

Submit a Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-045-30238
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. EO35550001
7. Lease Name or Unit Agreement Name Shank Com
8. Well Number 2
9. OGRID Number 373495
10. Pool name or Wildcat Basin Fruitland Coal
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6064' GL

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Mustang Resources LLC

3. Address of Operator

PO Box 13550, Bakersfield, CA 93389

4. Well Location

Unit Letter M: 865 feet from the South line and 810 feet from the West line  
Section 2 Township 26N Range 13W NMPM County San Juan

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐  
CLOSED-LOOP SYSTEM ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐  
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mustang Resources LLC intends to Plug and Abandon the Shank Com 2 well, due to it's being un-economical. We will plug using the attached procedures, and Cement Calculations.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Darlene Tadlock TITLE Production Technician DATE 12/19/23

Type or print name Darlene Tadlock E-mail address: dtadlock@vaqueroenergy.com PHONE: 505-860-6600

**For State Use Only**

APPROVED BY Monica Kuehling TITLE Deputy Oil and Gas Inspector DATE 12/26/2023  
Conditions of Approval (if any):

**Company:** Mustang Resources LLC  
**Well Name:** Shank Com 2  
**API Number:** 30-045-30238  
**Location:** 865' FSL, 810' FWL, Sec 2, T26N, R13W (M)  
**County:** San Juan, NM

**Note:** Follow all BLM/NMOCD Rules and Regulations.

4-1/2", 10.5# Capacity	0.0896 ft3/ft	2-3/8", 4.7# Capacity	0.0217 ft3/ft
J-55	0.0159 bbl/ft		0.00390 bbl/ft
ID	4.052 Inches		1.995 Inches

**Step**      **Description**

**Proposed P&A Procedure**

- 1 Back drag & clean location for crew & rig safety. Test anchors if needed, arrange for H2O on site
- 2 Prior to rig, verify wellhead connections for any flanges and BOPE necessary.
- 3 **Notify NMOCD/BLM 24 hours before commencing P&A operations**
- 4 MIRU well service rig and associated P&A equipment
- 5 Bleed pressure from well to tank (well has very little pressure)
- 6 Pull Rods laying down
- 7 ND WH & NU BOP
- 8 Pull 2-3/8" Tubing (lay down any bad joints)
- 9 Ensure there is enough 2-3/8" workstring to complete job
- 10 TIH with 4.5" 10.5# casing scraper to 1260' w/2-3/8" tubing (use new workstring as needed)
- 11 TOH with 4.5" casing scraper
- 12 TIH with 4.5" Cement Retainer (CR) w/2-3/8" tubing and Set @ 1180' KB
- 13 Establish rate into the Fruitland Coal and Pictured Cliff perms to ensure cement can be pumped
- 14 Sting out of CR and pull up hole to 1175' and circulate casing full with fresh water
- 15 Close Pipe Rams and pressure test casing to 660# for 30 minutes
- 16 **NOTE:** Wilson Wireline ran Temp Survey on 8/5/2000, determined TOC at 500'
- 17 If pressure test is good, proceed, if does not pass, must wait a min of 4 hours & tag cmt tops
- 18 Sting back into CR at 1180' and begin plug 1

**Plug 1: Fruitland Coal & Pictured Cliff Perfs 1214' - 1254', CICR and Cap. With CICR set at 1180' KB, Sting in w/tbg and pump 10.22 sxs, (14 ft3, 2.49 bbls) cement, includes 100% excess. Sting out and place balanced plug with 30.66 sxs, (42 ft3, 7.48 bbls) cement, includes 50' excess. TOH tubing**

- 19 If no tag cement required, TOH Tbg
- 20 Fill hole with water. RU Wireline and perforate 4.5" casing @ 194' KB. POH perforating guns
- 21 TIH Tbg to 194' KB. Establish circulation up annulus thru Bradenhead valve

**Plug 2: Kirtland Shale @ 144', Ojo Alamo @ 0', 7" Shoe @ 128'. With tbg @ 194' KB, pump 19.71 sxs (27 ft3, 4.81 bbls) cement up annulus thru bradenhead valve. Includes 100% excess in OH. Switch valves and place balanced plug by pumping 13.14 sxs (18 ft3, 3.21 bbls) cement, both pump until cement to surface. TOH tbg.**

- 22 TOH Tbg. WOC for a minimum of 4 hours
- 23 After WOC, ND BOP and dig out cellar
- 24 Cut off WH, measure TOC in both strings, Weld Permanent P&A Marker to BLM Specs

**Plug 3: WOC 4 hours, cut off wellhead, measure cement tops, weld permanent marker to BLM Specs and Top Off Casing Strings. Will included 2 bbls cement in cellar.**

- 25 RD and move off location
- 26
- 27
- 28

## Proposed PxA Calculations

## Proposed P&amp;A Well Calculations

## OH/Casing/Tubing Details

4.5", 10.5#	Capacity	0.0896 ft3/ft	2-3/8", 4.7#	Capacity	0.0217 ft3/ft
J-55		0.0159 bbl/ft			0.0039 bbl/ft
	ID	4.052 Inches		drift	1.995 Inches
				Landed @	feet KB

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 Type III, Density 14.6 ppg and Yield 1.37 cf/sx

## Open Hole/Casing Details

Capacity Between 6-1/4" OH & 4.5" Casing	0.1026 ft3/ft	1 BBL =	5.614 ft3
	0.0183 bbl/ft	1 ft3 =	0.1781 bbl
	9.7460 ft/ft3		
Capacity between 7" Csg & 4.5" Csg			
7", 23#	0.1106 ft3/ft		
7" ID = 6.3660"	0.0197 bbl/ft		
	9.0426 ft/ft3		

FC Perfs, PC Perfs , CICR Cap & FC Top	FC Top Perf	1214	ft	FC Formation Top	820	ft
CR @	1180	Cement Top	770	410	feet plus 50' excess	
Below CICR to Perfs				Inside Pipe Capacity		
Bottom PC Perf @	1254	Feet below CR	74	sxs		
sxs	4.84	ft3	6.63	26.81	ft3	36.736 260' Inside Casing
	4.84	ft3	6.63	3.27	ft3	4.48 50' excess
		ft3	13.26		ft3	41.216 Total ft3 Inside Pipe
		ft3	14		ft3	42 Rounded up
		bbls	2.49		bbls	7.48 Total BBLs
BELOW CR	SXS	10.22		ABOVE	SXS	30.66 Total Sxs Cement
Total Sxs Cement				40.88		

Plug 1: FC & PC Perfs 1214' - 1254', CICR and Cap. With CICR set at 1180' KB, Sting in w/tbg and pump 10.22 sxs, (14 ft3, 2.49 bbls) cement, includes 100% excess. Sting out and place balanced plug with 30.66 sxs, (42 ft3, 7.48 bbls) cement, includes 50% excess. TOH tubing

Kirtland Shale, Ojo Alamo, and 7" shoe	Formation Tops	Ojo 0' Kirtland 144'	ft			
Bttm of Plug & Perfs @	194	Cement Top	0	194	feet plus 50' excess	
Behind Casing (Annulus) Capacity				Inside 4.5" Casing Capacity		
Casing Perf	194	7" Shoe	128	66	OH Ft	
ft3	6.77	Open Hole		sxs		
ft3	6.77	100% excess OH		12.7	ft3	17.3824 Inside Casing
ft3	13.13	7" Casing-ft3		0.0	ft3	0 No excess
ft3	26.68	Total ft3			ft3	17.3824 Total ft3 Inside Pipe
ft3	27	Rounded up ft3			ft3	18 Rounded up
bbls	4.81	Total bbls			bbls	3.21 Total BBLs
SXS	19.71	Total SXS Cement			SXS	13.14 Total Sxs Cement
Total Sxs Cement				32.85		

Plug 2: Kirtland Shale 144', Ojo Alamo 0', 7' Shoe 128'. With tbg @ 194' KB, pump 19.71 sxs (27 ft3, 4.81 bbls) cement up annulus thru bradenhead valve. Includes 100% excess in OH. Swith valves and place balanced plug by pumping 13.14 sxs (18 ft3, 3.21 bbls) cement, both pump until cement to surface. TOH tbg.

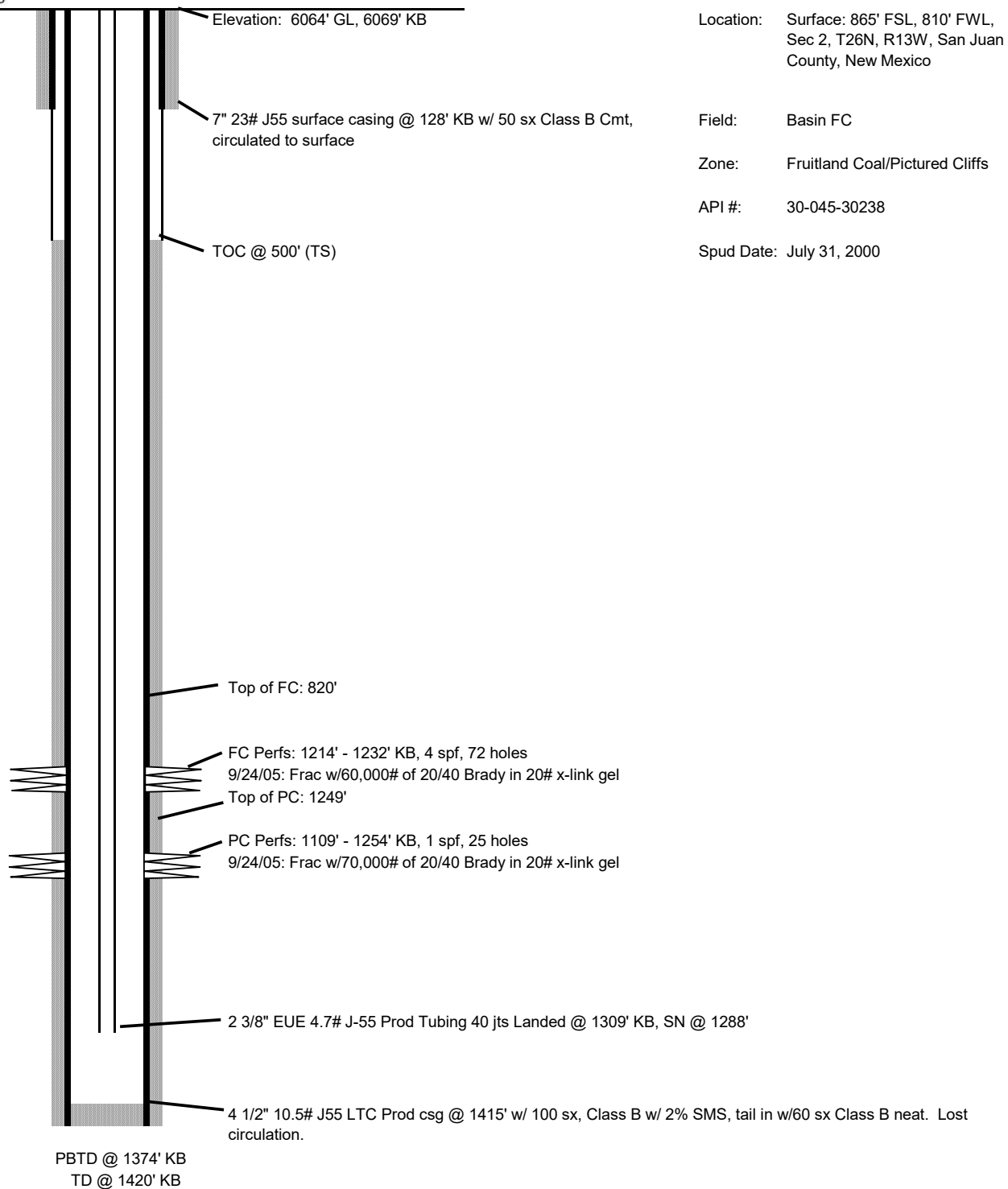
Top off Casing String						
Tag Annulus@		Tag 4.5"@		ft		
Top off Casing Strings						
ft3	0	Annulus Top Off				
ft3	0	4.5" Top Off				
ft3	0	Total ft3				
ft3		Rounded up ft3				
ft3	11.3	Cement To Fill Cellar				
bbls	2.00	Total bbls				
SXS	8.21	Total SXS Cement				
Total Sxs Cement				8.21		

Plug 3: WOC 4 hours, cut off wellhead, measure cement tops, weld permanent marker to BLM Specs and Top Off Casing Strings. Will included 2 bbls cement in cellar.



# Shank Com 2

Revised 6-13-19



Original Sketch



# Shank Com 2 Proposed P&A

Page 5 of 6

Revised 6-14-23

Ojo Alamo - 0'

Elevation: 6064' GL, 6069' KB

Location: Surface: 865' FSL, 810' FWL,  
Sec 2, T26N, R13W,  
San Juan County, New Mexico

**Plug 3: WOC 4 hours, cut off WH, measure TOC, weld permanent marker to BLM Specs and Top Off Casing Strings. Will included 2 bbls cement in cellar.**

7" 23# J55 surface casing @ 128' KB w/ 50 sx Class B Cmt, circulated to surface

Field: Basin FC & Pictured Cliff

Kirtland - 144'

**Plug 2: Kirtland Shale @ 144', Ojo Alamo @ 0', 7" Shoe @ 128'. With tbg @ 194' KB, pump 19.71 sxs (27 ft3, 4.81 bbls) cement up annulus thru bradenhead valve. Includes 100% excess in OH. Switch valves and place balanced plug by pumping 13.14 sxs (18 ft3, 3.21 bbls) cement, both pump until cement to surface. TOH tbg.**

Zone: Fruitland Coal/Pictured Cliffs

Perforate Csg @ 194'

API #: 30-045-30238

Spud Date: July 31, 2000

TOC @ 500' (TS) Wilson Wireline ran Temp Survey on 8/5/2000

Fruitland - 820'

Top of FC: 820'

**Plug 1: FC & PC Perfs 1214' - 1254', CICR and Cap. With CICR set at 1180' KB, Sting in w/tbg and pump 10.22 sxs, (14 ft3, 2.49 bbls) cement, includes 100% excess. Sting out and place balanced plug with 30.66 sxs, (42 ft3, 7.48 bbls) cement, includes 50' excess.**

Set CICR @ 1180' KB

FC Perfs: 1214' - 1232' KB, 4 spf, 72 holes

9/24/05: Frac w/60,000# of 20/40 Brady in 20# x-link gel

Top of PC: 1249'

Pictured Cliffs - 1249'

PC Perfs: 1109' - 1254' KB, 1 spf, 25 holes

9/24/05: Frac w/70,000# of 20/40 Brady in 20# x-link gel

2 3/8" EUE 4.7# J-55 Prod Tubing 40 jts Landed @ 1309' KB, SN @ 1288'

4 1/2" 10.5# J55 LTC Prod csg @ 1415' w/ 100 sx, Class B w/ 2% SMS, tail in w/60 sx Class B neat. Lost circulation.

PBTD @ 1374' KB

TD @ 1420' KB

Proposed P&A Sketch

dlj

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1625 N. French Dr., Hobbs, NM 88240  
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811 S. First St., Artesia, NM 88210  
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**District III**  
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**District IV**  
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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 296266

CONDITIONS

Operator: Mustang Resources LLC 1660 Lincoln Street Denver, CO 80264	OGRID: 373495
	Action Number: 296266
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	CBL required - Notify NMOCD 24 hours prior to moving on.	12/26/2023