ecejyed by OCP; 2/29/2023 3:11:20	State of New Mexico	Form C-103 of 1
Office District I – (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283		WELL API NO. 30-039-23265
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
<u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMSF078771
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI	ICES AND REPORTS ON WELLS OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name  ROSA UNIT
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well 🛛 Other	8. Well Number <b>098</b>
2. Name of Operator	das well Z Other	9. OGRID Number <b>289408</b>
LOGOS OPERATING LLC		31 6 61412 1 WARE 17 203 100
3. Address of Operator <b>2010 AFTON PLACE, FARMIN</b>	IGTON, NM 87401	10. Pool name or Wildcat  MANCOS/DAKOTA
4. Well Location		
Unit LetterL_:_	1840feet from the _S line and790	_feet from theWline
Section 23 Township	31N Range 6W NMPM	NWSW County RIO ARRIBA
	11. Elevation (Show whether DR, RKB, RT, GR, e	etc.)
	GL: 6267	
12. Check	Appropriate Box to Indicate Nature of Notic	ee. Report or Other Data
		•
		JBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WO	<del>_</del>
TEMPORARILY ABANDON   DULL OR ALTER CASING		DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEMI	ENT JOB 📙
DOWNHOLE COMMINGLE  CLOSED-LOOP SYSTEM		
	ORE ISOLATION 🛛 OTHER:	П
	pleted operations. (Clearly state all pertinent details,	and give pertinent dates, including estimated date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NMAC. For Multiple	Completions: Attach wellbore diagram of
proposed completion or re-		
LOCOS magnesta to combinat a vivalil	sous isolation for subject well. Dogs Hait 000 is at mis	ly form a postportuguith of failure from the manufus Dad
	ore isolation for subject well. Rosa Unit 098 is at rise wellbore integrity and protect the remaining reserve	
wellbore. See attached procedure.	e wemoore integrity and protect the remaining reserve	es of the well, it is recommended to isolate the
wendore, see attached procedure.		
Logos is approved to	isolate the well bore, but shall submit a	nother NOI prior to removing the BP
20900 10 approvou 10	rectate the went sere, but chair easinic a	nearer rear prior to removing the Br
Spud Date:	Rig Release Date:	
	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Lhereby certify that the information	above is true and complete to the best of my knowle	edge and belief
Thereby certary that the intermation	the over 10 that and complete to the cest of my michael	ouge and coner.
7	S/ 11	
SIGNATURE Vacye	Shull TITLE Regulatory Tec	<u>hnician</u> DATE <u>09/29/2023</u>
•	ıll E-mail address:dshull@logosresourcesllc.	
		<del>_</del>
For State Use Only		
APPROVED BY: Dean 19	. Millure TITLE Petroleum Engine	eer <sub>DATE</sub> 09/29/2023
Conditions of Approval (if any):	IIIDD_: 54.5.55IIIG	DATE

Form 3160-5

# UNITED STATES

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

(June 2019)	DEP	PARTMENT OF THE INTI	ERIOR				s: October 31, 2021
	BURI	EAU OF LAND MANAGI	EMENT		5. Lease Seria	al No.	SF078771
	not use this f	IOTICES AND REPORT form for proposals to d Use Form 3160-3 (APD)	rill or to re-	enter an		Allottee or T	ribe Name
	SUBMIT IN T	TRIPLICATE - Other instruction	ns on page 2		7. If Unit of C	CA/Agreem	ent, Name and/or No.
1. Type of Well			7 0				NITDK/NMNM78407B, NMNM78
Oil W	Vell 🔽 Gas W	Vell Other			8. Well Name	and No. Ro	OSA UNIT/98
2. Name of Operator	LOGOS OPERA	ATING LLC			9. API Well N	lo. 300392	3265
		FARMINGTON, NM 87401 3b. 1	Phone No. (incli	ıde area code	2) 10. Field and	Pool or Exp	oloratory Area
4 1 4 6337 11	ZE A G TE		5) 278-8720		BLANCO/E		
4. Location of Well ( SEC 23/T31N/R6	_	R.,M., or Survey Description)			11. Country of RIO ARRII		ate
	12. CHE	CK THE APPROPRIATE BOX(E	ES) TO INDICA	TE NATURE	E OF NOTICE, REPORT	OR OTHE	R DATA
TYPE OF SU	BMISSION			TY	PE OF ACTION		
Notice of Inte		Acidize	Deepen		Production (Start/R	lesume)	Water Shut-Off
Notice of file	ent	Alter Casing	Hydraulic	Fracturing	Reclamation		Well Integrity
Subsequent R	enort	Casing Repair	New Cons	truction	Recomplete		<b>V</b> Other
Subsequent R	eport	Change Plans	Plug and A	bandon	Temporarily Aband	lon	
Final Abando	nment Notice	Convert to Injection	Plug Back		Water Disposal	Well	bore Isolation
is ready for final LOGOS Oper complete, LO	inspection.) rating requests to	true and correct. Name (Printed)	or subject well	due to near	by PAD 29 completions	s. Once off	
DACYE SHULL / I	0 0	`	Title		TORY TECH		
Signature (Elec	ctronic Submissic	on) Dacye Shull	Date	2		09/27/2023	3
		THE SPACE FO	R FEDERA	L OR ST	ATE OFICE USE		
Approved by	<u> </u>						
KENNETH G REN	NNICK / Ph: (505	) 564-7742 / Approved		Title Petro	oleum Engineer	Dat	09/27/2023 e
certify that the applic	ant holds legal or e	hed. Approval of this notice does equitable title to those rights in the iduct operations thereon.		Office FA	RMINGTON		
Title 18 U.S.C Sectio	on 1001 and Title 43	3 U.S.C Section 1212, make it a c	rime for any per	son knowing	ly and willfully to make	to any depa	rtment or agency of the United States

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### **SPECIFIC INSTRUCTIONS**

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

# **Additional Information**

# **Location of Well**

0. SHL: NWSW / 1840 FSL / 790 FWL / TWSP: 31N / RANGE: 6W / SECTION: 23 / LAT: 36.88268 / LONG: -107.43803 ( TVD: 0 feet, MD: 0 feet ) BHL: NWSW / 1840 FSL / 790 FWL / TWSP: 31N / SECTION: / LAT: 36.88268 / LONG: 107.43803 ( TVD: 0 feet, MD: 0 feet )



# **DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2023)**

Rosa Unit 98 30-039-23265 1840' FSL & 790' FWL Section 23, T31N, R06W Rio Arriba, New Mexico LAT: 36.8829536° N LONG: -107.4384918° W Mancos/Dakota

#### **PROJECT OBJECTIVE:**

Remove packer and set a bridge plug above the Mancos perforations and load the hole to protect the wellbore during offset completions. Once offset completions are complete, mill the bridge plug and downhole commingle Mancos and Dakota.

#### **WORKOVER PROCEDURE:**

- 1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulations.
- 2. Lay flow lines. Check and record casing and tubing pressures. Sell pressure down to line. Kill well if necessary.
- 3. Nipple down wellhead and nipple up BOP.
- 4. Pull tubing and packer out of hole and lay tubing down.
- 5. Set bridge plug within 50' of the Mancos perforations and load the hole with KCL water. SI well for offset completions.
- 6. Once offset completions are complete, trip in hole and mill the bridge plug.
- 7. Run in hole with single 2-3/8" production tubing string.
- 8. Return to production as a Mancos/Dakota commingle.

## PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production is not an applicable allocation method in this case; therefore, production rates were used to determine production allocation.

Total Gas Production Rate 117 Mcfd MC Gas Production Rate 17 Mcfd DK Gas Production Rate 100 Mcfd

MC allocation = MC rate/total rate = 17/117 = **15%**DK allocation = DK rate/total rate = 100/117 = **85%** 

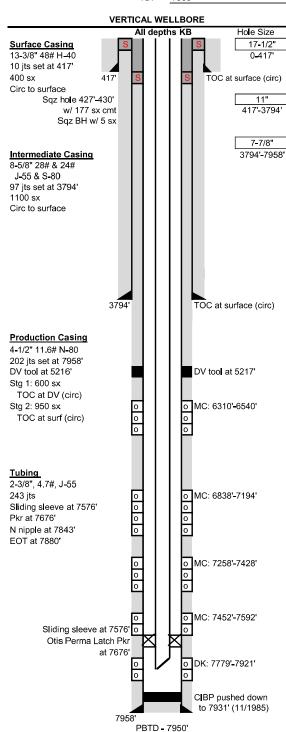


#### **Wellbore Schematic**

Additional Notes:

			***
Well Name:	Rosa Unit 098		
Location:	L-23-31N-06W 184	0' FSL & 790' FWL	_
County:	Rio Arriba, NM		_
API#:	30-039-23265		
Co-ordinates:	Lat 36.8829536, Long	-107.4384918 NAD1983	
Elevations:	GROUND:	6267'	
	KB:	6279'	
Depths (KB):	PBTD:	7950'	_
	TD:	7958'	_

Date Prepared:	7/10/2023 Moss
Reviewed By:	7/11/2023 Peace
Last Updated:	
Spud Date:	9/13/1983
Completion Date:	12/21/1983
Last Workover Date:	11/15/1985



Surface Casing: (9/14/1983)		
Drilled a 17-1/2" surface hole to 417'. S	Set 10 its 13-3/8", 48#, H-40 csg at 417	7'.
	, 15.6 ppg). Circ 20 bbls cmt to surface	
	,	
Intermediate Casing: (10/5/1983)		
Drilled an 11" intermediate hole to 379	4' Set 97 its 8-5/8" csg at 3794'. (15 j	ts 28# J-55,
70 jts 24# J-55, 12 jts 28# S-80). Cm	nt'd w/ 300 sx Class B 65/35 poz w/ 6%	gel (12.2 ppg).
Tailed w/ 600 sx Class B 50/50 poz w	// 6% gel (13.3 ppg) & 200 sx Class B	cmt (15.6 ppg).
Circ 40 bbls to surface.		
Production Casing: (10/25/1983)		
Drilled a 7-7/8" production hole to 7958	3'. Set 202 jts 4-1/2", 11.6#, N-80 csg a	at 7958'.
	Class B 50/50 poz cmt (13.3 ppg) follo	
	Circ 20 bbls. Cmt'd Stg 2 w/ 850 sx Cla	
	x Class B neat (15.6 ppg) cmt. Circ 20	
11/1985: Identified csg hole from 427'-		
Hesitation sqz w/ another 57 sx (67ft)	. BH wouldn't hold pressure so sqz'd w	// 5 sx (5.9 ft3) cmt
Tubing: (11/1985)	Length (ft)	
KB	12	
(234) 2-3/8" 4.7# J-55 8rd tbg jts	7564	
(1) Sliding Sleeve - X profile at 7576'	3	
(3) 2-3/8" 4.7#, J-55 8rd tbg jts	97	
(1) Otis Perma Latch Packer at 7676'	6	
(5) 2-3/8" 4.7#, J-55 8rd tbg jts (1) 1.79" N Nipple at 7843'	162 1	
(1) 2-3/8" 4.7#, J-55 8rd tbg jt	32	
(1) MS collar w/ exp check		
(1) WO COIRE W/ EXP CHECK	Set at: 7880 ft	
Artificial Lift:	7000 K	1
NA		
Perforations: (12/1983)		
<b>DK:</b> (7779'-7921): 2 SPF, 80, 0.38" ho	les 7779'-7797' 7827'-7838' 7868'-78	
Frac w/ 205,000# 20/40 sand in 95,00		772, a 1014-1021.
MC: (7452'-7592'): 1 SPF, 140, 0.38" H		
1st frac: H2O frac w/ 50,000 gal 30# :		
	,340 gal 30# gel. Screened out at 620	nsi .
MC: (7258'-7428') 1 SP2F, 86, 0.38" h		о роп
Frac w/ 65,000# 20/40 sand in 95,000		
MC: (6838'-7194') 1 SP2F, 108, 0.39"		-6910', 6912'-6934'
	', 7010'-7026', 7028'-7050', 7052'-7074	
	, 7124'-7146', 7148'-7170, & 7172'-719	
Frac w/ 150,000# 20-40 sand in 165,0		· · ·
MC: (6310'-6540') 1 SP2F,105 , 0.39"		-6372'
	', 6446'-6468', 6470'-6492', 6494'-6516	
Frac w/ 64,000# 20/40 sand in 89,572		7, 00 10 -0040
1 140 W/ 04,000# 20/40 Saliu III 09,372	z gai oon x-iiik gei.	
Formations: MD		1
Pictured Cliffs 3100'	Greenhorn	7592'
Mesaverde 5277'	Dakota	7823'
Gallup 6310'	Danota	1020
<u> </u>		

12/1983 Initial completion. Perf'd & stim'd MC & DK. CO to PBTD 7950'. Set pkr at 7691'

11/1985 Csg Repair. Couldn't release packer at 7691'. Chem cut tbg at 6566'. Jarred pkr free

w/ 62k # & pull fish consisting of tbg, sliding sleeve, & pkr. Set BP at 6184' & isolated csg holes between 427'-430'. Sqz w/ 177 sx cmt. DO cmt & PT csg to 1050 psig, held. PT BH to 550 psig, pressured up immeditely. Sqz'd BH w/ 5 sx cmt. PT csg again to 2200#, held. PT BH to 400#, held. DO BP & pushed down to 7931'. Ran 2-3/8" tbg w/ pkr & sliding sleeve. EOT at 7880'.

& sliding sleeve at 7590'-7593'. Single 2-3/8" tbg string landed at 7929'.

TD - 7958'



#### **Proposed Wellbore**

Well Name:	Rosa Unit 098	
Location:	L-23-31N-06W 184	0' FSL & 790' FWL
County:	Rio Arriba, NM	
API#:	30-039-23265	
Co-ordinates:	Lat 36.8829536, Long	-107.4384918 NAD1983
Elevations:	GROUND:	6267'
	KB:	6279'
Depths (KB):	PBTD:	7950'
	TD:	7958'

 Date Prepared:
 7/10/2023 Moss

 Reviewed By:
 7/11/2023 Peace

 Last Updated:
 7/18/2023 Peace

 Spud Date:
 9/13/1983

 Completion Date:
 12/21/1983

 Last Workover Date:
 9/7/2023

**VERTICAL WELLBORE** Hole Size All depths KB Surface Casing 17-1/2" 13-3/8" 48# H-40 0-417 10 jts set at 417' 400 sx 417' TOC at surface (circ) Circ to surface Sqz hole 427'-430' 11" 417'-3794' w/ 177 sx cmt Sqz BH w/ 5 sx 7-7/8" Intermediate Casing 8-5/8" 28# & 24# 3794'-7958' J-55 & S-80 97 jts set at 3794' 1100 sx Circ to surface 3794' TOC at surface (circ) **Production Casing** 4-1/2" 11.6# N-80 DV tool at 5217' 202 jts set at 7958' DV tool at 5216' Stg 1: 600 sx CBP @ 6260' TOC at DV (circ) o MC: 6310'-6540' Stg 2: 950 sx 0 0 TOC at surf (circ) 0 <u>Tubing</u> 2-3/8", 4.7#, J-55 o MC: 6838'-7194' 189 jts 0 0 0 S nipple at 6194' 0 EOT at 6236' 0 0 0 o MC: 7258'-7428' 0 0 o MC: 7452'-7592' o 0 o DK: 7779'-7921' CIBP pushed down to 7931' (11/1985) 7958 PBTD - 7950'

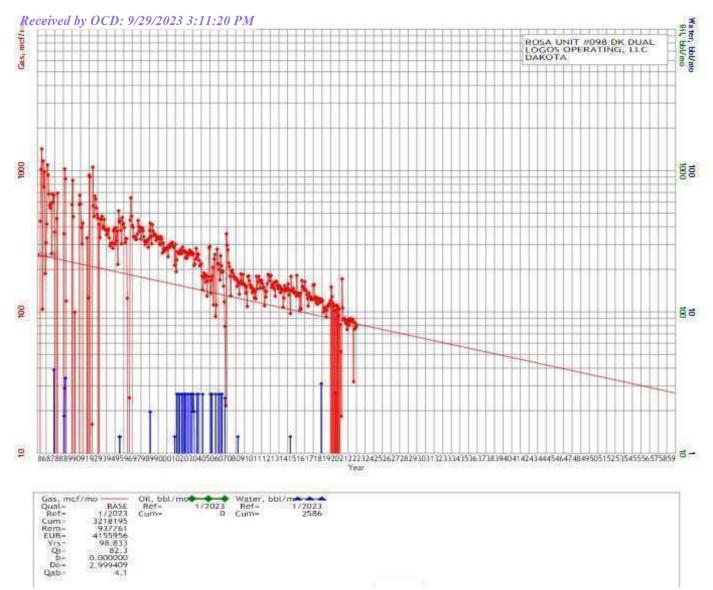
TD - 7958'

Drilled a 17-1/2" s	(9/14/1983) urface hole to 417'.	Set 10 jts 13-3/8", 48#, H-40 csg at	417'.
		3, 15.6 ppg). Circ 20 bbls cmt to sur	
	<u> </u>		
ntermediate Cas			
Orilled an 11" inter	mediate hole to 379	94'. Set 97 jts 8-5/8" csg at 3794'. (	15 jts 28# J-55,
		mt'd w/ 300 sx Class B 65/35 poz w	
Circ 40 bbls to su		w/ 6% gel (13.3 ppg) & 200 sx C <b>l</b> as	s B cmt (15.6 ppg).
Circ 40 bbis to st	mace.		
Production Casin	ng: (10/25/1983)		
Orilled a 7-7/8" pro	duction hole to 795	58'. Set 202 jts 4-1/2", 11.6#, N-80 o	sg at 7958'.
		x Class B 50/50 poz cmt (13.3 ppg)	
		Circ 20 bbls. Cmt'd Stg 2 w/ 850 sx	
		sx Class B neat (15.6 ppg) cmt. Circ	
		'-430'. Sqz'd w/ 120 sx (140 ft3) Cla	
Hesitation sqz w/	another 57 sx (67ft	t). BH wouldn't hold pressure so sqz	z'd w/ 5 sx (5.9 ft3) cm
Гubing:		Length (ft)	
(B		12	
189) 2-3/8" 4.7# .	J-55 8rd tba its	6192	
1) S Nipple at 619		1	
	1/2 MS w/ exp chec	ck 31	
		0.1.1	0
N 4151 - 1 - 1 1 154 -		Set at: 6236	π
Artificial Lift:			
NA .			
D	(4000)		
		alaa 7770! 7707! 7027! 7020! 706	01 70701 9 70441 7004
DK: (7779'-7921):	2 SPF, 80, 0.38" ho	oles. 7779'-7797', 7827'-7838', 7868	3'-7872', & 7914'-792 <i>'</i>
<b>DK: (7779'-7921):</b> Frac w/ 205,000#	2 SPF, 80, 0.38" ho 20/40 sand in 95,0	000 gal 50# x-link gel	
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592')	2 SPF, 80, 0.38" ho \$ 20/40 sand in 95,0 : 1 SPF, 140, 0.38"	000 gal 50# x-link gel holes. Frac'd this zone multiple tim	
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac	2 SPF, 80, 0.38" ho # 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30#	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel.	es.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680#	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 26	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at	es.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428')	2 SPF, 80, 0.38" hc \$ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# \$ of 20/40 sand in 26 1 SP2F, 86, 0.38" h	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes.	es.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000#	2 SPF, 80, 0.38" hot 20/40 sand in 95,0 : 1 SPF, 140, 0.38" ow / 50,000 gal 30# # of 20/40 sand in 26 1 SP2F, 86, 0.38" h 20/40 sand in 95,00	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 00 gal 50# x-link gel.	es. 6200 psi.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194')	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 26 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39"	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6886', 68	es. 6200 psi. 388'-6910', 6912'-693
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w 50,000 gal 30# ‡ of 20/40 sand in 26 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0'-6982', 6983'-7003	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 11 holes. 6838'-6862', 6864'-6886', 6i 13', 7010'-7026', 7028'-7050', 7052'-7	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696! 0.29" holes. 7076	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 26 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0'-6982', 6983'-7003 6'-7098', 7100'-7122	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 11 holes. 6838'-6862', 6864'-6886', 68 13, 7010'-7026', 7028'-7050', 7052'-7 12', 7124'-7146', 7148'-7170, & 7172'	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55
DK: (7779'-7921): Frac w/ 205,0004' MC: (7452'-7592') Hst frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 6966 0,29" holes, 7076 Frac w/ 150,000#	2 SPF, 80, 0.38" hot 20/40 sand in 95,0 : 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0-6982', 6983'-7093', 7100'-7122 f 20-40 sand in 165,	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 00 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6886', 68 3', 7010'-7026', 7028'-7050', 7052'-7 1', 7124'-7146', 7148'-7170, & 7172' 1,000 gal 50# x-link gel.	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') Ist frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 6966 0.29" holes. 7076 Frac w/ 150,000# MC: (6310'-6540')	2 SPF, 80, 0.38" hot 20/40 sand in 95,0: 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 50/40 sand in 95,00: 1 SP2F, 86, 0.38" high 20/40 sand in 95,00: 1 SP2F, 108, 0.39" 0'-6982', 6983'-7003'5'-7098', 7100'-7122 figure 20-40 sand in 165, 1 SP2F, 105, 0.39"	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 00 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6866', 63 3', 7010'-7026', 7028'-7050', 7052'-7', 7124'-7146', 7148'-7170, & 7172', 000 gal 50# x-link gel. 1 holes. 6310'-6324', 6326'-6348', 63	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372',
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696f 0.29" holes, 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6396	2 SPF, 80, 0.38" hc ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 95,00 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0-6982', 6983'-7003 5'-7098', 7100'-7122 ‡ 20-40 sand in 165, 1 SP2F,105, 0.39" 8'-6416', 6420'-6444	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 20 gal 50# x-link gel. 10 holes. 6838'-6862', 6864'-6886', 6 3', 7010'-7026', 7028'-7050', 7052'-7 2', 7124'-7146', 7148'-7170, & 7172' 2,000 gal 50# x-link gel. 1' holes. 6310'-6324', 6326'-6348', 6 4', 6446'-6468', 6470'-6492', 6494'-6	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372',
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696f 0.29" holes, 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6396	2 SPF, 80, 0.38" hc ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 95,00 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0-6982', 6983'-7003 5'-7098', 7100'-7122 ‡ 20-40 sand in 165, 1 SP2F,105, 0.39" 8'-6416', 6420'-6444	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 00 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6866', 63 3', 7010'-7026', 7028'-7050', 7052'-7', 7124'-7146', 7148'-7170, & 7172', 000 gal 50# x-link gel. 1 holes. 6310'-6324', 6326'-6348', 63	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372',
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696 0.29' holes. 7076' Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 639! Frac w/ 64,000#	2 SPF, 80, 0.38" hc ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" c w/ 50,000 gal 30# ‡ of 20/40 sand in 95,00 1 SP2F, 86, 0.38" h 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0-6982', 6983'-7003 5'-7098', 7100'-7122 ‡ 20-40 sand in 165, 1 SP2F,105, 0.39" 8'-6416', 6420'-6444	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 20 gal 50# x-link gel. 10 holes. 6838'-6862', 6864'-6886', 6 3', 7010'-7026', 7028'-7050', 7052'-7 2', 7124'-7146', 7148'-7170, & 7172' 2,000 gal 50# x-link gel. 1' holes. 6310'-6324', 6326'-6348', 6 4', 6446'-6468', 6470'-6492', 6494'-6	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372',
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') Hst frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') GS: (6838'-7194') GS: (6958', 6966) GS: (6310'-6540') G374'-6396', 6396 Frac w/ 64,000#	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" bd c w/ 50,000 gal 30# ‡ of 20/40 sand in 26 1 SP2F, 86, 0.38" bd 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0-6982', 6983'-7003 3'-7098', 7100-7122 ‡ 20-40 sand in 165, 1 SP2F,105, 0.39" 8'-6416', 6420'-6444 20/40 sand in 89,57	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 20 gal 50# x-link gel. 10 holes. 6838'-6862', 6864'-6886', 6 3', 7010'-7026', 7028'-7050', 7052'-7 2', 7124'-7146', 7148'-7170, & 7172' 2,000 gal 50# x-link gel. 1' holes. 6310'-6324', 6326'-6348', 6 4', 6446'-6468', 6470'-6492', 6494'-6	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372',
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') Hst frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 6966 0.29" holes, 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6396 Frac w/ 64,000# Formations: Pictured Cliffs	2 SPF, 80, 0.38" hot 20/40 sand in 95,0 : 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00 in SP2F, 108, 0.39" colorest colo	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6886', 6i 3', 7010'-7026', 7028'-7050', 7052'-7 2', 7124'-7146', 7148'-7170, & 7172', 000 gal 50# x-link gel. 1 holes. 6310'-6324', 6326'-6348', 6i 4', 6446'-6468', 6470'-6492', 6494'-6' 2' gal 50# x-link gel.	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372', 5516', 6518'-6540'.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') Ist frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 6966 0.29" holes, 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6394 Frac w/ 64,000# Frac w/ 64,000# Formations: Pictured Cliffs Mesaverde	2 SPF, 80, 0.38" hot 20/40 sand in 95,0: 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00: 1 SP2F, 86, 0.38" high 20/40 sand in 95,00: 1 SP2F, 108, 0.39" light 20/40 sand in 165, 1 SP2F, 105, 0.39" light 20/40 sand in 165, 1 SP2F, 105, 0.39" light 20/40 sand in 89,57 MD 3100'	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 20 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6886', 6i 3', 7010'-7026', 7028'-7050', 7052'-7', 7124'-7146', 7148'-7170, & 7172', 200 gal 50# x-link gel. 1 holes. 6310'-6324', 6326'-6348', 6i 4', 6446'-6468', 6470'-6492', 6494'-6' 2' gal 50# x-link gel.	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372', 5516', 6518'-6540'.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696 0.29' holes. 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 639! Frac w/ 64,000# Formations: Pictured Cliffs Mesaverde Gallup	2 SPF, 80, 0.38" hd ‡ 20/40 sand in 95,0 : 1 SPF, 140, 0.38" hd ŧ w/ 50,000 gal 30# ŧ of 20/40 sand in 26 1 SP2F, 86, 0.38" hd 20/40 sand in 95,00 1 SP2F, 108, 0.39" 0'-6982', 6983'-7003 6'-7098', 7100'-7122 ‡ 20-40 sand in 165, 1 SP2F, 105, 0.39" 8'-6416', 6420'-6444 20/40 sand in 89,57 MD 3100' 5277' 6310'	200 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 20 gal 50# x-link gel. 1 holes. 6838'-6862', 6864'-6886', 6i 3', 7010'-7026', 7028'-7050', 7052'-7', 7124'-7146', 7148'-7170, & 7172', 200 gal 50# x-link gel. 1 holes. 6310'-6324', 6326'-6348', 6i 4', 6446'-6468', 6470'-6492', 6494'-6' 2' gal 50# x-link gel.	es. 6200 psi. 388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372', 5516', 6518'-6540'.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') MC: (7452'-7592') MC: (7452'-7592') MC: (7452'-7592') MC: (76838'-7428') Frac w/ 65,000# MC: (6838'-7194') G936'-6958', 6966 0.29" holes. 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6396 Frac w/ 64,000# Formations: Pictured Cliffs Mesaverde Gallup Additional Notes:	2 SPF, 80, 0.38" hot 20/40 sand in 95,0: 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00: 1 SP2F, 86, 0.38" high 20/40 sand in 95,00: 1 SP2F, 108, 0.39" 0:6982', 6983'-7003' 3'-7098', 7100'-7122 fi 20-40 sand in 165, 1 SP2F, 105, 0.39" 8'-6416', 6420'-6444 20/40 sand in 89,57	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 11 holes. 6838'-6862', 6864'-6886', 68 13', 7010'-7026', 7028'-7050', 7052'-7 12', 7124'-7146', 7148'-7170, & 7172' 1,000 gal 50# x-link gel. 12 holes. 6310'-6324', 6326'-6348', 63 14', 6446'-6468', 6470'-6492', 6494'-6 12 gal 50# x-link gel.  Greenhorn Dakota	es. 6200 psi. 6888'-6910', 6912'-693' 7074' & at 1 SP2F, 55 -7194'. 350'-6372', 5516', 6518'-6540'.
DK: (7779'-7921): Frac w/ 205,000# MC: (7452'-7592') Hst frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') Frac w/ 65,000# MC: (6838'-7194') 6374'-6396', 6398 Frac w/ 64,000# Frac w/ 64,000# Formations: Pictured Cliffs Mesaverde Gallup Additional Notes: 12/1983 Initial con	2 SPF, 80, 0.38" hot 20/40 sand in 95,0: 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00: 1 SP2F, 86, 0.38" high 20/40 sand in 95,00: 1 SP2F, 108, 0.39" lo-6982', 6983'-7003's'-7098', 7100'-7122 figure 20-40 sand in 165, 1 SP2F, 105, 0.39" lo-416', 6420'-6444', 20/40 sand in 89,57 MD 3100' 5277' 6310'	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 00 gal 50# x-link gel. 11 holes. 6838'-6862', 6864'-6886', 68 13', 7010'-7026', 7028'-7050', 7052'-7 12', 7124'-7146', 7148'-7170, & 7172' 1000 gal 50# x-link gel. 12 holes. 6310'-6324', 6326'-6348', 6346'-6468', 6470'-6492', 6494'-67 12 gal 50# x-link gel.  Greenhorn Dakota  tim'd MC & DK, CO to PBTD 7950'.	es. 6200 psi. 6200 psi. 6388'-6910', 6912'-693 7074' & at 1 SP2F, 55 -7194'. 350'-6372', 350'-6372', 7592' 7823'  Set pkr at 7691'
Frac w/ 205,000# MC: (7452'-7592') 1st frac: H2O frac 2nd frac: 32,680# MC: (7258'-7428') Frac w/ 65,000# MC: (6838'-7194') 6936'-6958', 696f 0.29" holes, 7076 Frac w/ 150,000# MC: (6310'-6540') 6374'-6396', 6396 Frac w/ 64,000# Formations: Pictured Cliffs Mesaverde Gallup Additional Notes: 12/1983 Initial cot & sliding sleeve	2 SPF, 80, 0.38" hot 20/40 sand in 95,0: 1 SPF, 140, 0.38" to w/ 50,000 gal 30# for 20/40 sand in 95,00: 1 SP2F, 86, 0.38" high 20/40 sand in 95,00: 1 SP2F, 108, 0.39" older 50,000 sept. 100-7122 for 20-40 sand in 165, 1 SP2F, 105, 0.39" see 416', 6420'-6444 20/40 sand in 89,57 MD 3100' 5277' 6310' sept. 100-712 for 20/40 sand in 89,57 mb 20/	000 gal 50# x-link gel holes. Frac'd this zone multiple tim x-link gel. 6,340 gal 30# gel. Screened out at holes. 10 gal 50# x-link gel. 11 holes. 6838'-6862', 6864'-6886', 68 13', 7010'-7026', 7028'-7050', 7052'-7 12', 7124'-7146', 7148'-7170, & 7172' 1,000 gal 50# x-link gel. 12 holes. 6310'-6324', 6326'-6348', 63 14', 6446'-6468', 6470'-6492', 6494'-6 12 gal 50# x-link gel.  Greenhorn Dakota	es. 6200 psi. 6200 psi. 388'-6910', 6912'-693. 7074' & at 1 SP2F, 55. 7194'. 350'-6372', 6516', 6518'-6540'. 7592' 7823' Set pkr at 7691'

pressured up immeditely. Sqz'd BH w/ 5 sx cmt. PT csg again to 2200#, held. PT BH to 400#, held. DO BP & pushed down to 7931'. Ran 2-3/8" tbg w/ pkr & sliding sleeve. EOT at 7880'.

9/2023 Wellbore Isolation. Set CBP at 6260'. Landed TBG at 6236'.





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

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 270870

# **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	270870
	Action Type:
	[C-103] NOI Workover (C-103G)

#### CONDITIONS

Created	By Condition	Condition Date
dmccl	Logos is approved to isolate the well bore, but shall submit another NOI prior to removing the BP	9/29/2023