Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Received 5/26/2020

FORM APPROVED OMB NO. 1004-0137

Expires: January 31, 2018 5. Lease Serial No. NMNM080273

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

SUBMIT IN T	7. If Unit or CA/Agre	ement, Name and/or No.				
1. Type of Well				8. Well Name and No. HANSON FEDER		
☑ Oil Well ☐ Gas Well ☐ Oth	er			TIANSONTEDEN	AAL I	
Name of Operator MUSTANG RESOURCES LLC		DEB LEMON nustangresurcesllc.com		9. API Well No. 30-039-20048-0	00-S1	
3a. Address 1660 LINCOLN ST. SUITE 14 DENVER, CO 80264	50	3b. Phone No. (include area code) Ph: 720-550-7507 Ext: 105		10. Field and Pool or Exploratory Area LYBROOK GALLUP		
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description			11. County or Parish, State		
Sec 3 T23N R7W NWSW 165 36.252731 N Lat, 107.568283				RIO ARRIBA COUNTY, NM		
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATURE OI	F NOTICE,	REPORT, OR OTH	HER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION			
Nation of Intent	☐ Acidize	□ Deepen	☐ Product	ion (Start/Resume)	■ Water Shut-Off	
☑ Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclam	ation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomp	olete	☐ Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	□ Tempor	arily Abandon		
BP	☐ Convert to Injection	☐ Plug Back	☐ Water I	Disposal		
13. Describe Proposed or Completed Ope	eration: Clearly state all pertine	nt details, including estimated starting	g date of any p	roposed work and appro	ximate duration thereof.	

following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mustang Resources, LLC (Mustang) plans to repair a 4.5? casing leak and return the well back to production. If CBL results determine that the well can not be squeezed properly or the casing repair is unsuccessful, Mustang plans to plug and abandon the well. Attached are a pending P&A procedure and a surface reclamation plan.

> Notify OCD 24hrs prior to beginning operations

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days

14. I hereby certify that t	ne foregoing is true and correct. Electronic Submission #508787 verifie For MUSTANG RESOURCES Committed to AFMSS for processing by S	LLĆ, s	ent to the Farmington					
Name(Printed/Typed)	DEB LEMON	Title	REGULATORY MANAGER					
Signature	(Electronic Submission)	Date	03/30/2020					
	THIS SPACE FOR FEDERA	L OR	STATE OFFICE USE					
	ny, are attached. Approval of this notice does not warrant or	Title	NGINEER	Date 05/22/2020				
	ds legal or equitable title to those rights in the subject lease licant to conduct operations thereon.	Office	Farmington					
	itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.							

KP



'Elevation: 7020' GR Location: Surface: 1650' FSL, 700' FWL, Sec 3, T23N, R7W, Rio Arriba County, New Mexico Field: Lybrook Gallup Zone: 10 3/4" at 236' with 45 sx cmt, TOC: unknown 30-039-20048 API#: Spud Date: July 18, 1967 Originally drilled by Byron Oil Industries. Revised: 1/21/20 by Don Johnson Formation Tops Squeeze 250 sx class 'B' and 35 sx class 'B' 2% CaCl2, circ (7-28-98) 571' Found leak in Csg from 615' - 646' (split casing?) Attempted to squeeze balanced plug 2 times, no success Ojo Alamo 1400' Kirtland 1519' Fruitland Coal 1746' Pictured Cliff 2000' Lewis Shale 2077' Cliff House 2872' Point Lookout 4308' Mancos 4499' TOC: 5085', CBL ran from 5300' to 4870' on 7/24/98 · 2 3/8" at 5296' open ended with SN @ 5265' CIBP set @ 5333'KB on 10/4/2019 and tested with packer @ 834' to 550# for 30 minutes, held good Perf 5379'-5614' (20 holes) Skelly Sand - PBTD: 5695' 4 1/2" 10.5# at 5735' with 125 sx, TOC: 5085' TD: 5735'; PBTD: 5695'

Hanson Federal #1

8/6/1998 Spot 130.2 gal 15% HCl, pump 1890 gal 15% HCl @ 2.6 BPM



Hanson Federal #1

'Elevation: 7020' GR Location: Surface: 1650' FSL, 700' FWL, Sec 3, T23N, R7W, Rio Arriba Note: Class G 15.8ppg Density and a 1.15 cf/sx yield for all County, New Mexico cement activities and will include 2% CaCL2. Plug 7: Surface Top Off, T)H 2 3/8" tbg to 125', establish circulation and place balanced plug mixing 9.74 sx (11.2cf) cement plus 50% excess, pump until good cement to surface, TOH with 2 3/8" tbg and top off casing to surface, weld Permanent marker to BLM Specs. Field: Lvbrook Gallup 10 3/4" at 236' with 45 sx cmt. TOC: unknown Zone: API#: 30-039-20048 Spud Date: July 18, 1967 Originally drilled by Byron Oil Industries. Revised: 1/21/20 by Don Johnson **Formation Tops** Squeezed 250 sx class 'B' and 35 sx class 'B' 2% CaCl2, circ (7-28-98) 571' Found leak in Csg from 615' - 646' (split casing?). Attempted to squeeze balanced plug 2 times, no success Plug 6: Kirtland Top 1519' and Ojo Alamo Top 1400', Perforate @ 1569', TIH 2 3/8" tbg to 1565, establish pump rate, mix 43.4 sx Ojo Alamo 1400' (49.89 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 77.0 sx (19.62 cf) cement plus 50% excess, TOH to 1200' and reverse hole clean. Kirtland 1519' Plug 5: Fruitland Coal Top 1746', Perforate @ 1796', TIH 2 3/8" tbg to 1795, establish pump rate, mix 19.8 sx (22.78 cf) cement plus Fruitland Coal 1746' 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 1600' and reverse hole clean. Pictured Cliff Plug 4: Lewis Shale Top 2077' and Pictured Cliffs Top 2000', Perforate @ 2127', TIH 2 3/8" tbg to 2125, establish pump rate, mix 35 sx (40.32 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 13.79 sx (15.86 cf) cement plus 50% 2000' excess, TOH to 1850' and reverse hole clean. Lewis Shale 2077 Plug 3: Cliff House Top 2872', Perforate @ 2922', TIH 2 3/8" tbg to 2920, establish pump rate, mix 19.8 sx (22.78 cf) cement plus Cliff House 2872' 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 2700' and reverse hole clean Point Lookout 4308' Plug 2: Mancos Shale Top 4499', Perforate @ 4549', TIH 2 3/8" tbg to 4545', establish pump rate, mix 19.8 sx (22.78 cf) cement Mancos plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 4300' and 4499' reverse hole clean. TOC: 5085', CBL ran from 5300' to 4870' on 7/24/98 Plug 1: Skelly Sand Top 5366', TIH 2 3/8" tbg to 5330', establish circulation and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH with 2 3/8" tbg to 5100' and reverse circulate hole clean. Skelly Sand CIBP CIBP set @ 5333'KB on 10/4/2019 and tested with packer @ 834' to 550# for 30 minutes, held good 5366' Perf 5379'-5614' (20 holes) PBTD: 5695 4 1/2" 10.5# at 5735' with 125 sx, TOC: 5085' TD: 5735'; PBTD: 5695'

8/6/1998 Spot 130.2 gal 15% HCl, pump 1890 gal 15% HCl @ 2.6 BPM

Hanson Federal 1 Proposed Plugging Procedure

Company Name: Mustang Resources LLC

Well Name: Hanson Fed #1
API Number: 30-039-20048
Location: S3, T23N, R7W
County: San Juan

Note: Follow all NMOCD Rules and Regulations.

Note: Class G 15.8ppg Density and a 1.15 cf/sx yield for all cement activities and will include 2% CaCL2.

4-1/2", 10.5# Capacity 0.0896 ft3/ft 2-3/8", 4.7# Capacity 0.0217 ft3/ft 0.01596 bbl/ft 0.0039 bbl/ft 0.0039 bbl/ft 1.995 Inches 4.5" CIBP @ 5333 feet KB To Retainer 585 feet KB

Step	<u>Description</u>
	Proposed P&A Procedure (If squeeze procedure was not successful)
1	Prior to work, check lease roads, test rig anchors, arrange for fresh water on location
2	Prior to rig, obtain 7 1/16" x 3M x 7-5/8" MOD Companion Flange for BOPE
3	Notify NMOCD/BLM 48 hours before commencing rig operations
4	MIRU workover rig with 2M Class II BOPE.
5	TOH 2 3/8" Tubing
6	Fill Casing with fresh water
7	RU Wireline and Run CBL from 5333' KB to Surface
8	TIH with 2 3/8" tubing to 5330', establish circulation
9	Plug 1: Skelly Sand Top 5366', TIH 2 3/8" tbg to 5330', (CIBP @ 5333') establish circulation and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess
10	TOH with 2 3/8" tbg to 5100' and reverse circulate hole clean, WOC minimum of 4 hours
11	TIH and tag top of cement
12	TOH 2 3/8" tubing
13	RIH wirelene and perforate @ 4549', ROH wireline TIH 2 3/8" tubing to 4545', close blind rams and establish pump rate
14 15	Plug 2: Mancos Shale Top 4499', establish pump rate, mix 19.8 sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess.
16	TOH 2 3/8" tubing to 4300' and reverse hole clean, WOC minimum of 4 hours
17	TIH and tag top of cement (estimated top of cement @ 4349')
18	TOH 2 3/8" tubing
19	RIH wirelene and perforate @ 2922', ROH wireline
20	TIH 2 3/8" tubing to 2920', close blind rams and establish pump rate Plug 3: Cliff House Top 2872', Perforate @ 2922', TIH 2 3/8" tbg to 2920, establish pump rate, mix 19.8
21	sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess.
22	TOH 2 3/8" tubing to 2700' and reverse hole clean, WOC minimum of 4 hours
23	TIH and tag top of cement (estimated top of cement @ 2772')
24	TOH 2 3/8" tubing
25	RIH wirelene and perforate @ 2127', ROH wireline
26	TIH 2 3/8" tubing to 2125', close blind rams and establish pump rate
27	Plug 4: Lewis Shale Top 2077' and Pictured Cliffs Top 2000', mix 35 sx (40.32 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 13.79 sx (15.86 cf) cement plus 50% excess.
28	TOH 2 3/8" tubing to 1850' and reverse hole clean, WOC minimum of 4 hours
29	TIH and tag top of cement (estimated top of cement @ 1862')
30	TOH 2 3/8" tubing
31 32	RIH wirelene and perforate @ 1796', ROH wireline TIH 2 3/8" tubing to 1795', close blind rams and establish pump rate
33	Plug 5: Fruitland Coal Top 1746', mix 19.8 sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess.
34	TOH 2 3/8" tubing to 1600' and reverse hole clean, WOC minimum of 4 hours
35	TIH and tag top of cement (estimated top of cement @ 1646')
36	TOH 2 3/8" tubing
37	RIH wirelene and perforate @ 1569', ROH wireline
38	TIH 2 3/8" tubing to 1565', close blind rams and establish pump rate
39	Plug 6: Kirtland Top 1519' and Ojo Alamo Top 1400', mix 43.4 sx (49.89 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 17.0 sx (19.62 cf) cement plus 50% excess.
40	TOH 2 3/8" tubing to 1200' and reverse hole clean, WOC minimum of 4 hours
41	TIH and tag top of cement (estimated top of cement @ 1241')
42	TOH 2 3/8" tubing to 125' and establish circulation
43	Plug 7: Surface Top Off, place balanced plug mixing 9.74 sx (11.2cf) cement plus 50% excess, pump cement until good cement to surface.
44	TOH 2 3/8" tbg and top off casing with cement to surface
45	Cut off Casing and weld Permanent marker to BLM Specifications

Hanson Federal 1

Proposed Casing Squeeze and Plugging Calculations Proposed Casing Squeeze Calculations

	1 Toposed Cashing Squeeze Calculations							
OH/Casing/Tubing	g Details							
4-1/2", 10.5#	Capacity	0.0896 ft3/ft	2-3/8", 4.7# Capac	city 0.0217 ft3/ft				
		0.01596 bbl/ft		0.0039 bbl/ft				
	ID	4.052 Inches		1.995 Inches				
Open Hole	Hole Dia	7.875 Inches						
Capacity betwe	en OH & Cas	0.2278 ft3/ft						
Capacity betwe	en OH & Cas	0.0457 bbl/ft						
4.5" CIBP @		5333 feet KB	To Retair	ner 585 feet KB				

Tubing Dis	splaceme	ent			
OD	2.375	0.0055 bbl/ft	Cement Tainer	585 ft KB	
ID	1.995	0.0039 bbl/ft	Squeeze Bottom Perfs	685 ft KB	2 holes
diff		0.00161 bbl/ft	Squeeze Top Perfs	575 ft KB	2 holes
Length		585.0 feet	diff	110 feet between squeeze perfs	
		0.944 bbls			

Proposed Bad C	asing Squee	ze Calculations	Cement Details		
ft3		Retainer to bottom perf	Density	15.8	ppg
ft3	25.0580	OH (Bttm Perf to Top Perf)	Yield	1.15	cf/sx
ft3	12.5290	50% excess OH Volume			
ft3	4.4800	50' into Casing above Retainer			
ft3	0.6027	100 ft in tubing above perf			
ft3	51.6297	Total ft3	_		
ft3	52	Rounded up			
bbls	9.61	Total BBLS			
SXS	44.90	Total Sxs Cement			

Proposed P&A Well Calculations

NOTE: Each Cement Job required to place cement as follows

- 1. OD of pipe 50' below and 50' above Formation Top with 100% excess
- 2. ID of pipe 50' below and 50' above Formation Top with 50% excess
- 3. ALL cement will be Class G, Density 15.8 ppg and Yield 1.15 cf/sx with 2% CaCl2

Plug 1:	Skelly Sand	F	5366	ft			
	CIBP @	5333	Cement Top	5233			
	Open Hole Capacity						

100	feet plus	eet plus 50% excess					
	Inside Pipe Capacity						
ft3	8.96	100' Inside Casing					
ft3	4.48	50% excess					
ft3	13.44	Total ft3 Inside Pipe					
ft3	14	Rounded up					
bbls	2.59	Total BBLS					
SXS	12.17	Total Sxs Cement					

Total Sxs Cement 12.17

Plug 1: Skelly Sand Top 5366', TIH 2 3/8" tbg to 5330', establish circulation and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH with 2 3/8" tbg to 5100' and reverse circulate hole clean.

Plug 2:	Mancos	Shale	Formation Top 449			
		Perforate @	4549	Cement Top	4449	
		Оре	en Hole C	apacity		
	ft3	22.78	OH (bttm	perf to top pe	rf)	
	ft3	22.78	100% exc	cess		
	ft3	45.56	Total ft3	behind Pipe		
	ft3	46	Rounded	d up		

100	feet plus	feet plus 50% excess					
	Inside Pipe Capacity						
ft3	ft3 8.96 100' Inside Casing						
ft3	4.48	50% excess					
ft3	13.44	Total ft3 Inside Pipe					
ft3	14	Rounded up					

Hanson Federal 1

Proposed Casing Squeeze and Plugging Calculations8.50 Total BBLS

Description: bbls 2.59 Total BBLS 40.00 Total Sxs Cement SXS SXS 12.17 Total Sxs Cement

Total Sxs Cement 52.17

Plug 2: Mancos Shale Top 4499', Perforate @ 4549', TIH 2 3/8" tbg to 4545', establish pump rate, mix 19.8 sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 4300' and reverse hole clean.

Plug 3:

CIIII Hou	ise (IVIV)		Formation Top	28/2 T	_			
Perforate @ 2922 Cement Top 2822						100	feet plus	50% excess
	Open Hole Capacity					Inside	Pipe Capacity	
ft3	22.78	OH (bttr	m perf to top perf)		_	ft3	8.96	100' Balanced Plug
ft3	22.78	100% e	xcess			ft3	4.48	50% excess
ft3	45.56	Total ft	Total ft3 behind Pipe			ft3	13.44	Total ft3 Inside Pipe
ft3	46	Rounde	Rounded up			ft3	14	Rounded up
bbls	8.50	Total B	Total BBLS			bbls	2.59	Total BBLS
SXS	40.00	Total S	Total Sxs Cement			SXS	12.17	Total Sxs Cement
			Total Sys	Coment	52 17			

Plug 3: Cliff House Top 2872', Perforate @ 2922', TIH 2 3/8" tbg to 2920, establish pump rate, mix 19.8 sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 2700' and reverse hole clean.

Plug 4:

Lewis Shale

(Ch	acra) and			and					
Pictu	ured Cliffs	Fo	rmation Tops	2000	ft		_		
_	Perforate @	forate @ 2127 Cement Top 1950				177	feet plus	50% excess	
	Open Hole Capacity						Inside	Pipe Capacity	
ft3	40.3206	OH (bttm	perf to top pe	rf)	<u>-</u>	ft3	15.8592	177' Balanced Plug	
ft3	40.3206	100% ex	cess			ft3	7.9296	50% excess	
ft3	80.6412	Total ft3	Total ft3 behind Pipe			ft3	23.7888	Total ft3 Inside Pipe	
ft3	81	Rounde	Rounded up			ft3	24	Rounded up	
bbls	14.97	Total BE	Total BBLS			bbls	4.44	Total BBLS	
SXS	70.43	Total Sx	Total Sxs Cement			SXS	20.87	Total Sxs Cement	
			Total Cy	c Comont	04 20				

Plug 4: Lewis Shale Top 2077' and Pictured Cliffs Top 2000', Perforate @ 2127', TIH 2 3/8" tbg to 2125, establish pump rate, mix 35 sx (40.32 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 13.79 sx (15.86 cf) cement plus 50% excess, TOH to 1850' and reverse hole clean.

Plug 5:

Fruitland Coal		F	ormation Top	1746	ft			
	Perforate @	1796	Cement Top	1696		100	feet plus	50% excess
Open Hole Capacity					_	Inside	Pipe Capacity	
ft3	22.78	OH (bttm	n perf to top pe	rf)	•	ft3	8.96	100' Balanced Plug
ft3	22.78	100% excess				ft3	4.48	50% excess
ft3	45.56	Total ft3 behind Pipe				ft3	13.44	Total ft3 Inside Pipe
ft3	46	Rounde	d up			ft3	14	Rounded up
bbls	8.50	Total BBLS				bbls	2.59	Total BBLS
SXS	40.00	Total Sxs Cement				SXS	12.17	Total Sxs Cement

Total Sxs Cement 52.17

Plug 5: Fruitland Coal Top 1746', Perforate @ 1796', TIH 2 3/8" tbg to 1795, establish pump rate, mix 19.8 sx (22.78 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 7.79 sx (8.96 cf) cement plus 50% excess, TOH to 1600' and reverse hole clean.

Plug 6:

Kırt	land and			1519			
Ojo	o Alamo	F	& 1400	ft			
	Perforate @	1569	Cement Top	1350			
Open Hole Capacity							
ft3 49.8882 OH (bttm perf to top perf)							

219	feet plus 50% excess								
	Inside Pipe Capacity								
ft	3 10 6224 210' Ralanced Plug								

Hanson Federal 1

Proposed Casina Saueeze and Pluagina Calculations

	Opc.	sea easing squeeze and			J.1.5
ft3	49.8882	100% excess	ft3	9.8112	50% excess
ft3	99.7764	Total ft3 behind Pipe	ft3	29.4336	Total ft3 Inside Pipe
ft3	100	Rounded up	ft3	30	Rounded up
bbls	18.48	Total BBLS	bbls	5.55	Total BBLS
SXS	86.96	Total Sxs Cement	SXS	26.09	Total Sxs Cement

Total Sxs Cement 113.04

Plug 6: Kirtland Top 1519' and Ojo Alamo Top 1400', Perforate @ 1569', TIH 2 3/8" tbg to 1565, establish pump rate, mix 43.4 sx (49.89 cf) cement plus 100% excess, open blind rams and place balanced plug mixing 77.0 sx (19.62 cf) cement plus 50% excess, TOH to 1200' and reverse hole clean.

Plug 7:	Surface	F	ormation Top	Surface ft		
	Bottom cement	125	125 Cement Top			
	Оре	n Hole C				
		NONE				

125	feet plus 50% excess							
	Inside Pipe Capacity							
ft3	11.2	125' Balanced Plug						
ft3	5.6	50% excess						
ft3	16.8	Total ft3 Inside Pipe						
ft3	17	Rounded up						
bbls	3.14	Total BBLS						
SXS	14 78	Total Sxs Cement						

Total Sxs Cement 14.78

Plug 7: Surface Top Off, TOH 2 3/8" tbg to 125', establish circulation and place balanced plug mixing 9.74 sx (11.2cf) cement plus 50% excess, pump until good cement to surface, TOH with 2 3/8" tbg and top off casing to surface, weld Permanent marker to BLM Specs.

BLM FLUID MINERALS Geologic Report

Date Completed: 5/20/20

Well No.	Hanson Federal # 1			Location	1650′	FSL	&	700′	FWL
Lease No.	se No. NMNM080273			Sec. 3	T23N		R7W		
Operator	Mustang Resources		County	Rio Arriba		State	New M	exico	
Total Depth	5735' PBTD 5695'		Formation	Lybrook Gallup					
· · · · · · · · · · · · · · · · · · ·			Elevation (KI	B) 7032' (est.	.)				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose	Surface	< 376′			Surface
Nacimiento	< 376′			1258′	Above 376'
Ojo Alamo Ss			1258′	1540′	Aquifer (fresh water)
Kirtland Shale			1540′	1746′	
Fruitland			1746′	2052'	Coal/Gas/Possible water
Pictured Cliffs Ss			2052'	2150′	Gas
Lewis Shale			2150′	2608′	
Chacra			2608′	3410′	Possible water or gas
Lewis Shale stringer			3410′	3626′	
Cliff House Ss			3626′	3830'	Possible water or gas
Menefee			3830′	4310′	Coal/Ss/Water/Possible O&G
Point Lookout Ss			4310′	4510′	Probable water/Possible O&G
Mancos Shale			4510′	PBTD	Source rock
Gallup			4930′	4960′	O&G/Water
Gallup			5383'	5430	O&G/Water

Remarks: P & A

- Please ensure that the tops of the Pictured Cliffs, and Fruitland formations, as well as the entire Ojo Alamo aquifer, identified in this report, are isolated by proper placement of cement plugs. This will protect the freshwater sands in this well bore.

-The top of the Nacimiento Formation was not visible on the reference or any other well logs. The depth of the formation is estimated, it may be behind the surface casing.

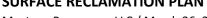
- All depths include a 12' KB.
- Please note that the BLM geologist's pick for the Cliff House formation varies significantly from the operator's pick. In addition, a Chacra interval is identified in this well. Lastly, the Lewis shale is encountered twice, above and below the Chacra.

Reference Well:

1) Epic Energy Nageezi Federal 3 # 4 2173' FNL, 1639' FWL Sec 3, T23N, R7W GL= 6990' Fm. Tops

Prepared by: Walter Gage

HANSON FEDERAL 1 SURFACE RECLAMATION PLAN





Mustang Resources, LLC / March 26, 2020

Mustang Resources, LLC (Mustang) intends to Plug and Abandon (P&A) the Hanson Federal 1 (API No. 30-039-20048) natural gas well. The well and associated pad are in the NWSW corner of Section 3, Township 23 North, Range 7 West. The following steps will be taken to reclaim existing surface disturbances to meet Bureau of Land Management (BLM) and New Mexico Oil Conservation Division (NMOCD) site stabilization and ecosystem reconstruction requirements.

Access to the subject area is via established roads on Federal lands. Mustang anticipates beginning this work upon BLM and OCD approval and outside of access limitations including impeding weather. It is anticipated that reclamation work will not result in additional disturbances; however, Mustang will notify the BLM and OCD immediately upon discovery.

48 hour notification will be given to BLM and NMOCD prior to work.

BLM- Farmington Field Office
Bob Switzer
505-564-7608 (w), 505-793-1809 (c)
rswitzerl@blm.gov

NMOCD Aztec Office
Brandon Powell
505-334-6178 ext. 111 (w), 505-320-0200 (c)
brandon.powell@state.nm.us

Manage Waste Materials

- 1. All surface equipment including above ground tanks, debris, anchors and undesirable materials within the subject area will be removed and managed per acceptable processes.
- 2. Anchors will be cut off and removed.
- 3. All above grade flowlines will be removed, cut off below graded surface. Below grade flowlines will be left in-situ.
- 4. Natural gas pipeline will be cut off below grade and capped at both ends. Below grade pipeline will be left in-situ.
- 5. A permanent P&A marker will be installed to BLM specs.
- 6. Gravel will be removed from the subject site. Gravel will be reused on the access road or hauled away.

Reestablish Slope Stability, Surface Stability, and Desired Topographic Diversity

- 1. Level out and stabilize disturbed surfaces without disturbing established vegetation within the original well pad.
- 2. Due to sandy surface conditions, surface-roughening techniques such as ripping will not be employed.
- 3. The access road will not be reclaimed.

Establish Desired Self-Perpetuating Native Plant Community

1. All areas of the subject area will be reseeded with a BLM approved seed mix, with the exception of the center road and areas currently established with vegetation.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

Attachment to notice of Re: Permanent Abandonment

Intention to Abandon: EC#508787 Well: Hanson Federal 1

CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
- 2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
- 3. Submit electronic copy of the CBL for verification to the following addresses: jkillins@blm.gov, jhoffman@blm.gov and Brandon.Powell@state.nm.us. Based on CBL results inside/outside plugs and volumes will be adjusted accordingly. Please review the General Requirements document to ensure volumes meet required excess inside and outside casing.
- 4. BLM tops are based on the attached geologic report. Ensure all plugs cover 50 feet above and below indicated formation tops with excess meeting General requirements.
 - a. BLM picks Cliffhouse formation top at 3626 ft md. Plug three to cover 3676
 3576 ft md.
 - b. BLM picks Ojo Alamo formation top at 1258 ft md. Extend plug six to cover to 1208 ft md.

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

- 1.0 The approved plugging plans may contain variances from the following <u>minimum general</u> requirements.
 - 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
 - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
 - 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
 - 4.1 The cement shall be as specified in the approved plugging plan.
 - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.3 Surface plugs may be no less than 50' in length.
 - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
 - 4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.

- 5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.
 - 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
 - 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
 - 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
 - 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
 - 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
 - 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S .
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.