) upon discovery of a dead or injured migratory bird, bald eagle, or golden eagle within or adjacent to the proposed project area. If the BLM becomes aware of such mortality or injury, the BLM will inform DJR. If DJR fails to notify the USFWS of the mortality or injury, the BLM would notify the USFWS. The BLM and the USFWS would then attempt to determine the cause of mortality and identify appropriate mitigation measures to avoid future occurrences.
- Should other special-status species be observed within the proposed project area prior to or during the proposed project, construction would cease, and the BLM FFO would be immediately contacted. The BLM FFO would then evaluate the resource. Should a discovery be evaluated as significant (protected under the Endangered Species Act, etc.), it would be protected in place until mitigation could be developed and implemented according to guidelines set by the BLM FFO.
- Per BLM FFO Instruction Memorandum No. NM-200-2008-001 (BLM 2008b), an updated preconstruction biological survey could be required for the proposed project if vegetation removal would occur more than 1 year following the previous biological survey.

Soil, Upland Vegetation, and Noxious Weeds and Invasive Species

- Reclamation would follow the guidance provided in the *Farmington Field Office Bare Soil Reclamation Procedures* (BLM 2013). These procedures are referenced in DJR's Surface Reclamation Plan.
- During the pre-disturbance onsite meeting with the BLM, a suitable vegetation community from the *Farmington Field Office Bare Soil Reclamation Procedures* (BLM 2013) will be selected by the BLM. Plant species will be chosen from the BLM FFO's seed pick list for the selected community.
- A noxious weed inventory utilizing the New Mexico Noxious Weed List (New Mexico Department of Agriculture 2009) and the U.S. Department of Agriculture's (USDA's) Federal Noxious Weed List (Natural Resources Conservation Service 2017 USDA 2010, 2012) will be conducted during the pre-disturbance onsite meeting.
- Identified noxious weeds would be treated prior to new surface disturbance as determined by the BLM FFO Noxious Weed Specialist (505-564-7600). A Pesticide Use Proposal (PUP) would be submitted to and approved by the BLM FFO Noxious Weed Specialist prior to application of any pesticide.
- See the above water resources section for erosion-control features.

Cultural Resources

- All cultural resources stipulations would be followed as indicated in the BLM Cultural Resource Records of Review and the Conditions of Approvals. These stipulations may include, but are not limited to, temporary or permanent fencing or other physical barriers, monitoring of earth-disturbing construction, project area reduction and/or specific construction avoidance zones, and employee education.
- All employees, contractors, and subcontractors would be informed by the project proponent that cultural sites are to be avoided by all personnel, personal vehicles, and company equipment, that it is illegal to collect, damage, or disturb cultural resources, and that such activities on federal and tribal lands are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (ARPA) (16 USC 470aa–mm) when on federal land and the New Mexico Cultural Properties Act NMSA 1978 when on State land.
- In the event of a cultural resource's discovery during construction, construction activities would immediately cease in the immediate vicinity of the discovery, and DJR would immediately notify the archaeological monitor, if present, or the BLM. The BLM would then ensure that the site is evaluated. Should a discovery be evaluated as significant (e.g., National Register of Historic Places, Native American Graves Protection and Repatriation Act of 1990, ARPA), it would be protected in place until mitigating measures can be developed and implemented according to guidelines set by the BLM.
- Known sites and sites identified during the pre-construction cultural resources inventory surveys would be avoided.
- Please see the attached Culture Resources Record of Review for additional site-specific cultural resource requirements.

Paleontological Resources

If any paleontological resources are discovered during activities associated with the proposed project:

• DJR would immediately inform the BLM Authorized Officer.

- Activities in the vicinity of the discovery would be immediately suspended until written authorization to proceed is issued by the BLM Authorized Officer.
- The discovery would be protected from damage or looting.
- The Authorized Officer would ensure evaluation of the discovery as soon as possible.
- Appropriate measures to mitigate adverse effects to significant paleontological resources would be determined by the Authorized Officer after consulting with the operator.

Visual Resources and Dark Skies

- Equipment not subject to safety requirements would be painted a BLM Standard Environmental Color (Covert Green) to minimize contrast with the surrounding landscape.
- If applicable, during reclamation, stockpiled rocks, if available, would be placed within the reclaimed area for erosion control and/or to discourage off-highway vehicle traffic (if requested by the BLM FFO). Rocks would be placed in a manner that visually blends with the adjacent, undisturbed landscape.
- Lights would be limited to those needed for safety during construction and operations.
- Lighting would be downward-facing or shielded where possible.

Livestock Grazing and Rangeland Health Standards

- Livestock grazing operators in the vicinity of the proposed project area would be contacted prior to construction.
- Safety meetings would be conducted prior to construction to increase awareness of livestock, such as the presence of open range and driving speed to avoid livestock collisions.
- To the extent feasible, construction activities would not be conducted when livestock are present within the proposed project area.
- If livestock are present during construction, barriers would be placed to ensure that livestock do not come in contact with potential hazards. Barrier examples could include fencing of exposed ditch-type holes, covering of holes when personnel are not present onsite, and containing contaminants, fluid leaks, or hazards that could cause injury to livestock.

Public Health and Safety

- The hauling of equipment and materials on public roads would comply with New Mexico Department of Transportation regulations. Any accidents involving persons or property would be reported to the BLM FFO. DJR would notify the public of potential hazards by posting signage, having flaggers, or using lighted signs, as necessary.
- Worker safety incidents would be reported to the BLM FFO as required under NTL–3A (U.S. Geological Survey 1979). DJR would adhere to company safety policies and Occupational Safety and Health Administration regulations.
- Vehicles would be restricted to proposed and existing disturbance areas.
- The proposed site would have an informational sign, delineating Operator, Legal Description, etc.
- DJR traffic is expected to adhere to all posted speed limits and signs. Drivers would be appropriately licensed and inspected.

Lay-Flat Water Pipeline BMPs

- Time construction activities at perennial, intermittent, and ephemeral drainage crossings (e.g., buried pipelines, culverts) to avoid high-flow conditions. When construction disturbs a flowing stream, utilize either a piped stream diversion or a cofferdam and pump to divert flow around the disturbed area.
- Design and construct surface pipelines at drainage crossings at an adequate height above possible flood levels. Bore/bury pipeline crossings below the surface deep enough to remain undisturbed by scour and fill processes typically associated with peak flows. Complete a hydraulic analysis during the pipeline design phase to avoid repeated maintenance of such a crossing and eliminate costly repairs and potential environmental degradation associated with pipeline breaks at stream crossings. Utilize horizontal directional boring techniques below perennial water bodies and/or wetland complexes when environmental circumstances allow.
- X-ray pipeline welds within 100 feet of a perennial stream to prevent leakage into the stream. Where pipelines cross streams that support federally listed or state-listed threatened or endangered species or BLM-listed sensitive species, utilize additional safeguards (such as doublewalled pipe and remotely actuated block or check valves) on both sides of the stream.
- Avoid water courses when locating pipelines and flowlines; utilize road corridors wherever possible to minimize surface disturbance and provide better leak detection and access for installation and repair activities.
- Reclamation, including seeding, of temporarily disturbed areas along roads and pipelines, and of topsoil piles and berms, shall be completed within 30 days following completion of construction. Any such area on which construction is completed prior to December 1 shall be seeded during the remainder of the early winter season instead of during the following spring unless BLM approves otherwise based on weather. If road or pipeline construction occurs discontinuously (e.g., new segments installed as new pads are built) or continuously but with a total duration greater than 30 days, reclamation, including seeding, shall be phased such that no portion of the temporarily disturbed area remains in an un-reclaimed condition for longer than 30 days. BLM may authorize deviation from this requirement based on the season and the amount of work remaining on the entirety of the road or pipeline when the 30-day period has expired.
- To the extent practical, existing vegetation shall be preserved when clearing and grading for pads, roads, and pipelines. Cleared trees and rocks may be salvaged for redistribution over reshaped cut-and-fill slopes or along linear features.

Sundry Design Features submitted 1/22/22

Emissions

- Equip internal combustion engines for production operations with ignition controls to reduce emissions.
- Leak detection and repair (LDAR) will be conducted quarterly during production operation.
- Weekly audio, visual and olfactory (AVO) inspections will be conducted at each pad during production operations consistent with the requirements of the New Mexico Oil Conservation Division.
- Install instrumentation to reduce emissions from pneumatic controllers and pumps during production operations.

<u>Noise</u>

- Sound reduction walls will be installed for internal combustion engines used for gas lift compression.
- Hospital grade mufflers will be installed in association with gas lift compression.
- Sound readings will be conducted to confirm sound mitigation measures are below the standard of 48.6 dB(A) at a receptor designated by the Authorized Officer of the BLM.

<u>Roads</u>

In coordination with Sandoval County, DJR will maintain the condition of Indian Service Road 474 in the same or better condition for that portion of the road which accesses the Venda Canyon Unit well pads.

Additional Site-Specific Cultural Mitigation Measures

A copy of these stipulations will be supplied to the archeological monitor at least two working days prior to the start of construction activities. No construction activities, including vegetation removal, may begin before the arrival of the archaeological monitor.

The monitor will:

- Ensure that a site protection barrier is located as indicated on the attached map in the vicinity of LA199269.
- Observe all surface disturbing activities within 100'of LA199268, & LA199269.
- Submit a report of the monitoring activities within 30 days of completion of monitoring unless other arrangements are made with the BLM. These stipulations must be attached to the report.

SITE PROTECTION BARRIER:

- The temporary site protection barrier will be erected prior to construction. The barrier will consist of upright wooden survey lath spaced no more than 10 feet apart and marked with blue flagging or blue paint. The barrier will remain in place through reclamation and reseeding and shall be promptly removed after reclamation.
- The barrier will be placed as indicated on the attached map.
- There will be no surface-disturbing activities or vehicle traffic past the barrier.



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

#303H VENADO CANYON UNIT

Lease: NMNM117562 SH: SE¼NE¼ Section 14, T.22 N., R.6 W. Sandoval County, New Mexico BH: SE¼SE¼ Section 10, T.22 N., R.6 W. Sandoval County, New Mexico *Above Data Required on Well Sign

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

The following special requirements apply and are effective when checked:

A. 🖾 Note all surface/drilling conditions of approval attached.

B. The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated

C. Test the surface casing to a minimum of _____ psi for 30 minutes.

- D. 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 **prior** to any sales.
- F. ∑ The use of co-flex hose is authorized contingent upon the following:
 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.

2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.

3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. <u>GENERAL</u>

- 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.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. 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. <u>REPORTING REQUIREMENTS</u>

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 <u>*</u> 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. <u>SAFETY</u>

- 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. <u>CHANGE OF PLANS OR ABANDONMENT</u>

- 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 Joe Killins (505) 564-7736

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

District IV

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

Page 51 of 51

CONDITIONS

Action 90703

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
1 Road 3263	Action Number:
Aztec, NM 87410	90703
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITION	-	
Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	3/16/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/16/2022
kpickford	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	3/16/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/16/2022
kpickford	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	3/16/2022