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

Sundry Print Report

04/24/2024

Well Name: EMSU

Well Location: T21S / R36E / SEC 4 / LOT 5 / 32.516854 / -103.276306

County or Parish/State: LEA / NM

Well Number: 200H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC031740B

Unit or CA Name: EUNICE MONUMENT SOUTH UNIT

Unit or CA Number: NMNM70948A

US Well Number: 300250449200S1

Operator: EMPIRE NEW MEXICO LLC

Accepted for record only BLM approval required NMOCD 4/26/24 KF

Notice of Intent

Sundry ID: 2780247

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/19/2024

Time Sundry Submitted: 10:43

Date proposed operation will begin: 04/15/2024

Procedure Description:

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

EMSU_200H_P_A_BLM_Package_04092024_NS_20240409082709.pdf

Well Name: EMSU

Well Location: T21S / R36E / SEC 4 / LOT 5 / 32.516854 / -103.276306

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Unit or CA Number: NMNM70948A

US Well Number: 300250449200S1

Operator: EMPIRE NEW MEXICO LLC

Conditions of Approval

Specialist Review

EMSU_200H_Sundry_ID_2780247_P_A_20240424093933.pdf

Operator

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

Operator Electronic Signature: NATHAN SANDEL

Signed on: APR 09, 2024 08:30 AM

Name: EMPIRE NEW MEXICO LLC

Title: Engineer

Street Address: 25025 INTERSTATE 45 STE 420

City: THE WOODLANDS **State:** TX

Phone: (918) 404-4202

Email address: NSANDEL@EMPIREPETROCORP.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 04/24/2024

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. 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 perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: LOT 5 / 1940 FNL / 661 FWL / TWSP: 21S / RANGE: 36E / SECTION: 4 / LAT: 32.516854 / LONG: -103.276306 (TVD: 0 feet, MD: 0 feet)

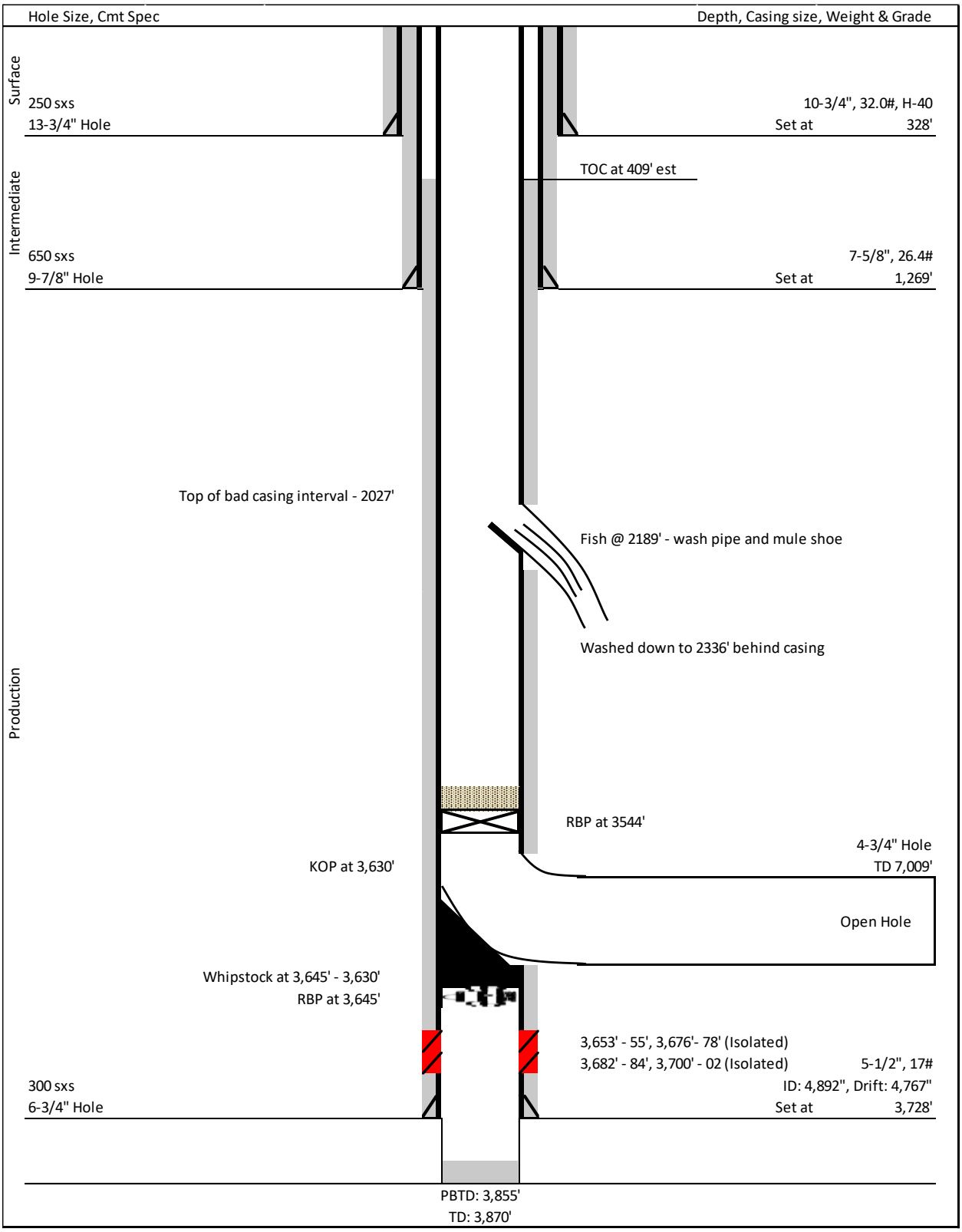
BHL: LOT 14 / 3295 FSL / 2598 FWL / TWSP: 21S / RANGE: 36E / SECTION: 4 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

Procedure:

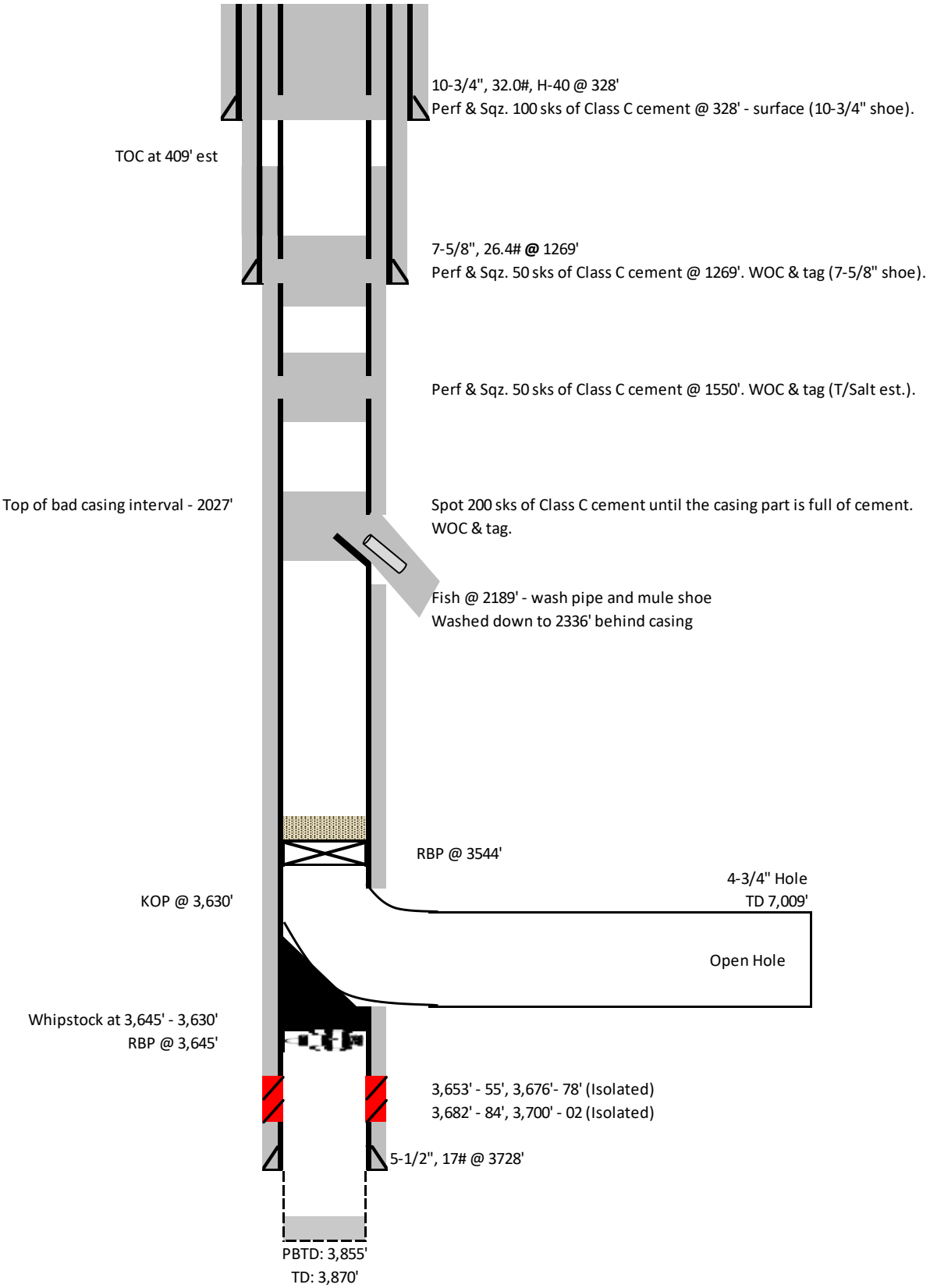
1. MIRU P&A rig.
2. MIRU WLU and run CBL if one not available.
3. Run impression block to casing part and verify re-entry into parent wellbore is not possible.
4. Spot 200 sks of Class C cement @ 2027' (top of casing issue interval). WOC & tag.
    a. Verify that the cement plug is firm in the wellbore.
5. Perf & Sqz. 50 sks class C cmt @ 1550'. WOC & tag (T/Salt est.).
6. Perf & sqz. 50 sks class C cmt @ 1269' (7-5/8" shoe).
7. Perf & sqz. 100 sks class C cmt @ 328' – surface.
8. RDMO P&A rig.
9. Notify NMOCD.
10. Dig out around wellhead and cut. Weld DHM and clean location.

Note: We do not expect any cement above the RBP and below the casing part. The first 4 cement squeezes had no cement at the suspected casing hole.

Current Wellbore Diagram:



Proposed Wellbore Diagram:



Operational Reports

1/30/2023 - HPJSM. MI&RU Mesa WSU SWI-SDFN

1/31/2023 - HPJSM. SIP (0), MI&RU Ramos rod scanners, POOH w/ 1-1/2 x 26' SMPR, 7/8" x 4' pony sub, 77 1" KD, 55 7/8 and 10 1-1/2 K-bars, stabilizer sub, RHR tool, 25 x 200 x 24' insert pump, 1-1/4 x 12' GA, scanned, 56 1" Yellow, 21 1" red, 54 7/8" red, ND WH, NU BOP, Unset TAC, POOH scanning 105 jts, 5-1/2 TAC, 5 jts, TK-99, SN, PS, MAJ, BP scanned 0 yellow, 2 blue, 26 green, 83 red, RD&MO Ramos scanners SWI-SDFN

2/1/2023 - HPJSM, unload and rack 83 jts of 2-7/8 tbg SWI-SDFN

2/2/2023 - HPJSM, SIP (0), MI&RU GT's tbg testers, PU&RIH w/ 5-1/2 K3 treating packer, PU 83 jts from racks and run rest of tbg from the well testing tbg to 6K psi, all tbg tested good, set 3507' pump 75 bbls on casing, couldn't load casing, move packer to 3413' reset it, pump 70 bbls with no luck, move packer up hole to 2416' set it, pump 60 bbls and can't load casing, released PKR RIH w/ tbg to set it at 3507', SWI-SDFN

2/3/2023 - HPJSM. SIP (0), MI&RU Cudd acid crew, test lines, pump 5000 galls of 15% HCL acid and drop 6000# of salt on 5 stages 4 drops at 7 bpm avg rate, 1425 avg psi, ISIP 300 psi went to vacuum in 2 minutes, wait 4 hrs, released pkr POOH w/ tbg SWI-SDFN

2/6/2023 - HPJSM, SIP (0), PU&RIH w/ RBP and 112 jts to set plug at 3544' lay down 1 jt set PKR at 3509' test plug (ok), POOH w/ tbg to set PKR @ 2040' test on tbg (ok), POOH w/ compression PKR PU&RIH w/ tension PKR set it @ 1030', 1538', 1787', 1914', 1976', and 2009' found casing leak from 2009' to 2040' establish injection rate at 3 bpm 550 psi, released PKR dump 3 sks of sand on top of RBP, POOH w/ tbg lay down tension pkr, SWI-SDFN

2/7/2023 - HPJSM. PU&RIH w/ 5-1/2 cement retainer to 1910' pump 25 bbls true retainer, set it at 1910', sting out and sting in, MI&RU Petroplex Cement crew, load and test casing to 500 psi (ok), test lines to 3000 psi, pump 10 bbls to stablish injection rate, pumped 10 bbls of calcium chloride pill, pumped 3 bbls fresh water spacer, pump 600 galls of sodium silicate 50/50, pumped 5 bbls of fresh wtr spacer, pumped 28 bbls of Thixotropic (100 sks) 14.4#, pumped 118 bbls of class C with 2% C.C. (500 sks) 14.8#, pump 24 bbls of class C neat (100 sks) 14.8#, shut down to wash up pump to pit, pumped 4 bbls of fresh water and shut down to stage, stage 4 times, pressure up well to 915 psi and stung out, reversed out 25 bbls of fresh water, RD&MO Petroplex, POOH w/ tbg, SWI-SDFN

2/8/2023 - HPJSM. SIP (0), PU&RU 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag cement @ 1905' RU PS drill out cmt to tag retainer @ 1910' drilled it out on 5 hrs, continue drilling on cement to 1962' circulated hole clean SWI-SDFN

2/9/2023 - HPJSM. SIP (0), continue drilling cement from 1962' drill out 1 jt in 2 hrs, POOH w/ tbg bit was wore out, RIH w/ new bit, continue drilling on cement to fall off at 2000' gain 30 bbls of fluid on reverse pit, continue in hole to tag cement again at 2026' drill it out to fell off at 2036' circulated hole clean, pressure up and tested to 550 psi gain 150 psi on 30 minutes, bleed it of, well was flowing .3 bpm, RD PS POOH w/ tbg, stand back DC's, load casing SWI-SDFN.

2/10/2023 - HPJSM. 750 psi, PU&RIH w/ K3 pkr RIH w/ tbg to set PKR at 2040' set pkr test casing below, test to 500 psi (ok), move pkt to 2009' set it test casing above to 500 psi (ok), get injection rate at 1 bpm at 970 psi, pump 20 bbls at 970 psi, released PKR, POOH w/ PKR, PU&RIH w/ AD1 tension pkr, set it at 1910' test casing to 500 psi, MI&RU Petroplex cement crew, test lines to 1500 psi, pump 100 sks of class C cement w/ 2% calcium chloride at 1 bpm 1116 psi, shut down wash tub, pump displacement at

997 psi, shut down 30 min, hesitate at 1097, shut down 30 min hesitate at 1130' shut well down at 1132', RD&MO Petroplex cement crew, SWI-SDFN.

2/13/2023 - HPJSM, SIP (0), released PKR, POOH w/ tbg, lay down PKR, PU&RIH w/ 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag cement at 1930' RU swivel, break circulation, drill out cement from 1930' to fell off at 2030' had an increment on psi and gain 10 bbls of water on reverse pit, circulated hole clean, pressure up and test to 550 psi for 1 hr gain 100 psi on 1 hr, bled it off, open it to pit well was flowing .1 bpm (144 bbls on 24 hrs), RDPS, POOH w/ tbg stand back drill collars SWI-SDFN

2/14/2023 - HPJSM SIP 200 psi bleed it off, PU&RIH w/ 5-1/2 AD1 PKR and 58 jts to set pkr at 1504' set it pressure up and test it to 500 psi (ok), MI&RU Petroplex cement crew test lines, pumped 10 bbls fresh water spacer at 1.8 bpm 1284 psi, pumped lead 75 sks 20 bbls THIXO blend 14.4 PPG 1.57 FT3 7.53 GPS, pumped tail 24 bbls 100 sks class C 14.8 PPG 1.33 FT3 6.3 GPS at 1.8 bpm 821.66' pumped displacement 12.11 bbls fresh water at 713 psi 1.99 bpm, shut down at 1004 psi 30 minutes hesitate, pumped 1 bbl pressure 999.75, shut down 30 min hesitate 1 bbl pressure 1012, shut down 30 min hesitate 1 bbl pressure 1330 psi, shut down 30 minutes squeeze psi 2092 psi, SWI, RD&MO Petroplex cement crew, SWI-SDFN

2/15/2023 - HPJSM, SIP 750 psi bleed it off, released PKR, POOH w/ tbg, lay down PKR, PU&RIH w/ 4-3/4 bit, 6 3-1/2 drill collars and tbg to tag at 1632' RU PS, break circulation, drill out good cement from 1632 to fell off at 2025' pressure increased and gain 15 bbls of water on reverse pit, circulated hole clean, pressure up and test to 500 psi, gain 200 psi on 1 hr, get an injection rate at 1 bpm 880 psi, bleed it off and get a negative test at .1 bpm water flow (144 bbls per day), SWI-SDFN

2/16/2023 - HPJSM, SIP 700 psi bleed it off, RD power swivel, POOH w/ tbg stand back drill collars, PU&RIH w/ 5-1/2 AD1 PKR RIH w/ 24 stands to set PKR at 1504' load and test casing to 500 (ok), SWI-SDFN

2/17/2023 - HPJSM, SIP 750 psi open it to half tank, flow back 15 bbls 100% wtr on 2 hrs, and 2 bbls on the next 2 hrs, fluid was 9.5 PPG leaved well open to half tank and SDFN

2/18/2023 - HPJSM. SIP (0) well flow 10 bbls on 12 hrs MI&RU Petroplex cement crew, test lines to 3000 psi, open well pump 5 bbls fresh water at 1 bpm 800 psi increased rate to 1.25 bpm at 1000 psi start on sodium silicate pump 2 bbls at 1000 psi 1.25 bpm packer shear and came up hole 3' shut pump down, attempt to reset pkr with no success, reverse back 20 bbls, RD Petroplex POOH w/ tbg and PKR was shear, SWI-SDFN

2/20/2023 - HPJSM SIP (0), PU&RIH w/ 5-1/2 AD1 packer and 48 jts to set pkr at 1504' load casing and pressure up to 500 psi, MI&RU Petroplex cement crew, tested lines to 3500 psi (ok), pump 5 bbls to stablish injection rate at 1 bpm 830 psi, pumped 330 gal of sodium silicate, pumped 3 bbls spacer, shut down to butch up, pumped 10 bbls of class C blend (50 sks) 14.5# at 1.5 bpm 850 psi, pumped 12 bbls of class C 2% C.C. (50 sks) 14.8#, pumped 10.5 bbls fresh water at 1.5 bpm 980 psi slow down rate to .5 bpm at 980 psi pumped 2 bbls, shut down to begin staging well wait 15 min, pumped .5 bbls 1080 psi, wait 20 min pumped .5 bbls at 1080 psi, wait 30 minutes pumped .5 bbls at 1400 psi, wait 30 minutes pressure up to 2100 psi, SWI, RD&MO Petroplex, SDFN.

2/21/2023 - HPJSM, SIP (0), release PKR, POOH w/ tbg lay down PKR, PU&RIH w/ 4-3/4 drill bit 6 3-1/2 drill collars and tbg to tag cement at 1703' RU PS, drill out cement from 1703' to fell off at 2040' circulated hole clean, pressure up and test to 520 psi, gain 100 psi on 1 hr, pumped 10 bbls at 1 bpm 820 psi, bleed it off and well was flowing .1 bpm, RD swivel, POOH w/ tbg stand back drill collars, SWI-SDFN.

2/22/2023 - HPJSM. SIP (0), well flow back 10 bbls overnight, PU&RIH w/ 5-1/2 cement retainer RIH w/ tbg to 1851' pump 10 bbls true retainer, set retainer at 1776' sting out (ok) sting in, load and tested casing to 500 psi (ok), SWI-SDFN.

2/23/2023 - HPJSM Petroplex got cut up on yesterday's job due high winds, SWI-SDFN

2/24/2023 - HPJSM. SIP (0) MI&RU Petroplex cement crew, load and test casing to 500 psi (ok), tested lines to 3000 (ok), pumped 15 bbls injection test at 1.98 bpm 782 psi, pumped lead 400 sks Class C 14.4 PPG, 1.57 yield, 7.51 H2O REQ. 2% C.C (Thixo) at 1.34 bpm at 1161 psi, (112 bbls), pumped tail 400 sks class C 14.8 PPG 1.32 yield 6.32 H2O REQ 2% C.C pumped half at 1.5 bpm 765 psi and second half at 1 bpm at 765 psi pump 2 bbls on flush, SI 30 min to hesitate, pumped 2 bbls at 643 psi, SI 30 min to hesitate, pumped 2 bbls at 875, SI 30 min to hesitate, pressure up to 2000 psi to squeeze, stung out of cmt retainer, RD&MO Petroplex, POOH w/ tbg SWI-SDFN.

2/27/2023 - HPJSM. SIP (0), PU&RIH w/ 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag at 1851' lay down 12 jts to drill with, PU power swivel, break circulation start drilling on cement retainer at 1.8 bpm 50 psi, drill on it for 8 hrs get metal and rubber on returns, circulated hole clean SWI-SDFN

2/28/2023 - HPJSM. Continued drilling on cement from 1851' drill on good cement to tag solid at 2027' start torquing and bouncing and start getting metal cuttings on returns, work on it for 40 minutes couldn't make no hole, pull 15' pressure up and test it to 550 psi, pressure increase 100 psi on 1 hr., get injection rate at .5 bpm at 950 psi, bleed off psi, start pulling on tbg dragging and swabbing on casing, RD swivel, POOH w/ tbg swab casing 11 stands and pull all tbg wet, had cement shanks and heavy mud on drill bit, SWI-SDFN.

3/1/2023 - HPJSM. SIP 550 psi bleed it off to half tank, MI&RU vacuum truck, RIH w/ mule shoe jt, and tbg to tag solid at 2027' work on it attempt to go inside of bottom piece with no success, lay down 30 jts, leaved in hole 59 jts EOT at 1850', ND BOP, NU WH, leaved well SI, wash and clean both pits, SI-SDFN

3/2/2023 - HPJSM. RD&MO Mesa WSU and workover equipment well had 800 psi on tbg, SWI-MOVE OFF.

4/6/2023 - HPJSM. Spot Mesa WSU PU, unload and set Mesa Reverse unit, SDFN.

4/10/2023 - HPJSM, RU Mesa WSU and Mesa reverse Unit, SIP 800 psi, bleed off to a vac truck, ND WH, NU BOP, POOH w/ 58 jts, tally tbg out, PU&RIH w/ 4-3/4 shoe, 2 jts 4-1/2 wash pipe, x-over bushing, 6 3-1/2 drill collars, x-over and tbg to tag at 2017' RU power swivel, SWI-SDFN

4/11/2023 - HPJSM, break circulation, tag fill at 2017' wash and drill to tag casing bad spot at 2027' drill out and start cutting on cement and casing from 2027 to 2040' (13'), getting cement and metal on returns, couldn’t cut no more, POOH w/ tbg stand back collars, lay down shoe was worn out has been on casing and cement very scarred and dull, SWI-SDFN

4/12/2023 - HPJSM. SIP (0), PU&RIH w/ new shoe, 2 jts wash pipe, 6 DC's and tbg to tag at 2040' RU PS, break circulation, wash and drill to 2052', start getting small amount of cement, scale and salt on returns, RD PS, POOH w/ tbg shoe was very scarred, had 2' piece of casing inside of wash pipe, cut diamonds and weld wires inside of the shoe, RBIH w/ shoe, 1 jt WP, 6 DC's and tbg to tag at 2042' RU PS, break circulation, wash and drill to 2053' POOH w/ tbg had a 2' piece of casing inside of the shoe, SWI-SDFN

4/13/2023 - HPJSM. SIP (0), PU&RIH w/ mule shoe jt, and tbg to tag at 2027' wok it, got inside of bottom casing, RIH to 2161' circulated hole clean, POOH w/ tbg, PU&RIH w/ mule shoe jt 2jts of tbg, 4-5/8 string mill, x-over, and tbg to tag at 2054' work it and go down to 2167' start getting solids scale cement mud and salt on returned, POOH to 2027' work it and get inside of casing, RIH to 2260', circulated hole w/ water no solids, POOH w/ tbg to 2052' mill on it and circulated hole with no solids, pull to 2026' mill on it and circulated hole w/ no solids, POOH w/ tbg, lay down string mill and mule shoe jt, PU&RIH w/ 4-1/2 cut lip shoe, 1 jt wash pipe, jars and tbg to 2000' SWI-SDFN

4/14/2023 - HPJSM. SIP (0), continue in the hole w/ tbg from 2000' to tag casing at 2054' RU swivel, rotate 2 rounds, continue in hole freely to tag solid at 2336' rotate on it, break circulation got solids on

returns (shoe was out of casing), start pulling on tbg pull it to 2192' tbg hung up, jar on it for 6 hrs tbg move up hole 3' SWI-SDFN

4/17/2023 - HPJSM. SIP (0) continue jarring on wash pipe and shoe for 1 hr, didn't move, MI&RU Rotary wire line RIH w/ string shot, spot it on bottom of jars, torque tubing to the left and backed tubing off on the jars, POOH&RD WL POOH w/ tbg lay down jars and 3 jts bent on top of jars, PU&RIH w/ 2-7/8 mule shoe jt and tbg to attempt to get inside of casing, poke around, can't find casing top, walk outside of casing every time, POOH w/ tbg, RD&MO fishing tools, RD&MO power swivel.

4/18/2023 - HPJSM. SIP (0), Lay down drill collars, RIH w/ 68 jts from derrick to 2122' circulated hole w/ 130 bbls fresh water (3 times capacity), lay down 68 jts, ND BOP, NU WH, load hole w/ FW pressure up to 800 psi, RD&MO Mesa WSU and Mesa RU, leaved well SI w/ 540 psi, clean location and move off.

AFMSS

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

Sundry Print Report

04/22/2024

Well Name: EMSU

Well Location: T21S / R36E / SEC 4 / LOT 5 / 32.516854 / -103.276306

County or Parish/State: LEA / NM

Well Number: 200H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC031740B

Unit or CA Name: EUNICE MONUMENT SOUTH UNIT

Unit or CA Number: NMNM70948A

US Well Number: 300250449200S1

Operator: EMPIRE NEW MEXICO LLC

Notice of Intent

Sundry ID: 2780247

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/19/2024

Time Sundry Submitted: 10:43

Date proposed operation will begin: 04/15/2024

Procedure Description:

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

EMSU_200H_P_A_BLM_Package_04092024_NS_20240409082709.pdf

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Well Name: EMSU

Well Location: T21S / R36E / SEC 4 / LOT 5 / 32.516854 / -103.276306

County or Parish/State: LEA / NM

Well Number: 200H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC031740B

Unit or CA Name: EUNICE MONUMENT SOUTH UNIT

Unit or CA Number: NMNM70948A

US Well Number: 3002504492005S1

Operator: EMPIRE NEW MEXICO LLC

Operator

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

Operator Electronic Signature: NATHAN SANDEL

Signed on: APR 09, 2024 08:30 AM

Name: EMPIRE NEW MEXICO LLC

Title: Engineer

Street Address: 25025 INTERSTATE 45 STE 420

City: THE WOODLANDS **State:** TX

Phone: (918) 404-4202

Email address: NSANDEL@EMPIREPETROCORP.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC031740B

6. If Indian, Allottee or Tribe Name

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

7. If Unit of CA/Agreement, Name and/or No. EUNICE MONUMENT SOUTH UNIT/NMNM70948A

8. Well Name and No. EMSU/200H

2. Name of Operator EMPIRE NEW MEXICO LLC

9. API Well No. 3002504492

3a. Address 2200 S UTICA PLACE SUITE 150, TULSA, OK 7

3b. Phone No. *(include area code)* (539) 444-8002

10. Field and Pool or Exploratory Area EUNICE MONUMENT-GRAYBURG-SA/EUNICE MONU

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 4/T21S/R36E/NMP

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. 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 perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed Typed)* NATHAN SANDEL / Ph: (918) 404-4202

Title Engineer

Signature (Electronic Submission)

Date 04/09/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by Long Vo

Title Petroleum Engineer

Date 4/23/2024

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CFO

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: LOT 5 / 1940 FNL / 661 FWL / TWSP: 21S / RANGE: 36E / SECTION: 4 / LAT: 32.516854 / LONG: -103.276306 (TVD: 0 feet, MD: 0 feet)

BHL: LOT 14 / 3295 FSL / 2598 FWL / TWSP: 21S / RANGE: 36E / SECTION: 4 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

Low Cave

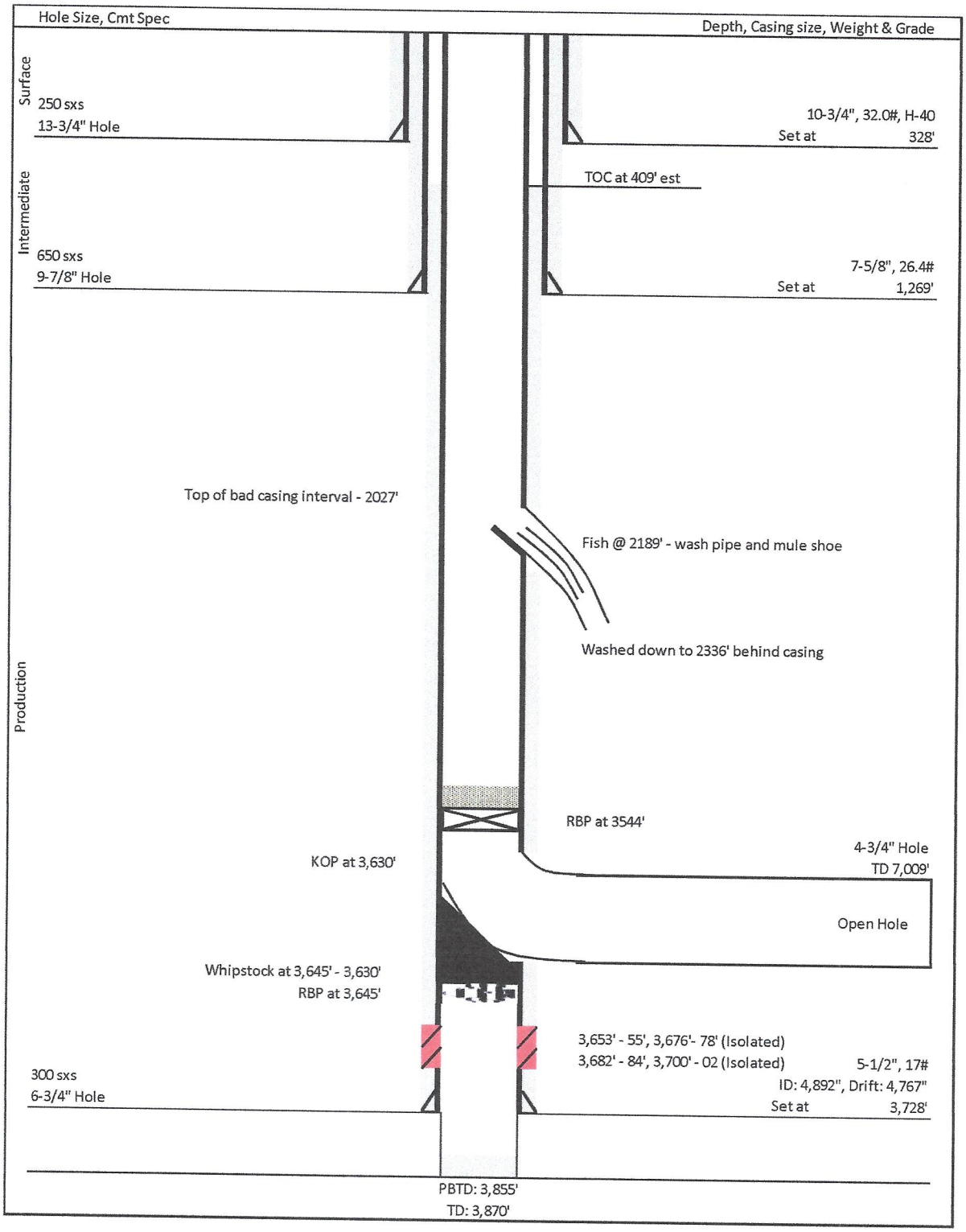
Procedure:

1. MIRU P&A rig.
2. MIRU WLU and run CBL if one not available.
3. Run impression block to casing part and verify re-entry into parent wellbore is not possible.
4. Spot ~~200~~ 85 sks of Class C cement @ ~~2027'~~ 2189' to 1319' (top of casing issue interval). WOC & tag.
   a. Verify that the cement plug is firm in the wellbore.
5. Perf & Sqz. 50 sks class C cmt @ ~~1550~~'. WOC & tag (T/Salt est.). 1319' to 1118' (In 20 sxs / Out 16 sxs)
6. ~~Perf & sqz. 50 sks class C cmt @ 1269' (7-5/8" shoe).~~ (shoe)
7. Perf & sqz. 100 sks class C cmt @ ~~328'~~ 378' – surface. (In 38 sxs / Out 29 sxs) Verify @ surface.
8. RDMO P&A rig.
9. Notify NMOCD.
10. Dig out around wellhead and cut. Weld DHM and clean location.

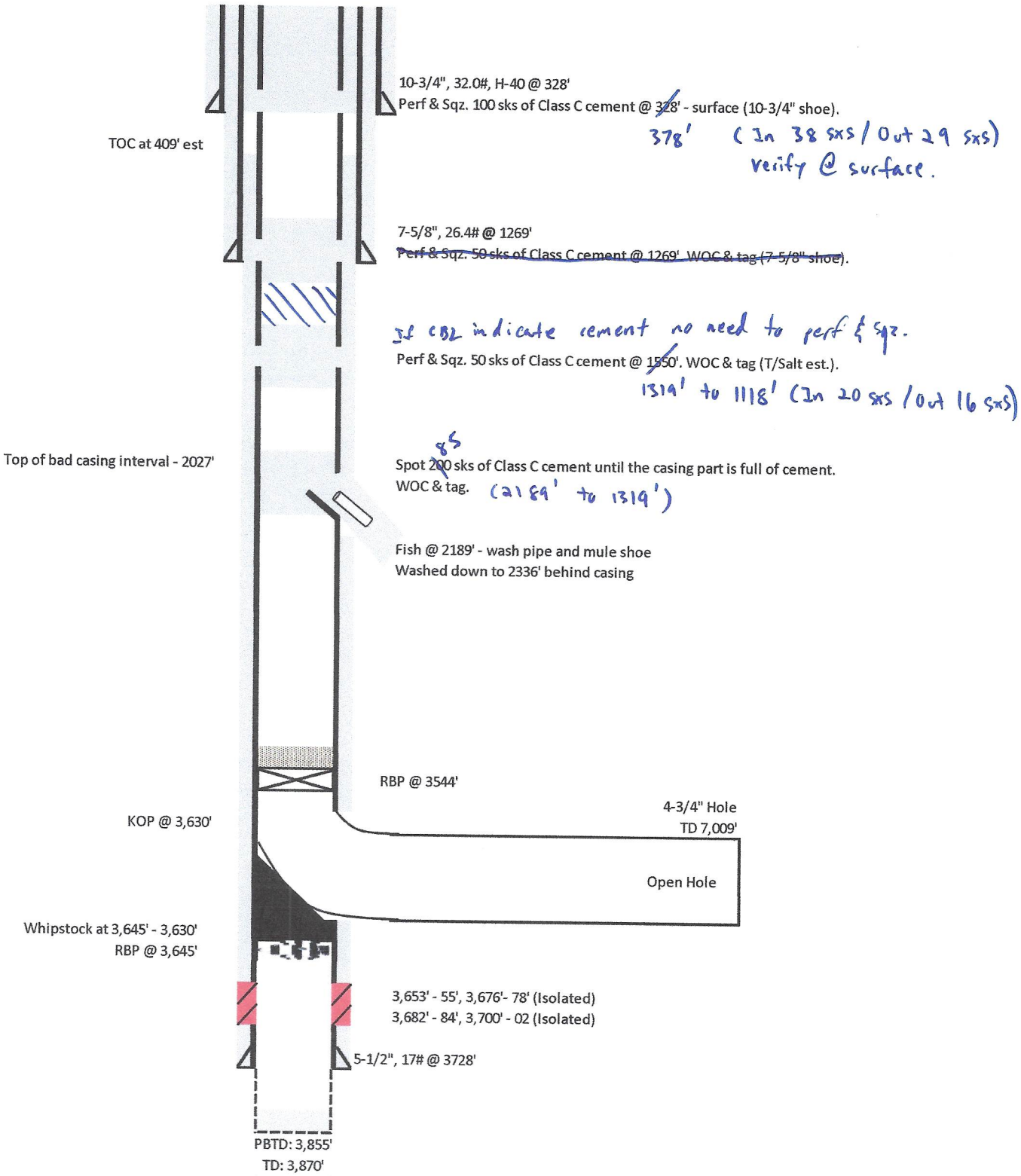
Note: We do not expect any cement above the RBP and below the casing part. The first 4 cement squeezes had no cement at the suspected casing hole.

Spot cement from 1319' to 1118' instead if CBL indicate cement behind casing.

Current Wellbore Diagram:



Proposed Wellbore Diagram:



Operational Reports

1/30/2023 - HPJSM. MI&RU Mesa WSU SWI-SDFN

1/31/2023 - HPJSM. SIP (0), MI&RU Ramos rod scanners, POOH w/ 1-1/2 x 26' SMPR, 7/8" x 4' pony sub, 77 1" KD, 55 7/8 and 10 1-1/2 K-bars, stabilizer sub, RHR tool, 25 x 200 x 24' insert pump, 1-1/4 x 12' GA, scanned, 56 1" Yellow, 21 1" red, 54 7/8" red, ND WH, NU BOP, Unset TAC, POOH scanning 105 jts, 5-1/2 TAC, 5 jts, TK-99, SN, PS, MAJ, BP scanned 0 yellow, 2 blue, 26 green, 83 red, RD&MO Ramos scanners SWI-SDFN

2/1/2023 - HPJSM, unload and rack 83 jts of 2-7/8 tbg SWI-SDFN

2/2/2023 - HPJSM, SIP (0), MI&RU GT's tbg testers, PU&RIH w/ 5-1/2 K3 treating packer, PU 83 jts from racks and run rest of tbg from the well testing tbg to 6K psi, all tbg tested good, set 3507' pump 75 bbls on casing, couldn't load casing, move packer to 3413' reset it, pump 70 bbls with no luck, move packer up hole to 2416' set it, pump 60 bbls and can't load casing, released PKR RIH w/ tbg to set it at 3507', SWI-SDFN

2/3/2023 - HPJSM. SIP (0), MI&RU Cudd acid crew, test lines, pump 5000 galls of 15% HCL acid and drop 6000# of salt on 5 stages 4 drops at 7 bpm avg rate, 1425 avg psi, ISIP 300 psi went to vacuum in 2 minutes, wait 4 hrs, released pkr POOH w/ tbg SWI-SDFN

2/6/2023 - HPJSM, SIP (0), PU&RIH w/ RBP and 112 jts to set plug at 3544' lay down 1 jt set PKR at 3509' test plug (ok), POOH w/ tbg to set PKR @ 2040' test on tbg (ok), POOH w/ compression PKR PU&RIH w/ tension PKR set it @ 1030', 1538', 1787', 1914', 1976', and 2009' found casing leak from 2009' to 2040' establish injection rate at 3 bpm 550 psi, released PKR dump 3 sks of sand on top of RBP, POOH w/ tbg lay down tension pkr, SWI-SDFN

2/7/2023 - HPJSM. PU&RIH w/ 5-1/2 cement retainer to 1910' pump 25 bbls true retainer, set it at 1910', sting out and sting in, MI&RU Petroplex Cement crew, load and test casing to 500 psi (ok), test lines to 3000 psi, pump 10 bbls to stablish injection rate, pumped 10 bbls of calcium chloride pill, pumped 3 bbls fresh water spacer, pump 600 galls of sodium silicate 50/50, pumped 5 bbls of fresh wtr spacer, pumped 28 bbls of Thixotropic (100 sks) 14.4#, pumped 118 bbls of class C with 2% C.C. (500 sks) 14.8#, pump 24 bbls of class C neat (100 sks) 14.8#, shut down to wash up pump to pit, pumped 4 bbls of fresh water and shut down to stage, stage 4 times, pressure up well to 915 psi and stung out, reversed out 25 bbls of fresh water, RD&MO Petroplex, POOH w/ tbg, SWI-SDFN

2/8/2023 - HPJSM. SIP (0), PU&RU 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag cement @ 1905' RU PS drill out cmt to tag retainer @ 1910' drilled it out on 5 hrs, continue drilling on cement to 1962' circulated hole clean SWI-SDFN

2/9/2023 - HPJSM. SIP (0), continue drilling cement from 1962' drill out 1 jt in 2 hrs, POOH w/ tbg bit was wore out, RIH w/ new bit, continue drilling on cement to fall off at 2000' gain 30 bbls of fluid on reverse pit, continue in hole to tag cement again at 2026' drill it out to fell off at 2036' circulated hole clean, pressure up and tested to 550 psi gain 150 psi on 30 minutes, bleed it of, well was flowing .3 bpm, RD PS POOH w/ tbg, stand back DC's, load casing SWI-SDFN.

2/10/2023 - HPJSM. 750 psi, PU&RIH w/ K3 pkr RIH w/ tbg to set PKR at 2040' set pkr test casing below, test to 500 psi (ok), move pkt to 2009' set it test casing above to 500 psi (ok), get injection rate at 1 bpm at 970 psi, pump 20 bbls at 970 psi, released PKR, POOH w/ PKR, PU&RIH w/ AD1 tension pkr, set it at 1910' test casing to 500 psi, MI&RU Petroplex cement crew, test lines to 1500 psi, pump 100 sks of class C cement w/ 2% calcium chloride at 1 bpm 1116 psi, shut down wash tub, pump displacement at

997 psi, shut down 30 min, hesitate at 1097, shut down 30 min hesitate at 1130' shut well down at 1132', RD&MO Petroplex cement crew, SWI-SDFN.

2/13/2023 - HPJSM, SIP (0), released PKR, POOH w/ tbg, lay down PKR, PU&RIH w/ 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag cement at 1930' RU swivel, break circulation, drill out cement from 1930' to fell off at 2030' had an increment on psi and gain 10 bbls of water on reverse pit, circulated hole clean, pressure up and test to 550 psi for 1 hr gain 100 psi on 1 hr, bled it off, open it to pit well was flowing .1 bpm (144 bbls on 24 hrs), RDPS, POOH w/ tbg stand back drill collars SWI-SDFN

2/14/2023 - HPJSM SIP 200 psi bleed it off, PU&RIH w/ 5-1/2 AD1 PKR and 58 jts to set pkr at 1504' set it pressure up and test it to 500 psi (ok), MI&RU Petroplex cement crew test lines, pumped 10 bbls fresh water spacer at 1.8 bpm 1284 psi, pumped lead 75 sks 20 bbls THIXO blend 14.4 PPG 1.57 FT3 7.53 GPS, pumped tail 24 bbls 100 sks class C 14.8 PPG 1.33 FT3 6.3 GPS at 1.8 bpm 821.66' pumped displacement 12.11 bbls fresh water at 713 psi 1.99 bpm, shut down at 1004 psi 30 minutes hesitate, pumped 1 bbl pressure 999.75, shut down 30 min hesitate 1 bbl pressure 1012, shut down 30 min hesitate 1 bbl pressure 1330 psi, shut down 30 minutes squeeze psi 2092 psi, SWI, RD&MO Petroplex cement crew, SWI-SDFN

2/15/2023 - HPJSM, SIP 750 psi bleed it off, released PKR, POOH w/ tbg, lay down PKR, PU&RIH w/ 4-3/4 bit, 6 3-1/2 drill collars and tbg to tag at 1632' RU PS, break circulation, drill out good cement from 1632 to fell off at 2025' pressure increased and gain 15 bbls of water on reverse pit, circulated hole clean, pressure up and test to 500 psi, gain 200 psi on 1 hr, get an injection rate at 1 bpm 880 psi, bleed it off and get a negative test at .1 bpm water flow (144 bbls per day), SWI-SDFN

2/16/2023 - HPJSM, SIP 700 psi bleed it off, RD power swivel, POOH w/ tbg stand back drill collars, PU&RIH w/ 5-1/2 AD1 PKR RIH w/ 24 stands to set PKR at 1504' load and test casing to 500 (ok), SWI-SDFN

2/17/2023 - HPJSM, SIP 750 psi open it to half tank, flow back 15 bbls 100% wtr on 2 hrs, and 2 bbls on the next 2 hrs, fluid was 9.5 PPG leaved well open to half tank and SDFN

2/18/2023 - HPJSM. SIP (0) well flow 10 bbls on 12 hrs MI&RU Petroplex cement crew, test lines to 3000 psi, open well pump 5 bbls fresh water at 1 bpm 800 psi increased rate to 1.25 bpm at 1000 psi start on sodium silicate pump 2 bbls at 1000 psi 1.25 bpm packer shear and came up hole 3' shut pump down, attempt to reset pkr with no success, reverse back 20 bbls, RD Petroplex POOH w/ tbg and PKR was shear, SWI-SDFN

2/20/2023 - HPJSM SIP (0), PU&RIH w/ 5-1/2 AD1 packer and 48 jts to set pkr at 1504' load casing and pressure up to 500 psi, MI&RU Petroplex cement crew, tested lines to 3500 psi (ok), pump 5 bbls to stablish injection rate at 1 bpm 830 psi, pumped 330 gal of sodium silicate, pumped 3 bbls spacer, shut down to butch up, pumped 10 bbls of class C blend (50 sks) 14.5# at 1.5 bpm 850 psi, pumped 12 bbls of class C 2% C.C. (50 sks) 14.8#, pumped 10.5 bbls fresh water at 1.5 bpm 980 psi slow down rate to .5 bpm at 980 psi pumped 2 bbls, shut down to begin staging well wait 15 min, pumped .5 bbls 1080 psi, wait 20 min pumped .5 bbls at 1080 psi, wait 30 minutes pumped .5 bbls at 1400 psi, wait 30 minutes pressure up to 2100 psi, SWI, RD&MO Petroplex, SDFN.

2/21/2023 - HPJSM, SIP (0), release PKR, POOH w/ tbg lay down PKR, PU&RIH w/ 4-3/4 drill bit 6 3-1/2 drill collars and tbg to tag cement at 1703' RU PS, drill out cement from 1703' to fell off at 2040' circulated hole clean, pressure up and test to 520 psi, gain 100 psi on 1 hr, pumped 10 bbls at 1 bpm 820 psi, bleed it off and well was flowing .1 bpm, RD swivel, POOH w/ tbg stand back drill collars, SWI-SDFN.

2/22/2023 - HPJSM. SIP (0), well flow back 10 bbls overnight, PU&RIH w/ 5-1/2 cement retainer RIH w/ tbg to 1851' pump 10 bbls true retainer, set retainer at 1776' sting out (ok) sting in, load and tested casing to 500 psi (ok), SWI-SDFN.

2/23/2023 - HPJSM Petroplex got cut up on yesterday's job due high winds, SWI-SDFN

2/24/2023 - HPJSM. SIP (0) MI&RU Petroplex cement crew, load and test casing to 500 psi (ok), tested lines to 3000 (ok), pumped 15 bbls injection test at 1.98 bpm 782 psi, pumped lead 400 sks Class C 14.4 PPG, 1.57 yield, 7.51 H2O REQ. 2% C.C (Thixo) at 1.34 bpm at 1161 psi, (112 bbls), pumped tail 400 sks class C 14.8 PPG 1.32 yield 6.32 H2O REQ 2% C.C pumped half at 1.5 bpm 765 psi and second half at 1 bpm at 765 psi pump 2 bbls on flush, SI 30 min to hesitate, pumped 2 bbls at 643 psi, SI 30 min to hesitate, pumped 2 bbls at 875, SI 30 min to hesitate, pressure up to 2000 psi to squeeze, stung out of cmt retainer, RD&MO Petroplex, POOH w/ tbg SWI-SDFN.

2/27/2023 - HPJSM. SIP (0), PU&RIH w/ 4-3/4 drill bit, 6 3-1/2 drill collars, and tbg to tag at 1851' lay down 12 jts to drill with, PU power swivel, break circulation start drilling on cement retainer at 1.8 bpm 50 psi, drill on it for 8 hrs get metal and rubber on returns, circulated hole clean SWI-SDFN

2/28/2023 - HPJSM. Continued drilling on cement from 1851' drill on good cement to tag solid at 2027' start torquing and bouncing and start getting metal cuttings on returns, work on it for 40 minutes couldn't make no hole, pull 15' pressure up and test it to 550 psi, pressure increase 100 psi on 1 hr., get injection rate at .5 bpm at 950 psi, bleed off psi, start pulling on tbg dragging and swabbing on casing, RD swivel, POOH w/ tbg swab casing 11 stands and pull all tbg wet, had cement shanks and heavy mud on drill bit, SWI-SDFN.

3/1/2023 - HPJSM. SIP 550 psi bleed it off to half tank, MI&RU vacuum truck, RIH w/ mule shoe jt, and tbg to tag solid at 2027' work on it attempt to go inside of bottom piece with no success, lay down 30 jts, leaved in hole 59 jts EOT at 1850', ND BOP, NU WH, leaved well SI, wash and clean both pits, SI-SDFN

3/2/2023 - HPJSM. RD&MO Mesa WSU and workover equipment well had 800 psi on tbg, SWI-MOVE OFF.

4/6/2023 - HPJSM. Spot Mesa WSU PU, unload and set Mesa Reverse unit, SDFN.

4/10/2023 - HPJSM, RU Mesa WSU and Mesa reverse Unit, SIP 800 psi, bleed off to a vac truck, ND WH, NU BOP, POOH w/ 58 jts, tally tbg out, PU&RIH w/ 4-3/4 shoe, 2 jts 4-1/2 wash pipe, x-over bushing, 6 3-1/2 drill collars, x-over and tbg to tag at 2017' RU power swivel, SWI-SDFN

4/11/2023 - HPJSM, break circulation, tag fill at 2017' wash and drill to tag casing bad spot at 2027' drill out and start cutting on cement and casing from 2027 to 2040' (13'), getting cement and metal on returns, couldn't cut no more, POOH w/ tbg stand back collars, lay down shoe was worn out has been on casing and cement very scarred and dull, SWI-SDFN

4/12/2023 - HPJSM. SIP (0), PU&RIH w/ new shoe, 2 jts wash pipe, 6 DC's and tbg to tag at 2040' RU PS, break circulation, wash and drill to 2052', start getting small amount of cement, scale and salt on returns, RD PS, POOH w/ tbg shoe was very scarred, had 2' piece of casing inside of wash pipe, cut diamonds and weld wires inside of the shoe, RBIH w/ shoe, 1 jt WP, 6 DC's and tbg to tag at 2042' RU PS, break circulation, wash and drill to 2053' POOH w/ tbg had a 2' piece of casing inside of the shoe, SWI-SDFN

4/13/2023 - HPJSM. SIP (0), PU&RIH w/ mule shoe jt, and tbg to tag at 2027' wok it, got inside of bottom casing, RIH to 2161' circulated hole clean, POOH w/ tbg, PU&RIH w/ mule shoe jt 2jts of tbg, 4-5/8 string mill, x-over, and tbg to tag at 2054' work it and go down to 2167' start getting solids scale cement mud and salt on returned, POOH to 2027' work it and get inside of casing, RIH to 2260', circulated hole w/ water no solids, POOH w/ tbg to 2052' mill on it and circulated hole with no solids, pull to 2026' mill on it and circulated hole w/ no solids, POOH w/ tbg, lay down string mill and mule shoe jt, PU&RIH w/ 4-1/2 cut lip shoe, 1 jt wash pipe, jars and tbg to 2000' SWI-SDFN

4/14/2023 - HPJSM. SIP (0), continue in the hole w/ tbg from 2000' to tag casing at 2054' RU swivel, rotate 2 rounds, continue in hole freely to tag solid at 2336' rotate on it, break circulation got solids on

returns (shoe was out of casing), start pulling on tbg pull it to 2192' tbg hung up, jar on it for 6 hrs tbg move up hole 3' SWI-SDFN

4/17/2023 - HPJSM. SIP (0) continue jarring on wash pipe and shoe for 1 hr, didn't move, MI&RU Rotary wire line RIH w/ string shot, spot it on bottom of jars, torque tubing to the left and backed tubing off on the jars, POOH&RD WL POOH w/ tbg lay down jars and 3 jts bent on top of jars, PU&RIH w/ 2-7/8 mule shoe jt and tbg to attempt to get inside of casing, poke around, can't find casing top, walk outside of casing every time, POOH w/ tbg, RD&MO fishing tools, RD&MO power swivel.

4/18/2023 - HPJSM. SIP (0), Lay down drill collars, RIH w/ 68 jts from derrick to 2122' circulated hole w/ 130 bbls fresh water (3 times capacity), lay down 68 jts, ND BOP, NU WH, load hole w/ FW pressure up to 800 psi, RD&MO Mesa WSU and Mesa RU, leaved well SI w/ 540 psi, clean location and move off.

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.**

3. Blowout Preventers: 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 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: 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 **fresh** water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified 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 for Class C or accelerated cement (calcium chloride) and 6 hours for Class H. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

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. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, 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.

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions but not less than 1% and not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified *BY PHONE* (numbers listed in 2. Notifications) a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**
The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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. **Show date well was plugged.**

8. Trash: 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292
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In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo “interim” reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don’t wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads**. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.

2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.

3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.

4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or

concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.

6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.

7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Jose Martinez-Colon
Environmental Protection Specialist
575-234-5951

Mark Mattozzi
Environmental Protection Specialist
575-234-5713

Robert Duenas
Environmental Protection Specialist
575-234-2229

Doris Lauger Martinez
Environmental Protection Specialist
575-234-5926

Jaden Johnston
Environmental Protection Asst. (Intern)
575-234-6252

Sundry ID **2780247**

Plug Type	Top	Bottom	Length	Tag	Sacks	Cement Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify			
10.75 inch- Shoe Plug	274.72	378.00	103.28	Tag/Verify	67.00		Perf and squeeze from 378' to surface. (In 38 sxs/Out 29 sxs) Verify at surface.
Top of Salt @ 1180	1118.20	1230.00	111.80	Tag/Verify			
7.625 inch- Shoe Plug	1206.31	1319.00	112.69	Tag/Verify	36.00	C	Perf and squeeze from 1319' to 1118'. WOC and Tag. If CBL indicate cement behind casing spot cement instead. (In 20 sxs/Out 16 sxs)
Top of Fish @ 2189	2117.11	2189.00	71.89	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	25.00	C	Run CBL. Run impression block to 2189'. Spot cement from 2189' to 2117'.
Base of Salt @ 2600	2524.00	2650.00	126.00	Tag/Verify			
Yates @ 2670	2593.30	2720.00	126.70	If solid			
Queen @ 3316	3232.84	3366.00	133.16	If solid			
Greyburg @ 3627	3540.73	3677.00	136.27	If solid			
5.5 inch- Shoe Plug	3640.72	3778.00	137.28	Tag/Verify			

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.
Class H >7500'
Class C<7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater
R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft^3/sx
Class H: 1.06 ft^3/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement Requirement:	**Low**		
10.75 inch- Shoe Plug @	**328.00**		
7.625 inch- Shoe Plug @	**1269.00**		
5.5 inch- Shoe Plug @	**3728.00**	**TOC @**	**409.00**

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
District IV
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

COMMENTS

Action 337146

COMMENTS

Operator: Empire New Mexico LLC 2200 S. Utica Place Tulsa, OK 74114	OGRID: 330679
	Action Number: 337146
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM.	4/26/2024

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CONDITIONS

Created By	Condition	Condition Date
kfortner	Like approval from BLM	4/26/2024