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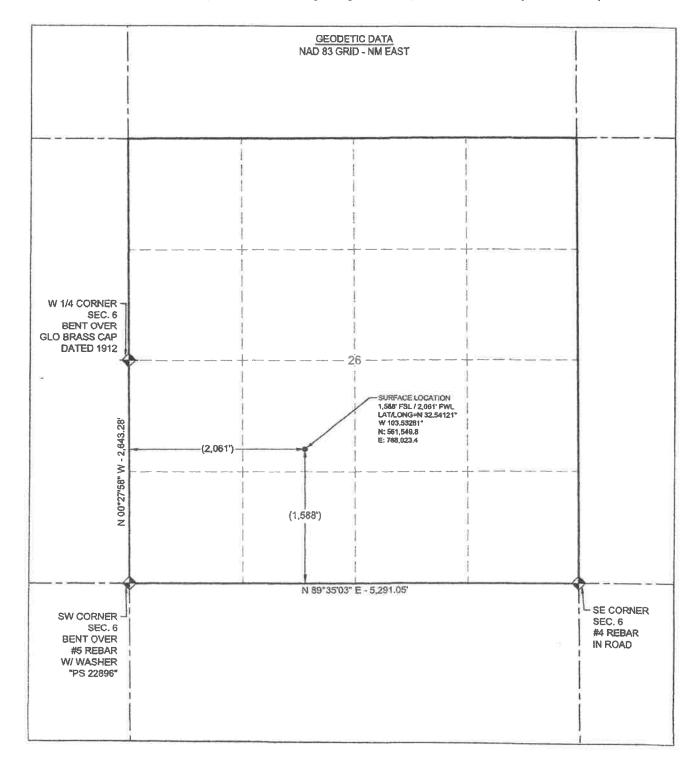
Phone Gener Phone Online	Fe Main Offi e: (505) 476- ral Information e: (505) 629- e Phone Dire	3441 on 6116	nontsimunes		Energy, Mir	ate of New Mexico lerals & Natural Re Department SERVATION DIV	esources		Revised July 9, 20. Submit Electronic via OCD Permittin Submittal			
				-				Submital Type:	Revised July 9, 20 Submit Electronic via OCD Permittir ibmittal Description As Drilled FUSSELMAN Well Number #1 Ground Level Elevation 3,719.4' Tribal XI Federal Longitude County			
								Type.	Amended Report As Drilled SSELMAN Well Number #1 Ground Level Elevation 3,719.4' bal & Federal Longitude County W103.53281° LEA Longitude County Idation Code ership: □Yes □No Longitude County Longitude County Longitude County			
					WELL LOCA	TION INFORMATION		_				
APIN	lumber		Pool Code	3		Pool Name	T A THE					
-		5-54599			834	L	AGI: DEVON	HAN-FUSS	ELMAN			
Prope	orty Code 3371	98	Property I	vame		LIBBY AGI			Well Numb	1.191.51		
OGR	ID No.	162.00	Operator	Name		CIOCITIO			Ground Le			
C. f		2603				ELD SERVICES, LL				3,719.4'		
Surra	ce Owner: L	State XI Fee	E LI Tribal L	J Federa		Mineral Owner:	☐ State ☐ F	ee 🗆 Tribal	☑ Federal			
	4				Su	rface Location						
UL	Section	Township	Range	Lot	Ft. from S	Ft. from W	Latitude	L	ongitude	County		
	26	20	34		1,588'	2,061'	N32.5	4121° V	V103.53281°	LEA		
				4	Botto	m Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	Longitude County			
Dodia	ated Acres	Infill or Defin	sing Moll	Defair	an Maria ADI	To-take and		12				
Dedic	aled Autes	I main or bein	ing wen	Denni	ng Well API	Overlapping Spaci	ing Unit (Y/N)	Consolida	tion Code			
Order	Numbers.	l		1		Well setherks ar	e under Com	MOD Ourses	hin: []Von []	No		
				-		11011 00 20 00 01	o direct com	THE STREET	IIIP. (1 (65 L)	110		
	1 -	1 =		,		Off Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County		
	1			L	First	Take Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Į L	ongitude	County		
					Last 7	ake Point (LTP)	_			<u> </u>		
UL	Section	Township	Range	Lot	Ft. from N/S	Pt. from E/W	Latitude	L	ongitude	County		
Unitiza	ed Area or A	rea of Uniform	Interest	Spacin	ig Unit Type 🗆 H	lorizontal Vertical	Gro	und Floor Ele	evation:			
OPER	ATOR CER	TIFICATIONS				CUBVEYOR CERT	TEICATIONIC					
				(a and one	plete to the best of	SURVEYOR CERT						
MY KEIGH	vledgo and balk	ef, and, if the well i	s a vertical or o	irectional w	ell that this	I hereby certify that the w surveys made by me or t	reli location shows ander my supervis	on this plat wasion, and that the	s plotted from field same is true and	d notes of actual		
DOSUBIEN	besogged and	s a working interestable to bottom hole location	on or has a righ	to drill this	well at this	my belief.			13	C (Na)		
interest,	or to a voluntar	y pooling agreeme	ner of a working ant or a comput	interest or sory pooling	unleased mineral order heretofore				NOWA	SUCARIO		
	by the division.								1	METER		
consent	of at least one	I well, I further cer essee ar owner of	a working inter	est or unlea	used mineral interest				1150	22906		
in each i	tract (in the targ	et pool or formation obtained a comp	in which any	part of the	well's completed				LAX	23/25		
	// /	A CONTR	puony puoning i	A rice (10th)	ne uivision.		76.	nas a	13	18/		
Signatu	Ing.		9/	11/2	5	-		1	Charles of	on		
S 11/2	1		Date	- 417		Signature and Seal of	Professional Su	rveyor	010	WAL SUN		
14	ector	J. Sa.	nehez			22896	11/12/20	24				
nnted	Name					Certificate Number	Date of Su	rvey				
hec (ddress	J. Sa.	elek logi	stics.	Com							

Note: No allowable will be assigned to this completion untit all interests have been obnisolicated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

State of New Mexico

Form C-101 Revised July 18, 2013

Released to Imaging: 9/17/2025 11:11:04 AM

Energy Minerals and Natural Resources

Oil Conservation Division

☐AMENDED REPORT

Online Phone Directory Visit:

https://www.emnrd.nm.gov/ocd/contact-us/

1220 South St. Francis Dr.

Santa Fe, NM 87505

			Operator Name DKL FIELD S	and Addr ERVICES	ess			PLUGBAC	² OGRID N 37260	lumber
			10 Sevens Springs Brentwood, T	Way, Suit N 37027	e 500				30-025-5	
⁴ Property	Code 33	37198	LIBBY AGI		³ Property N	ame				6 Well No. 001
					7. Surface Lo	cation				
UL - Lot	Section 26	Township 20S	Range	Lot			'S Line	Feet From	E/W Line	
	20	205	34E	3. D	roposed Botton		OUTH	2061	WEST	LEA
UL - Lot	Section	Township	Range	Lot			S Line	Feet From	E/W Line	e County
К	26	208	34E		1588		DUTH	2061	WEST	LEA
					9. Pool Inform	nation				
ACID GAS II	NJECTI	ION			Pool Name					Pool Code 97834
				Ad	ditional Well I	nformation				***************************************
11 Work T N	уре		12 Well Type AGI		13 Cable/Ro ROTAR		14	Lease Type FEE	15	Ground Level Elevation 3719.4'
^{16.} Multip N	ple		17 Proposed Depth 16400'		18. Formati DEVONIAN-FUSSE			9. Contractor LB/NABORS		²⁰ Spud Date
Depth to Ground	water		Dista	nce from 1	nearest fresh water w	ell		Distance	to nearest surf	face water
200'			NA			NA				
⊠We will be u	sing a cl	osed-loop	system in lieu o	f lined p	its					
			21.	Propos	ed Casing and	Cement Pr	ogram			
Туре	Hole	Size	Casing Size	Cas	sing Weight/ft	Setting	g Depth	Sacks of	Cement	Estimated TOC
SURFACE	28	3"	24"		186	1,6	540	10	50	SURFACE
SALT STRING	22	2"	18 5/8"		115	3,6	90'	22	00	SURFACE
#1 INT	16.	5"	13 3/8"		68	5,8	70'	25	00	SURFACE
#2 INT	12	1/4"	9 5/8"		47	11,0	580'	94	0	SURFACE
PROD	8 1/	/2"	7"		32	14,	370'	45	0	SURFACE
			Casir	o/Cem/	ent Program: A	dditional (ommente	,		

	²² Proposed Blowout Prev	ention Program	
Туре	Working Pressure	Test Pressure	Manufacturer
ANNULAR	5000	5000	SHAFFER
DOUBLE RAM	10000	10000	SHAFFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable.	Approved By:
Printed name: Hector J. Sanchez	Title:

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Title: HSER- Sr. Manager	Approved Date:	Expiration Date:
E-mail Address: hector.sanchez@deleklogistics.com		
Date: 9/11/25 Phone: 432 238-6465	Conditions of Approval Attac	ched

Page 5 of 24

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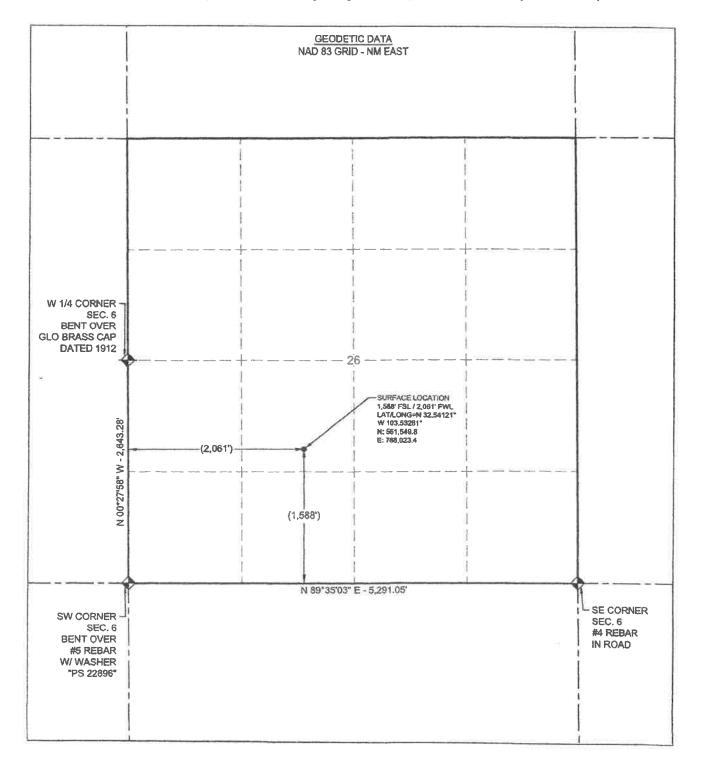
Phone Gener Phone Online	Fe Main Off : (505) 476- al Informatio : (505) 629- Phone Dire	3441 on 6116	contact-us/		Energy, Mir	ate of New Mexico nerals & Natural Ro Department SERVATION DIV		Submittal Type:	Type: U Amended Report			
									☐ As Drill	ed		
			-		WELL LOCA	TION INFORMATION						
APIN	lumber		Pool Code	-	7834	Pool Name	01. 05.404	WAN ELICO				
Prope	rty Code		Property I		004	L	AGI. DEVON	11414-1-099	Well Number #1 Ground Level Elevation 3,719,4'			
						LIBBY AGI						
OGRI		2603	Operator	Name	DKL FI	ELD SERVICES, LL	C					
Surfa	ce Owner: [State XI Fe	e 🗆 Tribal 🗀] Federa		Mineral Owner:		ee 🗆 Tribal	☑ Federal	0,710.4		
UL	Section	Township	Dance	Liet		rface Location	11.22			Ta		
UL	Section 26	0 000	Range	Lot	Ft. from S	Ft, from W	Latitude		.ongitude	County		
	1 20	20	34		1,588'	2,061'	N32.5	4121° V	V103.53281°	LEA		
UL	Section	Township	Range	11.00		m Hole Location	1 1 11 1	17				
UL	Section	Township	range	Lot	Ft. from N/S	Ft. from E/W	Ft. from E/W Latitude Longitu			County		
Dedic	ated Acres	Infill or Defi	ning Well	Defini	ng Well API	Overlapping Space	ing Unit (Y/N)	Consolida	ition Code			
Owler	Numbers.	1		L		341-M	1.0					
57461				-		Well setbacks ar	e under Com	mon Owners	inip: Li Yes Li	No		
	·				Kick (Off Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude.	County		
	<u> </u>			<u> </u>	First	Take Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	1	ongitude .	County		
			1						_	**************************************		
					Last 7	Take Point (LTP)				L		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
Unitize	d Area or A	rea of Uniform	Interest	Spacir	ng Unit Type 🗆 F	lorizontal 🗆 Vertical	Gro	und Floor El	evation:			
UDEB	ATOD CED	TIFICATIONS				Tauri mon acon						
					iplete to the best of	SURVEYOR CERT						
my know organiza nctuding ocation nterest,	fledge and belie tion either owns the proposed to pursuant to a co or to a voluntar	of, and, if the wall is a working intere cottom hole location contract with an ow	is a vertical or d st or unleased n on or has a right ner of a working	irectional v nineral inte t to drill this interest o	vell, that this rest in the land	I hereby certify that the w surveys made by me or o my bellef.	rell location show ander my supervis	n on this plat wa sion, and that th	is plotted from fiel e same is true an	d notes of actual of correct to the best of		
f this ws consent n each t	of at least one i ract (in the taru	I well, I further cer essee or owner o et pool or formatio r obtained a comp	(a working inter	est or unle part of the	ased mineral interest					22896 23/25		
Signatu	/	1	9/ Date	11/2	25	Signature and Seal of		nas g	BA	on S		
	1	7 (/			Signature and codi of	Taresouriai Su	- vayor	3/0	WAL 30		
rinted	Name	J. Sa.	nchez			22896 Certificate Number	11/12/20 Date of Su					
heck	or. San	cher @d	elek logi	stics.	Com							

Note: No allowable will be assigned to this completion until all interests have been consolicated or a non-standard unit has been approved by the division.

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3.4.3 Casing Program

Section	Туре	Tubular	OD (in)	ID (in)	Drift ID (in)	Start MD (ft)	End MD (ft)	TOC (ft)	Grade	Connection
30 Conductor	Conductor	30" Casing 118.65 lbm/ft X56 MIJ	30.000	29.250	29.062	32.50	152.50		X56	MIJ
28 in Surface Section	Surface Casing	24" Casing 186.41 lbm/ft X56 XLF	24.000	22.500	22.312	32.50	1640.00	32.50	X56	XLF
22 in Salt Section	Casing	18.625" Casing 115 lbm/ ft K55 BTC	18.625	17.437	17.250	32.50	1700.00	32.50	K55	втс
22 in Salt Section	Tapered	18.625" Casing 115 lbm/ ft J55 BTC	18,625	17.437	17.250	1700.00	3690.00	32.50	J55	втс
16.5 in Intermediate Section 1	Casing	13.375" Casing 68 lbm/ft L80 BTC	13.375	12.415	12.259	32.50	5870.00	32.50	L80	втс
12.25 in Intermediate Section 2	Casing	9.625" Casing 47 lbm/ft L80HC BTC	9.625	8,681	8.525	32.50	11680.00	32.50	L80	втс
8.5 in Protection Section	Production Casing	7in 32lb-ft VASS95 VA SUPERIOR	7.000	6.094	5.969	32.50	14570.00	32.50	VA SS95	VAsuperior
8.5 in Protection Section	Tapered	7in. 32lb-ft Nickel Alloy G3 110 Tenaris BLUE	7.000	6.094	5.969	14570.00	14870.00	32.50	G3-110	Blue
5.875 in Injection Section	Open Hole					14880,00	16400.00			

3 Well Information





3.4.4 Cement Program

Reference	Fluid Type	Description	Density (lbm/gal)	Yield (ft3/ sack)	Top of Fluid MD / TVD (ft)	Excess Volume (%)	Total Volume (bbl)	Dry Cement (sack)	Comments
Wellbore: Libby AGI #1 Hole: 28.000 in Surface Casing: 24.000 in MD/TVD: 1640.00 / 1640.00 ft Wellbore: Libby	Wash	Gelled Water	8.33		Returns		50.00		
	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	512.47	1589.68	
	Tail	Class C	14.80	1.33	1340.00 / 1340.00	100.00	142.95	603.45	
Wellbore: Libby AGI #1	Wash	Gelled Water	8.33		Returns		50.00		
Hole: 22.000 in Casing: 18.625 x 18.625 in	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	720.85	2236.06	
MD/TVD: 3690.00 / 3690.00 ft	Tail	Class C	14.80	1.33	3390.00 / 3390.00	100.00	92,63	391.04	
Wellbore: Libby AGI #1 1st Stage	Wash	MUDPUSH Express LCM	9.40		4679.50 / 4679.50		20.00		
Hole: 16.500 in Casing: 13.375 in	Lead	Class TXI	11.50	2.32	4900.00 / 4900.00	150.00	106.56	257.89	
MD/TVD: 5870.00 / 5870.00 ft	Tail	Class C	14.80	1.33	5370,00 / 5370.00	150.00	126.36	533.43	
Wellbore: Libby AGI #1 2nd Stage	Wash	MUDPUSH Express LCM	10.50		Returns		50.00		
Stage MD/TVD: 4900.00 / ft Hole: 16.500 in	Lead	Class TXI	11.50	2.32	32.50 / 32.50	150.00	610.84	1478.29	
Casing: 13.375 in MD/TVD: 5870.00 / 5870.00 ft	Tail	Class C	14.80	1.33	4400.02 / 4400.02	150.00	113.36	478.55	
Wellbore: Libby AGI #1	Wash	MUDPUSH Express LCM	11.80		7101.60 / 7101.60		28.92		
1st Stage Hole: 12,250 in Casing: 9.625 in	Lead	Class TXI	12.00	2.04	7620.00 / 7620.00	80.00	376.02	1034.90	
MD/TVD: 11680.00 / 11680.00 ft	Tail	Class C	14.80	1.33	11365.00 / 11365.00	80.00	37.98	160.34	
Wellbore: Libby AGI #1 2nd Stage	Wash	MUDPUSH Express LCM	11.80		Returns		40.00		
Stage MD/TVD: 7600.00 / ft Hole: 12,250 in	Lead	Class TXI	12.00	2.04	32.50 / 32.50	0.00	343.31	944.87	
Casing: 9.625 in MD/TVD: 11680.00 / 11680.00 ft	Tail	EverCRETE	15.90	1.08	5780.00 / 5780.00		181.22	942.08	
Wellbore: Libby AGI #1 1st Stage	Wash	MUDPUSH Express + PNET	11.50		8886.00 / 8886.00		75.35		
Hole: 8,500 in Production Casing: 7.000 x	Lead	Class TXI	12.50	1.56	11815.00 / 11815.00		108.09	389.04	

3 Well Information



7.000 in MD/TVD: 14870.00 / 14870.00 ft	Tail	EverCRETE	15.90	1.08	14208.00 / 14208.00	100.00	32.75	170.23	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 11585.00 / ft Hole: 8.500 in	Wash	MUDPUSH Express + PNET	11.50		Returns	0.00	40.00		
Production Casing: 7.000 x 7.000 in MD/TVD: 14870.00 / 14870.00 ft	Lead	Lead TXI	12.50	1.56	32.50 / 32.50	0.00	295.82	1064.68	

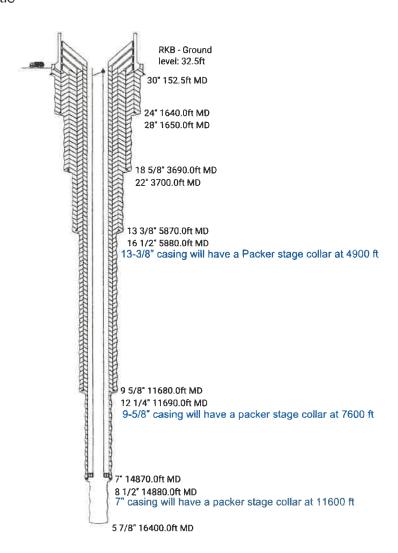
The 18-5/8" cement jobs are planned to be single-stage jobs. This job should consider a bottom plug to reduce contamination, as in these wells, it is essential that cement is shown to surface to fulfill the OCD requirements.

**For the 18-5/8" cement job, cement will be pumped until pure cement is returned to the surface. For the other sections, a caliper log will be taken, and the final excess will be on top of the caliper volume. Excess may be changed depending on the result of the caliper.

3 Well Information



3.4.1 Wellbore Schematic

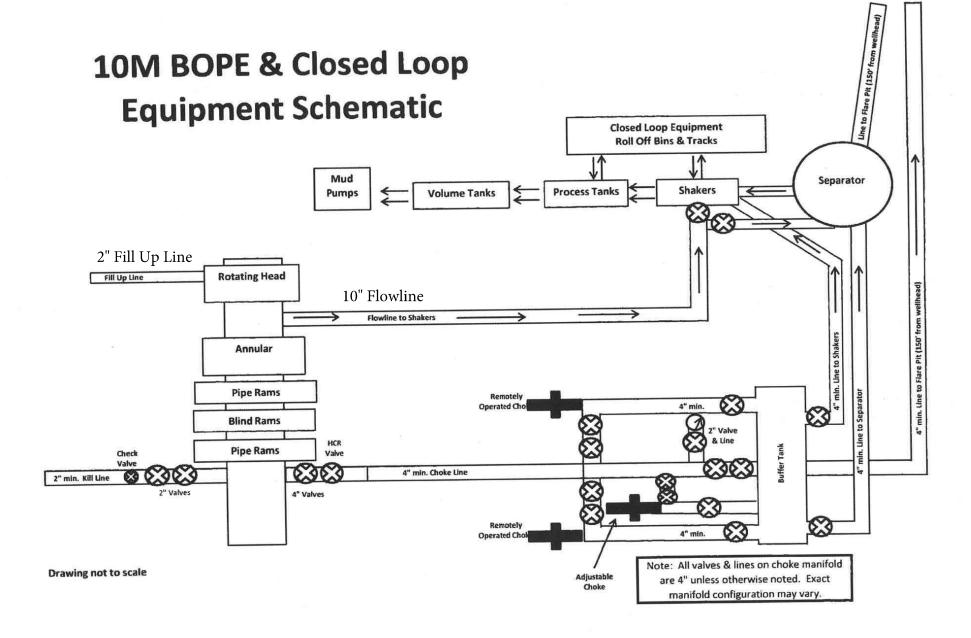


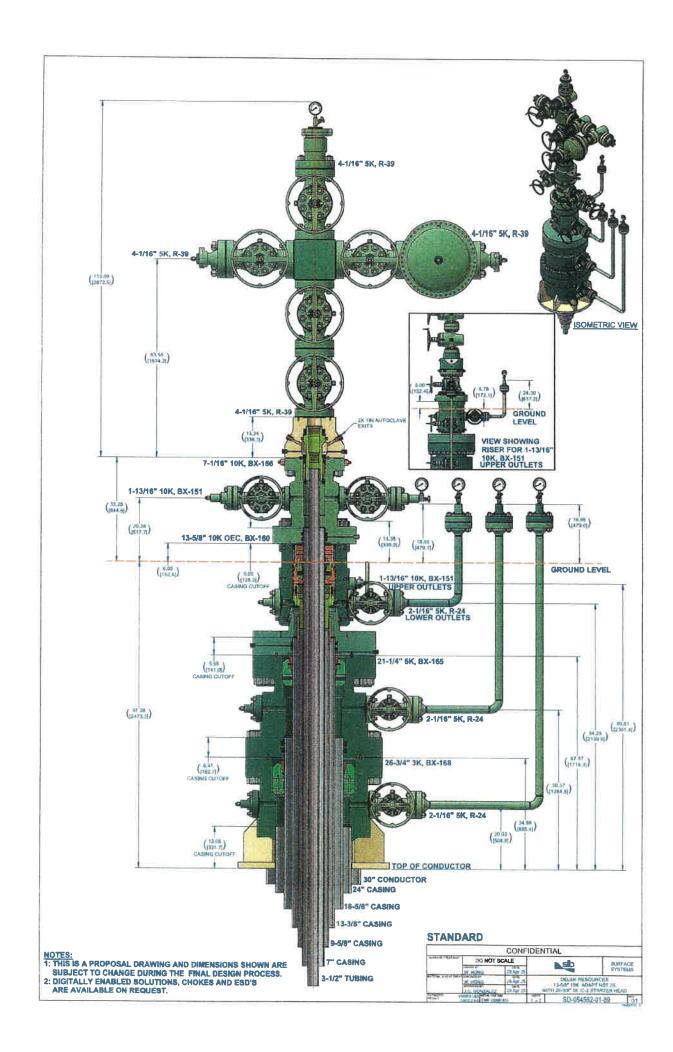
3 Well Information

DKL FIELD SERVICES LIBBY AGI #001 1588' FSL & 2061 FWL SEC 26 – T20S – R34E LEA COUNTY, NM

FORMATION TOPS GL 3719.4'

Rustler	1597
Top of Salt	1914
Base of Salt	3330
Yates	3667
7 Rivers	4005
Capitan Reef	5038
Top of DMG	5849
Brushy	7598
Bone Spring	8697
Wolfcamp	11,662
Morrow	13,286
Woodford	14,679
Devonian	14,848
Fussellman	15,964
Montoya	16,376









3.4.15 Wellhead & BOP Pressure Test

Initial high pressure test: The 21-1/4" 5K stack should be pre-tested on BOP pressure testing stump as per below testing schedule:

21-1/4" 3K BOP stack

1424N125-141	State State (1)	Police (488)	Land the second self-	Hardware A. D.
18-5/8"	21-1/4" Annular	5,000	300	3500
	21-1/4" Pipe Ram	5,000	300	5000
	21-1/4" Pipe Ram	5,000	300	5000

Subsequent high pressure test: BOPs shall be tested to the maximum anticipated surface pressure for the borehole sections that are to be drilled.

The interval between pressure tests shall not exceed 21 days unless local regulations mandate more frequent testing. The pressure test should be planned to minimize disruption to normal operations while ensuring compliance with the 21-day requirement.

21-314" 5K BOP stack

Using Special	Black Sign (m)	Pare Par	Low Presson (PSR)	Hat Put Lin [FS]
18-5/8°	21-1/4° Annular	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	Choke/Kill line	5,000	250	2200
	Choke manifold	5,000	250	2200
	CHIH outer valves	5,000	250	2200

*MASP with full replacement to 0.1 Psi/ft Gas while drilling next section where this BOP installed for equal to 2114 psi.

This pressure test will include stand pipe with rotary hose, pump discharge line, FOSV, gray valve and TDS IBOP

- Function test 21-1/4" annular with 5" drill pipe. Verify closing time <45 secs (API-16D).
- Pressure test BOP manual and HCR valves and kill line check valve.
- Pressure test choke manifold individual valves (from direction of anticipated flow) to 300 psi and 2200psi for 5/10 mins.
- Function the Hydraulic chokes and use the manual choke function (30 sec Max). Confirm all pressure gauges are calibrated and that stroke counter at remote choke panel is working.
- Walk the lines and verify correct rig-up as per P&ID and working diagrams. All TPW rig-ups to be secured with Fibre Rope Restraints (FRR).
- Once nipple up on well, function and pressure test choke hose, kill line and BOP connections to 300 psi and 2200 psi for 5/10 mins.

3.5 Intermediate Section 1 - 16" Wellbore - 13-3/8" Casing

· 通信 ·	(8) Sar	Contact City	Objects victio Same	Tiro and
Surface	16"	13-3/8*	 Provides zonal isolation for the Capitan Reef 	30 feet into the Cherry Formation

3 Sequence of Operations







3.4.7 Drilling Fluid Program

Drilling Fluid Interval Summary

	28,900 in HOLE, 24,000 in SURFACECASING, 1650,00 ft / 1650,00 ft
FLUID SYSTEM	Freshwater - Water Based
OPERATION	Surface stack activities - Misc without parameter
KEY PRODUCTS	DUO-VIS, M-I GEL, Lime, SODA ASH, WALNUT NUT PLUG MEDIUM, M-I PAC UL
POTENTIAL PROBLEMS	
SOLIDS CONTROL	
	INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Density Funnel Plastic Yield 5 RPM pH Brine Salinity API %6LGS MBT Depth (lbm/ Viscosity Viscosity Point Dial (wt%) € Salt Type Fluid (%6) (lbm/ (ft) gal) (6) (6P) (bb/100f(2) Spading

(#)	gal)	(6)	(cP)	(05/100f(2)	Reading		(include Galicity)	Loss (mL/30mm)	1.09	bbl)	as Calcium (mg/L)
152.50 1650.0	- 8.40 / 8.40 - 9.70	35.00 / 32.00 - 38.00	3.00 / 1.00 - 5.00	8.00 / 6.00 - 10.00	4.00 / 3.00 - 6.00	9.50 - 10.00	0.00 / 0.00 - 0.00 @ None	100.00	5.00 / 3.00 - 8.00	- 15.00	400.00

Interval Recommendations

- Drill out the conductor with Gel Mud.
- Sapp and Soap Sticks may be used down drill string every connection.
- Sweeps can be used for hole cleaning with one of the following every 400 ft:
 - Duo-Vis Sweep
 - Rapid Sweep Sticks (1 2 sticks at connections)
 - Pre-Hydrated Gel Sweep
- Maintain pH 9.5 10.0 with additions of LIME
- Walnut Fine / Medium to aid in eliminating bit balling.
- Important notes for Pre-Hydrated Bentonite using the following recipe: <u>DO NOT ADD LIME TO PREMIX RECIPE.</u>
 - Fresh Water to fill Pre-Mix
 - Ensure Chlorides are less than 5,000 mg/L, preferably as low as possible.
 - SODA ASH for <240mg/L Ca++ (Do not over treat with Soda Ash, Check Ca++)
 - M-I GEL 30-35 ppb (allow to hydrate before utilizing)
 - Duo-Vis may be used after GEL Hydration to add additional viscosity 0.75 1.5 ppb. Adding Duo-Vis slowly to hopper is critical for the proper application.
- Run all solids control equipment as much as possible.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.

3 Well Information





- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes,
- LCM can be added as needed if losses occur (3 4 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
- Safe-Carb 250
- Tiger Bullets
- Nut Plug F/M
- M-I-X II F

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to \geq 9.5 with lime (0.5 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger SAFE-SCAV HSW if necessary
- See the SAFE-SCAVE HSW Product Sheet for usage recommendations.

	22,000 in HOLE, 18,625 in CASING, 8700,00 ft / 8700,00 ft
FLUID SYSTEM	Freshwater - Water Based
OPERATION	Drilling run - Trip In
COMMENT	Fresh Water + Hi-Vis Sweeps for hole cleaning
KEY PRODUCTS	SODIUM CHLORIDE BRINE, DEFOAM-X, DUO-VIS, MY-LO-JEL, Lime, M-I WATE, M-I PAC UL
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/ gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (65/100ft2)	6 RPM Dial Reading	рΗ	Brine Salinity (wt%) ⊚ Salt Type	API Fluid Less (mL/30min)	%LGS (%)	MBT (lbm/ bbl)	Total Hardness as Calcium (rng/L)
1650,00 - 3700.00	10.00 / 10.00 - 10.00	28.00 / 28.00 - 32.00	2.00 / 1.00 - 5.00	4.00 / 2.00 - 8.00	1.00 / 1.00 - 1.00	9.50 - 10.00	0,00 / 0,00 - 0.00 @ None	0,00 - 100,00	5.00 / 3.00 - 6.00	- 20,00	0.00 - 1600.00

Interval Recommendations:

- The objective of this interval is to drill the 22" using saturated brine from 1,650' until interval TD, where the 18.625" Salt Section
 casing will be set.
- Drill out the 24" casing with Saturated Brine 10.0 ppg MW.
- Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
- Maintain pH 10 with additions of Lime.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.

3 Well Information







Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

- Pump Hi-Vis Sweeps with Duo-Vis / My-Lo-Jel for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3.0 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
- Safe-Carb 250
- Tiger Bullets

Nut Plug F/M

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2

- Increase pH to \geq 9.5 with lime (0.5 ~ 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger SAFE-SCAV HSW if necessary
- See the SAFE-SCAVE HSW Product Sheet for usage recommendations.

	16,500 in HOLE, 13,375 in CASING, 5880,00 ft / 5880,00 ft
FLUID SYSTEM	Cut Brine - Water Based
OPERATION	Drilling run - Trip In
COMMENT	NaCL cut brine
KEY PRODUCTS	DEFOAM-X, DUO-VIS, POLY-PLUS, MY-LO-JEL, Lime, M-I WATE, SODA ASH
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/ gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (bf/100ft2)	6 RPM Dial Reading	Hq	Brine Salinity (wt%) © Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mU30min)	%LGS (%)	MBT (lbm/ bbl)	Total Hardness as Calcium (mg/L)
3700.00 - 5880.00	10.00 / - 10.00	28.00 / 28.00 - 32.00	1.00 / 1.00 - 5.00	2.00 / 2.00 - 8.00	3.00 / 3.00 - 5.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium Chloride)	78014	0.00 - 100.00	3.00 / 1.00 - 6.00		600.00 - 1600.00

nterval Recommendations:

- The objective of this interval is to drill the 16.5" using saturated brine from 3,700' until interval TD, where the 13.375" intermediate # 1 casing will be set.
- Drill out the 18.625" casing with Saturated Brine 10.0 ppg MW.
- Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
- Maintain pH 10 with additions of Lime.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the

3 Well Information







kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.

- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

- Pump HI-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3.0 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
- Nut Plug F/M

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to \geq 9.5 with lime (0.5 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger SAFE-SCAV HSW if necessary
- See the SAFE-SCAVE HSW Product Sheet for usage recommendations.

	12,250 in HOLE, 9,625 in CASING, 11690,00 ft / 11690,00 ft
FLUID SYSTEM	Cut Brine - Water Based
OPERATION	Drilling run - Trip In
COMMENT	NaCL Cut Brine
KEY PRODUCTS	DEFOAM-X, DUO-VIS, POLY-PLUS, Lime, SODA ASH, M-I WATE
POTENTIAL PROBLEMS	
SOLIDS CONTROL	
	INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbng gai)	Fundel Viscosity (s)	Plastic Viscosity (cP)	Yi∈ld Point (lei/100/12)	6 RPM Diai Reading	ρΗ	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/ bbl)	Total Hardi tils Calci img/l
5880.00 - 11690.00		28.00 / 28.00 - 35.00	1.00 / 1.00 - 8.00	2.00 / 2.00 - 15.00	3.00 / 2.00 - 6.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium	78014	0.00 - 100.00	3.00 / 2.00 - 6.00		

Chloride)

Interval Recommendations:

Received by OCD: 9/17/2025 11:09:11 AM

• The objective of this interval is to drill the 12.25" using Saturated brine from 5,880' until interval TD, where the 9.625" Intermediate # 2 casing will be set.

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- Drill out the 13.375" casing with saturated brine, 10.0 ppg MW.
- Run all solids control equipment as much as possible.
- Maintain pH 10 with additions of Lime.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and
 create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- Increase mud weight up to 11.5 ppg progressively to control formation pressure. Use Duo-VIS to adjust viscosity before adding barite.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
 Hole Cleaning & LCM Sweeps:
- Pump Hi-Vis Sweeps with Duo-Vis / My-Lo-Jel for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3 4 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior
 to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M
- M-I-X II F

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger SAFE-SCAV HSW if necessary
- See the SAFE-SCAVE HSW Product Sheet for usage recommendations.

			3 500 in H(DLE 7,000	in PRODI	UCTIONCASING: 14880.00 ft7	14880.00		· Hit				
FLUID SY	YSTEM	MEGADRIL OBM - Oil Based											
OPERATION		Drilling run - Trip In											
KEY PRODUCTS		Calcium (Calcium Chloride, CLEAN UP, MUL P, MUL S, Lime, M-I WATE, VERSATROL HT, VERSAMOD, VG-PLUS										
POTENTIAL PROBLEMS													
SOLIDS CONTROL													
			INT	ERVAL DR	ILLING FL	UID PROPERTIES (Rec / Min - M	/lax)						
Measured Depth (ft)	Density (lbm/ gal)	Plastic Viscosity (cP)	Yield Point (lbf/100ft2)	6 RPM Dial Reading	Excess Lime (lbm/ bbl)	Brine Salinity (wt%) € Salt Type	Electrical Stability (V)	OWR (%)	HTHP Fluid Loss Int 20min	%LGS (%)			

3 Well Information







11690.00 - 14880.00		12.00 / 10.00 - 20.00					650.00 - 1000.00		3.00 - 8.00	3.00 / 2.00 - 8.00
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InInterval Recommendations

- The objective of this interval is to drill the well from 11,690' to 14,880' with MEGADRIL OBM system where the 7" production casing will be set.
- After dumping WBM from the previous interval and cleaning pits displace to Megadril OBM, Have all OBM on location and weighted
 as per customer prior to displacement ~ 11.5 ppg. Same mud weight should be maintained till TD. We will check with Management
 and MPD teams if we need to adjust the Mud Weight up to 13.0 ppg before rigging down MPD equipment. Offset well have been
 analyzed with a final MW of 12.5 ppg with no kicking events.
- Run both centrifuges during drilling operations to remove drill solids.
- Stay on top of bulk barite consumption and orders through TD.
- No barite recovery will be run. Slow and steady strip on active fluid during circulation. Maintain proper PPG in active the additions of bulk barite,
- Maintain the following mud properties throughout the interval:
 - Oil/Water ratio at 70/30 80/20 with diesel and water
- Salt concentration at 20-25% by weight with CALCIUM CHLORIDE.
- Electrical stability at >650 volts (as long as no water appears in the filtrate) with additions of MUL P and MUL S @ 2.5 to 1 ratio
- HTHP fluid loss at <10 ml/30min @ 250°F with VERSATROL M
- Yield point at 10-18 lb/100ft² with VG-Plus
- 6 rpm readings in the 6 10 range with VERSAMOD
- Maintain Excess Lime 2 3 ppb with Lime. Additional Excess Lime should be maintained while experiencing high gas units

After reaching total depth (TD) and prior to pulling out of the hole (POOH), mix and spot a Csg-go Pill to enhance lubricity during the casing run. Incorporate 10 ppb of ALPINE DRILL BEADS into the mixture. The volume of the pill will be determined in coordination with the Company Man based on the required length.

5,875 in HOLE, OPENHOLE, 16400,00 ft / 16400,60 ft							
FLUID SYSTEM	Dispersed WBM - Water Based						
OPERATION	Drilling run - Trip In						
KEY PRODUCTS	M-I PAC UL, DUO-VIS, SAFE-CARB 250, SAFE-CARB 20						
POTENTIAL PROBLEMS							
SOLIDS CONTROL							

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/ gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (bl/100f(2)	6 RPM Dial Reading	рН	Brine Salinity (wt%) © Salt Type	Total Calorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/ bbl)	Total Hardness as Calcium (mg/U)
14880.00 - 16400.00	10.00 / - 10.00	45.00 / 35.00 - 50.00	5.00 / 5.00 - 10.00	12.00 / 10.00 - 15.00	6.00 / 4.00 - 6.00	9.00 - 10.00	0.00 / 0.00 - 0.00 @ KCI (Potassium Chloride)		- 8.00	2.00 / 2.00 - 4.00	- 5.00	- 1000.00

Interval Recommendations:

- The objective of this interval is to drill the 5.875" using Clear Brine to interval TD.
- Perform displacement prior to Csg Shoe depth to Clear Brine.
- Drill out the 7" casing with Clear Brine, 10.0 ppg MW.
- Maintain pH 10 with additions of CAUSTIC SODA.

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- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
 Hole Cleaning & LCM Sweeps:
- Pump HI-Vis Sweeps with Duo-Vis for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3 5 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations.
- Safe-Carb 250
- Safe-Carb 40
- Safe-Carb 20

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H29

- Increase pH to ≥ 9.5 with lime (0.5 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger SAFE-SCAV HSW if necessary
- See the SAFE-SCAVE HSW Product Sheet for usage recommendations.

3 Well Information

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3.4.6 Formation Tests

Raterence	Test Typo	Test Equivalent Mud (Veight (Birn/gal)	Fluid Density (firm/gui)	Surface Fest Pressure (psi)	Fracture Pressure (EMW) (ban/ gel)	Comments
22 in Sall Section Previous Casing Shoe MD/TVD: 1640.00 ft / 1640.00 ft Test Depth MD/TVD: 1660.00 ft / 1660.00 ft	FIT	14.50	10.00	383.38	14.81	Refer to the Formation Test Check and SOP List in the link below MVC-MVC-CL-001 After - Review Formation Pressure Test Readiness CL.
16.5 in Intermediate Section 1 Previous Casing Shoe MD/TVD: 3690.00 ft / 3690.00 ft Test Depth MD/TVD: 3710.00 ft / 3710.00 ft	ĦΪ	13.00	9 20	728.42	13 28	NVC-WC-SQP-003 Formation Integrity and Leak Off Tests SQP
12.25 in Intermediate Section 2 Previous Casing Shoe MD/TVD: 5870.00 ft / 5870.00 ft Test Depth MD/TVD: 5890.00 ft / 5890.00 ft	FIT	12.30	9.50	853.82	11.36	
8.5 in Protection Section Prevous Casing Shoe MD/TVD: 11680.00 ft / 11680.00 ft Test Depth MD/TVD: 11700.00 ft / 11700.00 ft	FTT	14.40	9.50	2973.09	14.61	
5.875 in Injection Section Previous Casing Shoe MD/TVD: 14870.00 ft / 14870.00 ft Test Depth MD/TVD: 14890.00 ft / 14890.00 ft	FIT	11.50	9 00	1931.17	14.71	

3 Well Information





State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

1. OCD Conditions of Approval Referenced in Commission Order R-20694

The following conditions are detailed in Findings Paragraph 28:

- a. Conduct a step-rate test and fall-off test on the completed well before commencing injection. The maximum injection pressure for the proposed well may be appropriately adjusted after a step-rate test with the approval of the Division Director.
- b. Include a biocide and corrosion inhibited diesel in the annular fluid of the wells.
- c. Incorporate temperature-activated controls to govern the temperatures of injected fluid within parameters set by the operator and provide an alarm system for those controls should the parameters be exceeded.
- d. Equip the well with a pressure-limiting device as well as a one-way safety valve (with the proper interior drift diameter) on the tubing approximately 250 feet below the surface.
- e. All well drilling logs (including mudlogs, electric logs and daily logs) and the static bottom-hole pressure measured at completion of drilling the well shall be submitted to the Division using the appropriate OCD form in E-permitting.
- f. All casing should have cement circulated to the surface, with an additional casing string through the Salado formation at an estimated depth of 2,100 feet to 3,350 feet from the surface.
- g. Well construction should be designed for exposure to corrosive environment including, but not limited to, casing, casing cement, and the packer in proximity of injection interval.
- h. The final reservoir evaluation should confirm that the open-hole portion of the AGI well does not intersect the fault plane of any identified fault especially for those wells having the Devonian and Silurian sections for disposal intervals.

2. OCD Additional Conditions of Approval Standard to UIC Permits

- a. Operator shall complete a cement bond log ("CBL") for the casing isolating the Salado Formation prior to drilling the next casing interval and submit to the Division prior to commencing injection.
- b. If cement does not circulate on any casing string, operator shall run a CBL to determine the top of cement, then notify the OCD Engineering Bureau and the appropriate OCD Inspection Supervisor and submit the CBL prior to continuing with any further cementing on the Well. If the cement did not tie back into next higher casing shoe, Permittee shall perform remedial cement action to bring the cement to a minimum of two hundred (200) feet above the next higher casing shoe.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 506681

CONDITIONS

Operator:	OGRID:
DKL Field Services, LLC	372603
310 Seven Springs Way	Action Number:
Brentwood, TN 37027	506681
	Action Type:
	[C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
ward.rik	la None	9/17/2025