

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM 109385
6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
DJR Operating LLC.

3a. Address
1 Road 3263
Aztec, New Mexico 87410

3b. Phone No. (include area code)
505-632-3476

7. If Unit of CA/Agreement, Name and/or No.
VENADO CANYON UNIT / NMNM 135367A

8. Well Name and No.
VENADO CANYON UNIT #204H

9. API Well No.
30-043-21290

10. Field and Pool or Exploratory Area
LYBROOK GALLUP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 1335' FSL and 163' FWL Section 12, T22N, R6W
BHL: 1473' FSL and 336' FEL Section 13, T22N, R6W

11. County or Parish, State
Sandoval County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other BHL Change & New Drilling Plan
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No., on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

DJR Operating LLC. has an approved APD for the proposed well, Venado Canyon Unit 204H (API 30-043-21290) which is part of the VENADO CANYON UNIT. DJR Operating is submitting this sundry to change the BHL and the Drilling Plan.

Please find attached an updated C-102 package reflecting the BHL change and the new drilling plan.

ADHERE TO DISTRICT'S NMOC
CONDITIONS OF APPROVAL

NMOC
AUG 22 2019
DISTRICT III

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Steven Merrell

Title Regulatory Specialist

Signature

Date 07/30/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE **ACCEPTED FOR RECORD**

Approved by

Title

Petroleum Engineer

Date

AUG 21 2019

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

Office

FARMINGTON FIELD OFFICE

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

NMOC

DISTRICT I
1800 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 508-8181 Fax: (505) 508-0780

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1888 Fax: (505) 748-9780

DISTRICT III
1000 Rio Grande Rd., Artesia, N.M. 87410
Phone: (505) 884-8178 Fax: (505) 884-8170

DISTRICT IV
1280 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21290	² Pool Code 42289	³ Pool Name LYBROOK GALLUP OIL POOL
⁴ Property Code 325271	⁵ Property Name VENADO CANYON UNIT	⁶ Well Number 204H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LTD	⁹ Elevation 7042.4'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/Weat line	County
M	12	22N	6W		1335'	SOUTH	163'	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

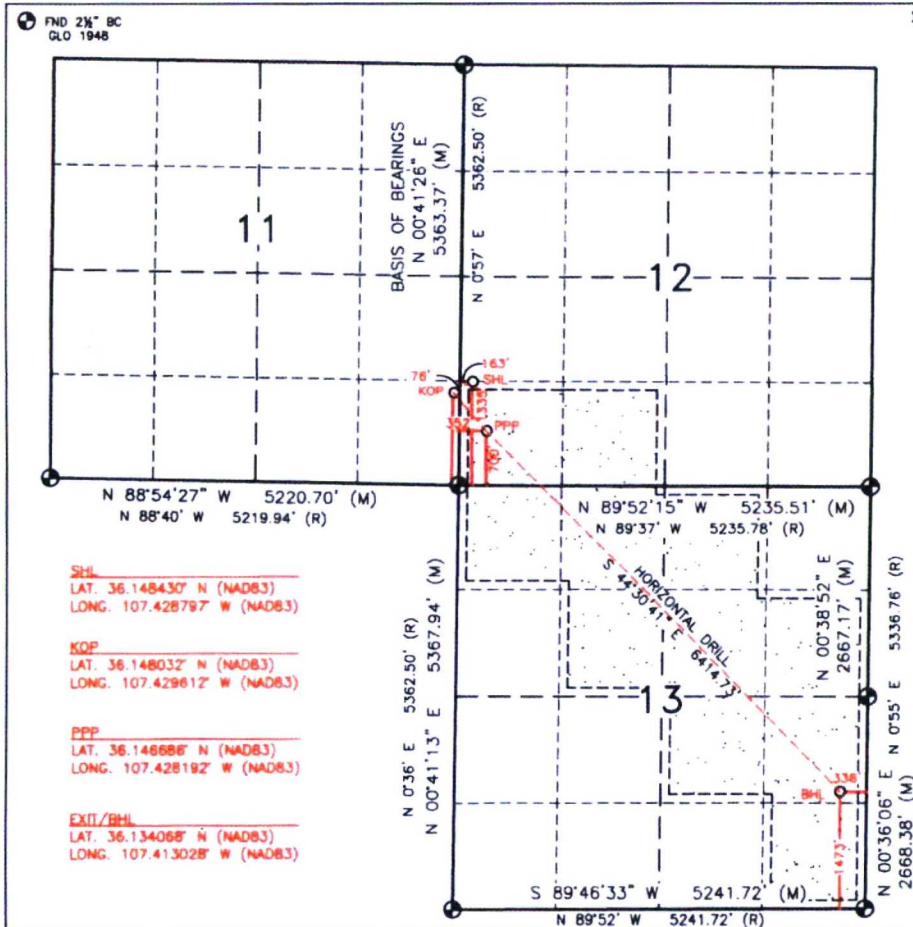
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/Weat line	County
I	13	22N	6W		1473'	SOUTH	336'	EAST	SANDOVAL

¹² Dedicated Acres PENETRATED SPACING UNIT: SW/SW & SE/SW SEC 12 (80 ACRES), & N2/NW, SE/NW, S2/NE, NW/NE, N2/SE & SE/SE SEC 13 (380 ACRES)
440 ACRES TOTAL
4320.00 ACRES - 5/2 SEC 1, 5/2 & NE/4 SEC 10, ALL SEC 11-13, N/2 SEC 22, ALL SEC 23, N/2 SEC 24, 722N ROW - UNDIVIDED UNIT

¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14067, R-14067A
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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¹⁷ OPERATOR CERTIFICATION

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

Steven Merrell 7/30/2019
Signature Date
Steven Merrell
Printed Name
Smerrell@djrlc.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
MARCH 30, 2016

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number 11393

1626 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8151 Fax: (575) 393-0720

DISTRICT II
511 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1883 Fax: (505) 748-9720

1000 Elv Brusco Rd., Anteo, N.M. 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

LAT. 36.148430° N (NAD83)
LONG. 107.428797° W (NAD83)

LAT. 36.148032° N (NAD83)
LONG. 107.429612° W (NAD83)

LAT. 36.146686° N (NAD83)
LONG. 107.428192° W (NAD83)

LAT. 36.134068° N (NAD83)
LONG. 107.413028° W (NAD83)

4320.00 ACRES - S/2 SEC 1, S/2 & NE/4 SEC 10, ALL SEC 11-15,
N/2 SEC 22, ALL SEC 23, N/2 SEC 24, T22N R6W - UNDIVIDED UNIT

DRILLING PLAN **Venado Canyon Unit 204H** **Sandoval County, New Mexico**

Surface Location
 163-ft FWL & 1333-ft FSL
 Sec 12 T22N R6W
 Graded Elevation 7040' MSL
 RKB Elevation 7065' (25' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1484300° N
 Longitude 107.4287970° W

Kick Off Point for Horizontal Build Curve
 4762-ft MD
 4753-ft TVD

Local Coordinates (from SHL)

146-ft South
 240-ft West

First Take Point (Heel target)

5778-ft MD
 352-ft FWL & 700-ft FSL
 Sec 12 T22N R6W

FTP Geographical Coordinates (NAD-83)

Latitude 36.14668627° N
 Longitude 107.42819218° W

Last Take Point (Toe target & BHL)

12193-ft MD
 336-ft FEL & 1473-ft FSL
 Sec 13 T22N R6W

LTP Geographical Coordinates (NAD-83)

Latitude 36.1340676° N
 Longitude 107.4130277° W

Well objectives

This well is planned as a 6410-ft lateral in the Gallup CR4 sand.

Bottom Hole temperature and pressure

The temperature in the Gallup CR4 horizontal objective is 142.0°F. Bottom hole pressure in the Gallup CR4 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	877	875	Sd	W	8.3	8.4 - 8.8
Kirtland	1481	1479	Sh	-	8.3	8.4 - 8.8
Fruitland	1691	1688	C	G	8.3	9.0 - 9.5
Picture Cliffs	1880	1877	Sd	W	8.3	9.0 - 9.5
Lewis	1974	1971	Sh	-		9.0 - 9.5
Chacra	2719	2714	Sd	-	8.3	9.0 - 9.5
Menefee	3408	3402	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4152	4144	Sd	-	8.3	9.0 - 9.5
Mancos	4292	4284	Sh	-		9.0 - 9.5
Mancos Silt	4690	4681	Slt	O/G	6.6	9.0 - 9.5
Gallup A	5197	5156	Slt	O/G	6.6	9.0 - 9.5
Gallup B	5255	5200	Sd	O/G	6.6	8.8 - 9.0
Gallup C	5390	5287	Sd	O/G	6.6	8.8 - 9.0
Target	5760	5398	Sd	O/G	6.6	8.8 - 9.0

Casing Program

Casing OD	Hole Size	Weight (#/ft)	Grade	Coupling	MD Top	MD Bottom	TVD Top	TVD Bottom	Top of Cement
9-5/8"	12-1/4"	36	K-55	STC	surf	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5659	surf	5388	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5459	12193	5323	5338	5459

Note: all casing will be new

Casing Design Load Cases

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

Note

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

Casing Design Factors

Casing string	Casing OD	Design Factors			
		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

Additives: A=Accelerator; B=Bond Enhancer; De=Defoamer; Di=Dispersant; Ex=Extender; FI=Fluid Loss L=Lost Circulation; R=Retarder; SA=Suspending Agent; THX=Thixotropic Additive; V=Viscosifier

9-5/8" Surface Casing

	Lead
Name	Redi-Mix
Type	I-II
Additives	20% Fly Ash
Planned top	Surface
Density (ppg)	14.50
Yield (cf/sx)	1.61
Mix water (gal/sx)	7.41
Volume (sx)	114
Volume (bbls)	33

7" Intermediate Casing

	Lead	Tail
Halliburton Name	HALCEM	VARICEM
Type	Poz/G	Poz/G
Additives	Ex, L, SA	Ex, FI, SA, L, THX
Planned top	Surface	3792-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	1.92	1.31
Mix water (gal/sx)	10.03	5.81
Volume (sx)	489	371
Volume (bbls)	167	87

<u>4-1/2" Production Liner</u>	<u>Lead</u>
Halliburton Name	EXTENDACEM
Type	Poz/G
Additives	B, De, Di, FI, Re, V
Planned top	5459-ft
Density (ppg)	13.3
Yield (cf/sx)	1.36
Mix water (gal/sx)	5.94
Volume (sx)	696
Volume (bbls)	169

Wellhead & Pressure Control

The well head will be an 11" 5M multi-bowl system. A 2M 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 geograph will be employed to monitor and record drilling data (ROP, WOB, SPM, Pressure, RPM and torque).

Mud Program

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

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	350 – 5659	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5659 – 12193	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

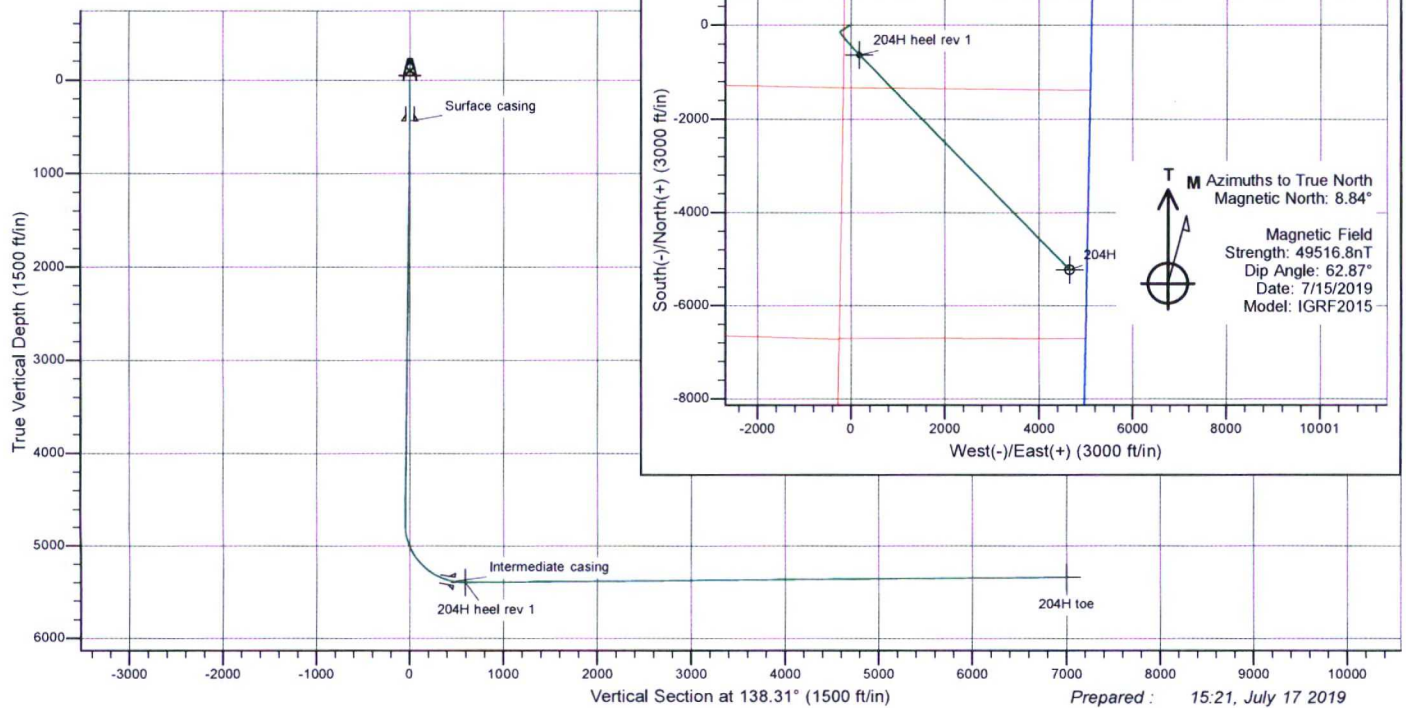
It is envisioned that this well will be completed with a multi-stage sand frac, using the plug and perf technique. After drilling out the plugs, the current plan is to install a 2-7/8" plunger-assisted gas lift tubing string. The stimulation and completion plan will be sundried at a later date.



Pad name : L12 2206 Pad
Well name : Venado Canyon #204H

SHL Latitude : 36.14843000
 SHL Longitude : -107.42879700

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



TRAJECTORY DETAILS									
Pad elevation : 7040 RIG @ 7065ft (AD #1000)									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0	0.00	0.00	0	0	0	0.00	0.00	0	
425	0.00	0.00	425	0	0	0.00	0.00	0	
576	3.78	238.77	576	-3	-4	2.50	238.77	-1	
4762	3.78	238.77	4753	-146	-240	0.00	0.00	-51	
5778	90.54	135.73	5398	-635	179	9.00	-102.98	593	204H heel rev
12193	90.54	135.73	5338	-5228	4657	0.00	0.00	7001	204H toe

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
204H toe	5338	-5228	4657	1868365	2847202	36.13406760	-107.41302770
204H heel rev 1	5398	-635	179	1872940	2842705	36.14668627	-107.42819218

Prepared : 15:21, July 17 2019

DJR Operating

**Venado Canyon Unit
L12 2206 Pad
204H**

Original drilling

Plan: APD

Standard Planning Report

17 July, 2019

Planning Report

Database: EDM
Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Venado Canyon Unit		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	L12 2206 Pad				
Site Position:		Northing:	1,873,559 usft	Latitude:	36.14838900
From:	Lat/Long	Easting:	2,842,498 usft	Longitude:	-107.42888500
Position Uncertainty:	0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.24 °

Well	204H					
Well Position	+N/-S	15 ft	Northing:	1,873,574 usft	Latitude:	36.14843000
	+E/-W	26 ft	Easting:	2,842,524 usft	Longitude:	-107.42879700
Position Uncertainty		0 ft	Wellhead Elevation:		Ground Level:	7040 ft

Wellbore	Original drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/15/2019	8.84	62.87	49,516.82998014

Design	APD				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0	0	0	138.31	

Plan Survey Tool Program	Date 7/17/2019				
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0	12,193 APD (Original drilling)	MWD+IGRF		
			OWSG MWD + IGRF or W		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
425	0.00	0.00	425	0	0	0.00	0.00	0.00	0.00	
576	3.78	238.77	576	-3	-4	2.50	2.50	0.00	238.77	
4762	3.78	238.77	4753	-146	-240	0.00	0.00	0.00	0.00	
5778	90.54	135.73	5398	-635	179	9.00	8.54	-10.15	-102.98	204H heel rev 1
12,193	90.54	135.73	5338	-5228	4657	0.00	0.00	0.00	0.00	204H toe

Planning Report

Database: EDM
Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
425	0.00	0.00	425	0	0	0	0.00	0.00	0.00
437	0.30	238.77	437	0	0	0	2.50	2.50	0.00
Surface casing									
500	1.87	238.77	500	-1	-1	0	2.50	2.50	0.00
576	3.78	238.77	576	-3	-4	-1	2.50	2.50	0.00
600	3.78	238.77	600	-3	-6	-1	0.00	0.00	0.00
700	3.78	238.77	700	-7	-11	-2	0.00	0.00	0.00
800	3.78	238.77	799	-10	-17	-4	0.00	0.00	0.00
900	3.78	238.77	899	-14	-22	-5	0.00	0.00	0.00
1000	3.78	238.77	999	-17	-28	-6	0.00	0.00	0.00
1100	3.78	238.77	1099	-20	-34	-7	0.00	0.00	0.00
1200	3.78	238.77	1199	-24	-39	-8	0.00	0.00	0.00
1300	3.78	238.77	1298	-27	-45	-10	0.00	0.00	0.00
1382	3.78	238.77	1380	-30	-50	-11	0.00	0.00	0.00
Ojo Alamo									
1400	3.78	238.77	1398	-31	-51	-11	0.00	0.00	0.00
1481	3.78	238.77	1479	-33	-55	-12	0.00	0.00	0.00
Kirtland									
1500	3.78	238.77	1498	-34	-56	-12	0.00	0.00	0.00
1600	3.78	238.77	1598	-38	-62	-13	0.00	0.00	0.00
1691	3.78	238.77	1688	-41	-67	-14	0.00	0.00	0.00
Fruitland									
1700	3.78	238.77	1697	-41	-68	-14	0.00	0.00	0.00
1800	3.78	238.77	1797	-44	-73	-16	0.00	0.00	0.00
1880	3.78	238.77	1877	-47	-78	-16	0.00	0.00	0.00
Pictured Cliffs									
1900	3.78	238.77	1897	-48	-79	-17	0.00	0.00	0.00
1974	3.78	238.77	1971	-50	-83	-18	0.00	0.00	0.00
Lewis									
2000	3.78	238.77	1997	-51	-84	-18	0.00	0.00	0.00
2100	3.78	238.77	2097	-55	-90	-19	0.00	0.00	0.00
2200	3.78	238.77	2196	-58	-96	-20	0.00	0.00	0.00
2300	3.78	238.77	2296	-61	-101	-22	0.00	0.00	0.00
2400	3.78	238.77	2396	-65	-107	-23	0.00	0.00	0.00
2500	3.78	238.77	2496	-68	-113	-24	0.00	0.00	0.00
2600	3.78	238.77	2595	-72	-118	-25	0.00	0.00	0.00
2700	3.78	238.77	2695	-75	-124	-26	0.00	0.00	0.00
2719	3.78	238.77	2714	-76	-125	-27	0.00	0.00	0.00
Chacra									
2800	3.78	238.77	2795	-79	-129	-27	0.00	0.00	0.00
2900	3.78	238.77	2895	-82	-135	-29	0.00	0.00	0.00
3000	3.78	238.77	2995	-85	-141	-30	0.00	0.00	0.00
3100	3.78	238.77	3094	-89	-146	-31	0.00	0.00	0.00
3200	3.78	238.77	3194	-92	-152	-32	0.00	0.00	0.00
3300	3.78	238.77	3294	-96	-158	-33	0.00	0.00	0.00
3352	3.78	238.77	3346	-97	-161	-34	0.00	0.00	0.00
Cliff House									
3400	3.78	238.77	3394	-99	-163	-35	0.00	0.00	0.00

Planning Report

Database: EDM
Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3408	3.78	238.77	3402	-99	-164	-35	0.00	0.00	0.00
Menefee									
3500	3.78	238.77	3494	-102	-169	-36	0.00	0.00	0.00
3600	3.78	238.77	3593	-106	-175	-37	0.00	0.00	0.00
3700	3.78	238.77	3693	-109	-180	-38	0.00	0.00	0.00
3800	3.78	238.77	3793	-113	-186	-39	0.00	0.00	0.00
3900	3.78	238.77	3893	-116	-191	-41	0.00	0.00	0.00
4000	3.78	238.77	3992	-119	-197	-42	0.00	0.00	0.00
4100	3.78	238.77	4092	-123	-203	-43	0.00	0.00	0.00
4152	3.78	238.77	4144	-125	-206	-44	0.00	0.00	0.00
Point Lookout									
4200	3.78	238.77	4192	-126	-208	-44	0.00	0.00	0.00
4292	3.78	238.77	4284	-129	-213	-45	0.00	0.00	0.00
Mancos									
4300	3.78	238.77	4292	-130	-214	-45	0.00	0.00	0.00
4400	3.78	238.77	4392	-133	-220	-47	0.00	0.00	0.00
4500	3.78	238.77	4491	-137	-225	-48	0.00	0.00	0.00
4600	3.78	238.77	4591	-140	-231	-49	0.00	0.00	0.00
4690	3.78	238.77	4681	-143	-236	-50	0.00	0.00	0.00
Mancos Silt									
4700	3.78	238.77	4691	-143	-236	-50	0.00	0.00	0.00
4762	3.78	238.77	4753	-146	-240	-51	0.00	0.00	0.00
4800	4.46	191.25	4791	-148	-241	-50	9.00	1.83	-126.70
4850	7.93	163.27	4840	-153	-241	-46	9.00	6.93	-55.98
4900	12.09	153.23	4890	-161	-237	-38	9.00	8.33	-20.07
4950	16.43	148.35	4938	-171	-231	-26	9.00	8.68	-9.75
5000	20.84	145.49	4985	-185	-223	-10	9.00	8.81	-5.74
5050	25.28	143.59	5031	-201	-211	9	9.00	8.88	-3.80
5100	29.73	142.23	5076	-219	-197	32	9.00	8.91	-2.72
5150	34.20	141.19	5118	-240	-181	59	9.00	8.93	-2.07
5197	38.40	140.42	5156	-261	-163	87	9.00	8.95	-1.65
Gallup A									
5200	38.67	140.37	5158	-263	-162	89	9.00	8.95	-1.49
5250	43.15	139.69	5196	-288	-141	121	9.00	8.96	-1.35
5255	43.62	139.63	5200	-291	-139	125	9.00	8.96	-1.22
Gallup B									
5300	47.63	139.12	5231	-315	-118	157	9.00	8.96	-1.13
5350	52.12	138.63	5264	-344	-93	195	9.00	8.97	-0.99
5390	55.69	138.28	5287	-368	-71	227	9.00	8.97	-0.89
Gallup C									
5400	56.60	138.19	5293	-374	-66	236	9.00	8.97	-0.84
5450	61.09	137.80	5319	-406	-37	278	9.00	8.97	-0.79
5500	65.58	137.43	5341	-439	-7	323	9.00	8.98	-0.72
5550	70.07	137.10	5360	-473	24	369	9.00	8.98	-0.67
5600	74.56	136.78	5375	-508	57	417	9.00	8.98	-0.64
5650	79.05	136.47	5386	-543	90	466	9.00	8.98	-0.61
5659	79.86	136.42	5388	-550	96	475	9.00	8.98	-0.60
Intermediate casing									
5700	83.54	136.18	5394	-579	125	515	9.00	8.98	-0.59
5750	88.03	135.89	5398	-615	159	565	9.00	8.98	-0.58
5760	88.03	135.89	5398	-622	166	575	0.00	0.00	0.00
Target									
5778	90.54	135.73	5398	-635	179	593	14.15	14.12	-0.91

Planning Report

Database: EDM
Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
204H heel rev 1									
5800	90.54	135.73	5398	-651	194	615	0.00	0.00	0.00
5900	90.54	135.73	5397	-722	264	715	0.00	0.00	0.00
6000	90.54	135.73	5396	-794	334	815	0.00	0.00	0.00
6100	90.54	135.73	5395	-865	403	915	0.00	0.00	0.00
6200	90.54	135.73	5394	-937	473	1014	0.00	0.00	0.00
6300	90.54	135.73	5393	-1009	543	1114	0.00	0.00	0.00
6400	90.54	135.73	5392	-1080	613	1214	0.00	0.00	0.00
6500	90.54	135.73	5391	-1152	683	1314	0.00	0.00	0.00
6600	90.54	135.73	5390	-1223	752	1414	0.00	0.00	0.00
6700	90.54	135.73	5389	-1295	822	1514	0.00	0.00	0.00
6800	90.54	135.73	5388	-1367	892	1614	0.00	0.00	0.00
6900	90.54	135.73	5388	-1438	962	1714	0.00	0.00	0.00
7000	90.54	135.73	5387	-1510	1032	1814	0.00	0.00	0.00
7100	90.54	135.73	5386	-1581	1101	1913	0.00	0.00	0.00
7200	90.54	135.73	5385	-1653	1171	2013	0.00	0.00	0.00
7300	90.54	135.73	5384	-1725	1241	2113	0.00	0.00	0.00
7400	90.54	135.73	5383	-1796	1311	2213	0.00	0.00	0.00
7500	90.54	135.73	5382	-1868	1381	2313	0.00	0.00	0.00
7600	90.54	135.73	5381	-1939	1450	2413	0.00	0.00	0.00
7700	90.54	135.73	5380	-2011	1520	2513	0.00	0.00	0.00
7800	90.54	135.73	5379	-2083	1590	2613	0.00	0.00	0.00
7900	90.54	135.73	5378	-2154	1660	2713	0.00	0.00	0.00
8000	90.54	135.73	5377	-2226	1730	2813	0.00	0.00	0.00
8100	90.54	135.73	5376	-2297	1799	2912	0.00	0.00	0.00
8200	90.54	135.73	5375	-2369	1869	3012	0.00	0.00	0.00
8300	90.54	135.73	5374	-2441	1939	3112	0.00	0.00	0.00
8400	90.54	135.73	5373	-2512	2009	3212	0.00	0.00	0.00
8500	90.54	135.73	5373	-2584	2079	3312	0.00	0.00	0.00
8600	90.54	135.73	5372	-2655	2149	3412	0.00	0.00	0.00
8700	90.54	135.73	5371	-2727	2218	3512	0.00	0.00	0.00
8800	90.54	135.73	5370	-2799	2288	3612	0.00	0.00	0.00
8900	90.54	135.73	5369	-2870	2358	3712	0.00	0.00	0.00
9000	90.54	135.73	5368	-2942	2428	3811	0.00	0.00	0.00
9100	90.54	135.73	5367	-3013	2498	3911	0.00	0.00	0.00
9200	90.54	135.73	5366	-3085	2567	4011	0.00	0.00	0.00
9300	90.54	135.73	5365	-3157	2637	4111	0.00	0.00	0.00
9400	90.54	135.73	5364	-3228	2707	4211	0.00	0.00	0.00
9500	90.54	135.73	5363	-3300	2777	4311	0.00	0.00	0.00
9600	90.54	135.73	5362	-3371	2847	4411	0.00	0.00	0.00
9700	90.54	135.73	5361	-3443	2916	4511	0.00	0.00	0.00
9800	90.54	135.73	5360	-3515	2986	4611	0.00	0.00	0.00
9900	90.54	135.73	5359	-3586	3056	4711	0.00	0.00	0.00
10,000	90.54	135.73	5359	-3658	3126	4810	0.00	0.00	0.00
10,100	90.54	135.73	5358	-3729	3196	4910	0.00	0.00	0.00
10,200	90.54	135.73	5357	-3801	3265	5010	0.00	0.00	0.00
10,300	90.54	135.73	5356	-3873	3335	5110	0.00	0.00	0.00
10,400	90.54	135.73	5355	-3944	3405	5210	0.00	0.00	0.00
10,500	90.54	135.73	5354	-4016	3475	5310	0.00	0.00	0.00
10,600	90.54	135.73	5353	-4087	3545	5410	0.00	0.00	0.00
10,700	90.54	135.73	5352	-4159	3614	5510	0.00	0.00	0.00
10,800	90.54	135.73	5351	-4231	3684	5610	0.00	0.00	0.00
10,900	90.54	135.73	5350	-4302	3754	5709	0.00	0.00	0.00

Planning Report

Database: EDM
Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,000	90.54	135.73	5349	-4374	3824	5809	0.00	0.00	0.00
11,100	90.54	135.73	5348	-4445	3894	5909	0.00	0.00	0.00
11,200	90.54	135.73	5347	-4517	3963	6009	0.00	0.00	0.00
11,300	90.54	135.73	5346	-4589	4033	6109	0.00	0.00	0.00
11,400	90.54	135.73	5345	-4660	4103	6209	0.00	0.00	0.00
11,500	90.54	135.73	5344	-4732	4173	6309	0.00	0.00	0.00
11,600	90.54	135.73	5344	-4803	4243	6409	0.00	0.00	0.00
11,700	90.54	135.73	5343	-4875	4312	6509	0.00	0.00	0.00
11,800	90.54	135.73	5342	-4947	4382	6608	0.00	0.00	0.00
11,900	90.54	135.73	5341	-5018	4452	6708	0.00	0.00	0.00
12,000	90.54	135.73	5340	-5090	4522	6808	0.00	0.00	0.00
12,100	90.54	135.73	5339	-5161	4592	6908	0.00	0.00	0.00
12,193	90.54	135.73	5338	-5228	4657	7001	0.00	0.00	0.00
204H toe									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
204H toe	0.00	0.00	5338	-5228	4657	1,868,365	2,847,202	36.13406760	-107.41302770
- plan hits target center									
- Circle (radius 100)									
204H heel rev 1	0.00	0.00	5398	-635	179	1,872,940	2,842,705	36.14668627	-107.42819218
- plan hits target center									
- Circle (radius 50)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
437	437	Surface casing	9.625	12.250
5659	5388	Intermediate casing	7.000	8.750

Planning Report

Database: EDM
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Wellbore: Original drilling
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MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1382	1380	Ojo Alamo		0.00	
1481	1479	Kirtland		0.00	
1691	1688	Fruitland		0.00	
1880	1877	Pictured Cliffs		0.00	
1974	1971	Lewis		0.00	
2719	2714	Chacra		0.00	
3352	3346	Cliff House		0.00	
3408	3402	Menefee		0.00	
4152	4144	Point Lookout		0.00	
4292	4284	Mancos		0.00	
4690	4681	Mancos Silt		0.00	
5197	5156	Gallup A		0.00	
5255	5200	Gallup B		0.00	
5390	5287	Gallup C		0.00	
5778	5398	Target		0.00	

DJR Operating

**Venado Canyon Unit
L12 2206 Pad
204H**

**Original drilling
APD**

Anticollision Report

17 July, 2019

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
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 center-center distance of 10,000 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/17/2019		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	12,193	APD (Original drilling)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
A11 2206 Pad						
# 206H - Original drilling - APD	5527	9436	1071	949	8.775 CC	
# 206H - Original drilling - APD	11,119	15,025	1089	703	2.821 ES, SF	
# 207H - Original drilling - APD	5337	8971	2467	2353	21.667 CC	
# 207H - Original drilling - APD	9800	13,327	2512	2195	7.922 ES	
# 207H - Original drilling - APD	10,000	13,327	2528	2208	7.894 SF	
L12 2206 Pad						
203H - Original drilling - APD	655	654	25	21	6.038 CC, ES	
203H - Original drilling - APD	700	698	26	21	5.766 SF	

Offset Design A11 2206 Pad - # 206H - Original drilling - APD														Offset Site Error: 0 ft	
Survey Program: 0-MWD+IGRF														Offset Well Error: 0 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0	0	0	0	0	0	-17.99	3792	-1232	3988						
100	100	12	12	0	0	-17.99	3792	-1232	3987	3987	0.15	N/A			
200	200	112	112	0	0	-17.99	3792	-1232	3987	3986	0.69	5,777.061			
300	300	212	212	1	1	-17.99	3792	-1232	3987	3986	1.41	2,833.531			
400	400	312	312	1	1	-17.99	3792	-1232	3987	3985	2.12	1,877.107			
425	425	337	337	1	1	-17.99	3792	-1232	3987	3985	2.30	1,731.035			
500	500	412	412	2	1	103.25	3792	-1232	3987	3984	2.83	1,408.140			
576	576	493	493	2	2	103.28	3792	-1232	3988	3985	3.38	1,180.454			
600	600	521	521	2	2	103.30	3792	-1232	3988	3985	3.56	1,121.492			
700	700	636	636	2	2	103.33	3790	-1237	3990	3985	4.31	926.112			
800	799	750	750	3	2	103.30	3786	-1246	3990	3985	5.08	784.724			
900	899	865	863	3	3	103.20	3780	-1259	3991	3985	5.89	677.292			
1000	999	978	975	3	3	103.04	3773	-1276	3991	3984	6.74	592.479			
1100	1099	1091	1086	4	4	102.81	3764	-1297	3990	3983	7.62	523.530			
1200	1199	1194	1185	4	4	102.56	3755	-1319	3990	3981	8.51	469.076			
1300	1298	1292	1281	4	5	102.32	3746	-1340	3990	3980	9.39	424.826			
1400	1398	1391	1377	5	5	102.08	3736	-1361	3989	3979	10.29	387.718			
1500	1498	1489	1473	5	6	101.84	3727	-1383	3989	3978	11.20	356.267			
1600	1598	9086	5341	6	94	169.87	540	528	3919	3877	41.90	93.533			

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 206H - Original drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
1700	1697	9084	5341	6	94	169.79	541	526	3823	3781	42.35	90.274			
1800	1797	9083	5341	6	94	169.71	542	525	3727	3684	42.83	87.024			
1900	1897	9081	5341	7	94	169.63	543	524	3632	3588	43.34	83.786			
2000	1997	9080	5341	7	94	169.55	544	523	3536	3492	43.89	80.563			
2100	2097	9078	5341	8	94	169.47	546	522	3441	3396	44.48	77.357			
2200	2196	9077	5341	8	94	169.39	547	521	3346	3301	45.11	74.172			
2300	2296	9075	5341	8	94	169.30	548	520	3251	3206	45.79	71.011			
2400	2396	9074	5341	9	94	169.22	549	519	3157	3111	46.51	67.877			
2500	2496	9072	5341	9	94	169.14	550	518	3063	3016	47.29	64.773			
2600	2595	9070	5341	9	94	169.06	551	517	2970	2922	48.13	61.704			
2700	2695	9069	5341	10	93	168.98	552	516	2877	2828	49.03	58.672			
2800	2795	9067	5341	10	93	168.90	553	515	2784	2734	50.00	55.682			
2900	2895	9066	5341	11	93	168.82	554	514	2692	2641	51.05	52.737			
3000	2995	9064	5341	11	93	168.74	555	513	2601	2549	52.18	49.842			
3100	3094	9063	5341	11	93	168.66	556	512	2510	2456	53.40	47.002			
3200	3194	9061	5341	12	93	168.58	557	511	2420	2365	54.72	44.221			
3300	3294	9060	5341	12	93	168.50	558	510	2331	2274	56.15	41.505			
3400	3394	9058	5341	12	93	168.42	560	509	2242	2184	57.70	38.858			
3500	3494	9057	5341	13	93	168.34	561	508	2155	2095	59.38	36.287			
3600	3593	9055	5341	13	93	168.26	562	506	2069	2007	61.20	33.797			
3700	3693	9054	5341	14	93	168.18	563	505	1984	1920	63.18	31.395			
3800	3793	9052	5341	14	93	168.10	564	504	1900	1835	65.33	29.086			
3900	3893	9051	5341	14	93	168.02	565	503	1818	1751	67.66	26.876			
4000	3992	9049	5341	15	93	167.94	566	502	1739	1668	70.18	24.773			
4100	4092	9048	5341	15	93	167.86	567	501	1661	1588	72.90	22.783			
4200	4192	9046	5341	15	93	167.78	568	500	1586	1510	75.82	20.912			
4300	4292	9045	5341	16	93	167.70	569	499	1513	1434	78.96	19.166			
4400	4392	9043	5341	16	93	167.62	570	498	1444	1362	82.29	17.552			
4500	4491	9042	5341	17	93	167.53	571	497	1379	1293	85.79	16.075			
4600	4591	9040	5341	17	93	167.45	572	496	1318	1229	89.42	14.741			
4700	4691	9039	5341	17	93	167.37	573	495	1262	1169	93.13	13.555			
4762	4753	9038	5341	18	93	167.32	574	494	1230	1135	95.44	12.890			
4800	4791	9039	5341	18	93	-147.10	574	495	1212	1115	96.84	12.517			
4850	4840	9043	5341	18	93	-121.32	571	498	1190	1091	98.73	12.048			
4900	4890	9051	5341	18	93	-113.05	565	503	1169	1068	100.64	11.614			
4950	4938	9063	5341	18	93	-109.52	557	512	1150	1048	102.54	11.216			
5000	4985	9078	5341	18	94	-107.58	545	522	1134	1029	104.43	10.855			
5050	5031	9098	5341	19	94	-106.23	532	536	1119	1013	106.27	10.531			
5100	5076	9121	5341	19	95	-105.07	515	552	1107	999	108.07	10.243			
5150	5118	9147	5341	19	95	-103.94	496	570	1097	987	109.81	9.989			
5200	5158	9176	5341	19	96	-102.75	475	591	1089	977	111.50	9.765			
5250	5196	9209	5341	19	97	-101.50	452	614	1082	969	113.14	9.567			
5300	5231	9245	5341	19	98	-100.20	427	639	1078	963	114.75	9.393			
5350	5264	9283	5341	20	99	-98.86	399	666	1075	958	116.33	9.237			
5400	5293	9323	5341	20	100	-97.53	370	694	1072	954	117.91	9.095			
5450	5319	9366	5341	20	101	-96.25	340	724	1071	952	119.50	8.964			
5500	5341	9411	5341	21	102	-95.06	308	755	1071	950	121.12	8.840			
5527	5352	9436	5341	21	102	-94.46	290	773	1071	949	122.02	8.775 CC			
5550	5360	9457	5341	21	103	-94.00	275	788	1071	948	122.78	8.721			
5600	5375	9505	5341	22	104	-93.11	241	821	1071	946	124.49	8.603			
5650	5386	9553	5341	22	105	-92.41	206	855	1071	945	126.26	8.485			
5700	5394	9603	5341	23	106	-91.93	171	889	1072	944	128.09	8.367			

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 206H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
5750	5398	9652	5341	23	108	-91.69	135	924	1072	942	129.97	8.248		
5778	5398	9680	5341	24	108	-91.66	115	944	1072	941	131.04	8.181		
5800	5398	9702	5341	24	109	-91.67	100	959	1072	940	131.90	8.129		
5900	5397	9802	5341	26	111	-91.72	28	1029	1072	937	135.88	7.892		
6000	5396	9902	5341	27	114	-91.77	-43	1099	1073	933	140.01	7.662		
6100	5395	10,002	5341	29	116	-91.81	-115	1169	1073	929	144.25	7.439		
6200	5394	10,102	5341	31	119	-91.86	-186	1239	1073	925	148.59	7.223		
6300	5393	10,202	5341	33	121	-91.91	-257	1309	1074	921	153.01	7.017		
6400	5392	10,302	5341	35	123	-91.96	-329	1379	1074	916	157.50	6.819		
6500	5391	10,402	5341	37	126	-92.01	-400	1449	1074	912	162.04	6.629		
6600	5390	10,502	5341	39	128	-92.06	-472	1519	1075	908	166.62	6.449		
6700	5389	10,602	5341	41	131	-92.11	-543	1589	1075	904	171.25	6.276		
6800	5388	10,702	5341	43	133	-92.16	-615	1659	1075	899	175.91	6.112		
6900	5388	10,802	5341	46	136	-92.21	-686	1729	1075	895	180.60	5.955		
7000	5387	10,902	5341	48	138	-92.26	-757	1799	1076	890	185.31	5.805		
7100	5386	11,002	5341	50	141	-92.31	-829	1869	1076	886	190.05	5.662		
7200	5385	11,102	5341	53	143	-92.36	-900	1939	1076	882	194.80	5.525		
7300	5384	11,202	5341	55	145	-92.41	-972	2009	1077	877	199.57	5.395		
7400	5383	11,302	5341	57	148	-92.46	-1043	2079	1077	873	204.35	5.270		
7500	5382	11,402	5341	60	150	-92.50	-1114	2149	1077	868	209.15	5.151		
7600	5381	11,502	5341	62	153	-92.55	-1186	2219	1078	864	213.96	5.036		
7700	5380	11,602	5341	64	155	-92.60	-1257	2289	1078	859	218.77	4.927		
7800	5379	11,702	5341	67	158	-92.65	-1329	2359	1078	855	223.60	4.822		
7900	5378	11,802	5341	69	160	-92.70	-1400	2429	1078	850	228.43	4.721		
8000	5377	11,902	5341	71	163	-92.75	-1472	2499	1079	846	233.27	4.625		
8100	5376	12,002	5341	74	165	-92.80	-1543	2569	1079	841	238.12	4.532		
8200	5375	12,102	5341	76	168	-92.85	-1614	2639	1079	836	242.97	4.442		
8300	5374	12,202	5341	79	170	-92.90	-1686	2709	1080	832	247.83	4.357		
8400	5373	12,302	5341	81	172	-92.95	-1757	2779	1080	827	252.69	4.274		
8500	5373	12,402	5341	83	175	-92.99	-1829	2849	1080	823	257.56	4.195		
8600	5372	12,502	5341	86	177	-93.04	-1900	2919	1081	818	262.43	4.118		
8700	5371	12,602	5341	88	180	-93.09	-1971	2989	1081	814	267.30	4.044		
8800	5370	12,702	5341	91	182	-93.14	-2043	3059	1081	809	272.18	3.973		
8900	5369	12,802	5341	93	185	-93.19	-2114	3129	1082	805	277.06	3.904		
9000	5368	12,902	5341	95	187	-93.24	-2186	3199	1082	800	281.94	3.837		
9100	5367	13,002	5341	98	190	-93.29	-2257	3269	1082	795	286.83	3.773		
9200	5366	13,102	5341	100	192	-93.33	-2328	3339	1083	791	291.71	3.711		
9300	5365	13,202	5341	103	195	-93.38	-2400	3409	1083	786	296.60	3.651		
9400	5364	13,302	5341	105	197	-93.43	-2471	3479	1083	782	301.49	3.593		
9500	5363	13,402	5341	108	200	-93.48	-2543	3549	1084	777	306.39	3.536		
9600	5362	13,502	5341	110	202	-93.53	-2614	3619	1084	773	311.28	3.482		
9700	5361	13,602	5341	113	204	-93.58	-2686	3689	1084	768	316.18	3.429		
9800	5360	13,702	5341	115	207	-93.63	-2757	3759	1084	763	321.07	3.378		
9900	5359	13,802	5341	117	209	-93.67	-2828	3829	1085	759	325.97	3.328		
10,000	5359	13,902	5341	120	212	-93.72	-2900	3899	1085	754	330.87	3.280		
10,100	5358	14,002	5341	122	214	-93.77	-2971	3969	1085	750	335.77	3.233		
10,200	5357	14,102	5341	125	217	-93.82	-3043	4039	1086	745	340.67	3.187		
10,300	5356	14,202	5341	127	219	-93.87	-3114	4109	1086	741	345.57	3.143		
10,400	5355	14,302	5341	130	222	-93.92	-3185	4179	1086	736	350.47	3.100		
10,500	5354	14,402	5341	132	224	-93.96	-3257	4249	1087	731	355.37	3.058		
10,600	5353	14,502	5341	135	227	-94.01	-3328	4319	1087	727	360.27	3.017		
10,700	5352	14,602	5341	137	229	-94.06	-3400	4389	1087	722	365.18	2.978		

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 206H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,800	5351	14,702	5341	139	232	-94.11	-3471	4459	1088	718	370.08	2.939		
10,900	5350	14,802	5341	142	234	-94.16	-3543	4529	1088	713	374.98	2.902		
11,000	5349	14,902	5341	144	237	-94.20	-3614	4599	1088	709	379.89	2.865		
11,100	5348	15,010	5341	147	239	-94.26	-3691	4674	1089	704	385.09	2.827		
11,119	5348	15,025	5341	147	240	-94.26	-3702	4685	1089	703	385.87	2.821 ES, SF		
11,200	5347	15,025	5341	149	240	-94.26	-3702	4685	1092	706	385.65	2.831		
11,300	5346	15,025	5341	152	240	-94.26	-3702	4685	1104	721	382.55	2.885		
11,400	5345	15,025	5341	154	240	-94.26	-3702	4685	1124	748	376.59	2.985		
11,500	5344	15,025	5341	157	240	-94.26	-3702	4685	1153	785	368.22	3.132		
11,600	5344	15,025	5341	159	240	-94.26	-3702	4685	1190	832	357.97	3.325		
11,700	5343	15,025	5341	162	240	-94.26	-3702	4685	1234	888	346.40	3.562		
11,800	5342	15,025	5341	164	240	-94.26	-3702	4685	1284	950	334.02	3.844		
11,900	5341	15,025	5341	167	240	-94.26	-3702	4685	1340	1018	321.26	4.170		
12,000	5340	15,025	5341	169	240	-94.26	-3702	4685	1400	1092	308.46	4.540		
12,100	5339	15,025	5341	172	240	-94.26	-3702	4685	1465	1169	295.90	4.952		
12,193	5338	15,025	5341	174	240	-94.26	-3702	4685	1529	1245	284.57	5.373		

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 207H - Original drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-18.27	3792	-1252	3994						
100	100	12	12	0	0	-18.27	3792	-1252	3993	3993	0.15	N/A			
200	200	112	112	0	0	-18.27	3792	-1252	3993	3993	0.69	5,786.118			
300	300	212	212	1	1	-18.27	3792	-1252	3993	3992	1.41	2,837.972			
400	400	312	312	1	1	-18.27	3792	-1252	3993	3991	2.12	1,880.049			
425	425	337	337	1	1	-18.27	3792	-1252	3993	3991	2.30	1,733.748			
500	500	412	412	2	1	102.97	3792	-1252	3994	3991	2.83	1,410.345			
576	576	468	468	2	1	102.99	3792	-1252	3995	3991	3.29	1,212.586			
600	600	480	480	2	2	103.00	3792	-1252	3995	3992	3.42	1,168.165			
700	700	529	529	2	2	103.05	3793	-1251	3998	3994	3.95	1,012.335			
800	799	600	600	3	2	103.15	3796	-1250	4002	3998	4.57	876.521			
900	899	625	625	3	2	103.18	3797	-1250	4008	4003	5.02	797.973			
1000	999	688	688	3	2	103.28	3801	-1248	4015	4009	5.62	714.729			
1100	1099	756	756	4	3	103.40	3806	-1246	4022	4016	6.23	645.453			
1200	1199	855	854	4	3	103.56	3814	-1242	4030	4023	6.97	578.581			
1300	1298	954	953	4	3	103.73	3822	-1239	4038	4030	7.70	524.295			
1400	1398	1053	1052	5	4	103.89	3829	-1236	4046	4038	8.44	479.408			
1500	1498	1152	1150	5	4	104.06	3837	-1233	4054	4045	9.18	441.630			
1600	1598	1251	1249	6	4	104.22	3844	-1230	4062	4052	9.92	409.457			
1700	1697	1350	1348	6	5	104.39	3852	-1226	4070	4059	10.66	381.730			
1800	1797	1449	1446	6	5	104.55	3859	-1223	4078	4067	11.40	357.595			
1900	1897	1548	1545	7	6	104.71	3867	-1220	4086	4074	12.15	336.399			
2000	1997	1647	1644	7	6	104.87	3875	-1217	4095	4082	12.89	317.640			
2100	2097	8778	5355	8	91	167.61	1534	1510	4035	3975	60.21	67.024			
2200	2196	8776	5355	8	91	167.57	1535	1509	3957	3895	61.42	64.424			
2300	2296	8775	5355	8	91	167.54	1537	1508	3879	3816	62.67	61.895			
2400	2396	8773	5355	9	91	167.50	1538	1507	3802	3738	63.97	59.440			
2500	2496	8771	5355	9	91	167.47	1539	1506	3727	3661	65.31	57.058			
2600	2595	8770	5355	9	91	167.43	1540	1505	3652	3586	66.70	54.753			
2700	2695	8768	5355	10	90	167.39	1541	1504	3579	3511	68.14	52.524			
2800	2795	8767	5355	10	90	167.36	1542	1503	3507	3438	69.63	50.374			
2900	2895	8765	5355	11	90	167.32	1543	1502	3437	3366	71.15	48.302			
3000	2995	8764	5355	11	90	167.29	1544	1500	3368	3295	72.73	46.309			
3100	3094	8762	5355	11	90	167.25	1545	1499	3301	3226	74.34	44.397			
3200	3194	8761	5355	12	90	167.21	1546	1498	3235	3159	76.00	42.565			
3300	3294	8759	5355	12	90	167.18	1547	1497	3171	3093	77.70	40.815			
3400	3394	8758	5355	12	90	167.14	1549	1496	3109	3030	79.42	39.147			
3500	3494	8756	5355	13	90	167.11	1550	1495	3049	2968	81.18	37.560			
3600	3593	8754	5355	13	90	167.07	1551	1494	2992	2909	82.97	36.055			
3700	3693	8753	5355	14	90	167.04	1552	1493	2936	2851	84.77	34.633			
3800	3793	8751	5355	14	90	167.00	1553	1492	2883	2796	86.59	33.293			
3900	3893	8750	5355	14	90	166.96	1554	1491	2832	2744	88.41	32.035			
4000	3992	8748	5355	15	90	166.93	1555	1490	2784	2694	90.23	30.859			
4100	4092	8747	5355	15	90	166.89	1556	1488	2739	2647	92.03	29.765			
4200	4192	8745	5355	15	90	166.86	1557	1487	2697	2603	93.81	28.753			
4300	4292	8744	5355	16	90	166.82	1558	1486	2658	2563	95.54	27.822			
4400	4392	8742	5355	16	90	166.78	1560	1485	2622	2525	97.23	26.971			
4500	4491	8741	5355	17	90	166.75	1561	1484	2590	2491	98.85	26.200			
4600	4591	8739	5355	17	90	166.71	1562	1483	2561	2461	100.39	25.509			
4700	4691	8737	5355	17	90	166.68	1563	1482	2536	2434	101.84	24.897			
4762	4753	8736	5355	18	90	166.65	1564	1481	2522	2419	102.70	24.554			
4800	4791	8737	5355	18	90	-146.63	1563	1482	2514	2411	103.21	24.358			

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 207H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4850	4840	8741	5355	18	90	-119.54	1560	1485	2505	2401	103.95	24.097		
4900	4890	8749	5355	18	90	-110.22	1555	1490	2497	2392	104.73	23.838		
4950	4938	8761	5355	18	90	-105.87	1546	1499	2489	2384	105.56	23.582		
5000	4985	8777	5355	18	91	-103.35	1535	1510	2483	2377	106.45	23.330		
5050	5031	8796	5355	19	91	-101.64	1521	1523	2478	2371	107.38	23.081		
5100	5076	8819	5355	19	92	-100.31	1505	1539	2474	2366	108.37	22.834		
5150	5118	8845	5355	19	92	-99.18	1486	1558	2472	2362	109.41	22.590		
5200	5158	8875	5355	19	93	-98.16	1465	1579	2469	2359	110.51	22.345		
5250	5196	8907	5355	19	94	-97.20	1442	1602	2468	2356	111.68	22.100		
5300	5231	8943	5355	19	95	-96.27	1417	1627	2467	2354	112.91	21.853		
5337	5255	8971	5355	20	95	-95.62	1397	1646	2467	2353	113.87	21.667 CC		
5350	5264	8981	5355	20	96	-95.39	1390	1654	2467	2353	114.22	21.602		
5400	5293	9022	5355	20	97	-94.56	1361	1682	2468	2352	115.60	21.345		
5450	5319	9064	5355	20	98	-93.78	1331	1712	2468	2351	117.07	21.084		
5500	5341	9109	5355	21	99	-93.08	1299	1744	2469	2350	118.62	20.816		
5550	5360	9155	5355	21	100	-92.46	1266	1776	2470	2350	120.25	20.542		
5600	5375	9203	5355	22	101	-91.94	1233	1810	2471	2349	121.95	20.262		
5650	5386	9251	5355	22	102	-91.53	1198	1844	2472	2348	123.73	19.979		
5700	5394	9301	5355	23	103	-91.24	1163	1879	2473	2347	125.57	19.692		
5750	5398	9351	5355	23	105	-91.07	1128	1914	2473	2346	127.46	19.405		
5778	5398	9379	5355	24	105	-91.04	1108	1934	2474	2345	128.53	19.246		
5800	5398	9401	5355	24	106	-91.04	1092	1949	2474	2344	129.39	19.120		
5900	5397	9501	5355	26	108	-91.06	1021	2020	2475	2341	133.38	18.555		
6000	5396	9601	5355	27	111	-91.08	950	2090	2476	2338	137.51	18.004		
6100	5395	9701	5355	29	113	-91.11	879	2161	2477	2335	141.76	17.471		
6200	5394	9801	5355	31	116	-91.13	808	2231	2478	2332	146.11	16.958		
6300	5393	9901	5355	33	118	-91.15	737	2301	2479	2328	150.53	16.465		
6400	5392	10,001	5355	35	121	-91.17	666	2372	2479	2324	155.03	15.994		
6500	5391	10,101	5355	37	123	-91.19	596	2442	2480	2321	159.57	15.544		
6600	5390	10,201	5355	39	125	-91.21	525	2513	2481	2317	164.17	15.114		
6700	5389	10,301	5355	41	128	-91.23	454	2583	2482	2313	168.81	14.705		
6800	5388	10,401	5355	43	130	-91.25	383	2654	2483	2310	173.48	14.314		
6900	5388	10,501	5355	46	133	-91.28	312	2724	2484	2306	178.17	13.942		
7000	5387	10,601	5355	48	135	-91.30	241	2795	2485	2302	182.90	13.587		
7100	5386	10,701	5355	50	138	-91.32	170	2865	2486	2298	187.64	13.249		
7200	5385	10,801	5355	53	140	-91.34	99	2936	2487	2295	192.41	12.926		
7300	5384	10,901	5355	55	143	-91.36	28	3006	2488	2291	197.19	12.617		
7400	5383	11,001	5355	57	145	-91.38	-43	3076	2489	2287	201.98	12.322		
7500	5382	11,101	5355	60	148	-91.40	-114	3147	2490	2283	206.79	12.040		
7600	5381	11,201	5355	62	150	-91.42	-185	3217	2491	2279	211.61	11.770		
7700	5380	11,300	5355	64	153	-91.44	-256	3288	2492	2275	216.44	11.512		
7800	5379	11,400	5355	67	155	-91.46	-327	3358	2493	2271	221.27	11.265		
7900	5378	11,500	5355	69	157	-91.49	-398	3429	2494	2267	226.12	11.027		
8000	5377	11,600	5355	71	160	-91.51	-469	3499	2494	2263	230.97	10.800		
8100	5376	11,700	5355	74	162	-91.53	-540	3570	2495	2260	235.83	10.581		
8200	5375	11,800	5355	76	165	-91.55	-611	3640	2496	2256	240.70	10.371		
8300	5374	11,900	5355	79	167	-91.57	-682	3711	2497	2252	245.57	10.169		
8400	5373	12,000	5355	81	170	-91.59	-753	3781	2498	2248	250.45	9.975		
8500	5373	12,100	5355	83	172	-91.61	-824	3851	2499	2244	255.33	9.788		
8600	5372	12,200	5355	86	175	-91.63	-895	3922	2500	2240	260.22	9.608		
8700	5371	12,300	5355	88	177	-91.65	-966	3992	2501	2236	265.11	9.434		
8800	5370	12,400	5355	91	180	-91.67	-1036	4063	2502	2232	270.00	9.266		

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design A11 2206 Pad - # 207H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
8900	5369	12,500	5355	93	182	-91.69	-1107	4133	2503	2228	274.90	9.105		
9000	5368	12,600	5355	95	185	-91.71	-1178	4204	2504	2224	279.80	8.949		
9100	5367	12,700	5355	98	187	-91.74	-1249	4274	2505	2220	284.70	8.798		
9200	5366	12,800	5355	100	190	-91.76	-1320	4345	2506	2216	289.61	8.652		
9300	5365	12,900	5355	103	192	-91.78	-1391	4415	2507	2212	294.51	8.511		
9400	5364	13,000	5355	105	195	-91.80	-1462	4486	2508	2208	299.42	8.375		
9500	5363	13,100	5355	108	197	-91.82	-1533	4556	2509	2204	304.34	8.243		
9600	5362	13,200	5355	110	200	-91.84	-1604	4626	2510	2200	309.25	8.115		
9700	5361	13,300	5355	113	202	-91.86	-1675	4697	2510	2196	314.17	7.991		
9800	5360	13,327	5355	115	203	-91.87	-1694	4716	2512	2195	317.13	7.922 ES		
9900	5359	13,327	5355	117	203	-91.87	-1694	4716	2518	2199	318.95	7.896		
10,000	5359	13,327	5355	120	203	-91.87	-1694	4716	2528	2208	320.26	7.894 SF		
10,100	5358	13,327	5355	122	203	-91.87	-1694	4716	2542	2221	321.09	7.916		
10,200	5357	13,327	5355	125	203	-91.87	-1694	4716	2559	2238	321.43	7.962		
10,300	5356	13,327	5355	127	203	-91.87	-1694	4716	2581	2259	321.30	8.031		
10,400	5355	13,327	5355	130	203	-91.87	-1694	4716	2605	2285	320.74	8.123		
10,500	5354	13,327	5355	132	203	-91.87	-1694	4716	2634	2314	319.76	8.237		
10,600	5353	13,327	5355	135	203	-91.87	-1694	4716	2666	2348	318.40	8.373		
10,700	5352	13,327	5355	137	203	-91.87	-1694	4716	2701	2385	316.69	8.530		
10,800	5351	13,327	5355	139	203	-91.87	-1694	4716	2740	2425	314.66	8.707		
10,900	5350	13,327	5355	142	203	-91.87	-1694	4716	2781	2469	312.36	8.904		
11,000	5349	13,327	5355	144	203	-91.87	-1694	4716	2826	2516	309.80	9.121		
11,100	5348	13,327	5355	147	203	-91.87	-1694	4716	2873	2566	307.04	9.357		
11,200	5347	13,327	5355	149	203	-91.87	-1694	4716	2923	2619	304.09	9.612		
11,300	5346	13,327	5355	152	203	-91.87	-1694	4716	2975	2674	300.99	9.885		
11,400	5345	13,327	5355	154	203	-91.87	-1694	4716	3030	2732	297.77	10.176		
11,500	5344	13,327	5355	157	203	-91.87	-1694	4716	3087	2793	294.46	10.485		
11,600	5344	13,327	5355	159	203	-91.87	-1694	4716	3147	2855	291.07	10.810		
11,700	5343	13,327	5355	162	203	-91.87	-1694	4716	3208	2920	287.63	11.153		
11,800	5342	13,327	5355	164	203	-91.87	-1694	4716	3271	2987	284.16	11.511		
11,900	5341	13,327	5355	167	203	-91.87	-1694	4716	3336	3055	280.68	11.885		
12,000	5340	13,327	5355	169	203	-91.87	-1694	4716	3403	3126	277.20	12.275		
12,100	5339	13,327	5355	172	203	-91.87	-1694	4716	3471	3197	273.72	12.681		
12,193	5338	13,327	5355	174	203	-91.87	-1694	4716	3536	3265	270.52	13.070		

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design L12 2206 Pad - 203H - Original drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-119.88	-15	-26	30						
100	100	100	100	0	0	-119.88	-15	-26	30	30	0.27	111.446			
200	200	200	200	0	0	-119.88	-15	-26	30	29	0.99	30.394			
300	300	300	300	1	1	-119.88	-15	-26	30	28	1.70	17.597			
400	400	400	400	1	1	-119.88	-15	-26	30	28	2.42	12.383			
425	425	425	425	1	1	-119.88	-15	-26	30	27	2.60	11.529			
500	500	500	500	2	2	0.46	-15	-26	29	26	3.12	9.298			
576	576	575	575	2	2	-4.95	-18	-26	27	23	3.63	7.364			
600	600	599	599	2	2	-7.87	-20	-26	26	22	3.79	6.852			
655	655	654	654	2	2	-16.78	-24	-26	25	21	4.17	6.038 CC, ES			
700	700	698	697	2	2	-25.48	-28	-25	26	21	4.47	5.766 SF			
800	799	796	795	3	3	-44.26	-41	-25	32	27	5.16	6.214			
900	899	894	891	3	3	-56.55	-58	-24	45	39	5.85	7.663			
1000	999	992	988	3	3	-63.30	-76	-23	60	54	6.57	9.194			
1100	1099	1091	1084	4	4	-67.25	-95	-22	76	69	7.30	10.474			
1200	1199	1189	1181	4	4	-69.83	-113	-21	93	85	8.03	11.545			
1300	1298	1288	1278	4	5	-71.64	-132	-20	109	100	8.77	12.437			
1400	1398	1387	1375	5	5	-72.97	-150	-19	126	116	9.52	13.194			
1500	1498	1485	1472	5	6	-73.99	-169	-18	142	132	10.27	13.840			
1600	1598	1584	1569	6	6	-74.80	-187	-17	159	148	11.02	14.399			
1700	1697	1682	1666	6	7	-75.46	-206	-16	175	164	11.78	14.885			
1800	1797	1781	1762	6	7	-76.00	-224	-15	192	179	12.53	15.312			
1900	1897	1880	1859	7	8	-76.46	-242	-14	209	195	13.29	15.689			
2000	1997	1978	1956	7	8	-76.85	-261	-13	225	211	14.05	16.025			
2100	2097	2077	2053	8	9	-77.18	-279	-12	242	227	14.81	16.326			
2200	2196	2175	2150	8	9	-77.48	-298	-11	259	243	15.58	16.597			
2300	2296	2274	2247	8	10	-77.73	-316	-10	275	259	16.34	16.842			
2400	2396	2372	2343	9	10	-77.96	-335	-10	292	275	17.10	17.065			
2500	2496	2471	2440	9	11	-78.16	-353	-9	309	291	17.87	17.269			
2600	2595	2570	2537	9	11	-78.35	-372	-8	325	307	18.63	17.455			
2700	2695	2668	2634	10	12	-78.51	-390	-7	342	322	19.39	17.627			
2800	2795	2767	2731	10	12	-78.66	-409	-6	359	338	20.16	17.785			
2900	2895	2865	2828	11	13	-78.79	-427	-5	375	354	20.93	17.931			
3000	2995	2964	2924	11	13	-78.92	-446	-4	392	370	21.69	18.067			
3100	3094	3063	3021	11	14	-79.03	-464	-3	409	386	22.46	18.194			
3200	3194	3161	3118	12	14	-79.14	-483	-2	425	402	23.22	18.312			
3300	3294	3260	3215	12	15	-79.24	-501	-1	442	418	23.99	18.422			
3400	3394	3358	3312	12	15	-79.33	-520	0	459	434	24.76	18.525			
3500	3494	3457	3409	13	16	-79.41	-538	1	475	450	25.53	18.622			
3600	3593	3556	3506	13	16	-79.49	-557	2	492	466	26.29	18.714			
3700	3693	3654	3602	14	17	-79.56	-575	3	509	482	27.06	18.800			
3800	3793	3753	3699	14	17	-79.63	-594	4	525	498	27.83	18.881			
3900	3893	3851	3796	14	18	-79.69	-612	5	542	514	28.60	18.957			
4000	3992	3950	3893	15	18	-79.75	-631	6	559	529	29.37	19.030			
4100	4092	4049	3990	15	19	-79.81	-649	7	576	545	30.13	19.099			
4200	4192	4147	4087	15	19	-79.86	-668	8	592	561	30.90	19.164			
4300	4292	4246	4183	16	20	-79.91	-686	9	609	577	31.67	19.226			
4400	4392	4344	4280	16	20	-79.96	-705	10	626	593	32.44	19.285			
4500	4491	4443	4377	17	21	-80.01	-723	10	642	609	33.21	19.342			
4600	4591	4542	4474	17	21	-80.05	-742	11	659	625	33.98	19.395			
4700	4691	4640	4571	17	22	-80.09	-760	12	676	641	34.75	19.447			
4762	4753	4702	4631	18	22	-80.12	-772	13	686	651	35.23	19.478			

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design L12 2206 Pad - 203H - Original drilling - APD														Offset Site Error:	0 ft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
4800	4791	4739	4668	18	22	-32.87	-779	13	691	656	35.51	19.471			
4850	4840	5750	5388	18	22	60.55	-454	-436	654	632	22.62	28.922			
4900	4890	5740	5386	18	22	76.41	-461	-428	611	587	23.63	25.846			
4950	4938	5685	5375	18	22	78.29	-498	-390	568	543	25.05	22.695			
5000	4985	5697	5378	18	22	89.47	-491	-398	528	502	26.11	20.213			
5050	5031	5673	5373	19	22	92.60	-507	-381	489	461	27.60	17.714			
5100	5076	5649	5367	19	22	94.45	-523	-364	452	423	29.21	15.477			
5150	5118	5624	5359	19	22	95.27	-538	-347	418	387	30.97	13.499			
5200	5158	5600	5351	19	22	95.23	-554	-330	387	355	32.81	11.808			
5250	5196	5575	5342	19	23	94.39	-570	-313	361	326	34.69	10.397			
5300	5231	5550	5332	19	23	92.83	-585	-296	339	302	36.50	9.279			
5350	5264	5526	5320	20	23	90.58	-599	-280	322	284	38.13	8.444			
5400	5293	5501	5309	20	23	87.69	-614	-264	311	272	39.45	7.889			
5450	5319	5476	5296	20	23	84.21	-628	-248	307	266	40.40	7.591			
5462	5324	5470	5293	20	23	83.26	-631	-244	306	266	40.56	7.555			
5500	5341	5451	5282	21	23	80.22	-641	-232	308	267	40.93	7.527			
5550	5360	5426	5268	21	23	75.81	-655	-216	315	274	41.15	7.658			
5600	5375	5400	5252	22	23	70.93	-668	-200	327	286	41.11	7.952			
5650	5386	5376	5237	22	23	66.29	-679	-186	343	302	41.07	8.341			
5700	5394	5350	5219	23	23	61.26	-692	-171	361	320	40.94	8.822			
5750	5398	5327	5203	23	23	56.74	-702	-158	382	341	40.99	9.317			
5778	5398	5313	5193	24	23	54.21	-708	-150	394	353	41.02	9.607			
5800	5398	5300	5184	24	23	52.89	-713	-143	404	363	40.99	9.862			
5900	5397	5250	5146	26	23	47.85	-733	-117	457	416	40.98	11.141			
6000	5396	5220	5121	27	23	44.94	-743	-103	518	476	41.48	12.483			
6100	5395	5188	5095	29	23	41.95	-753	-88	586	545	41.69	14.066			
6200	5394	5150	5063	31	23	38.69	-764	-72	661	619	41.62	15.877			
6300	5393	5135	5050	33	23	37.49	-768	-66	739	697	42.05	17.578			
6400	5392	5114	5031	35	23	35.80	-773	-57	821	779	42.20	19.458			
6500	5391	5100	5018	37	23	34.70	-776	-52	906	863	42.40	21.360			
6600	5390	5079	4999	39	23	33.18	-780	-45	992	950	42.42	23.398			
6700	5389	5050	4972	41	23	31.13	-785	-35	1081	1039	42.27	25.579			
6800	5388	5050	4972	43	23	31.13	-785	-35	1171	1128	42.56	27.512			
6900	5388	5050	4972	46	23	31.13	-785	-35	1262	1219	42.78	29.501			
7000	5387	5029	4952	48	23	29.77	-788	-28	1354	1311	42.71	31.702			
7100	5386	5020	4943	50	23	29.16	-789	-26	1447	1404	42.76	33.839			
7200	5385	5000	4925	53	23	27.96	-791	-20	1541	1498	42.67	36.113			
7300	5384	5000	4925	55	23	27.96	-791	-20	1635	1592	42.79	38.205			
7400	5383	5000	4925	57	23	27.96	-791	-20	1730	1687	42.90	40.320			
7500	5382	5000	4925	60	23	27.96	-791	-20	1825	1782	42.99	42.453			
7600	5381	5000	4925	62	23	27.96	-791	-20	1921	1878	43.07	44.601			
7700	5380	4977	4902	64	23	26.61	-793	-14	2017	1974	42.94	46.962			
7800	5379	4971	4897	67	23	26.31	-793	-13	2113	2070	42.96	49.176			
7900	5378	4950	4876	69	23	25.16	-795	-8	2210	2167	42.86	51.559			
8000	5377	4950	4876	71	23	25.16	-795	-8	2306	2263	42.92	53.735			
8100	5376	4950	4876	74	23	25.16	-795	-8	2403	2360	42.98	55.917			
8200	5375	4950	4876	76	23	25.16	-795	-8	2500	2457	43.03	58.106			
8300	5374	4950	4876	79	23	25.16	-795	-8	2598	2555	43.08	60.298			
8400	5373	4950	4876	81	23	25.16	-795	-8	2695	2652	43.13	62.495			
8500	5373	4950	4876	83	23	25.16	-795	-8	2793	2750	43.18	64.694			
8600	5372	4950	4876	86	23	25.16	-795	-8	2891	2848	43.22	66.894			
8700	5371	4950	4876	88	23	25.16	-795	-8	2989	2946	43.26	69.096			

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

Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Offset Design L12 2206 Pad - 203H - Original drilling - APD													Offset Site Error:	0 ft
Survey Program: 0-MWD+HGRF													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8800	5370	4950	4876	91	23	25.16	-795	-8	3087	3044	43.30	71.299		
8900	5369	4950	4876	93	23	25.16	-795	-8	3186	3142	43.34	73.501		
9000	5368	4928	4854	95	23	24.03	-795	-4	3284	3240	43.25	75.926		
9100	5367	4925	4852	98	23	23.91	-795	-3	3382	3339	43.27	78.153		
9200	5366	4923	4850	100	23	23.79	-795	-3	3480	3437	43.30	80.378		
9300	5365	4900	4827	103	23	22.71	-795	1	3579	3536	43.21	82.838		
9400	5364	4900	4827	105	23	22.71	-795	1	3678	3635	43.25	85.035		
9500	5363	4900	4827	108	23	22.71	-795	1	3777	3733	43.29	87.229		
9600	5362	4900	4827	110	23	22.71	-795	1	3875	3832	43.34	89.420		
9700	5361	4900	4827	113	23	22.71	-795	1	3974	3931	43.38	91.609		
9800	5360	4900	4827	115	23	22.71	-795	1	4073	4029	43.42	93.795		
9900	5359	4900	4827	117	23	22.71	-795	1	4172	4128	43.47	95.977		
10,000	5359	4900	4827	120	23	22.71	-795	1	4271	4227	43.51	98.156		
10,100	5358	4900	4827	122	23	22.71	-795	1	4370	4326	43.55	100.331		
10,200	5357	4900	4827	125	23	22.71	-795	1	4469	4425	43.59	102.503		
10,300	5356	4900	4827	127	23	22.71	-795	1	4568	4524	43.64	104.670		
10,400	5355	4900	4827	130	23	22.71	-795	1	4667	4623	43.68	106.833		
10,500	5354	4900	4827	132	23	22.71	-795	1	4766	4722	43.73	108.991		
10,600	5353	4900	4827	135	23	22.71	-795	1	4865	4821	43.77	111.144		
10,700	5352	4900	4827	137	23	22.71	-795	1	4964	4920	43.82	113.293		
10,800	5351	4900	4827	139	23	22.71	-795	1	5063	5020	43.86	115.436		
10,900	5350	4900	4827	142	23	22.71	-795	1	5163	5119	43.91	117.574		
11,000	5349	4900	4827	144	23	22.71	-795	1	5262	5218	43.96	119.707		
11,100	5348	4900	4827	147	23	22.71	-795	1	5361	5317	44.01	121.834		
11,200	5347	4900	4827	149	23	22.71	-795	1	5461	5417	44.05	123.956		
11,300	5346	4900	4827	152	23	22.71	-795	1	5560	5516	44.10	126.072		
11,400	5345	4900	4827	154	23	22.71	-795	1	5659	5615	44.15	128.182		
11,500	5344	4900	4827	157	23	22.71	-795	1	5759	5715	44.20	130.287		
11,600	5344	4900	4827	159	23	22.71	-795	1	5858	5814	44.25	132.385		
11,700	5343	4900	4827	162	23	22.71	-795	1	5958	5913	44.30	134.477		
11,800	5342	4900	4827	164	23	22.71	-795	1	6057	6013	44.35	136.563		
11,900	5341	4900	4827	167	23	22.71	-795	1	6157	6112	44.41	138.642		
12,000	5340	4900	4827	169	23	22.71	-795	1	6256	6212	44.46	140.715		
12,100	5339	4900	4827	172	23	22.71	-795	1	6356	6311	44.51	142.782		
12,193	5338	4900	4827	174	23	22.71	-795	1	6448	6404	44.56	144.696		

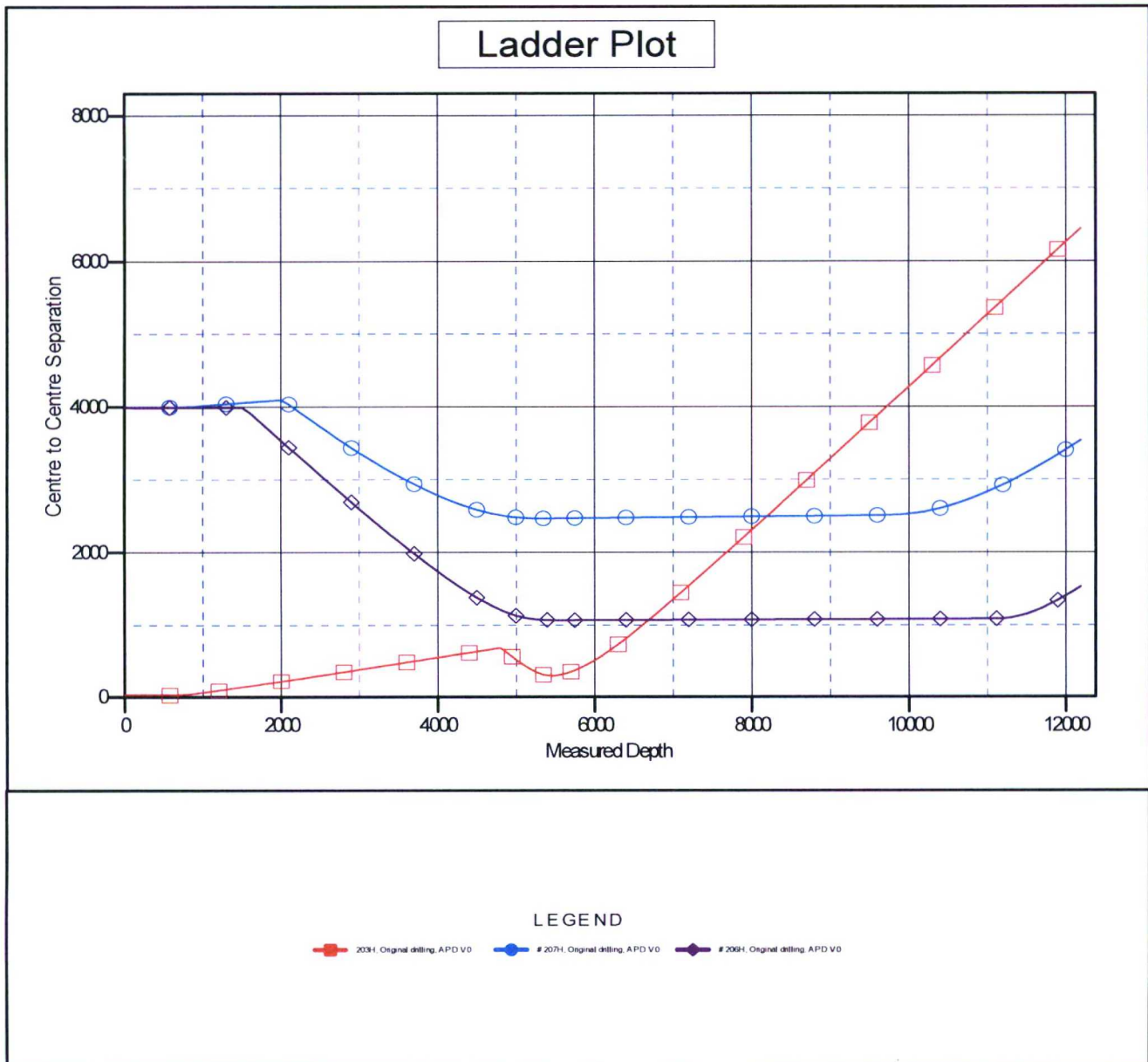
Anticollision Report

Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
Reference Design: APD

Local Co-ordinate Reference: Well 204H
TVD Reference: RIG @ 7065ft (AD #1000)
MD Reference: RIG @ 7065ft (AD #1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM
Offset TVD Reference: Offset Datum

Reference Depths are relative to RIG @ 7065ft (AD #1000)
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333333

Coordinates are relative to: 204H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.24°



Anticollision Report

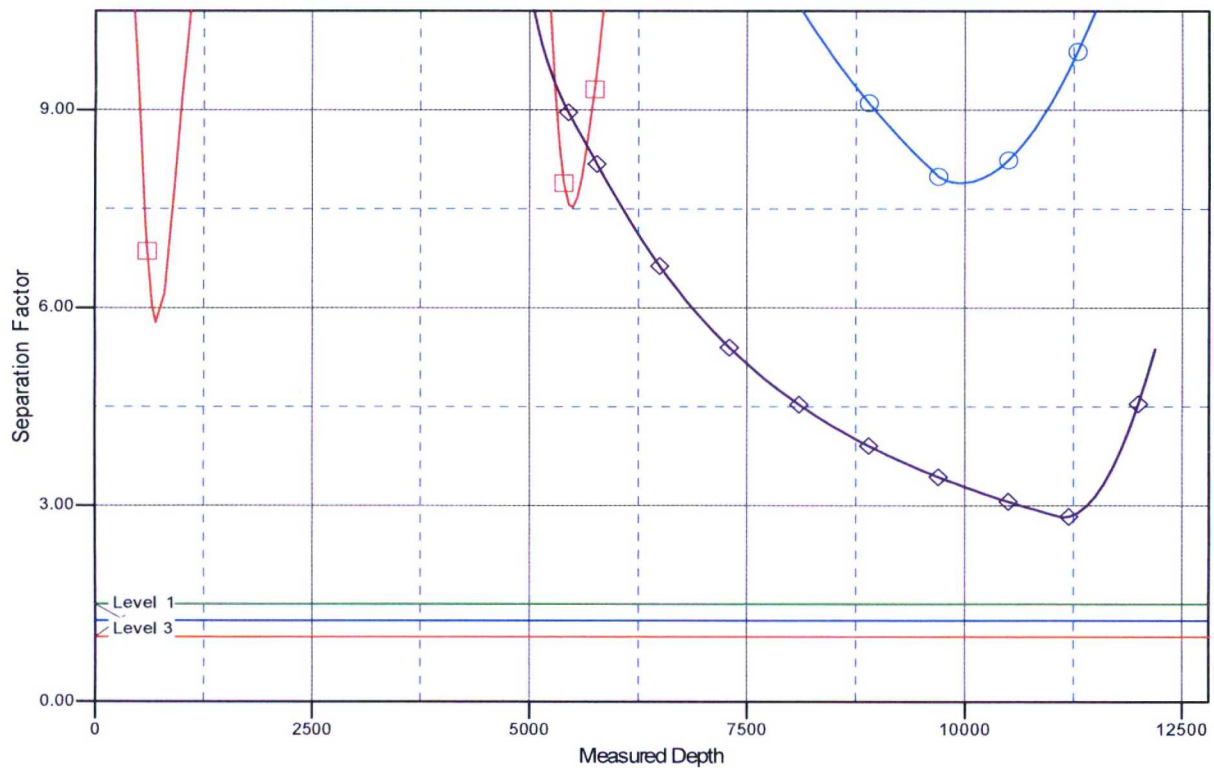
Company: DJR Operating
Project: Venado Canyon Unit
Reference Site: L12 2206 Pad
Site Error: 0 ft
Reference Well: 204H
Well Error: 0 ft
Reference Wellbore: Original drilling
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Offset TVD Reference: Offset Datum

Reference Depths are relative to RIG @ 7065ft (AD #1000)
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333333

Coordinates are relative to: 204H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.24°

Separation Factor Plot



LEGEND

204H, Original drilling, APD V0 207H, Original drilling, APD V0 209H, Original drilling, APD V0