

Well Name: BETONNIE TSOSIE WASH UNIT	Well Location: T23N / R8W / SEC 35 / NENE / 36.18878 / -107.64483	County or Parish/State: SAN JUAN / NM
Well Number: 214H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NMNM76842	Unit or CA Name:	Unit or CA Number: NMNM135219A
US Well Number: 3004538235	Well Status: Drilling Well	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2669591

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/02/2022

Time Sundry Submitted: 02:50

Date proposed operation will begin: 05/02/2022

Procedure Description: DJR Operating, LLC has an approved APD for the subject well which is part of DJR's undivided Betonnie Tsosie Wash Unit. In order to avoid well communication with existing laterals on an offset DJR pad, DJR requests approval to extend the lateral by 2300' resulting in new first and last take points. The first take point will be moved away from the 330' Unit setback. The 7" casing will be set 125' TVD above the top of the pay zone. This change will also alter the 4.5" liner plans. Revised Directional Drilling Plans, WBD with cement slurries, Well Location and Acreage Dedication Plat are attached.

NOI Attachments

- Procedure Description
- 214H_Well_Plat_Rev1_20220504070939.pdf

214H_Directional_Drilling_Plan_Rev1_20220502144946.pdf

214H_Drilling_and_Casing_Plan_Rev1_20220502144945.pdf

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Lease Number: NMNM76842	Unit or CA Name:	Unit or CA Number: NMNM135219A
US Well Number: 3004538235	Well Status: Drilling Well	Operator: DJR OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHAW-MARIE FORD	Signed on: MAY 04, 2022 07:09 AM
Name: DJR OPERATING LLC	
Title: Regulatory Specialist	
Street Address: 1 Road 3263	
City: Aztec	State: NM
Phone: (505) 632-3476	
Email address: sford@djrlc.com	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 05/04/2022
Signature: Kenneth Rennick	

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

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

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38235	² Pool Code 98175	³ Pool Name BETONNIE TSOSIE WASH UNIT MANCOS OIL POOL
⁴ Property Code 325179	⁵ Property Name BETONNIE TSOSIE WASH UNIT	⁶ Well Number 214H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6974'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	23N	8W		683'	NORTH	835'	EAST	SAN JUAN

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	East/West line	County
O	22	23N	8W		478'	SOUTH	1465'	EAST	SAN JUAN

¹² Dedicated Acres PENETRATED SPACING UNIT;
SEC 35: NE/NE & NW/NE (80 AC.); SEC 26: NW/NW,
SW/NW, SE/NW, NW/SW, NE/SW, SE/SW, NW/SE, SW/SE &
SE/SE (360 AC.); SEC 27: NW/NE, NE/NE & SE/NE (120
AC.); SEC 22: SW/SE & SE/SE (80 AC.) = 640 ACRES

¹³ Joint or Infill

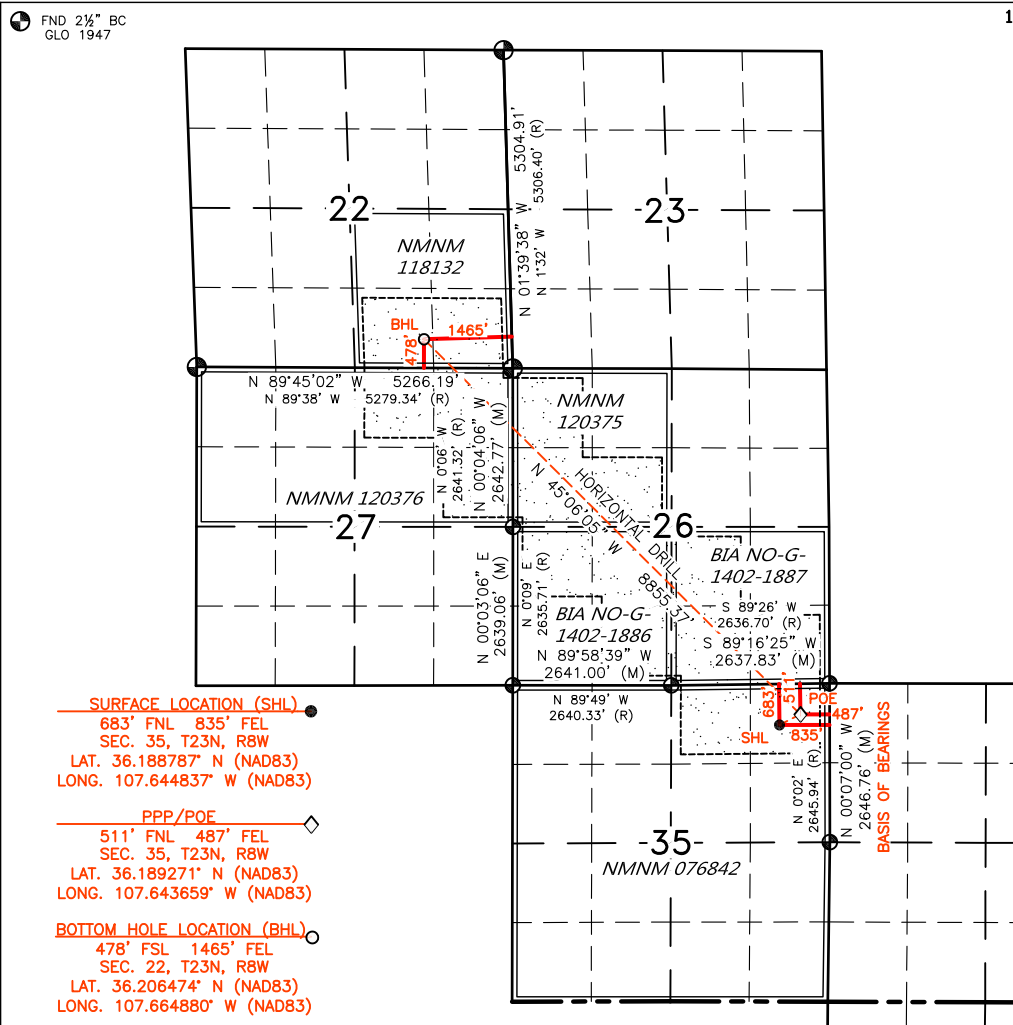
¹⁴ Consolidation Code

¹⁵ Order No.

R-13930 R-13930A

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.

Shaw-Marie Ford 05/02/22
Signature Date

Shaw-Marie Ford
Printed Name

sford@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.

MAY 2, 2022

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

11393

Rev 1



DRILLING PLAN

Bettonie Tsosie Wash Unit 214H

San Juan County, New Mexico

Surface Location

835-ft FEL & 683-ft FNL
 Sec 35 T23N R08W
 Graded Elevation 6974' MSL
 RKB Elevation 7000' (26' KB)

SHL Geographical Coordinates (NAD-83)

Latitude 36.1887870° N
 Longitude 107.6448370° W

Kick Off Point for Horizontal Build Curve

4305-ft MD
 4198-ft TVD

Local Coordinates (from SHL)

368-ft South
 782-ft East

Heel Location (Pay zone entry)

487-ft FEL & 511-ft FNL
 Sec 35 T23N R08W

Heel Geographical Coordinates (NAD-83)

Latitude 36.18927105° N
 Longitude 107.64365885° W

Bottom Hole Location (TD)

1465-ft FEL & 478-ft FSL
 Sec 22 T23N R08W

BHL Geographical Coordinates (NAD-83)

Latitude 36.20647381° N
 Longitude 107.6648799° W

Well objectives

This well is planned as a 8855-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 139°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	803	803	Sd	W	8.3	8.4 – 8.8
Kirtland	937	935	Sh	-	8.3	8.4 – 8.8
Fruitland	1216	1209	C	G	8.3	9.0 - 9.5
Pictured Cliffs	1498	1482	Sd	W	8.3	9.0 - 9.5
Lewis	1651	1630	Sh	-		9.0 - 9.5
Chacra	2218	2179	Sd	-	8.3	9.0 - 9.5
Menefee	2985	2921	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	3946	3851	Sd	-	8.3	9.0 - 9.5
Mancos	4107	4007	Sh	-		9.0 - 9.5
Mancos Silt	4392	4284	Slt	O/G	6.6	9.0 - 9.5
Gallup A	4927	4787	Slt	O/G	6.6	9.0 - 9.5
Gallup B	4995	4840	Sd	O/G	6.6	8.8 -9.0
Gallup C	5154	4946	Sd	O/G	6.6	8.8 -9.0
Target	5600	5081	Sd	O/G	6.6	8.8 -9.0

Casing Program

Casing OD	Hole Size	Weight (#/ft)	Grade	Coupling	MD Top	MD Bottom	TVD Top	TVD Bottom	Top of Cement
9-5/8"	12-1/4"	36	K-55	STC	surf	380	surf	380	surface
7"	8-3/4"	26	K-55	LTC	surf	5145	surf	4941	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	4995	14455	4840	5138	4995

Note: all casing will be new



Rev 1

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		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 Design9-5/8" Surface Casing

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

7" Intermediate Casing

	Lead	Tail
	American	American
Type	I/II	Poz/G
Planned top	Surface	4107-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	2.32	1.51
Mix water (gal/sx)	13.22	7.13
Volume (sx)	457	109
Volume (bbls)	189	29
Volume (cu.ft.)	1064	165
Excess %	78	0



Rev 1

4-1/2" Production Liner

Type	American
Planned top	Poz/G
Density (ppg)	4995-ft
Yield (cf/sx)	13.3
Mix water (gal/sx)	1.52
Volume (sx)	7.52
Volume (bbls)	820
Volume (cu.ft)	222
Excess %	1247
	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 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 – 380	8.4 – 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non-dispersed	380 – 5145	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5145 – 14455	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.

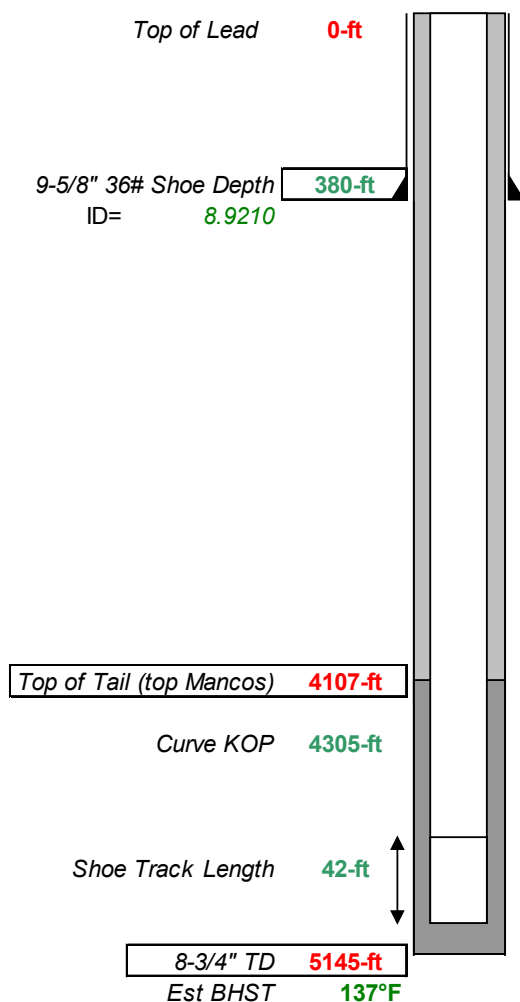
Completion

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.

Rev 1



7" Intermediate Casing & Cementing Bettonie Tsosie Wash Unit 214H



Assumed Hole Size Lead	8.7500	in
Assumed Hole Size Tail	8.7500	in
Casing OD	7.0000	in
Casing ID	6.2760	in

% OH Excess Lead	78%
% OH Excess Tail	0%

Capacity CH Ann	0.0297	bbl/ft
Capacity OH Ann Lead	0.0268	bbl/ft
Capacity OH Ann Tail	0.0268	bbl/ft
Capacity Pipe	0.0383	bbl/ft

7" 26# K-55 LT&C

Pipe OD	7.000	in
Weight	26	lbs/ft
Grade	K-55	
Coupling	LTC	
Coupling OD	7.656	in
ID	6.276	in
Drift	6.151	in
Burst	4980	psi
Collapse	4320	psi
Tensile (body)	415	kips
Tensile (joint)	401	kips
Min Torque	3008	ft-lbs
Opt Torque	4010	ft-lbs
Max Torque	5013	ft-lbs

Lead Slurry - American Cementing		Properties
ASTM Type I/II		Density 12.30 ppg
KCI 3% BWOW		Yield 2.32 cf/sk
GW-86 0.1% BWOB		Water required 13.22 gal/sk
FL-66 0.2% BWOB		Thickening Time 5:02 hr:min
R-3 0.3% BWOB		Time to 50 psi (95°F) 5:26 hr:min
FP-24 0.3% BWOB		12-hr UCA (95°F) 468 psi
POLI 0.25 lb/sx		24-hr UCA (95°F) 829 psi
BA-90 5.0 lb/sx		
Tail Slurry - American Cementing		Properties
G+Pozz 50:50		Density 13.50 ppg
FL-66 0.4% BWOB		Yield 1.51 cf/sk
FP-24 0.3% BWOB		Water required 7.13 gal/sk
A-2 0.5% BWOB		Thickening Time 4:02 hr:min
A-10 3% BWOB		Time to 50 psi (130°F) 3:25 hr:min
BA-90 3 lb/sx		Time to 500 psi (130°F) 7:05 hr:min
POLI 0.25 lb/sx		24-hr UCA (130°F) 2162 psi

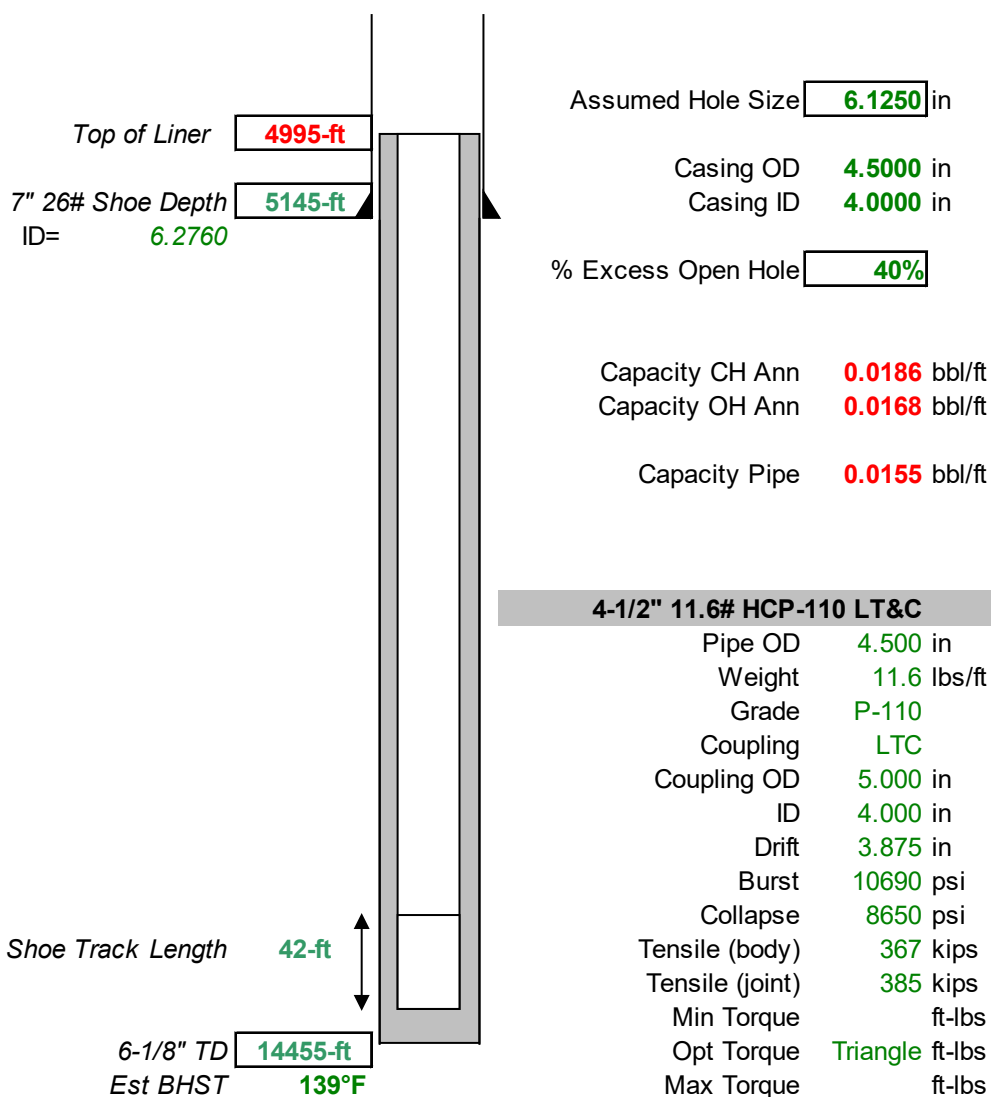
Volumes

Lead Volume	189	bbls	457	sx
Tail Volume	29	bbls	109	sx
Approx Displacement	195	bbls		
Total Volume	414	bbls		

Rev 1



4-1/2" Liner Cementing Bettonnie Tsosie Wash Unit 214H



Slurry - American Cementing		Properties	
G+Pozz	50:50	Density	13.3 ppg
GW-86	0.1% BWOB	Yield	1.52 cf/sk
R-3	0.3% BWOB	Total Mix Fluid	7.53 gal/sk
FP-24	0.3% BWOB	Thickening Time	6:39 hr:min
FL-24	0.4% BWOB	Time to 50 psi (130°F)	6:34 hr:min
Gel	4% BWOB	24-hr UCA (130°F)	546 psi
		72-hr UCA (130°F)	2038 psi
Volumes			
Lead Volume	222 bbls	820	sx
Approx Displacement	156 bbls		
Total Volume	378 bbls		



DJR Operating

Company: DJR Operating
Project: Betomnie Tsosie Unit
Site: A35 2308 Pad
Well: # 214H
Wellbore: Original Drilling
Design: Pre-Drill Rev 3

PROJECT DETAILS: Betomnie Tsosie Unit

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: True

WELL DETAILS: # 214H

			GL 6974' & RKB 26' @ 7000ft (H&P 443)	Longitude
			Latitude	
+N/-S	+E/-W	0	1888069.72	2778713.34
			36.18878700	-107.64483700

Plan: Pre-Drill Rev 3 (# 214H/Original Drilling)
Created By: Janie Collins Date: 15:29, April 29 2022

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
7" Casing @ 4941' TVD	4941	-130	637	1887940.55	2779350.66	36.18842875	-107.64267808
4H Heel Rev 1	5081	176	348	1888246.60	2779060.65	36.18927104	-107.64365883
4H Toe Rev 1	5138	6439	-5913	1894497.20	2772787.87	36.20647381	-107.66487994

SECTION DETAILS

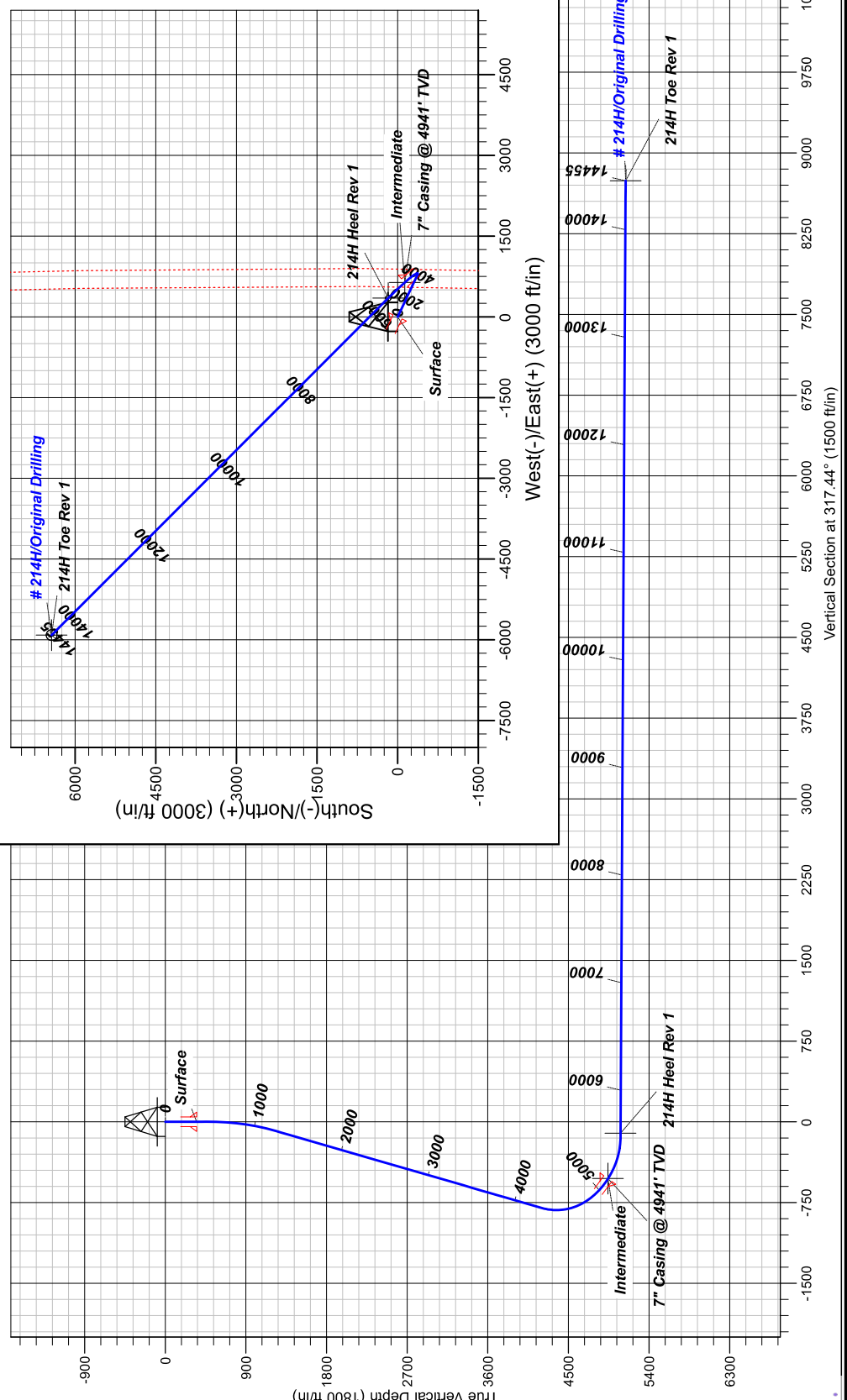
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0	0.00	0.00	515	0	0	0.00	0.00	0
515	14.60	115.18	1237	-39	84	0.00	115.18	-86
1245	53.00	318.69	4294	-336	729	2.00	115.18	-729
1780	51.85	318.69	4941	-106	637	9.00	159.00	-527
2295	53.69	318.69	4965	-106	616	0.00	0.00	-495
2810	89.37	315.03	5081	146	378	9.65	-6.24	-148
3325	5557	315.03	5081	176	348	0.00	0.00	-105
3840	5600	315.03	5081	185	338	2.00	-5.52	-92
4355	5613	315.01	5081	185	338	0.00	0.00	-92
4870	14455	315.01	5138	6439	-5913	0.00	0.00	8742

CASING DETAILS

TVD	MD	Name
350	350	Surface
4941	5145	Intermediate

FORMATION DETAILS

TVDPath	MDPath	Formation
803	803	Ojo Alamo
935	937	Kirtland
1209	1216	Fruitland
1482	1498	Pictured Cliffs
1630	1651	Lewis
2179	2218	Chacra
2921	2985	Menefee
3851	3946	Point Lookout
4007	4107	Mancos
4284	4392	Mancos Silt
4787	4827	Gallup A
4840	4995	Gallup B
4946	5154	Gallup C





DJR Operating

Bettonie Tsosie Unit

A35 2308 Pad

214H - Slot 2

Original Drilling

Plan: Pre-Drill Rev 3

Standard Planning Report

29 April, 2022





Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonne Tsoie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Project	Betonne Tsoie 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	A35 2308 Pad			
Site Position:		Northing:	1,888,089.74 usft	Latitude: 36.18884200
From:	Lat/Long	Easting:	2,778,713.01 usft	Longitude: -107.64483800
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	

Well	# 214H - Slot 2			
Well Position	+N/-S	0 ft	Northing:	1,888,069.72 usft
	+E/-W	0 ft	Easting:	2,778,713.35 usft
Position Uncertainty		0 ft	Wellhead Elevation:	ft
Grid Convergence:		0.11 °	Ground Level:	6974 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	4/21/2022	8.52	62.67	49,082.50000000

Design	Pre-Drill Rev 3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	317.44

Plan Survey Tool Program	Date	4/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0	14,455	Pre-Drill Rev 3 (Original Drilling)	MWD+HDGM
				OWSG MWD + HDGM



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonnies Tsoie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
515	0.00	0.00	515	0	0	0.00	0.00	0.00	0.00	
1245	14.60	115.18	1237	-39	84	2.00	2.00	0.00	115.18	
4305	14.60	115.18	4198	-368	782	0.00	0.00	0.00	0.00	
5145	53.69	318.69	4941	-130	637	8.00	4.65	-18.62	-159.60	7" Casing @ 4941' TV
5185	53.69	318.69	4965	-106	616	0.00	0.00	0.00	0.00	
5557	89.37	315.03	5080	146	378	9.65	9.61	-0.98	-6.24	
5600	89.37	315.03	5081	176	348	0.00	0.00	0.00	0.00	214H Heel Rev 1
5613	89.63	315.01	5081	185	338	2.00	1.99	-0.19	-5.52	
14,455	89.63	315.01	5138	6439	-5913	0.00	0.00	0.00	0.00	214H Toe Rev 1



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonneie Tsosie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	0	0	0	0.00	0.00	0.00
200	0.00	0.00	200	0	0	0	0.00	0.00	0.00
300	0.00	0.00	300	0	0	0	0.00	0.00	0.00
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
500	0.00	0.00	500	0	0	0	0.00	0.00	0.00
515	0.00	0.00	515	0	0	0	0.00	0.00	0.00
600	1.70	115.18	600	-1	1	-1	2.00	2.00	0.00
700	3.70	115.18	700	-3	5	-6	2.00	2.00	0.00
800	5.70	115.18	800	-6	13	-13	2.00	2.00	0.00
900	7.70	115.18	899	-11	23	-24	2.00	2.00	0.00
1000	9.70	115.18	998	-17	37	-38	2.00	2.00	0.00
1100	11.70	115.18	1096	-25	54	-55	2.00	2.00	0.00
1200	13.70	115.18	1193	-35	74	-75	2.00	2.00	0.00
1245	14.60	115.18	1237	-39	84	-86	2.00	2.00	0.00
1300	14.60	115.18	1290	-45	96	-98	0.00	0.00	0.00
1400	14.60	115.18	1387	-56	119	-122	0.00	0.00	0.00
1500	14.60	115.18	1484	-67	142	-145	0.00	0.00	0.00
1600	14.60	115.18	1581	-77	165	-168	0.00	0.00	0.00
1700	14.60	115.18	1677	-88	188	-192	0.00	0.00	0.00
1800	14.60	115.18	1774	-99	210	-215	0.00	0.00	0.00
1900	14.60	115.18	1871	-110	233	-238	0.00	0.00	0.00
2000	14.60	115.18	1968	-120	256	-262	0.00	0.00	0.00
2100	14.60	115.18	2065	-131	279	-285	0.00	0.00	0.00
2200	14.60	115.18	2161	-142	302	-308	0.00	0.00	0.00
2300	14.60	115.18	2258	-153	324	-332	0.00	0.00	0.00
2400	14.60	115.18	2355	-163	347	-355	0.00	0.00	0.00
2500	14.60	115.18	2452	-174	370	-378	0.00	0.00	0.00
2600	14.60	115.18	2548	-185	393	-402	0.00	0.00	0.00
2700	14.60	115.18	2645	-195	416	-425	0.00	0.00	0.00
2800	14.60	115.18	2742	-206	438	-448	0.00	0.00	0.00
2900	14.60	115.18	2839	-217	461	-472	0.00	0.00	0.00
3000	14.60	115.18	2935	-228	484	-495	0.00	0.00	0.00
3100	14.60	115.18	3032	-238	507	-518	0.00	0.00	0.00
3200	14.60	115.18	3129	-249	530	-542	0.00	0.00	0.00
3300	14.60	115.18	3226	-260	552	-565	0.00	0.00	0.00
3400	14.60	115.18	3323	-270	575	-588	0.00	0.00	0.00
3500	14.60	115.18	3419	-281	598	-612	0.00	0.00	0.00
3600	14.60	115.18	3516	-292	621	-635	0.00	0.00	0.00
3700	14.60	115.18	3613	-303	644	-658	0.00	0.00	0.00
3800	14.60	115.18	3710	-313	667	-682	0.00	0.00	0.00
3900	14.60	115.18	3806	-324	689	-705	0.00	0.00	0.00
4000	14.60	115.18	3903	-335	712	-728	0.00	0.00	0.00
4100	14.60	115.18	4000	-346	735	-752	0.00	0.00	0.00
4200	14.60	115.18	4097	-356	758	-775	0.00	0.00	0.00
4300	14.60	115.18	4193	-367	781	-798	0.00	0.00	0.00
4305	14.60	115.18	4198	-368	782	-799	0.00	0.00	0.00
4400	7.92	95.63	4291	-373	799	-815	8.00	-7.03	-20.58
4500	5.38	24.44	4391	-370	808	-819	8.00	-2.54	-71.19
4600	11.09	341.72	4490	-356	807	-808	8.00	5.71	-42.72
4700	18.56	330.20	4587	-333	796	-784	8.00	7.48	-11.52
4800	26.34	325.23	4679	-301	775	-746	8.00	7.78	-4.97
4900	34.22	322.42	4765	-261	745	-696	8.00	7.88	-2.81
5000	42.14	320.56	4844	-212	707	-635	8.00	7.92	-1.86



Lonestar Consulting, LLC

Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonnies Tsosie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5100	50.09	319.20	4913	-157	660	-563	8.00	7.94	-1.36
5145	53.69	318.69	4941	-130	637	-527	8.00	7.95	-1.14
5185	53.69	318.69	4965	-106	616	-495	0.00	0.00	0.00
5200	55.10	318.50	4973	-97	608	-483	9.65	9.59	-1.28
5300	64.70	317.36	5023	-33	550	-396	9.65	9.60	-1.14
5400	74.31	316.40	5058	35	486	-303	9.65	9.61	-0.97
5500	83.92	315.52	5077	106	418	-205	9.65	9.61	-0.88
5557	89.37	315.03	5080	146	378	-148	9.65	9.61	-0.85
5600	89.37	315.03	5081	176	348	-105	0.00	0.00	0.00
5613	89.63	315.01	5081	185	338	-92	2.00	1.99	-0.19
5700	89.63	315.01	5082	247	277	-5	0.00	0.00	0.00
5800	89.63	315.01	5082	318	206	95	0.00	0.00	0.00
5900	89.63	315.01	5083	389	135	195	0.00	0.00	0.00
6000	89.63	315.01	5084	459	65	295	0.00	0.00	0.00
6100	89.63	315.01	5084	530	-6	395	0.00	0.00	0.00
6200	89.63	315.01	5085	601	-77	494	0.00	0.00	0.00
6300	89.63	315.01	5085	672	-147	594	0.00	0.00	0.00
6400	89.63	315.01	5086	742	-218	694	0.00	0.00	0.00
6500	89.63	315.01	5087	813	-289	794	0.00	0.00	0.00
6600	89.63	315.01	5087	884	-360	894	0.00	0.00	0.00
6700	89.63	315.01	5088	954	-430	994	0.00	0.00	0.00
6800	89.63	315.01	5089	1025	-501	1094	0.00	0.00	0.00
6900	89.63	315.01	5089	1096	-572	1194	0.00	0.00	0.00
7000	89.63	315.01	5090	1167	-642	1294	0.00	0.00	0.00
7100	89.63	315.01	5091	1237	-713	1394	0.00	0.00	0.00
7200	89.63	315.01	5091	1308	-784	1494	0.00	0.00	0.00
7300	89.63	315.01	5092	1379	-854	1593	0.00	0.00	0.00
7400	89.63	315.01	5093	1449	-925	1693	0.00	0.00	0.00
7500	89.63	315.01	5093	1520	-996	1793	0.00	0.00	0.00
7600	89.63	315.01	5094	1591	-1067	1893	0.00	0.00	0.00
7700	89.63	315.01	5095	1662	-1137	1993	0.00	0.00	0.00
7800	89.63	315.01	5095	1732	-1208	2093	0.00	0.00	0.00
7900	89.63	315.01	5096	1803	-1279	2193	0.00	0.00	0.00
8000	89.63	315.01	5096	1874	-1349	2293	0.00	0.00	0.00
8100	89.63	315.01	5097	1944	-1420	2393	0.00	0.00	0.00
8200	89.63	315.01	5098	2015	-1491	2493	0.00	0.00	0.00
8300	89.63	315.01	5098	2086	-1561	2593	0.00	0.00	0.00
8400	89.63	315.01	5099	2157	-1632	2692	0.00	0.00	0.00
8500	89.63	315.01	5100	2227	-1703	2792	0.00	0.00	0.00
8600	89.63	315.01	5100	2298	-1774	2892	0.00	0.00	0.00
8700	89.63	315.01	5101	2369	-1844	2992	0.00	0.00	0.00
8800	89.63	315.01	5102	2440	-1915	3092	0.00	0.00	0.00
8900	89.63	315.01	5102	2510	-1986	3192	0.00	0.00	0.00
9000	89.63	315.01	5103	2581	-2056	3292	0.00	0.00	0.00
9100	89.63	315.01	5104	2652	-2127	3392	0.00	0.00	0.00
9200	89.63	315.01	5104	2722	-2198	3492	0.00	0.00	0.00
9300	89.63	315.01	5105	2793	-2268	3592	0.00	0.00	0.00
9400	89.63	315.01	5105	2864	-2339	3692	0.00	0.00	0.00
9500	89.63	315.01	5106	2935	-2410	3791	0.00	0.00	0.00
9600	89.63	315.01	5107	3005	-2480	3891	0.00	0.00	0.00
9700	89.63	315.01	5107	3076	-2551	3991	0.00	0.00	0.00
9800	89.63	315.01	5108	3147	-2622	4091	0.00	0.00	0.00
9900	89.63	315.01	5109	3217	-2693	4191	0.00	0.00	0.00
10,000	89.63	315.01	5109	3288	-2763	4291	0.00	0.00	0.00



Lonestar Consulting, LLC
Planning Report



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonne Tsoie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,100	89.63	315.01	5110	3359	-2834	4391	0.00	0.00	0.00	
10,200	89.63	315.01	5111	3430	-2905	4491	0.00	0.00	0.00	
10,300	89.63	315.01	5111	3500	-2975	4591	0.00	0.00	0.00	
10,400	89.63	315.01	5112	3571	-3046	4691	0.00	0.00	0.00	
10,500	89.63	315.01	5113	3642	-3117	4790	0.00	0.00	0.00	
10,600	89.63	315.01	5113	3713	-3187	4890	0.00	0.00	0.00	
10,700	89.63	315.01	5114	3783	-3258	4990	0.00	0.00	0.00	
10,800	89.63	315.01	5114	3854	-3329	5090	0.00	0.00	0.00	
10,900	89.63	315.01	5115	3925	-3400	5190	0.00	0.00	0.00	
11,000	89.63	315.01	5116	3995	-3470	5290	0.00	0.00	0.00	
11,100	89.63	315.01	5116	4066	-3541	5390	0.00	0.00	0.00	
11,200	89.63	315.01	5117	4137	-3612	5490	0.00	0.00	0.00	
11,300	89.63	315.01	5118	4208	-3682	5590	0.00	0.00	0.00	
11,400	89.63	315.01	5118	4278	-3753	5690	0.00	0.00	0.00	
11,500	89.63	315.01	5119	4349	-3824	5790	0.00	0.00	0.00	
11,600	89.63	315.01	5120	4420	-3894	5889	0.00	0.00	0.00	
11,700	89.63	315.01	5120	4490	-3965	5989	0.00	0.00	0.00	
11,800	89.63	315.01	5121	4561	-4036	6089	0.00	0.00	0.00	
11,900	89.63	315.01	5122	4632	-4107	6189	0.00	0.00	0.00	
12,000	89.63	315.01	5122	4703	-4177	6289	0.00	0.00	0.00	
12,100	89.63	315.01	5123	4773	-4248	6389	0.00	0.00	0.00	
12,200	89.63	315.01	5123	4844	-4319	6489	0.00	0.00	0.00	
12,300	89.63	315.01	5124	4915	-4389	6589	0.00	0.00	0.00	
12,400	89.63	315.01	5125	4986	-4460	6689	0.00	0.00	0.00	
12,500	89.63	315.01	5125	5056	-4531	6789	0.00	0.00	0.00	
12,600	89.63	315.01	5126	5127	-4601	6889	0.00	0.00	0.00	
12,700	89.63	315.01	5127	5198	-4672	6988	0.00	0.00	0.00	
12,800	89.63	315.01	5127	5268	-4743	7088	0.00	0.00	0.00	
12,900	89.63	315.01	5128	5339	-4813	7188	0.00	0.00	0.00	
13,000	89.63	315.01	5129	5410	-4884	7288	0.00	0.00	0.00	
13,100	89.63	315.01	5129	5481	-4955	7388	0.00	0.00	0.00	
13,200	89.63	315.01	5130	5551	-5026	7488	0.00	0.00	0.00	
13,300	89.63	315.01	5131	5622	-5096	7588	0.00	0.00	0.00	
13,400	89.63	315.01	5131	5693	-5167	7688	0.00	0.00	0.00	
13,500	89.63	315.01	5132	5763	-5238	7788	0.00	0.00	0.00	
13,600	89.63	315.01	5132	5834	-5308	7888	0.00	0.00	0.00	
13,700	89.63	315.01	5133	5905	-5379	7988	0.00	0.00	0.00	
13,800	89.63	315.01	5134	5976	-5450	8087	0.00	0.00	0.00	
13,900	89.63	315.01	5134	6046	-5520	8187	0.00	0.00	0.00	
14,000	89.63	315.01	5135	6117	-5591	8287	0.00	0.00	0.00	
14,100	89.63	315.01	5136	6188	-5662	8387	0.00	0.00	0.00	
14,200	89.63	315.01	5136	6258	-5733	8487	0.00	0.00	0.00	
14,300	89.63	315.01	5137	6329	-5803	8587	0.00	0.00	0.00	
14,400	89.63	315.01	5138	6400	-5874	8687	0.00	0.00	0.00	
14,455	89.63	315.01	5138	6439	-5913	8742	0.00	0.00	0.00	



Database:	Grand Junction	Local Co-ordinate Reference:	Well # 214H - Slot 2
Company:	DJR Operating	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Project:	Betonne Tsoosie Unit	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site:	A35 2308 Pad	North Reference:	True
Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	Pre-Drill Rev 3		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
7" Casing @ 4941' TVD	0.00	0.00	4941	-130	637	1,887,940.55	2,779,350.66	36.18842875	-107.64267809
- plan hits target center									
- Point									
214H Heel Rev 1	0.00	0.00	5081	176	348	1,888,246.60	2,779,060.66	36.18927104	-107.64365884
- plan hits target center									
- Circle (radius 50)									
214H Toe Rev 1	0.00	0.00	5138	6439	-5913	1,894,497.20	2,772,787.87	36.20647381	-107.66487994
- plan hits target center									
- Circle (radius 100)									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
350	350	Surface		9.62	12.25
5145	4941	Intermediate		7.00	8.75

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
803	803	Ojo Alamo		0.00	0.00
937	935	Kirtland		0.00	0.00
1216	1209	Fruitland		0.00	0.00
1498	1482	Pictured Cliffs		0.00	0.00
1651	1630	Lewis		0.00	0.00
2218	2179	Chacra		0.00	0.00
2985	2921	Menefee		0.00	0.00
3946	3851	Point Lookout		0.00	0.00
4107	4007	Mancos		0.00	0.00
4392	4284	Mancos Silt		0.00	0.00
4927	4787	Gallup A		0.00	0.00
4995	4840	Gallup B		0.00	0.00
5154	4946	Gallup C		0.00	0.00



DJR Operating

Betonnies Tsosie Unit

A35 2308 Pad

214H

Original Drilling

Pre-Drill Rev 3

Anticollision Report

29 April, 2022





Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Reference	Pre-Drill Rev 3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2500ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 4/29/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	14,455	Pre-Drill Rev 3 (Original Drilling)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
A35 2308 Pad						
# 213H - Original Drilling - Original Drilling	0	0	20			
# 213H - Original Drilling - Original Drilling	500	500	20	18	7.694 ES	
# 213H - Original Drilling - Original Drilling	11,700	10,905	1290	973	4.062 SF	
# 501H - Original Drilling - Pre-Drill Rev 1	500	500	20	17	6.242 CC, ES	
# 501H - Original Drilling - Pre-Drill Rev 1	12,400	12,857	1240	850	3.176 SF	

Offset Design:	A35 2308 Pad - # 213H - Original Drilling - Original Drilling												Offset Site Error:	0 ft
Survey Program:	450-MWD+HDGM, 4562-MWD+HDGM, 5361-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Rule Assigned:	Offset	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)	Minimum Separation (ft)	Separation Factor			
0	0	0	0	0	0	-0.84	20	0	20					
100	100	100	100	0	0	-0.88	20	0	20	0.43	46.114			
200	200	200	200	1	0	-1.00	20	0	20	0.96	20.832			
300	300	300	300	1	1	-1.19	20	0	20	1.49	13.461			
400	400	400	400	1	1	-1.46	20	-1	20	2.02	9.948			
404	404	404	404	1	1	-1.47	20	-1	20	2.04	9.834			
500	500	500	500	2	1	-0.89	20	0	20	2.63	7.694 ES			
600	600	599	599	2	1	-113.20	22	2	22	3.32	6.701			
700	700	699	698	2	2	-114.51	25	6	28	4.01	6.961			
800	800	797	796	3	2	-117.51	32	11	39	4.71	8.187			
900	899	895	893	3	2	-119.38	42	19	54	5.42	9.899			
1000	998	992	989	3	3	-119.59	54	30	72	6.16	11.760			
1100	1096	1088	1083	4	3	-119.64	68	43	95	6.91	13.761			
1200	1193	1180	1173	4	4	-120.36	85	57	123	7.66	16.047			
1300	1290	1272	1261	5	4	-121.50	104	71	155	8.45	18.294			
1400	1387	1362	1348	5	4	-122.16	124	86	187	9.22	20.311			
1500	1484	1452	1434	6	5	-122.01	146	102	222	10.03	22.159			
1600	1581	1543	1519	6	5	-121.18	170	121	259	10.87	23.814			
1700	1677	1637	1607	7	6	-120.41	195	142	296	11.76	25.151			
1800	1774	1726	1692	7	6	-119.93	220	161	333	12.62	26.397			
1900	1871	1816	1775	8	7	-119.46	245	180	371	13.47	27.544			
2000	1968	1907	1861	8	7	-119.13	271	199	410	14.37	28.510			



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 213H - Original Drilling - Original Drilling													Offset Site Error:	0 ft
Survey Program: 450-MWD+HDGM, 4562-MWD+HDGM, 5361-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
2100	2065	2000	1948	9	8	-119.01	297	218	448	433	15.28	29.337		
2200	2161	2089	2031	9	8	-118.81	323	236	487	471	16.15	30.149		
2300	2258	2194	2129	10	9	-118.62	352	258	525	508	17.21	30.515		
2400	2355	2285	2215	10	10	-118.41	377	277	562	544	18.12	31.027		
2500	2452	2365	2289	11	10	-117.96	399	297	600	582	18.93	31.729		
2600	2548	2451	2368	11	11	-117.39	425	319	640	620	19.81	32.320		
2700	2645	2534	2444	12	11	-116.88	451	341	681	660	20.67	32.942		
2800	2742	2616	2518	12	12	-116.36	477	363	723	701	21.52	33.594		
2900	2839	2692	2587	13	12	-115.86	502	385	766	744	22.30	34.352		
3000	2935	2759	2646	13	13	-115.36	526	404	811	788	22.96	35.343		
3100	3032	2871	2746	14	14	-114.80	566	435	857	833	24.22	35.377		
3200	3129	2978	2843	14	14	-114.55	602	461	901	875	25.38	35.485		
3300	3226	3113	2969	15	15	-114.65	643	489	941	914	26.81	35.101		
3400	3323	3231	3081	15	16	-115.02	675	509	978	950	27.98	34.942		
3500	3419	3338	3183	16	17	-115.45	701	526	1013	984	29.02	34.910		
3600	3516	3442	3283	17	17	-115.84	726	542	1047	1017	30.02	34.886		
3700	3613	3555	3391	17	18	-116.09	751	562	1080	1049	31.11	34.719		
3800	3710	3652	3484	18	18	-116.27	772	579	1112	1080	32.06	34.675		
3900	3806	3733	3562	18	19	-116.33	790	596	1144	1111	32.89	34.783		
4000	3903	3807	3631	19	19	-116.25	807	613	1178	1144	33.67	34.991		
4100	4000	3918	3736	19	20	-116.11	834	639	1212	1177	34.80	34.837		
4200	4097	4030	3842	20	20	-116.05	858	664	1244	1208	35.93	34.616		
4300	4193	4088	3897	20	21	-115.94	871	679	1277	1240	36.56	34.927		
4400	4291	4157	3961	21	21	-98.10	888	698	1308	1271	37.24	35.125		
4500	4391	4244	4042	21	22	-27.79	912	720	1331	1293	37.96	35.065		
4600	4490	4328	4121	21	22	14.74	935	739	1345	1306	38.54	34.887		
4700	4587	4473	4257	21	23	27.65	974	768	1349	1309	39.64	34.025		
4800	4679	4551	4331	22	23	33.94	994	781	1341	1301	39.84	33.652		
4900	4765	4616	4393	22	24	38.61	1011	793	1326	1286	39.85	33.263		
5000	4844	4657	4431	22	24	42.36	1022	801	1305	1265	39.68	32.881		
5100	4913	4713	4484	22	24	46.63	1039	812	1279	1240	39.69	32.236		
5200	4973	4752	4520	23	24	49.56	1051	820	1252	1213	39.69	31.554		
5300	5023	4825	4588	23	24	55.45	1074	833	1223	1183	40.18	30.438		
5400	5058	4831	4593	24	24	58.84	1076	834	1192	1152	40.46	29.462		
5496	5077	4831	4593	25	24	61.71	1076	834	1163	1122	41.03	28.336		
5500	5077	4831	4593	25	24	61.81	1076	834	1161	1120	41.06	28.291		
5594	5083	4866	4626	27	24	65.04	1088	840	1134	1092	42.31	26.798		
5600	5081	4866	4626	27	24	65.21	1088	840	1132	1089	42.39	26.694		
5690	5082	4871	4631	28	24	65.54	1090	841	1112	1068	43.63	25.481		
5700	5082	4872	4631	28	24	65.58	1090	841	1110	1066	43.78	25.351		
5785	5082	4878	4636	30	24	65.87	1092	842	1098	1053	45.18	24.304		
5800	5082	4879	4637	30	24	65.93	1093	842	1097	1051	45.43	24.138		
5899	5083	4886	4644	32	25	66.31	1096	843	1092	1045	47.28	23.108		
5900	5083	4886	4644	32	25	66.32	1096	843	1092	1045	47.29	23.102		
5918	5083	4888	4645	32	25	66.39	1096	843	1093	1045	47.64	22.934		
6000	5084	4895	4652	33	25	66.76	1099	844	1097	1048	49.26	22.271		
6100	5084	4926	4679	35	25	68.35	1113	849	1111	1060	51.51	21.571		
6200	5085	4926	4679	38	25	68.35	1113	849	1133	1080	53.37	21.229		
6300	5085	4926	4679	40	25	68.35	1113	849	1163	1108	55.09	21.110		
6400	5086	4945	4696	42	25	69.30	1123	851	1200	1143	56.90	21.097		
6500	5087	4962	4710	44	25	70.17	1132	854	1244	1186	58.51	21.268		
6600	5087	4982	4727	46	25	71.13	1142	856	1294	1234	59.96	21.581		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 213H - Original Drilling - Original Drilling											Offset Site Error:	0 ft
Survey Program: 450-MWD+HDGM, 4562-MWD+HDGM, 5361-MWD+HDGM											Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
6700	5088	5648	5134	49	29	92.14	1617	722	1330	1261	68.59	19.390
6800	5089	6228	5156	51	34	92.85	2061	358	1347	1270	76.95	17.508
6900	5089	6312	5153	53	35	92.68	2115	295	1339	1258	81.26	16.477
7000	5090	6412	5147	56	36	92.45	2180	219	1331	1245	85.78	15.514
7100	5091	6512	5142	58	38	92.20	2245	142	1323	1232	90.41	14.631
7200	5091	6615	5137	60	39	91.96	2311	64	1314	1219	95.13	13.818
7300	5092	6720	5132	63	41	91.72	2379	-16	1306	1206	99.93	13.067
7400	5093	6809	5128	65	43	91.54	2436	-84	1297	1193	104.64	12.397
7500	5093	6868	5126	68	44	91.44	2475	-128	1290	1181	109.04	11.833
7600	5094	6933	5124	70	46	91.34	2519	-176	1286	1173	113.45	11.339
7700	5095	7013	5122	73	48	91.21	2575	-233	1286	1168	118.03	10.892
7800	5095	7146	5121	75	51	91.16	2668	-329	1284	1161	123.36	10.409
7900	5096	7247	5122	78	53	91.17	2737	-402	1281	1153	128.30	9.983
8000	5096	7360	5123	80	55	91.18	2813	-485	1277	1143	133.42	9.569
8100	5097	7434	5123	82	57	91.15	2864	-539	1274	1136	138.06	9.226
8200	5098	7559	5124	85	60	91.17	2949	-631	1270	1127	143.37	8.858
8300	5098	7622	5125	87	62	91.21	2992	-677	1267	1119	147.88	8.566
8400	5099	7698	5125	90	64	91.20	3045	-731	1266	1113	152.49	8.302
8409	5099	7715	5125	90	64	91.18	3058	-743	1266	1113	153.06	8.272
8500	5100	7826	5126	92	67	91.20	3136	-821	1266	1108	157.92	8.018
8600	5100	7909	5127	95	69	91.22	3194	-881	1265	1103	162.68	7.778
8654	5101	7961	5127	96	70	91.21	3231	-917	1265	1100	165.37	7.650
8700	5101	7999	5127	98	71	91.19	3258	-944	1265	1098	167.54	7.552
8800	5102	8138	5129	100	74	91.22	3355	-1044	1264	1090	173.18	7.297
8900	5102	8237	5128	103	77	91.17	3423	-1115	1261	1083	178.23	7.076
9000	5103	8351	5128	105	80	91.14	3501	-1198	1258	1075	183.49	6.858
9100	5104	8462	5130	108	83	91.20	3576	-1280	1254	1066	188.71	6.647
9200	5104	8543	5131	110	85	91.24	3631	-1339	1250	1057	193.58	6.460
9300	5105	8601	5131	113	86	91.21	3672	-1381	1249	1051	198.02	6.308
9304	5105	8603	5131	113	86	91.21	3673	-1382	1249	1051	198.21	6.302
9400	5105	8676	5129	115	88	91.11	3726	-1433	1251	1049	202.61	6.175
9500	5106	8777	5127	118	90	90.97	3799	-1503	1253	1046	207.70	6.035
9600	5107	8885	5125	120	93	90.84	3877	-1577	1256	1043	212.91	5.898
9700	5107	8989	5123	123	96	90.71	3952	-1649	1257	1039	218.06	5.766
9800	5108	9059	5122	125	97	90.65	4002	-1697	1260	1037	222.49	5.662
9900	5109	9159	5123	128	100	90.65	4076	-1765	1264	1037	227.54	5.556
10,000	5109	9266	5124	131	103	90.67	4154	-1838	1268	1035	232.74	5.447
10,100	5110	9366	5125	133	105	90.68	4227	-1906	1271	1033	237.79	5.345
10,200	5111	9459	5125	136	107	90.64	4296	-1970	1274	1032	242.70	5.251
10,300	5111	9570	5123	138	110	90.56	4377	-2046	1278	1030	248.02	5.151
10,400	5112	9667	5125	141	113	90.59	4447	-2112	1281	1028	253.01	5.062
10,500	5113	9761	5128	143	115	90.68	4516	-2176	1284	1026	257.94	4.978
10,600	5113	9860	5130	146	117	90.77	4588	-2244	1288	1025	262.97	4.897
10,700	5114	9964	5133	148	120	90.87	4664	-2314	1291	1023	268.12	4.817
10,800	5114	10,102	5138	151	124	91.03	4764	-2410	1294	1020	273.95	4.723
10,900	5115	10,223	5139	154	127	91.05	4849	-2496	1293	1014	279.41	4.628
11,000	5116	10,323	5137	156	129	90.94	4919	-2568	1292	1007	284.57	4.540
11,100	5116	10,465	5136	159	133	90.86	5017	-2671	1290	999	290.17	4.444
11,200	5117	10,541	5136	161	135	90.82	5069	-2725	1287	992	295.11	4.360
11,300	5118	10,614	5135	164	137	90.76	5121	-2778	1286	986	299.90	4.286
11,400	5118	10,719	5134	166	139	90.69	5195	-2852	1285	980	305.12	4.212
11,454	5119	10,762	5133	168	140	90.65	5225	-2883	1285	977	307.73	4.175



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsoie Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 213H - Original Drilling - Original Drilling												Offset Site Error:	0 ft
Survey Program: 450-MWD+HDGM, 4562-MWD+HDGM, 5361-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
11,500	5119	10,798	5132	169	141	90.60	5250	-2908	1285	975	309.89	4.146	
11,504	5119	10,801	5132	169	141	90.60	5252	-2910	1285	975	310.10	4.144	
11,600	5120	10,894	5131	171	144	90.50	5319	-2975	1286	971	314.96	4.083	
11,700	5120	10,905	5131	174	144	90.50	5327	-2983	1290	973	317.64	4.062 SF	
11,800	5121	10,905	5131	177	144	90.50	5327	-2983	1302	984	318.26	4.091	
11,900	5122	10,905	5131	179	144	90.50	5327	-2983	1321	1004	317.11	4.167	
12,000	5122	10,905	5131	182	144	90.50	5327	-2983	1348	1033	314.35	4.287	
12,100	5123	10,905	5131	184	144	90.50	5327	-2983	1381	1071	310.22	4.452	
12,200	5123	10,905	5131	187	144	90.50	5327	-2983	1420	1115	304.97	4.658	
12,300	5124	10,905	5131	189	144	90.50	5327	-2983	1466	1167	298.85	4.904	
12,400	5125	10,905	5131	192	144	90.50	5327	-2983	1516	1224	292.13	5.190	
12,500	5125	10,905	5131	195	144	90.50	5327	-2983	1571	1286	285.00	5.514	
12,600	5126	10,905	5131	197	144	90.50	5327	-2983	1631	1353	277.66	5.874	
12,700	5127	10,905	5131	200	144	90.50	5327	-2983	1694	1424	270.26	6.269	
12,800	5127	10,905	5131	202	144	90.50	5327	-2983	1761	1498	262.91	6.698	
12,900	5128	10,905	5131	205	144	90.50	5327	-2983	1831	1575	255.70	7.160	
13,000	5129	10,905	5131	207	144	90.50	5327	-2983	1903	1655	248.68	7.654	
13,100	5129	10,905	5131	210	144	90.50	5327	-2983	1978	1736	241.92	8.177	
13,200	5130	10,905	5131	213	144	90.50	5327	-2983	2055	1820	235.42	8.730	
13,300	5131	10,905	5131	215	144	90.50	5327	-2983	2134	1905	229.20	9.311	
13,400	5131	10,905	5131	218	144	90.50	5327	-2983	2215	1991	223.28	9.919	
13,500	5132	10,905	5131	220	144	90.50	5327	-2983	2297	2079	217.65	10.553	
13,600	5132	10,905	5131	223	144	90.50	5327	-2983	2380	2168	212.30	11.212	
13,700	5133	10,905	5131	225	144	90.50	5327	-2983	2465	2258	207.22	11.896	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 501H - Original Drilling - Pre-Drill Rev 1													Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0	0	0	0	0	0	-180.00	-20	0	20					
100	100	100	100	0	0	-180.00	-20	0	20	20	0.40	51.213		
200	200	200	200	1	0	-180.00	-20	0	20	19	1.11	18.283		
300	300	300	300	1	1	-180.00	-20	0	20	19	1.83	11.128		
400	400	400	400	1	1	-180.00	-20	0	20	18	2.55	7.998		
500	500	500	500	2	2	-180.00	-20	0	20	17	3.27	6.242 CC, ES		
600	600	599	599	2	2	66.91	-22	0	21	17	3.96	5.365		
700	700	699	698	2	2	73.78	-26	2	24	20	4.62	5.233		
800	800	797	797	3	3	82.34	-34	4	30	25	5.31	5.626		
900	899	896	895	3	3	89.99	-46	7	39	33	6.01	6.422		
1000	998	994	992	3	3	95.82	-60	10	51	44	6.74	7.496		
1100	1096	1092	1088	4	4	99.99	-77	15	66	58	7.50	8.739		
1200	1193	1188	1182	4	4	102.92	-98	20	84	75	8.29	10.073		
1300	1290	1284	1275	5	5	104.92	-121	26	104	95	9.12	11.431		
1400	1387	1380	1366	5	5	105.28	-147	33	127	117	9.98	12.729		
1500	1484	1474	1456	6	5	104.51	-176	41	151	141	10.85	13.966		
1600	1581	1567	1543	6	6	103.11	-207	49	178	166	11.73	15.162		
1700	1677	1661	1631	7	6	101.44	-241	58	206	193	12.64	16.284		
1800	1774	1757	1720	7	7	100.07	-276	67	234	221	13.60	17.228		
1900	1871	1853	1808	8	8	98.99	-310	76	263	248	14.56	18.039		
2000	1968	1949	1897	8	8	98.13	-345	85	291	276	15.54	18.742		
2100	2065	2045	1986	9	9	97.42	-380	94	320	303	16.52	19.356		
2200	2161	2140	2075	9	9	96.83	-415	103	348	331	17.51	19.895		
2300	2258	2236	2163	10	10	96.32	-449	112	377	359	18.51	20.372		
2400	2355	2332	2252	10	11	95.89	-484	121	406	386	19.51	20.797		
2500	2452	2428	2341	11	11	95.52	-519	130	434	414	20.52	21.177		
2600	2548	2523	2430	11	12	95.19	-554	139	463	442	21.53	21.519		
2700	2645	2619	2519	12	12	94.90	-589	148	492	469	22.54	21.828		
2800	2742	2715	2607	12	13	94.64	-623	157	521	497	23.55	22.109		
2900	2839	2811	2696	13	14	94.41	-658	167	549	525	24.57	22.365		
3000	2935	2906	2785	13	14	94.20	-693	176	578	553	25.58	22.599		
3100	3032	3002	2874	14	15	94.01	-728	185	607	580	26.60	22.814		
3200	3129	3098	2962	14	15	93.84	-762	194	636	608	27.62	23.012		
3300	3226	3194	3051	15	16	93.68	-797	203	664	636	28.65	23.195		
3400	3323	3289	3140	15	17	93.54	-832	212	693	664	29.67	23.365		
3500	3419	3385	3229	16	17	93.41	-867	221	722	691	30.69	23.522		
3600	3516	3481	3317	17	18	93.29	-901	230	751	719	31.72	23.669		
3700	3613	3577	3406	17	19	93.17	-936	239	780	747	32.75	23.806		
3800	3710	3672	3495	18	19	93.07	-971	248	808	775	33.77	23.934		
3900	3806	3768	3584	18	20	92.97	-1006	257	837	802	34.80	24.054		
4000	3903	3864	3672	19	20	92.88	-1040	266	866	830	35.83	24.167		
4100	4000	3960	3761	19	21	92.79	-1075	276	895	858	36.86	24.273		
4200	4097	4055	3850	20	22	92.71	-1110	285	924	886	37.89	24.373		
4300	4193	4151	3939	20	22	92.64	-1145	294	952	913	38.92	24.468		
4400	4291	4246	4027	21	23	113.76	-1179	303	983	943	39.84	24.668		
4500	4391	4338	4112	21	24	-173.74	-1212	311	1017	977	40.53	25.100		
4600	4490	4425	4192	21	24	-129.92	-1244	320	1056	1015	41.00	25.744		
4700	4587	4505	4266	21	25	-117.27	-1273	327	1098	1057	41.30	26.581		
4800	4679	4577	4333	22	25	-110.90	-1299	334	1145	1103	41.47	27.605		
4900	4765	4832	4579	22	26	-111.53	-1356	317	1191	1148	43.00	27.703		
5000	4844	5383	4996	22	27	-107.04	-1211	30	1216	1171	45.32	26.831		
5100	4913	5614	5048	22	28	-99.84	-1066	-142	1219	1171	48.38	25.204		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 501H - Original Drilling - Pre-Drill Rev 1													Offset Site Error: 0 ft	
Survey Program: 0-MWD+HDGM				Offset					Rule Assigned:				Offset Well Error: 0 ft	
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5104	4916	5618	5048	22	28	-99.71	-1063	-144	1220	1171	48.46	25.167		
5200	4973	5700	5055	23	29	-97.02	-1009	-205	1224	1174	50.14	24.414		
5300	5023	5791	5059	23	30	-93.81	-948	-273	1231	1178	52.21	23.570		
5400	5058	5944	5060	24	32	-90.52	-843	-384	1236	1181	55.58	22.242		
5500	5077	6048	5060	25	33	-89.29	-769	-458	1238	1179	58.48	21.170		
5600	5081	6148	5061	27	35	-89.08	-699	-528	1238	1177	61.57	20.111		
5679	5082	6228	5062	28	36	-89.07	-642	-585	1238	1174	64.23	19.280		
5700	5082	6248	5062	28	37	-89.08	-628	-599	1238	1173	64.93	19.071		
5779	5082	6327	5062	29	38	-89.08	-572	-655	1238	1170	67.77	18.272		
5800	5082	6348	5062	30	39	-89.08	-557	-670	1238	1170	68.52	18.071		
5879	5083	6427	5063	31	40	-89.08	-501	-726	1238	1167	71.52	17.314		
5900	5083	6448	5063	32	41	-89.08	-486	-741	1238	1166	72.31	17.123		
5979	5083	6527	5063	33	42	-89.08	-430	-797	1238	1163	75.44	16.413		
6000	5084	6548	5064	33	43	-89.08	-416	-811	1238	1162	76.27	16.234		
6079	5084	6627	5064	35	44	-89.08	-360	-867	1238	1159	79.51	15.572		
6100	5084	6648	5064	35	45	-89.08	-345	-882	1238	1158	80.37	15.406		
6179	5085	6727	5065	37	47	-89.08	-289	-938	1238	1154	83.71	14.792		
6200	5085	6748	5065	38	47	-89.08	-274	-953	1238	1154	84.59	14.637		
6279	5085	6827	5065	39	49	-89.07	-218	-1009	1238	1150	88.01	14.068		
6300	5085	6848	5065	40	49	-89.07	-203	-1023	1238	1149	88.91	13.925		
6379	5086	6927	5066	41	51	-89.07	-147	-1079	1238	1146	92.40	13.399		
6400	5086	6948	5066	42	52	-89.07	-133	-1094	1238	1145	93.32	13.267		
6479	5087	7027	5067	44	53	-89.07	-77	-1150	1238	1141	96.88	12.780		
6500	5087	7048	5067	44	54	-89.07	-62	-1165	1238	1140	97.81	12.658		
6579	5087	7127	5067	46	56	-89.07	-6	-1221	1238	1137	101.42	12.208		
6600	5087	7148	5067	46	56	-89.07	9	-1235	1238	1136	102.37	12.095		
6679	5088	7227	5068	48	58	-89.07	65	-1291	1238	1132	106.02	11.678		
6700	5088	7248	5068	49	58	-89.07	79	-1306	1238	1131	106.98	11.573		
6779	5089	7327	5068	50	60	-89.07	136	-1362	1238	1127	110.67	11.187		
6800	5089	7348	5069	51	61	-89.07	150	-1377	1238	1126	111.64	11.090		
6879	5089	7427	5069	53	63	-89.07	206	-1433	1238	1123	115.36	10.732		
6900	5089	7448	5069	53	63	-89.07	221	-1447	1238	1122	116.34	10.641		
6979	5090	7527	5070	55	65	-89.07	277	-1503	1238	1118	120.10	10.308		
7000	5090	7548	5070	56	66	-89.07	292	-1518	1238	1117	121.09	10.224		
7079	5091	7627	5070	57	67	-89.07	348	-1574	1238	1113	124.87	9.914		
7100	5091	7648	5070	58	68	-89.07	362	-1589	1238	1112	125.86	9.836		
7179	5091	7727	5071	60	70	-89.07	418	-1645	1238	1108	129.67	9.547		
7200	5091	7748	5071	60	70	-89.07	433	-1659	1238	1107	130.67	9.474		
7279	5092	7827	5072	62	72	-89.07	489	-1715	1238	1103	134.50	9.204		
7300	5092	7848	5072	63	73	-89.06	504	-1730	1238	1102	135.51	9.136		
7379	5092	7927	5072	65	75	-89.06	560	-1786	1238	1099	139.36	8.883		
7400	5093	7948	5072	65	75	-89.06	575	-1801	1238	1098	140.37	8.819		
7479	5093	8027	5073	67	77	-89.06	631	-1857	1238	1094	144.23	8.583		
7500	5093	8048	5073	68	78	-89.06	645	-1871	1238	1093	145.25	8.523		
7579	5094	8127	5073	70	80	-89.06	701	-1927	1238	1089	149.13	8.301		
7600	5094	8148	5074	70	80	-89.06	716	-1942	1238	1088	150.15	8.244		
7679	5094	8227	5074	72	82	-89.06	772	-1998	1238	1084	154.05	8.036		
7700	5095	8248	5074	73	83	-89.06	787	-2013	1238	1083	155.07	7.983		
7779	5095	8327	5075	75	84	-89.06	843	-2069	1238	1079	158.98	7.786		
7800	5095	8348	5075	75	85	-89.06	858	-2084	1238	1078	160.00	7.736		
7879	5096	8427	5075	77	87	-89.06	914	-2140	1238	1074	163.92	7.551		
7900	5096	8448	5075	78	87	-89.06	928	-2154	1238	1073	164.95	7.504		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 501H - Original Drilling - Pre-Drill Rev 1													Offset Site Error:	0 ft
Survey Program:		0-MWD+HDGM					Rule Assigned:				Offset Well Error:		0 ft	
Measured	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
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)				
7979	5096	8527	5076	79	89	-89.06	984	-2210	1238	1069	168.88	7.329		
8000	5096	8548	5076	80	90	-89.06	999	-2225	1238	1068	169.92	7.285		
8079	5097	8627	5077	82	92	-89.06	1055	-2281	1238	1064	173.86	7.119		
8100	5097	8648	5077	82	92	-89.06	1070	-2296	1238	1063	174.89	7.077		
8179	5098	8727	5077	84	94	-89.06	1126	-2352	1238	1059	178.84	6.921		
8200	5098	8748	5077	85	95	-89.06	1141	-2366	1238	1058	179.88	6.881		
8279	5098	8827	5078	87	97	-89.06	1197	-2422	1238	1054	183.84	6.733		
8300	5098	8848	5078	87	97	-89.06	1211	-2437	1238	1053	184.88	6.695		
8379	5099	8927	5078	89	99	-89.05	1267	-2493	1238	1049	188.84	6.554		
8400	5099	8948	5079	90	100	-89.05	1282	-2508	1238	1048	189.88	6.518		
8479	5100	9027	5079	92	102	-89.05	1338	-2564	1238	1044	193.86	6.385		
8500	5100	9048	5079	92	102	-89.05	1353	-2578	1238	1043	194.90	6.350		
8579	5100	9127	5080	94	104	-89.05	1409	-2634	1238	1039	198.88	6.223		
8600	5100	9148	5080	95	105	-89.05	1423	-2649	1238	1038	199.92	6.191		
8679	5101	9227	5080	97	107	-89.05	1480	-2705	1238	1034	203.91	6.070		
8700	5101	9248	5080	98	107	-89.05	1494	-2720	1238	1033	204.95	6.039		
8779	5101	9327	5081	100	109	-89.05	1550	-2776	1238	1029	208.94	5.923		
8800	5102	9348	5081	100	110	-89.05	1565	-2790	1238	1028	209.99	5.894		
8879	5102	9427	5082	102	112	-89.05	1621	-2846	1238	1024	213.99	5.784		
8900	5102	9448	5082	103	113	-89.05	1636	-2861	1238	1023	215.04	5.755		
8979	5103	9527	5082	105	115	-89.05	1692	-2917	1238	1019	219.04	5.650		
9000	5103	9548	5082	105	115	-89.05	1706	-2932	1238	1018	220.09	5.623		
9079	5103	9627	5083	107	117	-89.05	1762	-2988	1238	1013	224.09	5.523		
9100	5104	9648	5083	108	118	-89.05	1777	-3002	1238	1012	225.14	5.497		
9179	5104	9727	5083	110	120	-89.05	1833	-3058	1238	1008	229.15	5.401		
9200	5104	9748	5084	110	120	-89.05	1848	-3073	1238	1007	230.20	5.376		
9279	5105	9827	5084	112	122	-89.05	1904	-3129	1238	1003	234.22	5.284		
9300	5105	9848	5084	113	123	-89.05	1919	-3144	1238	1002	235.27	5.260		
9379	5105	9927	5085	115	125	-89.05	1975	-3200	1238	998	239.29	5.172		
9400	5105	9948	5085	115	125	-89.05	1989	-3214	1238	997	240.34	5.149		
9479	5106	10,027	5085	117	127	-89.04	2045	-3270	1237	993	244.36	5.064		
9500	5106	10,048	5085	118	128	-89.04	2060	-3285	1237	992	245.42	5.042		
9579	5107	10,127	5086	120	130	-89.04	2116	-3341	1237	988	249.44	4.961		
9600	5107	10,148	5086	120	130	-89.04	2131	-3356	1237	987	250.49	4.940		
9679	5107	10,227	5087	122	132	-89.04	2187	-3412	1237	983	254.52	4.862		
9700	5107	10,248	5087	123	133	-89.04	2202	-3426	1237	982	255.58	4.842		
9779	5108	10,327	5087	125	135	-89.04	2258	-3482	1237	978	259.61	4.767		
9800	5108	10,348	5087	125	135	-89.04	2272	-3497	1237	977	260.66	4.747		
9879	5109	10,427	5088	127	137	-89.04	2328	-3553	1237	973	264.70	4.675		
9900	5109	10,448	5088	128	138	-89.04	2343	-3568	1237	972	265.75	4.656		
9979	5109	10,527	5088	130	140	-89.04	2399	-3624	1237	968	269.79	4.587		
10,000	5109	10,548	5089	131	140	-89.04	2414	-3639	1237	967	270.85	4.569		
10,079	5110	10,627	5089	133	142	-89.04	2470	-3695	1237	962	274.88	4.501		
10,100	5110	10,648	5089	133	143	-89.04	2485	-3709	1237	961	275.94	4.484		
10,179	5110	10,727	5090	135	145	-89.04	2541	-3765	1237	957	279.98	4.419		
10,200	5111	10,748	5090	136	145	-89.04	2555	-3780	1237	956	281.04	4.403		
10,279	5111	10,827	5090	138	147	-89.04	2611	-3836	1237	952	285.08	4.340		
10,300	5111	10,848	5090	138	148	-89.04	2626	-3851	1237	951	286.14	4.324		
10,379	5112	10,927	5091	140	150	-89.04	2682	-3907	1237	947	290.19	4.264		
10,400	5112	10,948	5091	141	151	-89.04	2697	-3921	1237	946	291.25	4.248		
10,479	5112	11,027	5092	143	153	-89.04	2753	-3977	1237	942	295.29	4.190		
10,500	5113	11,048	5092	143	153	-89.04	2767	-3992	1237	941	296.35	4.175		



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsois Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 501H - Original Drilling - Pre-Drill Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,579	5113	11,127	5092	145	155	-89.03	2823	-4048	1237	937	300.40	4.119	
10,600	5113	11,148	5092	146	156	-89.03	2838	-4063	1237	936	301.46	4.104	
10,679	5114	11,227	5093	148	158	-89.03	2894	-4119	1237	932	305.51	4.050	
10,700	5114	11,248	5093	148	158	-89.03	2909	-4133	1237	931	306.57	4.036	
10,779	5114	11,327	5093	150	160	-89.03	2965	-4189	1237	927	310.62	3.983	
10,800	5114	11,348	5094	151	161	-89.03	2980	-4204	1237	926	311.69	3.969	
10,879	5115	11,427	5094	153	163	-89.03	3036	-4260	1237	921	315.74	3.918	
10,900	5115	11,448	5094	154	163	-89.03	3050	-4275	1237	920	316.80	3.905	
10,979	5116	11,527	5095	156	165	-89.03	3106	-4331	1237	916	320.86	3.856	
11,000	5116	11,548	5095	156	166	-89.03	3121	-4345	1237	915	321.92	3.843	
11,079	5116	11,627	5095	158	168	-89.03	3177	-4401	1237	911	325.97	3.795	
11,100	5116	11,648	5095	159	168	-89.03	3192	-4416	1237	910	327.04	3.783	
11,179	5117	11,727	5096	161	170	-89.03	3248	-4472	1237	906	331.09	3.737	
11,200	5117	11,748	5096	161	171	-89.03	3263	-4487	1237	905	332.16	3.725	
11,279	5118	11,827	5097	163	173	-89.03	3319	-4543	1237	901	336.22	3.680	
11,300	5118	11,848	5097	164	174	-89.03	3333	-4557	1237	900	337.28	3.668	
11,379	5118	11,927	5097	166	176	-89.03	3389	-4613	1237	896	341.34	3.624	
11,400	5118	11,948	5097	166	176	-89.03	3404	-4628	1237	895	342.41	3.613	
11,479	5119	12,027	5098	168	178	-89.03	3460	-4684	1237	891	346.46	3.571	
11,500	5119	12,048	5098	169	179	-89.03	3475	-4699	1237	890	347.53	3.560	
11,579	5119	12,127	5098	171	181	-89.02	3531	-4755	1237	885	351.59	3.519	
11,600	5120	12,148	5099	171	181	-89.02	3546	-4769	1237	884	352.66	3.508	
11,679	5120	12,227	5099	173	183	-89.02	3602	-4825	1237	880	356.72	3.468	
11,700	5120	12,248	5099	174	184	-89.02	3616	-4840	1237	879	357.79	3.458	
11,779	5121	12,327	5100	176	186	-89.02	3672	-4896	1237	875	361.85	3.419	
11,800	5121	12,348	5100	177	186	-89.02	3687	-4911	1237	874	362.91	3.409	
11,879	5121	12,427	5100	179	188	-89.02	3743	-4967	1237	870	366.98	3.371	
11,900	5122	12,448	5100	179	189	-89.02	3758	-4982	1237	869	368.05	3.361	
11,979	5122	12,527	5101	181	191	-89.02	3814	-5037	1237	865	372.11	3.324	
12,000	5122	12,548	5101	182	192	-89.02	3828	-5052	1237	864	373.18	3.315	
12,079	5123	12,627	5102	184	194	-89.02	3885	-5108	1237	860	377.24	3.279	
12,100	5123	12,648	5102	184	194	-89.02	3899	-5123	1237	859	378.31	3.270	
12,179	5123	12,727	5102	186	196	-89.02	3955	-5179	1237	855	382.38	3.235	
12,200	5123	12,748	5102	187	197	-89.02	3970	-5194	1237	854	383.44	3.226	
12,279	5124	12,827	5103	189	199	-89.02	4026	-5250	1237	849	387.51	3.192	
12,300	5124	12,848	5103	189	199	-89.02	4041	-5264	1237	848	388.58	3.183	
12,400	5125	12,857	5103	192	199	-89.02	4047	-5270	1240	850	390.52	3.176 SF	
12,500	5125	12,857	5103	195	199	-89.02	4047	-5270	1252	862	389.78	3.211	
12,600	5126	12,857	5103	197	199	-89.02	4047	-5270	1271	884	386.69	3.286	
12,700	5127	12,857	5103	200	199	-89.02	4047	-5270	1297	916	381.53	3.400	
12,800	5127	12,857	5103	202	199	-89.02	4047	-5270	1331	956	374.62	3.553	
12,900	5128	12,857	5103	205	199	-89.02	4047	-5270	1371	1005	366.33	3.742	
13,000	5129	12,857	5103	207	199	-89.02	4047	-5270	1417	1060	357.04	3.968	
13,100	5129	12,857	5103	210	199	-89.02	4047	-5270	1468	1121	347.09	4.230	
13,200	5130	12,857	5103	213	199	-89.02	4047	-5270	1524	1188	336.75	4.527	
13,300	5131	12,857	5103	215	199	-89.02	4047	-5270	1585	1259	326.29	4.858	
13,400	5131	12,857	5103	218	199	-89.02	4047	-5270	1649	1334	315.87	5.222	
13,500	5132	12,857	5103	220	199	-89.02	4047	-5270	1717	1412	305.66	5.618	
13,600	5132	12,857	5103	223	199	-89.02	4047	-5270	1788	1492	295.73	6.046	
13,700	5133	12,857	5103	225	199	-89.02	4047	-5270	1862	1575	286.17	6.505	
13,800	5134	12,857	5103	228	199	-89.02	4047	-5270	1937	1660	277.01	6.994	
13,900	5134	12,857	5103	231	199	-89.02	4047	-5270	2015	1747	268.28	7.512	



Lonestar Consulting, LLC
Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonnies Tsosie Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Offset Design: A35 2308 Pad - # 501H - Original Drilling - Pre-Drill Rev 1												Offset Site Error:	0 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (ft)	Separation Factor	
14,000	5135	12,857	5103	233	199	-89.02	4047	-5270	2095	1835	259.98	8.059	
14,100	5136	12,857	5103	236	199	-89.02	4047	-5270	2177	1925	252.12	8.634	
14,200	5136	12,857	5103	238	199	-89.02	4047	-5270	2260	2015	244.68	9.236	
14,300	5137	12,857	5103	241	199	-89.02	4047	-5270	2344	2106	237.64	9.864	
14,400	5138	12,857	5103	243	199	-89.02	4047	-5270	2430	2199	230.99	10.518	
14,455	5138	12,857	5103	245	199	-89.02	4047	-5270	2477	2250	227.48	10.890	



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6974' & RKB 26' @ 7000ft (H&P 4

Coordinates are relative to: # 214H - Slot 2

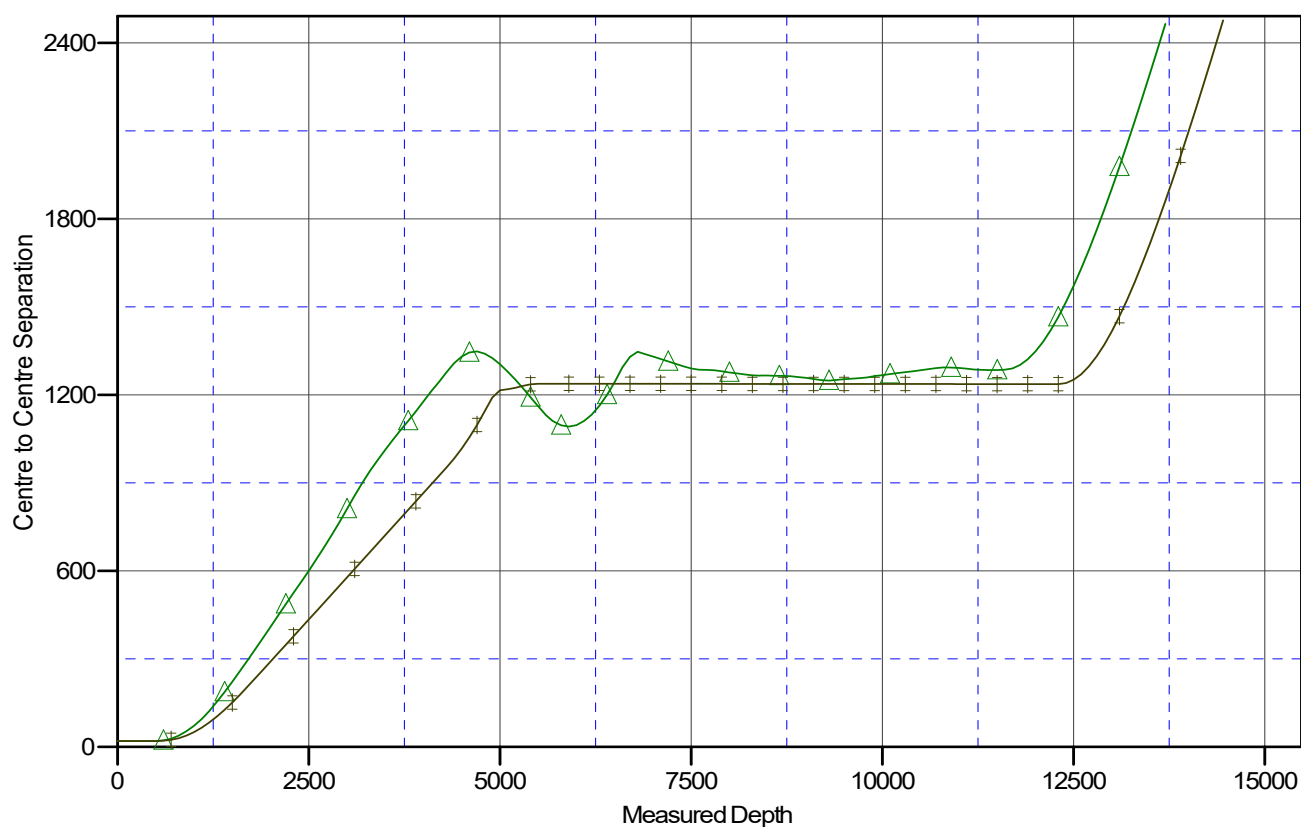
Offset Depths are relative to Offset Datum

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

Central Meridian is -107.8333333

Grid Convergence at Surface is: 0.11°

Ladder Plot



LEGEND

#213H Original Drilling (green line with triangles) #501H Original Drilling (brown line with crosses)



Lonestar Consulting, LLC

Anticollision Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 214H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Reference Site:	A35 2308 Pad	MD Reference:	GL 6974' & RKB 26' @ 7000ft (H&P 443)
Site Error:	0 ft	North Reference:	True
Reference Well:	# 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	Grand Junction
Reference Design:	Pre-Drill Rev 3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 6974' & RKB 26' @ 7000ft (H&P 4

Coordinates are relative to: # 214H - Slot 2

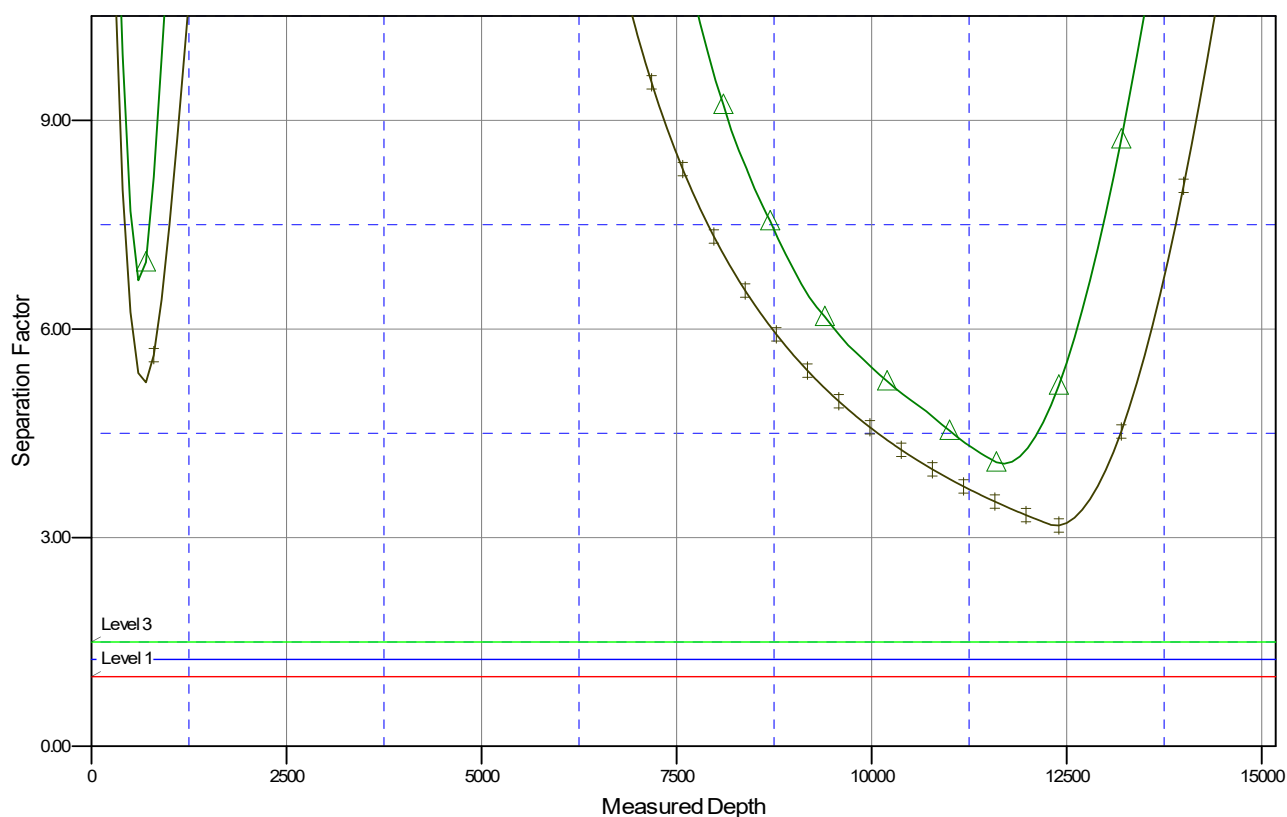
Offset Depths are relative to Offset Datum

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

Central Meridian is -107.83333333

Grid Convergence at Surface is: 0.11°

Separation Factor Plot



LEGEND

#213H Original Drilling, Original Drilling VO
 #501H Original Drilling, Pre-Drill Rev1 VO

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

CONDITIONS

Action 104120

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 104120
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD conditions of approval.	5/4/2022