State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Covernor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhD Deputy Secretary

NMOCD Approved by Signature

Adrienne Sandoval, Division Director Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Well in	r Signature Date: 5/8/2019 Formation. rDJR, Well Name and Number:_Betonnie Tsosie Wash Unit 731H	
API#	30-045-35511, Section_10_, Township _23_ N /S, Range _8E/W	Re-entry status will change when
	ons of Approval: (See the below checked and handwritten conditions)	C-104 is Rec'd
\checkmark	Notify Aztec OCD 24hrs prior to casing & cement.	
✓	If cement doesn't circulate on any casing string or stage tool a CBL will be re regulatory agencies prior to proceeding.	quired. Contact the
✓	Hold C-104 for directional survey & "As Drilled" Plat	
0	Hold C-104 for: NSL, NSP, DHC, 5.9 Compliance	
0	Spacing rule violation. Operator must follow up with change of status notification in or abandoned	on other well to be shut
0	 Regarding the use of a pit, closed loop system or below grade tank, the operator methologous as applicable: A pit requires a complete C-144 be submitted and approved prior to the compit, pursuant to 19.15.17.8.A A closed loop system requires notification prior to use, pursuant to 19.15. A below grade tank requires a registration be filed prior to the construction grade tank, pursuant to 19.15.17.8.C 	onstruction or use of the
✓	Once the well is spud, to prevent ground water contamination through whole or pasurface, the operator shall drill without interruption through the fresh water zone or immediately set in cement the water protection string	
0	Submit Gas Capture Plan form prior to spudding or initiating recompletion operation	ons
✓	Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guid	ance 84
✓	Oil base muds are not to be used until fresh water zones are cased and cemented pr the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and sol a steel closed loop system.	roviding isolation from ids must be contained in
✓	Well-bore communication is regulated under 19.15.29 NMAC. This requires well-be reported in accordance with 19.15.29.8.	bore Communication to
1	Brandon Sandl	

Date

\$

Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR RUPE ALL OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

5.	Lease Serial No.	
ALA	4NIN4076949	

BUREAU OF LAND MAN	NMNM076842	NMNM076842 6. If Indian, Allotee or Tribe Name		
APPLICATION FOR PERMIT TO	6. If Indian, Al			
Ia. Type of work: ✓ DRILL Ib. Type of Well: ✓ Oil Well ☐ Gas Well Ic. Type of Completion: ☐ Hydraulic Fracturing ☐	NMNM135219 8. Lease Name			
2. Name of Operator DJR OPERATING LLC		9. API Well No	30-045-35511	
Ba. Address 1600 Broadway #1960 Denver CO 80202	3b. Phone No. (include are (505)632-3476		ool, or Exploratory SOSIE WASH UNIT / BASIN	
 Location of Well (Report location clearly and in accordance At surface NESE / 2490 FSL / 508 FEL / LAT 36.241 At proposed prod. zone SESE / 346 FSL / 1018 FEL / 	134 / LONG -107.661722	SEC 10 1 123	M. of Blk. and Survey or Area R8W / NMP	
14. Distance in miles and direction from nearest town or post of 43 miles	office*	12. County or SAN JUAN	Parish 13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	16. No of acres in lease 2400 19. Proposed Depth 5323 feet / 18084 feet	17. Specific Unit dedicate 160 20 BLM/BIA Bond No. i FED: NMB001464	n file NAGED	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6933 feet	22. Approximate date work 04/11/2020	23. Estimated 10 days	duration MAR 12	
The following, completed in accordance with the requirements (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sysue) SUPO must be filed with the appropriate Forest Service Only	4. Bond to consider 20 about tem Lands, the 5. Operator of	over the operations unless covered ove).	ring rule per 43 CFR 3162.3-3	
25. Signature (Electronic Submission) Title	Name (Printed/Type Vanessa Cameron	d) / Ph: (303)868-6449	Date 05/08/2019	
Regulatory Manager Approved by (Signature) (Electronic Submission)		e Mankiewicz / Ph: (505)564-7761 03/12/2020		
Title	EADMINICTON	Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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



DISTRICT]
1805 H. French Dr., Hobbs, H.M. 88340
Phone: (876) 388-8181 Fax: (876) 389-6720
DISTRICT II
811 S. Flret St., Artesia, H.M. 88810
Phone: (876) 748-1885 Fax: (876) 748-6730
DISTRICT III
1800 Ho Brance Rd., Asteo, H.M. 87410
Phone: (806) 384-6170 Fax: (806) 394-6170
DISTRICT IV

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

30-045-35511	Pool Code 98175	Pool Name BETONNIE TSOSIE WASH UNIT MANCOS OIL POOL		
Property Code 325179	Property Name BETONNIE TSOSIE WASH UNIT			
TOGRED No. 371838	•	ator Name 'Estation RATING, LLC 6933'		

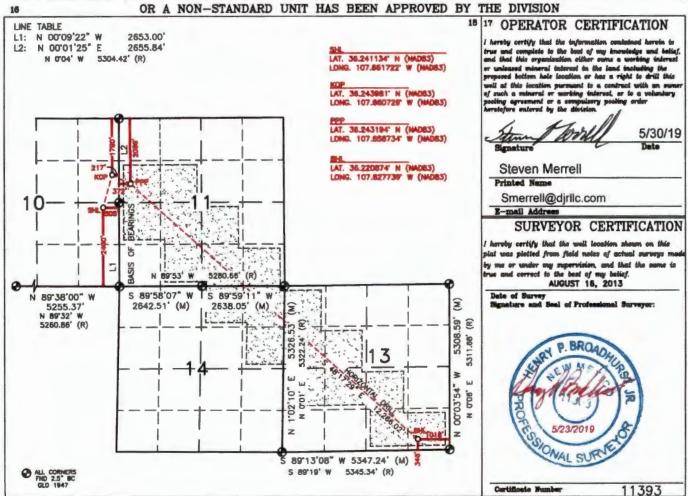
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	10	23N	8W		2490'	SOUTH	508'	EAST	SAN JUAN

11 Rottom Hole Location If Different From Surface

UL or lot no.	Section 13	Township 23N	Range	Let Idn	Feet from the 346'	North/South line SOUTH	Feet from the 1018'	East/West line EAST	County SAN JUAN
Dedicated Acrests. 11: 30/No., 52, 50/No., 6 SE/SE (33 SE/SE (33 SE/SE (33 No./SE, 6 No./SE, 50/No., 50/No., 6 Acrests voya.	D AC.); SEC 1- C 1S: NW/NW.	SH/WH, SE/M	HH/SE,	Joint or Infill	¹⁴ Consolidation (lode	*Order No. R-1393	0, 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





DRILLING PLAN Betonnie Tsosie 731H San Juan County, New Mexico

Surface Location

508-ft FEL & 2491-ft FSL Sec 10 T23N R8W Graded Elevation 6933' MSL RKB Elevation 6947' (14' KB) SHL Geographical Coordinates (NAD-83)

Latitude 36.2411340° N Longitude 107.6617220° W

Kick Off Point for Horizontal Build Curve

4778-ft MD 3533-ft TVD **Local Coordinates (from SHL)**

1037-ft North 291-ft East

Heel Location (Pay zone entry)

372-ft FWL & 2066-ft FNL Sec 11 T23N R8W **Heel Geographical Coordinates (NAD-83)**

Latitude 36.24319366° N Longitude 107.65873406° W

Bottom Hole Location (TD)

1018-ft FEL & 346-ft FSL Sec 13 T23N R8W **BHL Geographical Coordinates (NAD-83)**

Latitude 36.22087358° N Longitude 107.6277387° W

Well objectives

This well is planned as a 12230-ft lateral in the Gallup C sand.

Bottom Hole temperature and pressure

The temperature in the Gallup C horizontal objective is 142°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	1047	1043	Sd	W	8.3	8.4 – 8.8
Kirtland	1152	1145	Sh	-	8.3	8.4 – 8.8
Fruitland	1329	1316	С	G	8.3	9.0 - 9.5
Pictured Cliffs	1675	1648	Sd	W	8.3	9.0 - 9.5
Lewis	1899	1864	Sh	-		9.0 - 9.5
Chacra	2502	2444	Sd	-	8.3	9.0 - 9.5
Menefee	3301	3212	Sd, C	G	8.3	9.0 - 9.5
Point Lookout	4191	4068	Sd	-	8.3	9.0 - 9.5
Mancos	4395	4264	Sh	-		9.0 - 9.5
Mancos Silt	4738	4594	SIt	O/G	6.6	9.0 - 9.5
Gallup A	5229	5049	SIt	O/G	6.6	9.0 - 9.5
Gallup B	5283	5091	Sd	O/G	6.6	8.8 -9.0
Gallup C	5410	5179	Sd	O/G	6.6	8.8 -9.0
Target	5854	5323	Sd	O/G	6.6	8.8 -9.0

Casing Program

Casing	Hole	Weight			MD	MD	TVD	TVD	Top of Cement
OD	Size	(#/ft)	Grade	Coupling	Top	Bottom	Top	Bottom	
9-5/8"	12-1/4"	36	K-55	STC	surf	350	surf	350	surface
7"	8-3/4"	26	K-55	LTC	surf	5844	surf	5323	surface
4-1/2"	6-1/8"	11.6	P-110	BTC	5644	18084	5290	5323	5644

Note: all casing will be new



Casing Design Load Cases

			Casing String	
				4-1/2"
		9-5/8"	7"	Production
	Description	Surface	Intermediate	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

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

Casing Design Factors

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

Cement Design

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

9-5/8" Surface Casing Name Type Additives Planned top Density (ppg) Yield (cf/sx) Mix water (gal/sx) Volume (sx)	Lead Redi-Mix I-II 20% Fly Ash Surface 14.50 1.61 7.41
Planned top	Surface
Density (ppg)	14.50
,	1.61
` ,	7.41
Volume (sx)	114
Volume (bbls)	33
Volume (cu. ft.)	185
Excess %	50

7" Intermediate Casing	<u>Lead</u>	<u>Tail</u>
Halliburton Name	HALCEM	VARICEM
Type	Poz/G	Poz/G
Additives	Ex, L, SA	Ex, FI, SA, L, THX
Planned top	Surface	3895-ft
Density (ppg)	12.30	13.50
Yield (cf/sx)	1.95	1.30
Mix water (gal/sx)	10.14	5.64
Volume (sx)	494	389



Volume (bbls) Volume (cu.ft.) Excess %	172 964 70	90 507 70
4-1/2" Production Liner	<u>Lead</u>	
Halliburton Name	EXTENDACEM	
Type	Poz/G	
Additives	B, De, Di, Fl, Re, V	
Planned top	5644-ft	
Density (ppg)	13.3	
Yield (cf/sx)	1.36	
Mix water (gal/sx)	5.94	
Volume (sx)	1256	
Volume (bbls)	304	
Volume (cu.ft)	1708	
Excess %	30	

Wellhead & Pressure Control

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

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

Mud Program

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

Hole Section	Fluid type	Interval (MD)	Density (ppg)	Funnel Viscosity	Yield Point	Fluid Loss (cc/30 min)
Surface	Fresh water spud mud	0 – 350	8.4 - 8.8	32 – 44	2 – 12	NC
Intermediate	7% KCl Low solids, non- dispersed	350 – 5844	9.0 – 9.5	38 – 45	8 – 14	<20
Production	Low solids, non-dispersed	5844 – 18084	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.

DJR Operating

Betonnie Tsosie Unit I10 2308 # 731H

Original drilling

Plan: APD

Standard Planning Report

01 May, 2019

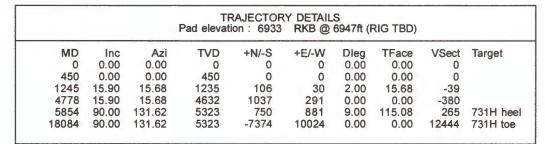


Pad name: 110 2308

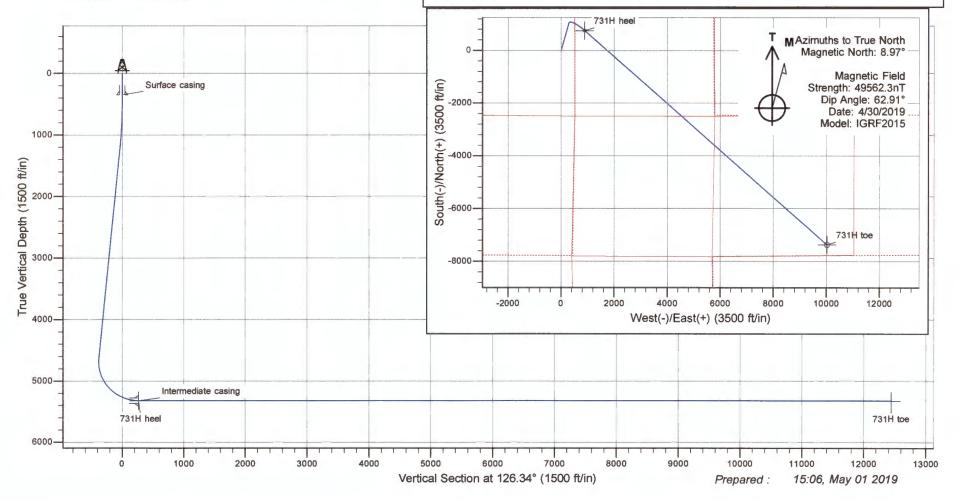
Well name: Betonnie Tsosie Wash Unit #731H

SHL Latitude: 36.24113400 SHL Longitude: -107.66172200

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



				TARGE	T DETAILS			
Name 731H heel 731H toe	TVD 5323 5323	+N/-S 750 -7374	881	Northing 1907867 1899760	2774577	Latitude 36.24319366 36.22087358	Longitude -107.65873406 -107.62773872	



Database: Company: Project:

EDM DJR Operating

Site: Well: **Betonnie Tsosie Unit** 110 2308

#731H Original drilling Wellbore: APD Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

Minimum Curvature

Project

Betonnie Tsosie Unit

Map System: Geo Datum: Map Zone:

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

System Datum:

Mean Sea Level

Site

110 2308

Site Position: From:

Lat/Long

Northing: Easting:

1,907,116 usft 2,773,697 usft

Latitude: Longitude: 36.24113400

Position Uncertainty:

Slot Radius:

13.200 in

Grid Convergence:

-107.66172200

0.10°

Well **Well Position** #731H +N/-S

APD

+E/-W

0 ft Northing: Easting:

1,907,116 usft 2,773,697 usft

Latitude: Longitude:

36.24113400 -107.66172200

Position Uncertainty

0 ft 0 ft Wellhead Elevation:

Ground Level:

6933 ft

Wellbore

Original drilling

Magnetics

Model Name IGRF2015 Sample Date

4/30/2019

Declination (°) 8.97

Dip Angle (°)

Field Strength (nT)

49,562.25021564

Design

Audit Notes:

Version:

Vertical Section:

Phase:

PROTOTYPE

Tie On Depth:

0

62.91

Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) 0 126.34

Plan Survey Tool Program

Date 5/1/2019

Depth From (ft)

Depth To (ft)

Survey (Wellbore)

Tool Name

Remarks

0

18,084 APD (Original drilling)

MWD+IGRF

OWSG MWD + IGRF or WMM

Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (*/100ft)	Rate (*/100ft)	Turn Rate (*/100ft)	TFO (")	Target
0	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00	
450	0.00	0.00	450	0	0	0.00	0.00	0.00	0.00	
1245	15.90	15.68	1235	106	30	2.00	2.00	0.00	15.68	
4778	15.90	15.68	4632	1037	291	0.00	0.00	0.00	0.00	
5854	90.00	131.62	5323	750	881	9.00	6.88	10.77	115.08	731H heel
18,084	90.00	131.62	5323	-7374	10,024	0.00	0.00	0.00	0.00	731H toe

Database: Company: EDM DJR Operating

Original drilling

#731H

APD

Project: Betonnie Tsosie Unit Site: I10 2308

Site:
Well:
Wellbore:
Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

True

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	(°/100ft)	Rate (°/100ft)	(°/100ft)
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
100	0.00	0.00	100	o	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
350	0.00	0.00	350	ő	0	0	0.00	0.00	0.00
Surface casi		0.00	000	Ü	Ü	Ü	0.00	0.00	0.00
		0.00	400						
400	0.00	0.00	400	0	0	0	0.00	0.00	0.00
450	0.00	0.00	450	0	0	0	0.00	0.00	0.00
500	1.00	15.68	500	0	0	0	2.00	2.00	0.00
600	3.00	15.68	600	4	1	-1	2.00	2.00	0.00
700	5.00	15.68	700	10	3	-4	2.00	2.00	0.00
800	7.00	15.68	799	21	6	-8	2.00	2.00	0.00
900	9.00	15.68	898	34	10	-12	2.00	2.00	0.00
1000	11.00	15.68	997	51	14	-19	2.00	2.00	0.00
1047	11.95	15.68	1043	60	17	-22	2.00	2.00	0.00
Ojo Alamo									
1100	13.00	15.68	1094	71	20	-26	2.00	2.00	0.00
1152	14.04	15.68	1145	82	23	-30	2.00	2.00	0.00
Kirtland	13,03	10.00	1145	02			2.00	2.00	5,50
1200	15.00	15.68	1191	94	26	-34	2.00	2.00	0.00
1245	15.90	15.68	1235	106	30	-39	2.00	2.00	0.00
1300	15.90	15.68	1288	120	34	-44	0.00	0.00	0.00
1329	15.90	15.68	1316	128	36	-47	0.00	0.00	0.00
Fruitiand	10.00	10.00	1010	120	-		0.00	0.00	0.00
1400	15.90	15.68	1384	146	41	-54	0.00	0.00	0.00
1500	15.90	15.68	1480	173	48	-63	0.00	0.00	0.00
1600	15.90	15.68	1576	199	56	-73	0.00	0.00	0.00
1675	15.90	15.68	1648	219	61	-80	0.00	0.00	0.00
Picture Cliffs				100	-			1.5	
1700	15.90	15.68	1672	226	63	-83	0.00	0.00	0.00
1800	15.90	15.68	1769	252	71	-92	0.00	0.00	0.00
1899	15.90	15.68	1864	278	78	-102	0.00	0.00	0.00
Lewis									
1900	15.90	15.68	1865	278	78	-102	0.00	0.00	0.00
2000	15.90	15.68	1961	305	85	-112	0.00	0.00	0.00
2100	15.90	15.68	2057	331	93	-121	0.00	0.00	0.00
2200	15.90	15.68	2153	357	100	-131	0.00	0.00	0.00
2300	15.90	15.68	2249	384	108	-141	0.00	0.00	0.00
2400	15.90	15.68	2346	410	115	-150	0.00	0.00	0.00
2500	15.90	15.68	2442	437	123	-160	0.00	0.00	0.00
2502	15.90	15.68	2444	437	123	-180	0.00	0.00	0.00
Chacra									
2600	15.90	15.68	2538	463	130	-170	0.00	0.00	0.00
2700	15.90	15.68	2634	489	137	-179	0.00	0.00	0.00
2800	15.90	15.68	2730	516	145	-189	0.00	0.00	0.00
2900	15.90	15.68	2827	542	152	-199	0.00	0.00	0.00
3000	15.90	15.68	2923	568	160	-208	0.00	0.00	0.00
3100	15.90	15.68	3019	595	167	-218	0.00	0.00	0.00
3200	15.90	15.68	3115	621	174	-228	0.00	0.00	0.00
3300	15.90	15.68	3211	648	182	-237	0.00	0.00	0.00
3301	15.90	15.68	3212	648	182	-237	0.00	0.00	0.00
Menefee									

Database: Company: Project: EDM D.IR Open

DJR Operating Betonnie Tsosie Unit

Site: Well: Wellbore: I10 2308 # 731H Original drilling Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

True

ilgn:	APD		and the second s	- 12				r vogges s stjerner og er	
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
3500	15.90	15.68	3404	700	197	-257	0.00	0.00	0.00
3600	15.90	15.68	3500	727	204	-266	0.00	0.00	0.00
3700	15.90	15.68	3596	753	211	-276	0.00	0.00	0.00
					219	-286	0.00	0.00	0.00
3800	15.90	15.68	3692	779					
3900	15.90	15.68	3788	806	226	-295	0.00	0.00	0.00
4000	15.90	15.68	3884	832	234	-305	0.00	0.00	0.00
4100	15.90	15.68	3981	859	241	-315	0.00	0.00	0.00
					248		0.00	0.00	0.00
4191	15.90	15.68	4068	883	240	-323	0.00	0.00	0.00
Point Looko	ut								
4200	15.90	15.68	4077	885	248	-324	0.00	0.00	0.00
4300	15.90	15.68	4173	911	256	-334	0.00	0.00	0.00
4395	15.90	15.68	4264	936	263	-343	0.00	0.00	0.00
Mancos									
4400	15.90	15.68	4269	938	263	-344	0.00	0.00	0.00
4500	15.90	15.68	4365	964	271	-353	0.00	0.00	0.00
			4461	990	278		0.00	0.00	0.00
4600	15.90	15.68				-363			
4700	15.90	15.68	4558	1017	285	-373	0.00	0.00	0.00
4738	15.90	15.68	4594	1027	288	-376	0.00	0.00	0.00
	10.00	10.00				-,-			
Mancos Silt									
4778 KOP	15.90	15.68	4633	1037	291	-380	0.00	0.00	0.00
4800	15.16	22.65	4654	1043	293	-382	9.13	-3.38	31.69
4850	14.37	40.11	4702	1054	300	-383	9.00	-1.57	34.92
			4751	1062	309	-380	9.00	1,13	35.44
4900	14.94	57.82	4/31	1002	308	-300	5.00	1,13	33.44
4950	16.71	73.06	4799	1067	321	-374	9.00	3.55	30.46
5000	19.37	84.84	4846	1070	337	-363	9.00	5.31	23.57
5050	22.59	93.63	4893	1070	354	-349	9.00	6.46	17.58
5100	26.18	100.22	4939	1068	375	-331	9.00	7.18	13.19
5150	30.00	105.29	4983	1063	398	-309	9.00	7.64	10.13
5200	33.98	109.28	5025	1055	423	-284	9.00	7.95	7.99
			5049	1049	439	-268	9.00	8.12	6.74
5229	36.35	111.25	5049	1049	433	-200	9.00	0.12	0.74
Gallup A									
5250	38.05	112.52	5066	1044	450	-256	9.00	8.21	6.11
5283	40.79	114.35	5091	1036	470	-235	9.00	8.28	5.54
Gallup B									
	40.04	445.00	E404	4004	490	224	0.00	8.34	5.09
5300	42.21	115,22	5104	1031	480	-224	9.00	0.34	5.09
5350	46.41	117.51	5139	1016	511	-190	9.00	8.41	4.59
5400	50.66	119.50	5173	998	544	-153	9.00	8.49	3.98
		119.88	5179	994	551	-145	9.00	8.53	3.69
5410	51.53	119.00	3178	334	331	-140	8.00	0.55	3.08
Gallup C									
5450	54.93	121.26	5203	978	578	-113	9.00	8.56	3.48
5500	59.23	122.85	5230	955	614	-72	9.00	8.60	3.17
							6.00	0.00	0.00
5550	63.55	124.30	5254	931	650	-28	9.00	8.63	2.90
5600	67.88	125.64	5274	905	688	18	9.00	8.66	2.69
5644	71.70	126.76	5290	880	721	59	9.00	8.68	2.54
Top of liner									
5650	72.22	126.91	5292	877	726	65	9.00	8.69	2.47
							9.00	8.70	2.41
5700	76.57	128.11	5305	848	764	113	9.00	0.70	2.41
5750	80.92	129.27	5315	817	802	162	9.00	8.71	2.32
5800	85.28	130.41	5321	785	840	212	9.00	8.71	2.27
5854	89.98	131.62	5323	750	881	265	9.00	8.72	2.24
			5323	750	001	203	9.00	0.72	2.27
Target - inte	rmediate casing								
5900	90.00	131.62	5323	719	915	311	0.04	0.03	0.01

Database: Company: Project: EDM DJR Operating Betonnie Tsosie Unit

Site: Well: Wellbore: # 731H Original drilling APD Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

True

n:	APD	46							
ned 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)
6000	90.00	131.62	5323	653	990	411	0.00	0.00	0.00
6100	90.00	131.62	5323	587	1065	510	0.00	0.00	0.00
6200	90.00	131.62	5323	520	1140	610	0.00	0.00	0.00
6300	90.00	131.62	5323	454	1214	709	0.00	0.00	0.00
6400	90.00	131.62	5323	387	1289	809	0.00	0.00	0.00
6500	90.00	131.62	5323	321	1364	909	0.00	0.00	0.00
6600	90.00	131.62	5323	254	1439	1008	0.00	0.00	0.00
6700	90.00	131.62	5323	188	1513	1108	0.00	0.00	0.00
6800	90.00	131.62	5323	122	1588	1207	0.00	0.00	0.00
6900	90.00	131.62	5323	55	1663	1307	0.00	0.00	0.00
7000	90.00	131.62	5323	-11	1738	1406	0.00	0.00	0.00
7100	90.00	131.62	5323	-78	1812	1506	0.00	0.00	0.00
7200	90.00	131.62	5323	-144	1887	1606	0.00	0.00	0.00
7300	90.00	131.62	5323	-211	1962	1705	0.00	0.00	0.00
7400	90.00	131.62	5323	-277	2037	1805	0.00	0.00	0.00
7500	90.00	131.62	5323	-343	2111	1904	0.00	0.00	0.00
7600	90.00	131.62	5323	-410	2186	2004	0.00	0.00	0.00
7700	90.00	131.62	5323	-476	2261	2103	0.00	0.00	0.00
7800	90.00	131.62	5323	-543	2336	2203	0.00	0.00	0.00
7900	90.00	131.62	5323	-609	2410	2303	0.00	0.00	0.00
8000	90.00	131.62	5323	-675	2485	2402	0.00	0.00	0.00
8100	90.00	131.62	5323	-742	2560	2502	0.00	0.00	0.00
8200	90.00	131.62	5323	-808	2635	2601	0.00	0.00	0.00
8300	90.00	131.62	5323	-875	2709	2701	0.00	0.00	0.00
8400	90.00	131.62	5323	-941	2784	2800	0.00	0.00	0.00
8500	90.00	131.62	5323	-1008	2859	2900	0.00	0.00	0.00
8600	90.00	131.62	5323	-1074	2934	3000	0.00	0.00	0.00
8700	90.00	131.62	5323	-1140	3008	3099	0.00	0.00	0.00
8800	90.00	131.62	5323	-1207	3083	3199	0.00	0.00	0.00
8900	90.00	131.62	5323	-1273	3158	3298	0.00	0.00	0.00
9000	90.00	131.62	5323	-1340	3233	3398	0.00	0.00	0.00
9100	90.00	131.62	5323	-1406	3308	3497	0.00	0.00	0.00
9200	90.00	131.62	5323	-1473	3382	3597	0.00	0.00	0.00
9300	90.00	131.62	5323	-1539	3457	3697	0.00	0.00	0.00
9400	90.00	131.62	5323	-1605	3532	3796	0.00	0.00	0.00
9500	90.00	131.62	5323	-1672	3607	3896	0.00	0.00	0.00
9600	90.00	131.62	5323	-1738	3681	3995	0.00	0.00	0.00
9700	90.00	131.62	5323	-1805	3756	4095	0.00	0.00	0.00
9800	90.00	131.62	5323	-1871	3831	4195	0.00	0.00	0.00
9900	90.00	131.62	5323	-1937	3906	4294	0.00	0.00	0.00
10,000	90.00	131.62	5323	-2004	3980	4394	0.00	0.00	0.00
10,100	90.00	131.62	5323	-2070	4055	4493	0.00	0.00	0.00
10,200	90.00	131.62	5323	-2137	4130	4593	0.00	0.00	0.00
10,300	90.00	131.62	5323	-2203	4205	4692	0.00	0.00	0.00
10,400	90.00	131.62	5323	-2270	4279	4792	0.00	0.00	0.00
10,500	90.00	131.62	5323	-2336	4354	4892	0.00	0.00	0.00
10,600	90.00	131.62	5323	-2402	4429	4991	0.00	0.00	0.00
10,700	90.00	131.62	5323	-2469	4504	5091	0.00	0.00	0.00
10,800	90.00	131.62	5323	-2535	4578	5190	0.00	0.00	0.00
10,900	90.00	131.62	5323	-2602	4653	5290	0.00	0.00	0.00
11,000	90.00	131.62	5323	-2668	4728	5389	0.00	0.00	0.00
11,100	90.00	131.62	5323	-2735	4803	5489	0.00	0.00	0.00
11,200	90.00	131.62	5323	-2801	4877	5589	0.00	0.00	0.00
11,300	90.00	131.62	5323	-2867	4952	5688	0.00	0.00	0.00

Database: Company: EDM DJR Operating

Project: Betonnie Tsosie Unit 110 2308 Site: Well: #731H

Original drilling Wellbore: APD

Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

True

riamieu	Survey
	Measur

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
11,400	90.00	131.62	5323	-2934	5027	5788	0.00	0.00	0.00
11,500	90.00	131.62	5323	-3000	5102	5887	0.00	0.00	0.00
11,600	90.00	131.62	5323	-3067	5176	5987	0.00	0.00	0.00
11,700	90.00	131.62	5323	-3133	5251	6086	0.00	0.00	0.00
11,800	90.00	131.62	5323	-3199	5326	6186	0.00	0.00	0.00
11,900	90.00	131.62	5323	-3266	5401	6286	0.00	0.00	0.00
12,000	90.00	131.62	5323	-3332	5475	6385	0.00	0.00	0.00
12,100	90.00	131.62	5323	-3399	5550	6485	0.00	0.00	0.00
12,200	90.00	131.62	5323	-3465	5625	6584	0.00	0.00	0.00
12,300	90.00	131.62	5323	-3532	5700	6684	0.00	0.00	0.00
12,400	90.00	131.62	5323	-3598	5774	6783	0.00	0.00	0.00
12,500	90.00	131.62	5323	-3664	5849	6883	0.00	0.00	0.00
12,600	90.00	131.62	5323	-3731	5924	6983	0.00	0.00	0.00
12,700	90.00	131.62	5323	-3797	5999	7082	0.00	0.00	0.00
12,800	90.00	131.62	5323	-3864	6073	7182	0.00	0.00	0.00
12,900	90.00	131.62	5323	-3930	6148	7281	0.00	0.00	0.00
13,000	90.00	131.62	5323	-3996	6223	7381	0.00	0.00	0.00
13,100	90.00	131.62	5323	-4063	6298	7480	0.00	0.00	0.00
13,200	90.00	131.62	5323	-4129	6372	7580	0.00	0.00	0.00
13,300	90.00	131.62	5323	-4196	6447	7680	0.00	0.00	0.00
13,400	90.00	131.62	5323	-4262	6522	7779	0.00	0.00	0.00
13,500	90.00	131.62	5323	-4329	6597	7879	0.00	0.00	0.00
13,600	90.00	131.62	5323	-4395	6671	7978	0.00	0.00	0.00
13,700	90.00	131.62	5323	-4461	6746	8078	0.00	0.00	0.00
13,800	90.00	131.62	5323	-4528	6821	8178	0.00	0.00	0.00
13,900	90.00	131.62	5323	-4594	6896	8277	0.00	0.00	0.00
14,000	90.00	131.62	5323	-4661	6971	8377	0.00	0.00	0.00
14,100	90.00	131.62	5323	-4727	7045	8476	0.00	0.00	0.00
14,200	90.00	131.62	5323	-4794	7120	8576	0.00	0.00	0.00
14,300	90.00	131.62	5323	-4860	7195	8675	0.00	0.00	0.00
14,400	90.00	131.62	5323	-4926	7270	8775	0.00	0.00	0.00
14,500	90.00	131.62	5323	-4993	7344	8875	0.00	0.00	0.00
14,600	90.00	131.62	5323	-5059	7419	8974	0.00	0.00	0.00
14,700	90.00	131.62	5323	-5126	7494	9074	0.00	0.00	0.00
14,800	90.00	131.62	5323	-5192	7569	9173	0.00	0.00	0.00
14,900	90.00	131.62	5323	-5258	7643	9273	0.00	0.00	0.00
15,000	90.00	131.62	5323	-5325	7718	9372	0.00	0.00	0.00
15,100	90.00	131.62	5323	-5391	7793	9472	0.00	0.00	0.00
15,200	90.00	131.62	5323	-5458	7868	9572	0.00	0.00	0.00
15,300	90.00	131.62	5323	-5524	7942	9671	0.00	0.00	0.00
15,400	90.00	131.62	5323	-5591	8017	9771	0.00	0.00	0.00
15,500	90.00	131.62	5323	-5657	8092	9870	0.00	0.00	0.00
15,600	90.00	131.62	5323	-5723	8167	9970	0.00	0.00	0.00
15,700	90.00	131.62	5323	-5790	8241	10,069	0.00	0.00	0.00
15,800	90.00	131.62	5323	-5856	8316	10,169	0.00	0.00	0.00
15,900	90.00	131.62	5323	-5923	8391	10,269	0.00	0.00	0.00
16,000	90.00	131.62	5323	-5989	8466	10,368	0.00	0.00	0.00
16,100	90.00	131.62	5323	-6056	8540	10,468	0.00	0.00	0.00
16,200	90.00	131.62	5323	-6122	8615	10,567	0.00	0.00	0.00
16,300	90.00	131.62	5323	-6188	8690	10,667	0.00	0.00	0.00
16,400	90.00	131.62	5323	-6255	8765	10,766	0.00	0.00	0.00
16,500	90.00	131.62	5323	-6321	8839	10,866	0.00	0.00	0.00
16,600	90.00	131.62	5323	-6388	8914	10,966	0.00	0.00	0.00
16,700	90.00	131.62	5323	-6454	8989	11,065	0.00	0.00	0.00

Database: Company: Project:

EDM **DJR** Operating Betonnie Tsosie Unit

110 2308 Site: #731H Well: Wellbore: Original drilling APD Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

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)
16,800	90.00	131.62	5323	-6520	9064	11,165	0.00	0.00	0.00
16,900	90.00	131.62	5323	-6587	9138	11,264	0.00	0.00	0.00
17,000	90.00	131.62	5323	-6653	9213	11,364	0.00	0.00	0.00
17,100	90.00	131.62	5323	-6720	9288	11,464	0.00	0.00	0.00
17,200	90.00	131.62	5323	-6786	9363	11,563	0.00	0.00	0.00
17,300	90.00	131.62	5323	-6853	9437	11,663	0.00	0.00	0.00
17,400	90.00	131.62	5323	-6919	9512	11,762	0.00	0.00	0.00
17,500	90.00	131.62	5323	-6985	9587	11,862	0.00	0.00	0.00
17,600	90.00	131.62	5323	-7052	9662	11,961	0.00	0.00	0.00
17,700	90.00	131.62	5323	-7118	9736	12,061	0.00	0.00	0.00
17,800	90.00	131.62	5323	-7185	9811	12,161	0.00	0.00	0.00
17,900	90.00	131.62	5323	-7251	9886	12,260	0.00	0.00	0.00
18,000	90.00	131.62	5323	-7318	9961	12,360	0.00	0.00	0.00
18,084	90.00	131.62	5323	-7374	10,024	12,444	0.00	0.00	0.00

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
731H toe - plan hits target ce - Circle (radius 100		0.00	5323	-7374	10,024	1,899,760	2,783,734	36.22087358	-107.6277387
731H heel - plan hits target ce - Circle (radius 50)		0.00	5323	750	881	1,907,867	2,774,577	36.24319366	-107.6587340

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
350	350	Surface casing	9.625	12.250
5854	5323	Intermediate casing	7.000	8.750

Database: Company: Project: EDM DJR Operating Betonnie Tsosie Unit

Site: I10 2308
Well: #731H
Wellbore: Original drilling
Design: APD

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

True

Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1047	1043	Ojo Alamo		0.00	
1152	1145	Kirtland		0.00	
1329	1316	Fruitland		0.00	
1675	1648	Picture Cliffs		0.00	
1899	1864	Lewis		0.00	
2502	2444	Chacra		0.00	
3301	3212	Menefee		0.00	
4191	4068	Point Lookout		0.00	
4395	4264	Mancos		0.00	
4738	4594	Mancos Silt		0.00	
5229	5049	Gallup A		0.00	
5283	5091	Gallup B		0.00	
5410	5179	Gallup C		0.00	
5854	5323	Target		0.00	

la					

Measured	Vertical	Local Coor	dinates			
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment		
4778	4633	1037	291	KOP		
5644	5290	880	721	Top of liner		

DJR Operating

Betonnie Tsosie Unit 110 2308 # 731H

Original drilling APD

Anticollision Report

01 May, 2019

Anticollision Report

Company: Project:

DJR Operating

Betonnie Tsosie Unit

Reference Site: Site Error: Reference Well: Well Error.

110 2308 0 ft #731H 0 ft

Reference Wellbore Original drilling Reference Design: APD

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well # 731H

RKB @ 6947ft (RIG TBD) RKB @ 6947ft (RIG TBD)

Minimum Curvature 2.00 sigma

EDM Offset Datum

APD Reference

Filter type:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Depth Range:

Stations Unlimited

Results Limited by: Warning Levels Evaluated at:

0

Maximum center-center distance of 10,000 ft

2.00 Sigma

ISCWSA Error Model: Closest Approach 3D

Scan Method: Error Surface:

Pedal Curve Not applied

Casing Method:

Survey Tool Program

From

(ft)

Date 5/1/2019

To

(ft)

18,084 APD (Original drilling)

Survey (Wellbore)

Tool Name MWD+IGRF Description

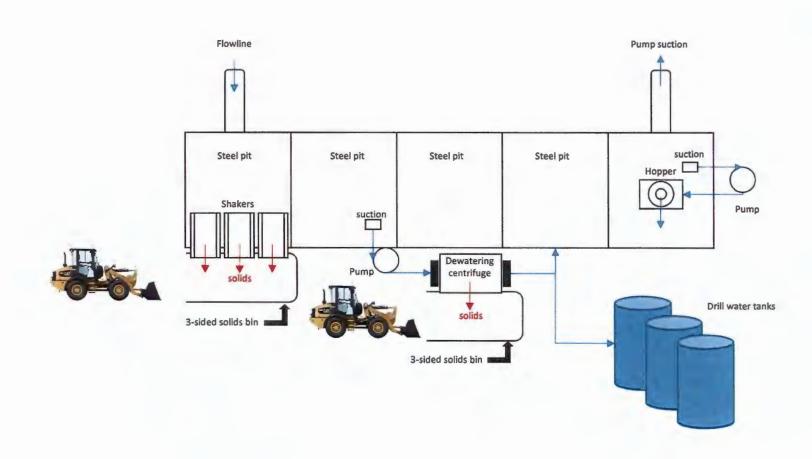
OWSG MWD + IGRF or WMM

ummary							
	Reference	Offset	Dista	nce			
Site Name Offset Well - Wellbore - Design	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning	
110 2308							
# 110H - Original drilling - APD # 110H - Original drilling - APD	450 16,900	450 15,685	60 1188	57 627	21.308 CC, ES 2.116 SF		

Offset De	-		8 - # 1101	H - Original	drilling - /	APD							Offset Site Error:	
urvey Prog		WD+IGRF		***********	1.0				B)-4				Offset Well Error:	(
Refer		Offse		Semi Major				Once.	Dist		-			
Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Verticel Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbon +N/-S (ft)	+E/-W	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0	0	0	0	0	0	151.55	-53	29	60					
100		100	100	0	0	151.55	-53	29	60		0.31	194.741		
200		200	200	1	1	151.55	-53	29	60		1.03	58.558		
300		300	300	1	1	151.55	-53	29	60		1.74	34.460		
400		400	400	1	1	151.55	-53	29	60	58	2.46	24.414		
450		450	450	1	1	151.55	-53	29	60	57	2.82	21.308	CC, ES	
500	500	499	499	2	2	135.93	-53	29	61	58	3.17	19.171		
600	600	597	597	2	2	136.38	-55	32	66	62	3.86	17.126		
700	700	695	694	2	2	137.07	-58	38	77	72	4.56	16.855		
800	799	792	791	3	3	137.83	-63	46	93	88	5.28	17.618		
900	898	890	888	3	3	139.23	-68	55	112	106	6.01	18.886		
1000	997	987	985	3	3	141.08	-73	65	134	128	6.75	19.889		
1100	1094	1084	1081	4	4	143.09	-78	74	159	152	7.51	21.200		
1200	1191	1180	1176	4	4	145.08	-84	83	187	179	8.27	22.601		
1245	1235	1222	1219	5	4	145.95	-86	67	200	192	8.62	23.250		
1300	1288	1275	1271	5	5	147.09	-89	92	217	208	9.04	24.035		
1400	1384	1369	1365	6	5	148.77	-94	101	248	238	9.81	25.306		
1500	1480	1464	1460	6	5	150.09	-99	110	279		10.58	26.396		
1600	1576	1559	1554	7	6	151.14	-104	119	310		11.36			
1700	1672	1654	1648	7	6	151.99	-109	128	342		12.13	28.164		
1800	1769	1749	1743	8	6	152.71	-114	137	373	360	12.91	28.887		
1900	1865	1844	1837	8	7	153.31	-119	146	404		13.69			
2000	1961	1939	1931	9	7	153.63	-124	155	436		14.48			
2100	2057	2034	2025	10	8	154.28	-130	164	467		15.26			
2200	2153	2129	2120	10	8	154.67	-135	172	499	482	16.04	31.069		

Closed Loop Mud System

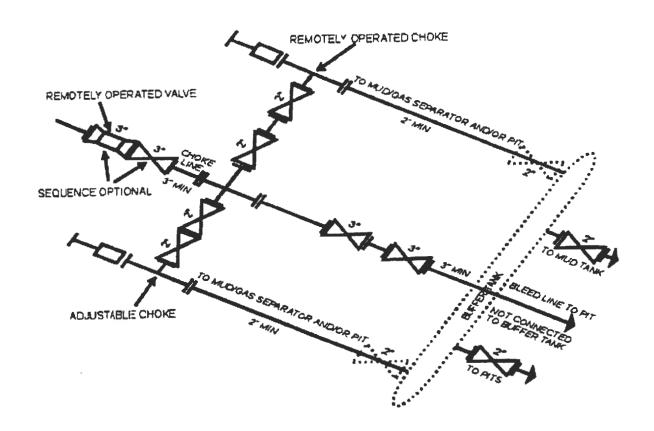


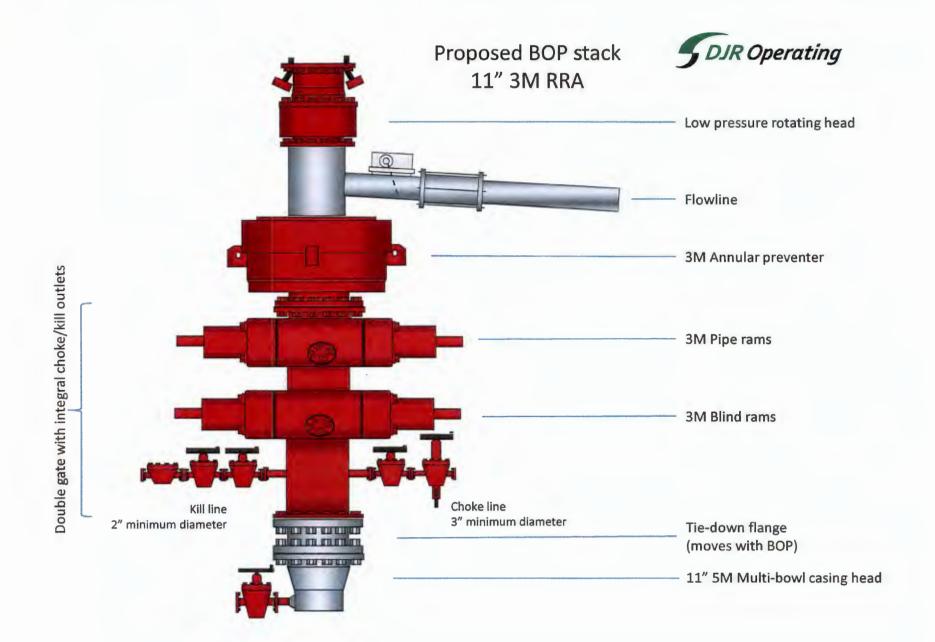


Choke Manifold



Actual system to conform with Onshore Order 2





District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Date:4/18/2019

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

⊠ Original	Operator & OGRID No.: DJR Operating LLC.; 371838
☐ Amended - Reason for Amendment:	

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Betonnie Tsosie Wash Unit 110H		NESE,Section 10, T23N, R8W	2438' FSL, 480' FEL	1450	Flared	
Betonnie Tsosie Wash Unit 731H		NESE,Section 10, T23N, R8W	2490' FSL, 508' FEL	1450	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to **Enterprise Field Services**, **LLC (Enterprise)** and will be connected to **Enterprise's** low/high pressure gathering system located in **Sandoval** County, New Mexico. It will require approximately **3996'** of pipeline to connect the facility to DJR Operating LLC. low/high pressure Existing **Pipeline in Sec. 11, T23N, R8W** which ties into **Enterprise'** existing pipeline in **Section 25, T23N, R7W**. **DJR Operating LLC.** provides (periodically) to **Enterprise** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **DJR Operating LLC.** and **Enterprise** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the **Chaco Processing Plant** located in Sec. **16**, Twn **26N**, Rng **12W**, **San Juan** County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Enterprise** system at that time. Based on current information, it is **DJR Operating LLC.**'s belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

