

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Report

Well Name: HARRINGTON Well Location: T24N / R1W / SEC 32 / County or Parish/State: RIO

NESE / 36.264688 / -106.959979 ARRIBA / NM

Well Number: 7 Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMSF079352A Unit or CA Name: HARRINGTON Unit or CA Number:

NMNM073787

US Well Number: 300390522500S1 Well Status: Gas Well Shut In Operator: M & M PRODUCTION

& OPERATION

Subsequent Report

Sundry ID: 2757915

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 10/24/2023 Time Sundry Submitted: 02:53

Date Operation Actually Began: 10/11/2023

Actual Procedure: As Record Title Owner of Lease No. NMSF079352A, MorningStar Operating LLC has completed the P&A of the Harrington #7, API 30-039-05225, as of 10/18/2023. Attached are the Final WBD and the Daily Cement Reports.

SR Attachments

Actual Procedure

 $Harrington_7_Final_P_A_Cementing_Reports_20231024145200.pdf$

Harrington__7_P_A_WBD_Final_10_23_2023_20231024145200.pdf

MorningStar_Harrington_7_Email_10242023_20231024145200.pdf

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5055647742 BLM POC Email Address: krennick@blm.gov

Disposition: Accepted **Disposition Date:** 10/24/2023

Signature: Kenneth Rennick

[EXTERNAL] Harrington 7_P&A Subsequent Sundry

Connie Blaylock <cblaylock@txopartners.com>

Tue 10/24/2023 2:05 PM

To:Rennick, Kenneth G < krennick@blm.gov>;Fachan, Shannon L < sfachan@blm.gov>
Cc:Dave Pearson < dpearson@txopartners.com>;Dave Harford < dharford@txopartners.com>;Brodie Savage
< bsavage@txopartners.com>;Jason Peace < JPeace@ctfieldsvcs.com>;Robert W. Berry < RBerry@txopartners.com>

2 attachments (595 KB)

Harrington #7_P&A WBD Final_10-23-2023.pdf; Harrington 7_Final P&A Cementing Reports.pdf;

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Kenny and Shannon,

As Record Title Owner of Lease No. NMSF079352A, MorningStar Operating LLC has completed the P&A of the Harrington #7, API 30-039-05225, as of 10/18/2023.

Attached are the Final WBD and the Daily Cement Reports.

Thank you,

Connie Blaylock



400 W. 7th Street Fort Worth, TX 76102 (deliveries: 400 W. 6th Street) Connie Blaylock

Senior Regulatory Analyst

TXO Partners, L.P. / MorningStar Operating LLC / Cross Timbers Energy, LLC

Office 817.334.7882

cblaylock@txopartners.com

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KB = 8? GL = 7,409'

Prepared by: B.Savage

Final Bberry 10/23/2023

Date: 05/23/2023

API# 30-039-05225

Spud Date: 07/21/1962 Date Completed: 08/20/1962

Assigned Operator: M&M Production & Operation Inc.

(MorningStar Operating, LLC created)

Harrington #7 Rio Arriba County, NM

SE/4 Section 32 of 24N-1W

TD - 3,194'; PBTD - 3,182'

Surface Csg: 8-5/8" 24# CFI Setting Depth: 98'

Cement 60sx Cement

Production Csg: 70 jts 4-1/2" 9.5# CFI

Setting Depth: 3,182'

Cement: 100 sx cement TOC unknown

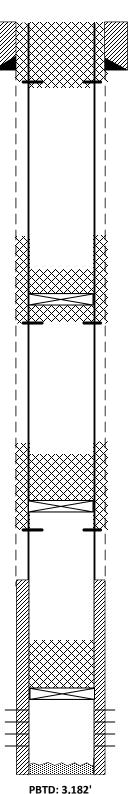
Perforations: 3,117' - 3,139' w/ 2spf

8/15/1962 Frac: 30,000lbs and 36,788gal water Avg Inj Rate = 40.4 gpm Treating pressure = 1500-2050 psi

Picture Cliffs Perfs (1962):

Perfs 3,117' - 3139' (2spf)

Final P&A



Plug 4 (surface shoe plug) Perfs @ 148' – establish circulation through BH - pump 90 sx cmt and circulate good cement to surface - cut off WH - cmt to surface both casings install DHM - top off with 15 sx

NMOCD Record or MSOgeology x,xxx' or 1,500' Nacimiento –

Ojo Alamo – 2,772' or 2,799' Kirtland -3,012' or x,xxx' Fruitland -3,078' or 3,012' Picture Cliffs -3,113' or 3,112'

PLUG 3 (~ approx. Nacimiento ~) Perfs @ 1,530' - set CICR @ 1,490' - establish injection rate 1.5 bpm @ 950 psi pump 55 sx cmt - 43 sx cmt behind pipe, 3.5sx cmt below CICR, 8.5sx cmt on top (WOC - tag cmt top 1401' - tag witnessed by BLM rep) - Note: prior to completing this plug a retainer was prematurely set ~30' from surface - the retainer was drilled up, and the remaining bottom section of the retainer was effectively chased downhole and out of the way to ~1605'

PLUG 2 (Ojo) Perfs @ 2,825' - set CICR @ 2,787' - attempt to establish injection below retainer - pressure out at 1100 psi - no break, no injection rate - spot 12sx cmt on top of retainer (WOC - tag 2610' - tag witnessed by BLM rep)

Plug 1 (PC/FC/Kirtland) CICR Set @ 3,082' - attempt to establish inj below retainer, pressure out at 1000 psi - no inj rate established below retainer - spot 18sx cmt on top of retainer (WOC - tag TOC 2830' - Tag witnesed by BLM rep)



Companies Comp	CUSTOME	R:				PERATING,	LLC.	DATE:		October 11		API Number:			TYPE OF JOB:		P&A	
MATERIALS PLEASED.	LEASE & W	VELL NAME	:: :OB:		TON CON	л #7		LOCATION								_ CTATE:	AIF14	MEVICO
THE FLUID - FRESH WATES				KIG 450		TYPE OF S'	ice.						_COUNTY:			_		WEAICO
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CAMPO CAMP	4 1/2	9.50	J-55	3182'				3117'	3139'	<u> </u>	2 3/8	8 ROUND	<u> </u>		PRODUCE	D WATER	8.40	
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CUSTOME					ERATING,	LLC.	DATE:		October 12		API Number:			TYPE OF JOB:		P&A	
LEASE & W SERVICE C			RIG 450	STON CON	n #/		LOCATION			4N,R01W LL SERVICE	SERVICE SUP:	COUNTY:	DEAN ME	STAS RIO ARRIBA	STATE.	NFW	MEXICO
MATERIAL					TYPE OF PLU	JGS:		SG. HARD		SQUEEZE	TOP		Pl	YSICAL SLURR			
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				ВО	ТТОМ					[EACH FLUID:	WEIGHT:	YIELD:	REQ.:	TIME:	hhle	WATER:
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I KL-I LOO	II - IKLO	HIWAILK															
												1					
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	LAST C	ASING		PKR	-CMT RET-BR	PL-LINER	PERF DE	PTHS		TOP C	ONNECTION				LBORE FLUID		
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						CIRCULATED TH	IE WELL:		RIG PUMP	CMT PUMP	7						
5:00	-	-	-	-	-	Travel to loca	ation										
7:00	-	-	-	-	-	Pre-Start Ins	pection, Se	rvice & S	tart equipm	ent							
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14:00	-	-	-	-	-				packer, 29jt	s ((w/ 75' of	3/8" copper tubir	ng tied to la	st 2.5'jts))	and 1- mud anc	hor		
15:25	-	-	-	-	-	Change over	BOP and h	andling (equipment t	o 2-3/8" tbg							
15:50	-	-	-	-	-	TIH w/ casing			3106'								
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CUSTOME					ERATING,	LLC.	DATE:	ı.	October 13		API Number:	30-039		TYPE OF JOB:		P&A			
	ELL NAME		RIG 450	STON COM	1 #7		LOCATION			LL SERVICE	SERVICE SUP:	COUNTY:	DEAN ME		STATE:	NFW	MEXICO		
MATERIAL					TYPE OF PLU	JGS:		SG. HARD		SQUEEZE	TOP			TYSICAL SLURR	•				
				1	ОР					MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX		
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PRF-FI US	H - FRES	H WATER					<u> </u>			J	T EOID.	Lb/gai	Cultisk	Gais/sk	111.111111	DDIS	DDIS		
Plug 1: Pur	nped 3.7bb	ls cement s	lurry ((18	sx; 15.8pp	g, 1.15cuft/	ft, 5.0gals/sk))	١				2855'	15.80	1.15	5.00		3.7	2.1		
AVAILABLE N		210.0	BBLS			DISPLACEMENT \	WATER:									IX WATER:	2.1		
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						CIRCULATED TH	HE WELL:		RIG PUMP	CMT PUMP	7								
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7:00	0	0/0	-	-	-														
7:15 7:30	-	- 0/0	-						.sg = upsi; i	on = upsi.									
8:10	-	-	-	-	-				to 3082'se	et retainer su	ccessfully and s	ting out							
9:30	0	0	3.00	58.00	H2O	Pumped 58.0	bbls water	to load c											
9:45	-	-	-	-	-		TIBG-CSG-DP. TYPE TYPE TYPE TOP SOUTH TYPE BOTTOM SIZE THREAD TYPE PRODUCED WALLBORE FLUID TYPE PRODUCED WATER OP. MAX MAX TBG. PSI ASTED OPER RATED OPER RATED OPER BOTTOM SIZE THREAD TYPE PRODUCED WATER DISPLACEMENT FLUID TYPE WEIGHT TYPE WEIGHT TYPE WEIGHT TYPE WEIGHT TYPE WEIGHT TYPE WEIGHT FRESH WATER 8.33 DAILY SUMMARY: COL REP. J TOP LOW WALLBORE FLUID TYPE WEIGHT TYPE WEIGHT FRESH WATER 8.33 DAILY SUMMARY: DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WALLBORE FLUID TYPE WEIGHT FRESH WATER 8.33 DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WALLBORE TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WALLBORE TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WALLBORE TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WALLBORE TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: CREW J COL REP. J TOP LOW WATER DAILY SUMMARY: WEETING: TYPE WEIGHT TOP TOP TOP TOP TOP TOP TOP T												
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13:02	250	0	2.00	2.00	H2O														
13:15	250	0	2.00	3.70	CEMENT														
13:25	200	0	2.50	11.20	H2O -			aisplace	ment Esti	mated TOC	@ 2855'								
13:30		-	-	-	-	TOOH w tubi													
13:45	0	250	3.00	65.00	H2O		_	to revers	e circ. clea	nduring pu	ımp time BH sta	rted to circ	ulate, hole	on casinghad	0.5bbls ceme	nt ot pit			
-	-		-		•	SDresume								•					
14:00	-	-	-	-		TOOH w/ tub													
14:45	-	-	-	-	-	Secure wellh		uipment.	SDON										
15:00	-	-	-	-	-	Travel to the	yard												
				<u> </u>															
				1															
				1															
				t															
					-		·								· · · · ·		·		
BUMPED	PS	I TO	TE	ST	TOTAL	BBL CMT.	PSI	5	SPOT	AZTEC WE	LL SERVICING C	O REP.:		DE	AN MESTAS				
PLUG:	BU	BUMP FLOAT BBL. RETURNS/ LEFT ON TOP CUS									R REP.:				SON PEACE				
	PL	UG:	EQUIF	PMENT:	PUMPED:	REVERSED:	CSG.:		MENT:	CUSTOME	R REP. SIGNATU	RE:		CHSTOME	R AUTHORIZING AGEN	т			
					142.4	0.5	0	. 2	2855'	I				CUSTOME	NO II IONIZINO AGEN	•			



CUSTOME					PERATING,	LLC.	DATE:		October 16	•	API Number:	30-039		TYPE OF JOB:		P & A	
LEASE & W SERVICE O			RIG 450	STON COM	Л #7		LOCATION		Sec.32,T32	24N,R01W ELL SERVICI	SERVICE SUP:	COUNTY:	DEAN ME	RIO ARRIBA	STATE:	NFW	MEXICO
MATERIAL			1110 400		TYPE OF PLU	JGS:		CSG. HARE		SQUEEZE	TOP	0001111	P	HYSICAL SLURR	•		шежо
				1	ГОР					MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
				ВО	TTOM		<u> </u>				EACH	WEIGHT:	YIELD:	REQ.:	TIME:	bb1-	WATER:
PRE-FLUS	H - FRES	H WATER					l			1	FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
I KL-I LOO	II - IKLO	II WAILK															
Plug 2: Pui	mped 2.5bb	ls cement s	lurry ((12	sx; 15.8pp	g, 1.15cuft/	ft, 5.0gals/sk)))				2634'	15.80	1.15	5.00		2.5	1.4
																	
AVAILABLE N	MIX WATER:	210.0	BBLS	TRO	AVAILABLE I CSGD.P.	DISPLACEMENT	WATER:		BBLS -CSGD.P.					COLLAR DEPTH		X WATER:	1.4
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE		
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2 3/8	4.70	J-55	2830'					0		
0175	LAST C		DEDTU		-CMT RET-BR		PERF DI		1		ONNECTION				LBORE FLUID	WEIGHT	l
SIZE 4 1/2	WEIGHT 9.50	J-55	3182'	BKAN	D & TYPE	DEPTH	TOP 3117'	3139'	1	SIZE 2 3/8	THREAD 8 ROUND	i		PRODUCE		WEIGHT 8.40	
		EMENT VOLU		CAL. PSI	CAL.	MAX PSI	OP. MAX		TBG. PSI		CASING PSI	1		DISPLACEMENT F			ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG		REVERSE	SQ. PSI	RATED	OPER	RATED	OPER			TYPE	WEIGHT		URCE
					'	650	650		1,100		650		FRE	SH WATER	8.33	CITY	WATER
EXPLAN	ATION: TRO	UBLE SETTING	TOOL,														
		PRIOR TO CE															
		PUMP DE	TAII S:			<u> </u>					DAILY SU	MMARY:					
TIME	PRESSU	JRE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	NG:	CREW	J	CO. REP.		mmaicr.					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:				PSI	_]					
						CIRCULATED TH			RIG PUMP	CMT PUMP	7						
6:00	-	-	-	-	-	Travel to loca			N 1 1	4							
7:00 7:15		0/0	-	-	-	Pre-Start Ins Check PSI or	•			ent							
7:13	-	-	-	-	-					TOC @ 2830)'witnessed by	BLM rep.					
8:08	-	-	-	-	-	TOOH w/ tub											
8:50	-	-	-	-	-	RIH w/ perf g	un & wireli	ne to per	f depth of 2	825'							
9:00	-	-	-	-	-	ROOH w/ wir											
9:15		-	-	-	-	1					tainer successfu	illySTING	out				
10:05 10:10	150 1,100	0	2.00 0.50	4.00 0.50	H2O H2O	Pumped 4.0b					retainer pressured out to	1100nei	no break	no injection rate	notified offic	•	
10:18	-	-	-	-	-	Sting out of				atetubilig	pressureu out to	7 1100p3i	no break,	no injection rate	iotiliea oilit	,,,	
10:20	150	0	2.00	2.00	H2O	Pumped 2.0b											
10:23	125	0	2.00	2.50	CEMENT	Pumped 2.5b	bls cement	slurry (12sx; 15.8p	pg, 1.15cuft	ft, 5.0gals/sk))						
10:25	100	0	2.50	10.20	H2O	Pumped 10.2		displace	mentEsti	mated TOC (ඔ 2634'						
10:30		-	-	-	-	SDWOC 4h		-41c									
10:38 11:25		-	-	-	-	TOOH w/ tub											
14:30		-	-	-	-				top of ceme	entTagged	TOC @ 2610'v	vitnessed h	v BLM rei).			
14:44	-	-	-		-	TOOH w/ tub							,				
16:30	-	-	-	-	-	RIH w/ perf g	ıun & wirelii	ne to per	f depth of 1	530'	·	· · · · · ·					
15:40	-	-	-	-	-	ROOH w/ wir				I shots fired							
15:50	-	-	-	-	-	TIH w/ cemer											
16:00		-	-	-	-						ing sub, the reta orning to begin o			aเ งบ	ce		
17:00		-	-	-	-	Secure wellh				rive in the in	orning to begin t	arilling out.					
17:30	-	-	-	-	-	Travel to the											
										-		-		-			
				1													
				1		1											
				1		 											
				1													
				1													
						1											
BUMPED	рег	l TO	т	ST	TOTAL	BBL CMT.	PSI		SPOT	AZTEC WE	LL SERVICING C	O REP ·		DE	AN MESTAS		
PLUG:		IMP		OAT	BBL.	RETURNS/	LEFT ON		TOP	CUSTOME		J			SON PEACE		
		UG:		MENT:	PUMPED:	REVERSED:	CSG.:	CE	MENT:		R REP. SIGNATU	RE:					
					19.2		0		2610'					CUSTOME	ER AUTHORIZING AGEN	I	



CUSTOME LEASE & V					PERATING,	LLC.	DATE:		October 17	•	API Number:			TYPE OF JOB:		P & A	
SERVICE (RIG 450	STON COM	N #1		LOCATION OPERATO			LL SERVICE	SERVICE SUP:	COUNTY:	DEAN ME	RIO ARRIBA	STATE:	NFW	MEXICO
MATERIAL			1110 400		TYPE OF PLU	JGS:		CSG. HARD		SQUEEZE	TOP			TYSICAL SLURR	•		шехіоо
					ГОР					MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
				ВО	ТТОМ	1	1			1	EACH FLUID:	WEIGHT: Lb/gal	YIELD: Cuft/sk	REQ.: Gals/sk	TIME: hr:mm	bbls	WATER: bbls
PRE-FLUS	H - FRES	H WATER					1			1	i LUID.	Lurgai	GuirSK	Gais/sR	10.1000	טטוט	SIUU
Plug 3: Pu	mped 13.9b	bls cement	slurry ((5	5sx; 15.8p	pg, 1.15cuft	t/ft, 5.0gals/sk	()) 43sx out,	3.5sx bl	w, 8.5sx on	top	1380'	15.80	1.15	5.0		11.3	6.5
												-				-	
AVAILABLE N		210.0	BBLS			DISPLACEMENT	WATER:	200.0								IIX WATER:	6.5
SIZE	HOLE % EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE	1	
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2-3/8:	4.70	J-55	1605'				. ==:::		1	
	LAST C				-CMT RET-BR		PERF DI				ONNECTION				LBORE FLUID		
SIZE 4 1/2	WEIGHT 9.50	J-55	3182'	BRANI	D & TYPE	DEPTH	TOP 3117'	3139'	1	SIZE 2 3/8	THREAD 8 ROUND	1		PRODUCE		WEIGHT 8.40	
		CEMENT VOLU		CAL. PSI	CAL.	MAX PSI	OP. MAX		TBG. PSI		CASING PSI	<u> </u>		DISPLACEMENT F			ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG	TO R	REVERSE	SQ. PSI	RATED	OPER	RATED	OPER	1		TYPE	WEIGHT	SC	URCE
						750			1,100		650		FRE	SH WATER	8.33	CITY	WATER
FYPI AN	IATION: TRO	UBLE SETTING	TOO!														
		PRIOR TO CE															
						1											
TIME	DDESSI	PUMP DE URE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	NG:	CREW	J	CO. REP.	DAILY SU	JMMARY:					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:	NG.	ONETT		PSI							
						CIRCULATED TH	HE WELL:		RIG PUMP	CMT PUMP	7						
5:30	-	-	-	-	-	Travel to loc											
6:45	-	-	-	-	-	Pre-Start Ins				ent							
7:00	-	0/0	-	-	-	Check PSI or				-1111			D 141 1				
7:15 10:30	-	-	-	-	-						power swiveis tstart pump to			oad with water	prepare to dri	ii out ret.	
-	-				-						drill thru retain		ation				
11:15		-	-	-	-								re to chas	e plug past perf	depth at 1530		
11:28	-	-	-	-	-	SDstand b	ack swivel										
11:48	-	-	-	-	-	TIH w/ tubing	g & chase re	etainer to	1605'tag	ged ret sevr	al times during t	rip in, was	able to kno	ock down succes	ssfully		
12:33	-	-	-	-	-	TOOH w/ tub											
14:00	-	-	4.50	2.50	-						rotate & set re			STING out			
14:40 14:52	150 950	0	1.50 1.50	3.50 6.50	H2O H2O						er & chain tied			psiprepare for	r cement		
15:06	650	0	1.50	2.00	H2O	Pumped 2.0k			on injection	ratocotar	moneu mjestion	rate at 1.00	<i>р</i> ит <u>ш</u> оос	poipropare to	Comon		
15:10	650	0	1.50	11.30	CEMENT	Pumped 11.3	Bbbls cemer	nt slurry	((55sx; 15.8	ppg, 1.15cuf	t/ft, 5.0gals/sk))	43sx out, 3	.5sx blw, 8	.5sx on top			
15:16	975	0	1.50	4.00	H2O	Pumped 4.0k		or displa	cement			-	-				-
15:20	-	-	-	-	-	SDSTING											
15:21	0	0	0.50	0.25	H2O			or displa	cement to b	alanceEst	. TOC at 1380'						
15:22 15:30		-	-	-	-	SDWOC 4I											
16:10	-	-	-	-	-	SDresune		ight									
16:15		-	-	-	-	Secure wellh			SDON								
16:30	•	-	-	-	-	Travel back t									-		
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<u> </u>		1		1		1											
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			 	<u> </u>													
BUMPED		I TO		ST	TOTAL	BBL CMT.	PSI		SPOT		LL SERVICING	CO REP.:			AN MESTAS		
PLUG:		JMP		OAT	BBL.	RETURNS/	LEFT ON		TOP	CUSTOME		IDE:		JA:	SON PEACE		
	PLUG: EQUIPMENT: PUMPED: REVERSED: CSG.: CEMENT: CUSTOMER REP. SIGNATURE: CUSTOMER AUTHORIZING AGENT											INE.		CUSTOME	ER AUTHORIZING AGEN	NT	



OLIOTOME	_						D.4.T.E.				15111		05005	T/DE 05 105			
CUSTOME					ERATING,	LLC.	DATE:		October 18		API Number:	30-039		TYPE OF JOB:		P & A	
	ELL NAME		HARRING	STON COM	1 #7		LOCATION		Sec.32,T32		SERVICE SUP:		DEAN ME		=		
SERVICE C	CONTRACTO	OR:	RIG 450				OPERATO	R:	AZTEC WE	LL SERVICE	<u> </u>	COUNTY:		RIO ARRIBA	STATE:	NEW	MEXICO
MATERIAL					TYPE OF PLU	ics.	LIST	SG. HARI		SQUEEZE				YSICAL SLURR	•		
WAIERIAL	o FURNISH	IEV.		-		.co:	LIST C	ى HARI	DWAKE:	-	TOP	01.110					* *** *
					OP	1	+			MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
				BO	TTOM	l	.				EACH	WEIGHT:	YIELD:	REQ.:	TIME:		WATER:
											FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
PRE-FLUS	H - FRES	H WATER															
Plug 4: Pro-	mned 10 EL	hle comort	elurry //or)ev. 15 0	ng 1 1 Faur	Iff 5 Daglalate	W				Surface	15.80	1.15	5.00	İ	18.5	10.7
riug 4: Pur	iipeu 18.30	nis cement	siui y ((90	, 13.6p	y, i.iocuit	/ft, 5.0gals/sk	11				Surface	15.60	1.15	5.00		10.0	10.7
Top off: Pu	ımped 3.1bl	bls cement	slurry ((15	isx; 15.8pp	g, 1.15cuft	ft, 5.0gals/sk)) to top off	casing 8	& fill cellar		Surface	15.80	1.15	5.00		3.1	1.8
-														-			
														1			
——				,								1		L	<u> </u>	1	
AVAILABLE N	IIX WATER:	210.0	BBLS		AVAILABLE [ISPLACEMENT V	WATER:	200.0	BBLS						TOTAL M	IX WATER:	12.5
	HOLE			TBG	CSGD.P.			TBG	CSGD.P.					COLLAR DEPTH	IS		
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE]	
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2 3/8	4.70	J-55	169'					0		
"-	LAST C		, , ,,,		CMT RET-BR		PERF DE		1 33		ONNECTION	1		WFI	LBORE FLUID	-	
SIZE	WEIGHT	TYPE	DEPTH	-	0 & TYPE	DEPTH	TOP	BOTTON	4	SIZE	THREAD	1		TYF		WEIGHT	
	9.50	J-55	3182'	DIVANE	11 L	JLI III			1	2 3/8		1				8.40	
4 1/2				04:		MAY PO	3117'	3139'	TDC DC		8 ROUND	ļ .		PRODUCE			ATER
		EMENT VOLU		CAL. PSI		MAX PSI	OP. MAX		X TBG. PSI		CASING PSI	1		DISPLACEMENT F		_	ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG		EVERSE	SQ. PSI	RATED		RATED	OPER	1		TYPE	WEIGHT		URCE
				<u></u>	(650	650		1,100		650		FRE	SH WATER	8.33	CITY	WATER
EXPLAN	ATION: TRO	UBLE SETTING	TOOL.														
		PRIOR TO CE		1													
				1													
		PUMP DE	TAIL C.	<u> </u>							DAILY SU	MMARV.					
—						_	_	055	7	00.5==		IVINIARY:					
TIME		JRE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	IG:	CREW		CO. REP.		4					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:				PSI		1					
						CIRCULATED TH	HE WELL:		RIG PUMP	CMT PUMP	7						
5:30	-	_	-	-		Travel to loca						-					
6:45	-	-	-	-	-	Pre-Start Ins	pection, Se	rvice & S	Start equipm	nent							
7:00	0	0/0	-	-	-	Check PSI or	n Well: Tba	= 0psi; (Csg = 0psi: I	BH = 0psi.							
7:30	-	-	_	-							',,,witnessed by	RIM					
								or cernit	rayyeu	100 at 1401	,,,withesseu by	LITI					
7:54	-	-	-	-	-	TOOH & LD t											
8:20	-	-	-	-	-	RU wireline s	service to pe	erforate	casing								
-						RIH w/ perf a	un and wire	line to r	perf depth of	f 148'perfo	rated casing su	ccessfully					
-	-	-	-	-									tahlich in:	action rate from	eurface		
	-	-			-			or gun	vermeu al	i siiots iired	ənut iii anu pr	pare to es	เผมแจน แป	ection rate from	ouriale		
8:42						TIH w/ tubing	j to 169'										
8:54	0	150	2.00	16.00	H2O	Pumped 8.5b	bls to load	& circul	ate thru BH	successfully	<u>/</u>						
9:10	0	100	2.00	2.00	H2O	Pumped 2.0b									-		
										4 4 5 - 1	4/64 F Om -1 - / - 1 **	-lu-r-1-4	1006-1-				
9:30	0	100	2.00	23.60	CEMENT		nemes siqui	ıt sıurry	((90SX; 15.8	ppg, 1.15cut	τ/π, 5.ugais/sk)).	circulated	ı ∠.uɒbis g	ood cement to s	штасе		
9:45	-	-	-	-	-	SD											
ı . T	-	-	-	-]	-	MIRU welder	cut wellhe	ead off	.had cemen	t to surface	on both casings				_	_	
_	-	_	_	-													
						Install dryhol											
-	25	0	1.00	3.10	CEMENT			siurry ((158x; 15.8p	pg, 1.15cuft/	ft, 5.0gals/sk)) to	top off & f	iii cellar				
-	-	-	-	-	-	SDend of v	vell										
13:30		-	-	-		Travel to the	yard										
\vdash						1											
\vdash						1											
			I			1											
 						 											
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BUMPED	PSI	I TO	TE	ST	TOTAL	BBL CMT.	PSI		SPOT	AZTEC WE	LL SERVICING C	O REP.:		DE	AN MESTAS		
PLUG:	BU	IMP	FLO	DAT	BBL.	RETURNS/	LEFT ON		TOP	CUSTOMER	R REP.:			JA:	SON PEACE		
	PLU	UG:	EQUIP	MENT:	PUMPED:	REVERSED:	CSG.:	CE	EMENT:	CUSTOMER	R REP. SIGNATU	RE:					
			<u></u>		44.7	2.0	0		urface	1				CUSTOME	R AUTHORIZING AGEN	п	

KB = 8? GL = 7,409'

Prepared by: B.Savage

Final Bberry 10/23/2023

Date: 05/23/2023

API# 30-039-05225

Spud Date: 07/21/1962 Date Completed: 08/20/1962

Assigned Operator: M&M Production & Operation Inc.

(MorningStar Operating, LLC created)

Harrington #7 Rio Arriba County, NM

SE/4 Section 32 of 24N-1W

TD - 3,194'; PBTD - 3,182'

Surface Csg: 8-5/8" 24# CFI Setting Depth: 98'

Cement 60sx Cement

Production Csg: 70 jts 4-1/2" 9.5# CFI

Setting Depth: 3,182'

Cement: 100 sx cement TOC unknown

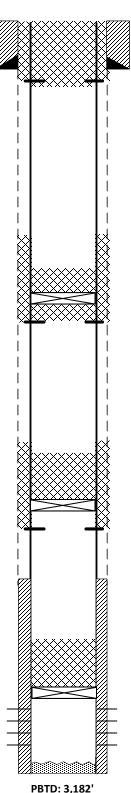
Perforations: 3,117' - 3,139' w/ 2spf

8/15/1962 Frac: 30,000lbs and 36,788gal water Avg Inj Rate = 40.4 gpm Treating pressure = 1500-2050 psi

Picture Cliffs Perfs (1962):

Perfs 3,117' - 3139' (2spf)

Final P&A



Plug 4 (surface shoe plug) Perfs @ 148' – establish circulation through BH - pump 90 sx cmt and circulate good cement to surface - cut off WH - cmt to surface both casings install DHM - top off with 15 sx

NMOCD Record or MSOgeology

x,xxx' or 1,500' Nacimiento – Ojo Alamo – 2,772' or 2,799' Kirtland -3,012' or x,xxx' Fruitland -3,078' or 3,012' Picture Cliffs -3,113' or 3,112'

PLUG 3 (~ approx. Nacimiento ~) Perfs @ 1,530' - set CICR @ 1,490' - establish injection rate 1.5 bpm @ 950 psi pump 55 sx cmt - 43 sx cmt behind pipe, 3.5sx cmt below CICR, 8.5sx cmt on top (WOC - tag cmt top 1401' - tag witnessed by BLM rep) - Note: prior to completing this plug a retainer was prematurely set ~30' from surface - the retainer was drilled up, and the remaining bottom section of the retainer was effectively chased downhole and out of the way to ~1605'

PLUG 2 (Ojo) Perfs @ 2,825' - set CICR @ 2,787' - attempt to establish injection below retainer - pressure out at 1100 psi - no break, no injection rate - spot 12sx cmt on top of retainer (WOC - tag 2610' - tag witnessed by BLM rep)

Plug 1 (PC/FC/Kirtland) CICR Set @ 3,082' - attempt to establish inj below retainer, pressure out at 1000 psi - no inj rate established below retainer - spot 18sx cmt on top of retainer (WOC - tag TOC 2830' - Tag witnesed by BLM rep)



CUSTOME LEASE & V	R:				PERATING,	LLC.	DATE:		October 11		API Number:			TYPE OF JOB:		P&A	
SERVICE (CONTRACT	:: OR:	RIG 450	GTON CO	VI #7		LOCATION OPERATO			LL SERVICI	SERVICE SUP:	COUNTY:	DEAN ME	RIO ARRIBA	STATE:	NFW	MEXICO
MATERIAL			1110 400		TYPE OF PLI	UGS:		CSG. HARD		SQUEEZE	TOP			HYSICAL SLURR	•		MEXICO
					TOP					MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
				ВО	TTOM		4				EACH FLUID:	WEIGHT: Lb/gal	YIELD: Cuft/sk	REQ.: Gals/sk	TIME: hr:mm	bbls	WATER: bbls
PRE-FLUS	H - FRES	SH WATER					J.				T EOID.	Lb/gai	Cultisk	Gais/sk	111.311111	DDIS	DDIS
														+			
AVAILABLE I		210.0	BBLS			DISPLACEMENT	WATER:	200.0								IIX WATER:	0.0
SIZE	HOLE % EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	-CSGD.P. TYPE	DEPTH			SHOE	FLOAT	STAGE	-	
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	1	WEIGITI	LP	3087'			SHOL	TEOAT	0	1	
	LAST C	CASING		PKR	-CMT RET-BR		PERF DI				ONNECTION				LBORE FLUID		
SIZE	WEIGHT 9.50	TYPE J-55	DEPTH 3182'	BRAN	D & TYPE	DEPTH	TOP	BOTTOM 3130'	ł	SIZE	THREAD	1		TYF		WEIGHT	ł
4 1/2 CALCULA		J-55 CEMENT VOLU		CAL. PSI	CAL.	MAX PSI	3117' OP. MAX	3139' MAX	TBG. PSI	2 3/8 MAX	8 ROUND CASING PSI	 		PRODUCE DISPLACEMENT F		8.40 W	ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUC	:	REVERSE	SQ. PSI	RATED	OPER	RATED	OPER	1		TYPE	WEIGHT	SC	OURCE
						650	650		1,100		650		FRE	SH WATER	8.33	CITY	WATER
EVDLAN	ATION: TOO	UDI E CETTINA															
		UBLE SETTING PRIOR TO CE															
		PUMP DE		T				CREW	7	CO. REP.		JMMARY:					
TIME HR: MIN:	PRESSU	URE - PSI ANNULUS	RATE BPM:	BBL FLUID PUMPED:	FLUID TYPE:	SAFETY MEETII TEST LINES:	NG:	CKEW	<u> </u>	PSI	<u>* 1</u>	1					
		711110200	Di iii.	T OILL ED.		CIRCULATED T	HE WELL:		RIG PUMP	CMT PUMP	7	1					
5:00	-	-	-	-	-	Travel to loc	ationCars	on 13A									
7:00	-	-	-	-	-	Load equipn	nent and pre	epare for	travel								
7:30	-	-	-	-	-	Secure rig &					1						
-	-	-	-	-	-	Move onto lo											
-	40 -	0/0	-	-	-	Check PSI o					POR was to am	all notifies	doffice				
-	-	-	-	-		New flange					BOP was to sm	allIlotille	a office				
16:15	-	-	-	-	-	Secure equi				orning							
16:30						Travel to the	yard										
					ļ												
		1		1	 												
				1	 												
		1															
		ļ				-											
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		1		-	 												
		1		1	 	1											
BUMPED	PS	I TO	TE	EST	TOTAL	BBL CMT.	PSI		SPOT	AZTEC WE	LL SERVICING	CO REP.:		DE	AN MESTAS		
PLUG:		JMP		OAT	BBL.	RETURNS/	LEFT ON		ТОР	CUSTOME					SON PEACE		
	PLUG: EQUIPMENT: PUMPED: REVERSED: CSG.: CEMENT: CUSTOM								CUSTOME	R REP. SIGNATU	JRE:		OUOTE:	ED VILLINODIZANO VOLU	т		
					0.0	0.0	0							CUSTOME	R AUTHORIZING AGEN	41	



CUSTOME					PERATING,	LLC.	DATE:		October 12	•	API Number:			TYPE OF JOB:		P&A	
LEASE & W SERVICE O			RIG 450	GTON CO	N #1		LOCATION OPERATO			24N,R01W ELL SERVICI	SERVICE SUP:	COUNTY:	DEAN ME	RIO ARRIBA	STATE:	NFW	MEXICO
MATERIAL			450		TYPE OF PLU	UGS:		CSG. HARD		SQUEEZE	TOP		PI	HYSICAL SLURR			
	5141011				TOP			- oo. HANL		MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
				ВО	TTOM						EACH	WEIGHT:	YIELD:	REQ.:	TIME:		WATER:
											FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
PRE-FLUS	H - FRES	H WATER															
																	ļ
																	
																	
		240.0	201.0					200.0	. D.D. O.					1		· · · · · · · · · · · · · · · · · · ·	0.0
AVAILABLE N	HOLE	210.0	BBLS	ТВО	SCSGD.P.	DISPLACEMENT	WATER:		-CSGD.P.					COLLAR DEPTH	TOTAL M	X WATER:	0.0
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE		
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	1 1/4	2.40	J-55	3626'					0		
SIZE	LAST C	TYPE	DEPTH		-CMT RET-BR D & TYPE	PL-LINER DEPTH	TOP	BOTTOM	1	SIZE	CONNECTION THREAD	1		WEL TYF	LBORE FLUID	WEIGHT	
4 1/2	9.50	J-55	3182'	DIVAN	- W.III E	JEI III	3117'	3139'	1	2 3/8	8 ROUND	1		PRODUCE		8.40	
		EMENT VOLU	ME; BBL	CAL. PSI		MAX PSI	OP. MAX	MAX	TBG. PSI		CASING PSI			DISPLACEMENT F		W	ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUC		REVERSE	SQ. PSI	RATED	OPER	RATED	OPER			TYPE	WEIGHT		URCE
						650	650		1,100	<u> </u>	650		FRE	SH WATER	8.33	CITY	WATER
FYPI AN	ΙΔΤΙΩΝ: ΤΡΩΙ	UBLE SETTING	TOOL														
		PRIOR TO CE															
						1											
		PUMP DE		T				CREW	7	CO. REP.	DAILY SU	MMARY:					
TIME HR: MIN:	PRESSU	JRE - PSI ANNULUS	RATE BPM:	BBL FLUID PUMPED:	FLUID TYPE:	SAFETY MEETIN TEST LINES:	NG:	CREW	<u> </u>	PSI	<u> </u>						
THC. WIII V.	1112	ANIVOLOG	DI W.	TOWN ED.	111 2.	CIRCULATED TH	HE WELL:		RIG PUMP	CMT PUMP	7						
5:00	-	-	-	-	-	Travel to loc	ation					•					
7:00	-	-	-	-	-	Pre-Start Ins	pection, Se	rvice & S	Start equipm	nent							
7:15	35	0/0	-	-	-	Check PSI or	n Well: Tbg	= 35psi;	Csg = 0psi;	BH = 0psi.							
7:30	-	-	-	-	-				ubing donut	tfound 1"	EUE pin welded t	o 1-1/4" EU	E pin in tu	ıbing donuttub	oing string 1-1/	4" EUE 1	Ord
8:17	-	-	-	-	-	NU correct fl											
9:10	-	-	-	-	-				" and 1-1/4"	handling eq	uipment and hot	shot trailer	to laydow	n tubing			
13:45 14:00	-	-	-	-	-	MI and spot			naakar 20is	o (/w/ 7E' of	3/8" copper tubir	an tind to In	ot 2 E!ito\\	and 1 mud and	har		
15:25		-	-	-	-	Change over						ig tieu to ia	ISI 2.5 JIS))	and 1- mud and	IIOI		
15:50	-	-	-	-	-	TIH w/ casing				10 L 0/0 1.0g							
-		-	-	-	-	TOOH w/ tub											
17:45	-	-	-	-	-	Secure wellh	ead and eq	uipment	SDON								
18:00	-	-	-	-	-	Travel to the	yard										
				-													
						 											
				1													
				1													
				1													
				 													
						 											
				1													
	-											-			·		
				1													
			-			1											
				1													
				1		1											
BUMPED	PSI	ТО	TF	ST	TOTAL	BBL CMT.	PSI	9	SPOT	AZTEC WF	LL SERVICING C	O REP.:		DF	AN MESTAS		
PLUG:		IMP		OAT	BBL.	RETURNS/	LEFT ON		ТОР	CUSTOME					SON PEACE		
	PL	UG:	EQUIF	PMENT:	PUMPED:	REVERSED:		CE	MENT:	сиѕтомы	R REP. SIGNATU	RE:			D AUTHODOTA:		
					0.0		0							CUSTOME	R AUTHORIZING AGEN	ı	



CUSTOME	R:		MORNIN	GSTAR OF	PERATING,	LLC.	DATE:		October 13	3, 2023	API Number:	30-039	9-05225	TYPE OF JOB:		P&A	
LEASE & W	ELL NAME	:	HARRING	GTON COM	A #7		LOCATION		Sec.32,T32		SERVICE SUP:		DEAN ME		•		
	ONTRACT		RIG 450				OPERATO			LL SERVICE		COUNTY:			STATE:		MEXICO
MATERIAL	S FURNISH	IED:			TYPE OF PL	JGS:	LIST (CSG. HARD	WARE:	SQUEEZE	TOP			IYSICAL SLURR			
					TTOM					MANIFOLD:	OF EACH	SLURRY WEIGHT:	SLURRY YIELD:	WATER REQ.:	PUMP TIME:	SLURRY:	MIX WATER:
				ВО	TTOW						FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
PRE-FLUS	H - FRES	H WATER		*													
Plug 1: Pur	nped 3.7bb	ls cement s	lurry ((18	sx; 15.8pp	g, 1.15cuft/	ft, 5.0gals/sk))	1				2855'	15.80	1.15	5.00		3.7	2.1
AVAILABLE N		210.0	BBLS	TDC		DISPLACEMENT V	VATER:	200.0					1	COLLAD DEDTI	TOTAL MI	X WATER:	2.1
SIZE	HOLE % EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	-CSGD.P. TYPE	DEPTH			SHOE	FLOAT	STAGE	ł	
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2-3/8"	4.70	J-55	3082'					0	1	
	LAST C			-	-CMT RET-BR		PERF DE				ONNECTION				LBORE FLUID		
SIZE 4 1/2	WEIGHT 9.50	J-55	3182'	BRANI	D & TYPE	DEPTH	TOP 3117'	3139'	ł	SIZE 2 3/8	THREAD 8 ROUND	-		PRODUCE		WEIGHT 8.40	
		EMENT VOLU		CAL. PSI	CAL.	MAX PSI	OP. MAX		TBG. PSI		CASING PSI			DISPLACEMENT F			ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG		EVERSE	SQ. PSI	RATED	OPER	RATED	OPER			TYPE	WEIGHT		URCE
							650		1,100		650		FRE	SH WATER	8.33	CITY	WATER
		UBLE SETTING PRIOR TO CE!															
		PUMP DE	TAILS:		1						DAILY SU	JMMARY:					
TIME		JRE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	IG:	CREW	<u>/</u>	CO. REP.	4	1					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES: CIRCULATED TH	HE WELL:		RIG PUMP	PSI CMT PUMP	7	-					
5:00	-	-	-	-	-	Travel to loca					•						
7:00	-	-	-	-	-	Pre-Start Insp		rvice & S	tart equipm	nent							
7:15	0	0/0	-	-	-	Check PSI or	Well: Tbg	= 0psi; C	sg = 0psi; l	BH = 0psi.							
7:30	-	-	-	-	-	Continue to 1	ΓΟΟΗ w/ tul	bing									
8:10	-	-	-	-	-						ccessfully and						
9:30	0	0	3.00	58.00	H2O				asingshu	t in and test	casingNO tes	t					
9:45 10:15	<u> </u>	-	-	-	-	TOOH w/ tubi		er									
-			-		-	RIH w/ CBL to		reline to	3082'								
-	-	-	-	-	-	ROOH w/ wire				82' to surfac	e						
11:45	-	-	-	-	-	TIH w/ stinge	r & tubing t	o 3082'a	nd sting int	o retainer							
12:50	1,000	0	2.00	2.50	H2O	Pumped 2.5b	bls water to	o load tul	bing and es	tablish injed	tion ratetubing	g pressure	out to 100	0psino inj. Rat	e estSTING	out	
13:02	250	0	2.00	2.00	H2O	Pumped 2.0b											
13:15	250	0	2.00	3.70	CEMENT						/ft, 5.0gals/sk))						
13:25	200	0	2.50	11.20	H2O	Pumped 11.2		displace	ment Est	imated TOC	@ 2855'						
13:30	<u> </u>	-	-	-	-	SDWOC 4h											
13:45	0	250	3.00	65.00	H2O				e circ. clea	ndurina pi	ump time BH sta	rted to circ	ulate, hole	on casinghad	0.5bbls ceme	nt ot pit	
-	-	-	-	-	-	SDresume											
14:00	-	-	-	-	-	TOOH w/ tubi	ing & LD st	inger			·	·	·				
14:45	-	-	-	-	-	Secure wellh		uipment.	SDON								
15:00	-	-	-	-	-	Travel to the	yard										
				<u> </u>													
						1											
				\vdash													
				 													
							-		-	-	-	-	-		-		
								1		_							
BUMPED		I TO		EST	TOTAL	BBL CMT.	PSI		POT		LL SERVICING O	O REP.:			AN MESTAS		
PLUG:		JMP UG:		OAT PMENT:	BBL. PUMPED:	RETURNS/ REVERSED:	LEFT ON CSG.:		TOP MENT:	CUSTOME	R REP.: R REP. SIGNATU	IRF:		JA:	SON PEACE		
	FL	- - -	LWOIL		142.4	0.5	0		2855'	SSS. SWIE	GIGNATO			CUSTOME	R AUTHORIZING AGEN	T	



CUSTOME					PERATING,	LLC.	DATE:	ı.	October 16		API Number:	30-039		TYPE OF JOB:		P&A				
SERVICE (ELL NAME		RIG 450	GTON COM	11 # 7		LOCATION			LL SERVICE	SERVICE SUP:	COUNTY:	DEAN ME		STATE:	NFW	MEXICO			
MATERIAL					TYPE OF PLU	JGS:		SG. HARD		SQUEEZE	TOP			HYSICAL SLURE						
					ОР					MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX			
				ВО	ТТОМ		<u> </u>				EACH FLUID:	WEIGHT: Lb/gal	YIELD: Cuft/sk	REQ.: Gals/sk	TIME: hr:mm	bbls	WATER: bbls			
PRE-FLUS	H - FRES	H WATER								,										
Plug 2: Pui	nped 2.5bb	ols cement s	lurry ((12	sx; 15.8pp	g, 1.15cuft/	ft, 5.0gals/sk))	1				2634'	15.80	1.15	5.00		2.5	1.4			
AVAILABLE N	HOLE	210.0	BBLS	TRO	AVAILABLE I	DISPLACEMENT \	WATER:						T	COLLAB DEDTI		IX WATER:	1.4			
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE					
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2 3/8	4.70	J-55	2830'					0					
0175		ASING	DEDTU		-CMT RET-BR	1						4				WEIGHT				
SIZE 4 1/2	WEIGHT 9.50	J-55	3182'	BKANI	D & TYPE	DEPIH	3117'	3139'	1	2 3/8	8 ROUND	1				8.40				
		CEMENT VOLU		CAL. PSI	CAL.	MAX PSI	OP. MAX		TBG. PSI								ATER			
TUBING	CASING	CASING	TOTAL	BUMP PLUG		EVERSE	SQ. PSI	RATED	OPER	RATED	OPER	4		TYPE	WEIGHT					
					'	650	650		1,100		650	I	FRE	SH WATER	8.33	CITY	WAIER			
EXPLAN	ATION: TRO	UBLE SETTING	TOOL,																	
RUNNING C	ASING, ETC.,	PRIOR TO CE	MENTING:																	
		PUMP DE	TAILS:			I	DAILY SUMMARY:													
TIME	PRESSI	URE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	IG:	CREW	J	CO. REP.										
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:														
							TBG-CSG-D.P. TBG-CSG-D.P. TYPE DEPTH SIZE WEIGHT TYPE DEPTH SHOE FLOAT STAGE 98' 2 3/8 4.70 J-55 2830' ER PERF DEPTHS SIZE THREAD TYPE SHOE FLOAT STAGE PETH TOP BOTTOM SIZE THREAD TYPE NO PRODUCED WATER 3117' 3139' 2 2/8 8 ROUND PRODUCED WATER SI OP. MAX MAXTBG. PSI MAX CASING PSI DISPLACEMENT FLUID TYPE WEIGHT 650 1,100 650 FRESH WATER 8.33 DAILY SUMMARY: TYMEETING: CREW OCCUPANTE RESULT OF THE WEIGHT FRESH WATER 8.33 DAILY SUMMARY: TYMEETING: CREW OCCUPANTE RESULT OF THE WEIGHT FLUID STATE INSPECTION, Service & Start equipment Result of the Weight of 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cementTagged TOC @ 2830'witnessed by BLM rep. Hey fubing to tag top of cement solving depth at 2787'set retainer successfullySTING out one d.0bbls water to load casingSTING back into retainer one d.0.5bbl water to establish injection ratetubing pressured out to 1100psino break, no injection ratenotified office out of retainerprepare to cement solving to setting depth at 2787'set retainer successfullySTING out one d.0.5bbl water to load casingSTING back into retainer one d.2.5bbls water alead of 0.5bbls water alead of 0.5bbls water displacementEstimated TOC @ 2634' WOC 4hrs													
6:00	-	-	-	-	-				*****											
7:00 7:15		0/0	-		-		TBG-CSG-D.P. TBG-CSG-D.P. DEPTH SIZE WEIGHT TYPE DEPTH SHOE FLOAT STAGE 98' 2 3/8 4.70 J-55 2830' DER PERF DEPTHS TOP BOTTOM SIZE THEAD TYPE WEIGHT 3117' 3139' 2 3/8 8 ROUND PRODUCED WATER 8.40 PSI OP. MAX MAX TBG. PSI MAX CASINO PSI DISPLACEMENT FLUID WATER SE SQ. PSI RATED OPER RATED OPER RATED OPER 650 1,100 650 FRESH WATER 8.33 CITY WA DAILY SUMMARY: TYMEETING: CREW CO. REP. DEPTH WILLIES PSI WATER 8.33 CITY WA DAILY SUMMARY: TYMEETING: CREW CO. REP. DEPTH WILLIES PSI WATER 8.33 CITY WA DAILY SUMMARY: TYMEETING: CREW D													
7:30	-	-	-	-	-					TOC @ 2830)'witnessed by	BLM rep.								
8:08	-	-	-	-	-						•	•								
8:50	-	-	-	-	-	RIH w/ perf g	un & wirelir	ne to per	f depth of 2	825'										
9:00	-	-	-	-	-															
9:15	-	-	-	-	-							ıllySTING	out							
10:05 10:10	150 1,100	0	2.00 0.50	4.00 0.50	H2O H2O							1100nei	no broak	no injection rate	notified offic					
10:18	-	-	-	-	-					atetubilig	pressured out to	J Hoopsi	iio bieak,	no injection rate	iotiliea oili	Le .				
10:20	150	0	2.00	2.00	H2O															
10:23	125	0	2.00	2.50	CEMENT	Pumped 2.5b	bls cement	slurry ((12sx; 15.8p	pg, 1.15cuft/	ft, 5.0gals/sk))									
10:25	100	0	2.50	10.20	H2O	Pumped 10.2	bbls water	displace	mentEstiı	mated TOC (<u> </u>									
10:30	-	-	-	-	-	SDWOC 4h														
10:38 11:25	<u> </u>	-	-	-	-	TOOH w/ tub SD and resur														
11:25		-							top of ceme	ntTanned	TOC @ 2610'v	vitnessed h	v BI M rer).						
14:44		-	-	-	-	TOOH w/ tub			or ourile	uggeu			,							
16:30	-	-	-	-	-	RIH w/ perf g			f depth of 1	530'										
15:40	-	-	-	-	-	ROOH w/ wir				l shots fired										
15:50	-	-	-	-	-	TIH w/ cemer														
16:00	-	-	-	-	-				•		ing sub, the reta	•	-	at 30' from surfa	ce					
17:00	<u> </u>	-	-	-	-	Secure wellh				rive in the m	orning to begin	ariiing out.	•							
17:00		<u> </u>	-		-	Travel to the			-11											
		ļ																		
				-																
		 		1																
					_							-			-		-			
BUMPED	BC	I TO		ST	TOTAL	BBL CMT.	PSI		SPOT	AZTEC WE	LL SERVICING C	O DED .		D.F.	AN MESTAS					
PLUG:		JMP		OAT	BBL.	RETURNS/	LEFT ON		TOP	CUSTOMER		NEP.:			SON PEACE					
											R REP. SIGNATU	RE:								
					19.2		0	2	2610'	1				CUSTOME	R AUTHORIZING AGEN	IT				



CUSTOME					ERATING,	LLC.	DATE:		October 17		API Number:	30-039		TYPE OF JOB:	-	P&A	
LEASE & W			RIG 450	STON CON	A #7		LOCATION				SERVICE SUP:	COUNTY:	DEAN ME		- QTATE:	NEW	MEYICO
MATERIAL			KIG 450	1	TYPE OF PLU	IGS:		K: SG. HARD		SQUEEZE	TOP	_COUNTY:	Dr	RIO ARRIBA	_		MEXICO
MATERIAL	O I ORNION	.20.			OP OF PLU		LIST (JOG. HAKL	MANE:	MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
					ТТОМ						EACH	WEIGHT:	YIELD:	REQ.:	TIME:		WATER:
PRE-FLUS	H . EDEC	H WATER		l			<u> </u>			l	FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
I KL-I LOO	II - IKLO	HIWAILK															
Plug 3: Pur	nped 13.9b	bls cement	slurry ((5	5sx; 15.8p	pg, 1.15cuft	/ft, 5.0gals/sk)) 43sx out,	3.5sx bl	w, 8.5sx on	top	1380'	15.80	1.15	5.0		11.3	6.5
				1													
AVAILABLE N	HOLE	210.0	BBLS	TBG	AVAILABLE D	DISPLACEMENT \	WATER:	200.0 TBG.	-CSGD.P.					COLLAR DEPT		IX WATER:	6.5
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE	1	
12 1/4	100% LAST 0	98'	8 5/8	24.00	J-55	98'	2-3/8:	4.70	J-55	1605'	ONNECTION			ME.	LI BODE ELLID		
SIZE	WEIGHT	TYPE	DEPTH		-CMT RET-BR D & TYPE	DEPTH	TOP	BOTTOM		SIZE	THREAD			TY	PE	WEIGHT	
4 1/2	9.50	J-55	3182'				3117'	3139'		2 3/8	8 ROUND			PRODUCE	ED WATER	8.40	
TUBING	TED DISPLAC CASING	CASING	ME; BBL TOTAL	CAL. PSI BUMP PLUG		MAX PSI EVERSE	OP. MAX SQ. PSI	MAX RATED	TBG. PSI OPER	MAX RATED	CASING PSI OPER	-		TYPE	FLUID WEIGHT	_	ATER URCE
TUBING	CHOING	CASING	TOTAL	DUNIT PLUG		750	ou. Poi	KAIED	1,100	KATED	650	1	FRE	SH WATER	8.33		WATER
			•		•					-					•		
		UBLE SETTING PRIOR TO CEI															
		PUMP DE	TAILS:		1						DAILY SU	JMMARY:					
TIME	PRESSU	JRE - PSI	RATE	BBL FLUID PUMPED:	FLUID	SAFETY MEETIN	IG:	CREW	<u> </u>	CO. REP.	<u>/</u>	-					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES: CIRCULATED TH	HE WELL:		RIG PUMP	PSI CMT PUMP	7						
5:30	-	-	-	-	-	Travel to loca											
6:45	-	-	-	-	-	Pre-Start Ins	pection, Se	rvice & S	tart equipm	ent							
7:00	-	0/0	-	-	-	Check PSI or			•							_	
7:15	-	-	-	-	-						power swivels			oad with water	.prepare to drii	I out ret.	
10:30		-	-	-	-						tstart pump to drill thru retaine		ation				
11:15	-	-	-	-	-						.no obstruction		re to chas	e plug past perf	depth at 1530		
11:28	-	-	-	-	-	SDstand b	ack swivel										
11:48	-	-	-	-	-					ged ret sevr	al times during t	rip in, was a	able to kno	ock down succe	essfully		
12:33	<u> </u>	-	-	-	-	TOOH w/ tub				nth of 1400'	rotato P aat ra	toiner euee	ooofully !	CTINC out			
14:00 14:40	150	0	1.50	3.50	H2O						rotate & set re er & chain tied o			STING OUL			
14:52	950	0	1.50	6.50	H2O						lished injection			psiprepare fo	r cement		
15:06	650	0	1.50	2.00	H2O	Pumped 2.0b	bls water a	head									
15:10	650	0	1.50	11.30						ppg, 1.15cuf	t/ft, 5.0gals/sk))	43sx out, 3	.5sx blw, 8	.5sx on top			
15:16 15:20	975 -	-	1.50	4.00	H2O -	Pumped 4.0b SDSTING of		or displa	cement								
15:20	0	0	0.50	0.25	H2O			or displa	cement to h	alanceEst	. TOC at 1380'						
15:22	-	-	-		-	SDWOC 4h											
15:30	-	-	-	-		TOOH & LD											
16:10	-	-	-	-	-	SDresune		•	eper.								
16:15 16:30	<u> </u>	-	-	-	-	Secure wellh Travel back t		urpment.	5DON								
							yard										
								•								•	
				-													
														-			
				-													
													_				
BUMPED		I TO		ST	TOTAL	BBL CMT.	PSI		SPOT		LL SERVICING (O REP.:			AN MESTAS		
PLUG:										CUSTOMER	R REP.: R REP. SIGNATU	IRF:		JA	SON PEACE		
	FL		LAUIT	.a141.	27.6	0.8	0		1380'	JUJIONIE	L GIGNATO			CUSTOM	IER AUTHORIZING AGEN	п	



CUSTOME					PERATING,	LLC.	DATE:		October 18	•	API Number:	30-039		TYPE OF JOB:		P&A	
LEASE & W				STON COM	1 #7		LOCATION				SERVICE SUP:	COLINITY	DEAN ME		CTATE:	NEW	MEVICO
MATERIAL			RIG 450	1	TYPE OF PLU	IGS:	OPERATO	K: CSG. HARD		SQUEEZE	TOP	COUNTY:	Dr	RIO ARRIBA	-		MEXICO
MATERIAL	O F ORINION	LD.		1	OP OF PLU		LIST	JJG. HAKL	WARE:	MANIFOLD:	OF	SLURRY	SLURRY	WATER	PUMP	SLURRY:	MIX
					ТТОМ		Ţ				EACH	WEIGHT:	YIELD:	REQ.:	TIME:		WATER:
PRE-FLUS	H . EDEC	H WATER		l			<u>i</u>			i	FLUID:	Lb/gal	Cuft/sk	Gals/sk	hr:mm	bbls	bbls
. NE-FEUS	FRES	NAIER															
Plug 4: Pur	mped 18.5b	bls cement	slurry ((90	Osx; 15.8p	pg, 1.15cuft	/ft, 5.0gals/sk	:))				Surface	15.80	1.15	5.00		18.5	10.7
Top off: Pu	mped 3.1b	bls cement :	slurry ((15	isx; 15.8pp	og, 1.15cuft	ft, 5.0gals/sk)) to top off	casing 8	fill cellar		Surface	15.80	1.15	5.00		3.1	1.8
AVAILABLE N	HOLE	210.0	BBLS	TBG	AVAILABLE DCSGD.P.	DISPLACEMENT	WATER:	200.0 TBG.	-CSGD.P.				<u> </u>	COLLAR DEPTI		IX WATER:	12.5
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH			SHOE	FLOAT	STAGE	1	
12 1/4	100%	98'	8 5/8	24.00	J-55	98'	2 3/8	4.70	J-55	169'					0		
SIZE	WEIGHT	TYPE	DEPTH		-CMT RET-BR D & TYPE	PL-LINER DEPTH	TOP	BOTTOM		SIZE	ONNECTION THREAD			TY	L LBORE FLUID	WEIGHT	
4 1/2	9.50	J-55	3182'	DIVANI		221 111	3117'	3139'	<u> </u>	2 3/8	8 ROUND	<u> </u>		PRODUCE		8.40	
		EMENT VOLU		CAL. PSI		MAX PSI	OP. MAX	_	TBG. PSI		CASING PSI			DISPLACEMENT F			ATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG		EVERSE 650	SQ. PSI 650	RATED	OPER 1,100	RATED	OPER 650	1	FDE	TYPE SH WATER	WEIGHT 8.33		URCE WATER
					'	030	030		1,100		030		FKL	SITWATER	0.33	CITT	WAILK
		UBLE SETTING															
RUNNING C	ASING, ETC.,	PRIOR TO CE	MENTING:														
		PUMP DE	TAILS:	l							DAILY SU	IMMARY:					
TIME	PRESSI	JRE - PSI	RATE	BBL FLUID	FLUID	SAFETY MEETIN	NG:	CREW	1	CO. REP.							
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:				PSI							
E-20		_	_			CIRCULATED TH			RIG PUMP	CMT PUMP	3						
5:30 6:45		-	-	-	-	Travel to loca Pre-Start Ins		rvice & S	tart equipm	ent							
7:00	0	0/0	-	-	-	Check PSI or											
7:30	-	-	-	-	-						',,,witnessed by	BLM					
7:54	-	-	-	-	-	TOOH & LD t	tubing										
8:20	-	-	-	-	-	RU wireline s											
-	-	-	-	-	-						rated casing su		tabliah ini		f		
8:42	-	-	-	-	-	TIH w/ tubing		peri gun.	vermed at	i snots fired	shut in and pr	epare to es	tablish inje	ection rate from	Surrace		
8:54	0	150	2.00	16.00	H2O	Pumped 8.5k		& circula	ate thru BH	successfully	,						
9:10	0	100	2.00	2.00	H2O	Pumped 2.0b	bls fresh w	ater ahea	ad								
9:30	0	100	2.00	23.60	CEMENT		bbls cemer	nt slurry	((90sx; 15.8	ppg, 1.15cuf	t/ft, 5.0gals/sk)).	circulated	l 2.0bbls g	ood cement to s	surface		
9:45	-	-	-	-	-	SD											
-		-	-	-	-	Install dryho		еаа оп	nad cemen	t to surrace	on both casings						
-	25	0	1.00	3.10				slurry ((15sx; 15.8p	pg, 1.15cuft/	ft, 5.0gals/sk)) to	top off & f	fill cellar				
-	-	-	-	-	-	SDend of v		, ((,		<u> </u>						
13:30	-	-	-	-	-	Travel to the	yard										
				-													
															<u>-</u>		
				ļ													
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				1													
										_						•	
BUMPED		I TO		ST	TOTAL	BBL CMT.	PSI		POT		LL SERVICING (O REP.:			AN MESTAS		
PLUG:										CUSTOMER	R REP.: R REP. SIGNATU	RF.		JA	SON PEACE		
	PL		LWOIF	L.111.	44.7	2.0	0	Si	30010WE	. ILI . JIGNATU			CUSTOM	ER AUTHORIZING AGEN	Т		

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

CONDITIONS

Action 279757

CONDITIONS

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	279757
	Action Type:
	[C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well plugged 10/18/2023	10/27/2023