

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

Well Number: 04

Sundry Print Report

Well Name: SHARBRO FEDERAL Well Location: T23S / R32E / SEC 17 / County or Parish/State: LEA /

NWNE /

Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM62223 Unit or CA Name: Unit or CA Number:

**US Well Number:** 300253496100S1 **Well Status:** Producing Oil Well **Operator:** FOUNDATION

**ENERGY MANAGEMENT LLC** 

### **Notice of Intent**

Type of Submission: Notice of Intent

Type of Action Plug Back

Date Sundry Submitted: 05/06/2021 Time Sundry Submitted: 08:57

Date proposed operation will begin: 06/14/2021

**Procedure Description:** Procedure 1. MIRU WO Rig. 2. Unbeam and ND stuffing box. POOH and lay down rods. 3. ND WH. NU BOP. 4. Unseat TAC, hydrotest and tally TBG while POOH. 5. Pick up bit and scraper (caliper tools), make run to 7250' (minimum) 6. POOH with Bit/Scraper, LD tbg. PERFORATING 7. MIRU wireline. NU lubricator, ensure pressure gauge is installed. 8. PU and RIH 5 ½" (10K rated) CIBP, Set at 7288'. (Ensure to not set on collars, caliper tools) 9. Bail dump 35 ft of cement w/ wireline dump bailer (BLM requires 35 ft. of cement, caliper tools). 10. Wait 2 hours for cement to set. 11. Load well w 2% KCL and pressure test CIBP to 500 psi then increasing by 500 psi (hold 5 min each) until 4000 psi is reached, hold for 15 minutes. 12. Swab down until 500 psi underbalanced, (1100 ft. of water column). 13. PU and RIH with CCL, GR and 3 1/8" gun to perf new zone. (caliper tools) a. Perf – 7106-18' – 3 SPF, 60 Deg. Phasing b. Monitor surface pressure during shot 14. POOH with wireline guns. Ensure all shots have fired. 15. RD Wireline. 16. Setup 5k Frac Valve. 17. RDMO WO rig, move tbg/racks, and other material to edge of location to clear pad for Frac.

### **Surface Disturbance**

Is any additional surface disturbance proposed?: No

# **NOI Attachments**

**Procedure Description** 

Sharbro\_4\_FLP\_for\_BLM\_NOI\_20210504\_20210506085706.pdf

Page 1 of 2

ved by OCD: 9/14/2021 1:18:59 PM ell Name: SHARBRO FEDERAL County or Parish/State: La Well Location: T23S / R32E / SEC 17 /

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**ENERGY MANAGEMENT LLC** 

# **Conditions of Approval**

### **Specialist Review**

Plugback\_COA\_20210506151911.pdf

# **Operator Certification**

I certify that the foregoing is true and correct. Title 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature: JAMES SMITH** Signed on: MAY 06, 2021 08:56 AM

Name: FOUNDATION ENERGY MANAGEMENT LLC

Title: HSE Regulatory Supervisor

Street Address: 15E. 5TH STREET, SUITE 1200

City: TULSA State: OK

Phone: (918) 526-5592

Email address: JSMITH@FOUNDATIONENERGY.COM

# **Field Representative**

Representative Name: Ithan Navarro

**Street Address:** 

City: State: Zip:

Phone: (469)704-2122

Email address: INavarro@foundationenergy.com

# **BLM Point of Contact**

Signature: Jonathon Shepard

**BLM POC Name:** Jonathon W Shepard **BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752345972 BLM POC Email Address: jshepard@blm.gov

**Disposition:** Approved Disposition Date: 05/06/2021

### **BUREAU OF LAND MANAGEMENT**

Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

# **Conditions of Approval for Permanent Abandonment of a Production Zone**

- 1. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612
- 2. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
- 3. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.
- 4. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the approved depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours. In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement (or 35 feet with a bailer). Before pumping cement on top of CIBP, a tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary. Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.
- 5. <u>Subsequent Plug back Reporting:</u> Within 30 days after plug back work is completed, file a Subsequent Report (Form 3160-5) to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. <u>Show date work was completed.</u> If plugging back to a new zone submit a Completion Report (Form 3160-4) with the Subsequent Report.
- 6. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
- 7. If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken: From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.

### **Sharbro Federal #4**

## **Brushy Canyon (Delaware) Frac Recompletion Setup**

#### **Purpose of Work**

Purpose of this workover is to pull current BHA, set/cement a CIBP on top of the old perforations, and to add up hole perforations in the same Brushy Canyon formation (Brushy Canyon 6). This will all be prep work for a future one stage frac on these new perforations.

### **Well Location**

County and State: Lea, NM

Section – Township – Range: 7H-23S-32E Latitude/Longitude: 32.3090248, -103.6945877

Diving directions from Carlsbad, New Mexico (55 min Drive)

Follow US Highway 285 S, NM-31 and NM 128E to Red Road

Turn left onto Red Rd

Turn Right (6 miles) onto Mills Rach Road (797)

Follow Road until it dead ends (1 mile)

Turn right when road dead ends

Follow road until it dead ends (0.5 miles)

Turn left when road dead ends

Follow road until it dead ends (1 mile)

Turn right when road dead ends

Follow road (.25 miles) until first Pad reached (Sharbro 5) and turn right

Sharbro 4 Pad is at the end of the road (0.1 miles)

### Nearest Hospital (1 hour 10 min from location)

Lea Regional Medical Center 5419 N Lovington Hwy Hobbs NM 88240 575-492-5000

Carlsbad Medical Center 2430 W. Pierce St. Carlsbad, NM 575-887-4100

## **Emergency Services Number (other than 911)**

Lea's SHERIFF'S DEPT: (575) 396-3611 Lea's FIRE DEPT: (575) 396-2359

### **General Information**

**API**: 30-025-34961

**Producing Formation:** Brushy Canyon

Current Perfs: 7,308-20' (6 holes – SQUEEZED), 7,446-98' (14 holes SQUEEZED), 8,442'-50' (20 holes),

8,477-93' (6 holes) **MD/TVD**: 8693'

Wellhead Pressure Rating: 5000 psi

**KB**: 16 '

Estimated Pr: ~ 2500 psi

Assumed Frac Gradient: 0.55 psi/ft (Based on offset data, latest frac BQ3 FG: .52 psi/ft)

**BHT**: 148 Deg F (.0175 Deg F/ft)

H2S/CO2: 10 ppm/No CO2 report on file

### **Casing / Tubular Details and Capacities**

| TUBULAR             | Size    | Grade | Depth<br>(ft) | Weight (ppf) | Burst<br>(psi) | Yield<br>(K#) | Collapse<br>(psi) | CMT<br>(sx) | ТОС   | (ft) |
|---------------------|---------|-------|---------------|--------------|----------------|---------------|-------------------|-------------|-------|------|
| Surface Casing      | 13-3/8" | H-40  | 880           | 48           | 1,730          | 541           | 770               | 500         | SFC   | Circ |
| Intermediate Casing | 8-5/8"  | J-55  | 4,801         | 32           | 3,930          | 503           | 2,530             | 2000        | SFC   | Circ |
| Production Casing   | 5-1/2"  | J-55  | 8,746         | 15.5         | 4810           | 248           | 4,040             | 775         | 4,025 | Calc |
| Producing Tubing    | 2- 7/8" | J-55  | 7,460         | 6.5          | 7,260          | 99            | 7,680             | n/a         | n/a   | n/a  |

| Capacities                     | OD (in) | ID (in) | Drift(in) | bbl/ft  |
|--------------------------------|---------|---------|-----------|---------|
| 2 7/8" – J-55                  | 2.875   | 2.441   | 2.347     | 0.00579 |
| 2 7/8" – J-55 TBG and 5 ½" CSG | -       | -       | -         | 0.0152  |
| 5 ½" CSG – J-55                | 5.500   | 4.892   | 4.767     | 0.0232  |

### **PROCEDURE**

#### **Procedure**

- 1. MIRU WO Rig from Sharbro 4.
- 2. Unbeam and ND stuffing box. POOH and lay down rods.
- 3. ND WH. NU BOP.
- 4. Unseat TAC, hydrotest and tally TBG while POOH.
- 5. Pick up bit and scraper (caliper tools), make run to 7250' (minimum)
- 6. POOH with Bit/Scraper, LD tbg.

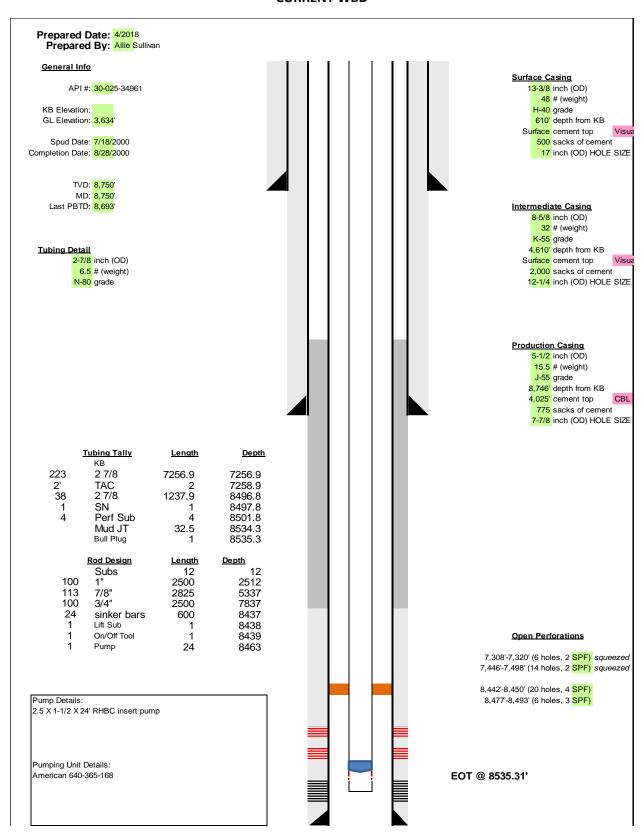
#### **PERFORATING**

- 7. MIRU wireline. NU lubricator, ensure pressure gauge is installed.
- 8. PU and RIH 5 ½" (10K rated) CIBP, Set at 7288'. (Ensure to not set on collars, caliper tools)
- 9. Bail dump 35 ft of cement w/ wireline dump bailer (NM requires 35 ft. of cement, caliper tools).
- 10. Wait 2 hours for cement to set.
- 11. Load well w 2% KCL and pressure test CIBP to 500 psi then increasing by 500 psi (hold 5 min each) until 4000 psi is reached, hold for 15 minutes.
- 12. Swab down until 500 psi underbalanced, (1100 ft. of water column).
  - a) Expected Pr: 2500 psi
  - b) .433\*7110 = 3078 psi
- 13. PU and RIH with CCL, GR and 3 1/8" gun to perf new zone. (caliper tools)
  - a. Send log to Tulsa for review before perforating.
  - b. Confirm via text that they have been received
  - c. Perf 7106-18' 3 SPF, 60 Deg. Phasing
  - d. Monitor surface pressure during shot
- 14. POOH with wireline guns. Ensure all shots have fired.
- 15. RD Wireline.
- 16. Setup 5k Frac Valve.
- 17. RDMO WO rig, move tbg/racks, and other material to edge of location to clear pad for Frac.

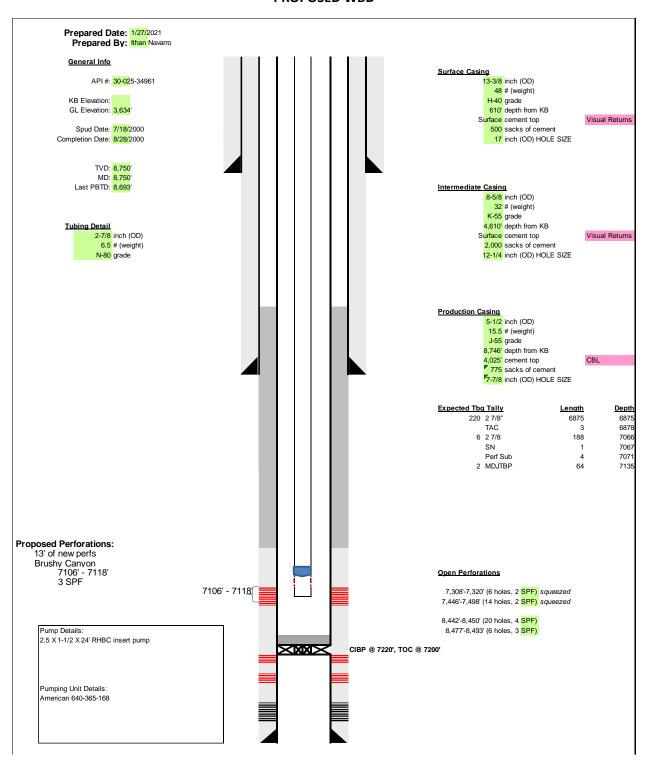
#### **Post-Procedure:**

- 1. Maintain communication with HSE/Regulatory for BLM/NMOCD permit approval.
- 2. MI tanks/material prefill before frac.
- 3. Get new SIFL.

#### **CURRENT WBD**



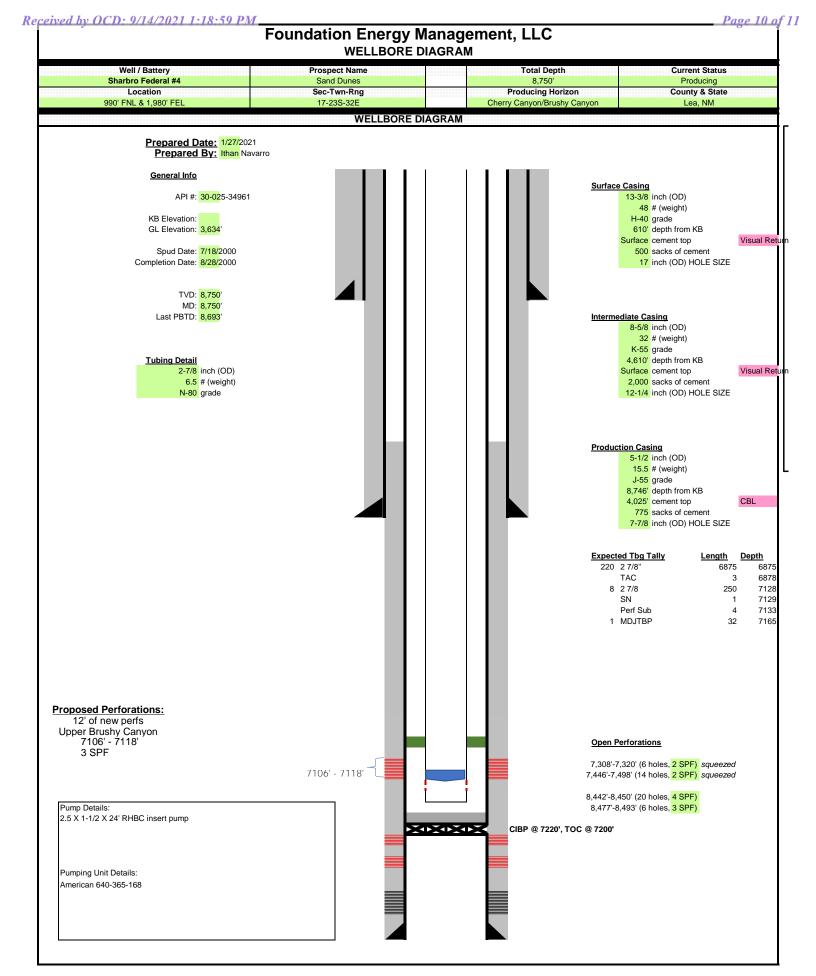
#### **PROPOSED WBD**



EOT @ 8535.31'

Pumping Unit Details:

American 640-365-168



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 48636

### **CONDITIONS**

| Operator:                         | OGRID:                        |
|-----------------------------------|-------------------------------|
| FOUNDATION ENERGY MANAGEMENT, LLC | 370740                        |
| 5057 KELLER SPRINGS RD            | Action Number:                |
| ADDISON, TX 75001                 | 48636                         |
|                                   | Action Type:                  |
|                                   | [C-103] NOI Workover (C-103G) |

#### CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| pkautz     | None      | 9/14/2021      |