

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**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.5. Lease Serial No. **NMNM-40658**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator **Energy Acumen LLC.**3a. Address **10103 Gutierrez Rd NE, Albuquerque, NM
87111**3b. Phone No. (include area code)
(505) 327-6908

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

8. Well Name and No. **Buckskin Fed. #002**9. API Well No. **30-025-27024**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
N-18-24S-38E 554 FSL & 1874 FWL10. Field and Pool or Exploratory Area
SWD;QUEEN11. Country or Parish, State
Lea**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 performed 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 determined that the site is ready for final inspection.)

BLM and NMOCD plugged this well in accordance with the attached documents..

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Accepted

CHRISTOPHER WALLSDigitally signed by CHRISTOPHER WALLS
Date: 2025.03.18 16:21:02 -06'00'Sup PE
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 **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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Buckskin 002 Daily Summary:

2-9-24:

Well flowing out of casing nipple and valve. DWS called in to repair leak. DWS pumped 80 bbl 17# mud to kill well. Replaced casing nipple and valve.

5-13-2024:

MIRU to P&A well.

5-14-2024: SITP = 0, SICP = 120, BH = 0

Attempt to pump 9 bbl water down tbg, pressure up to 400 psi in 3 bbl. Pumped 95 bbl 9# brine down csg at 400 psi. SD, pressure stabilized at 360 for 1 hr. Opened csg, water flowing at 3 bbl/hr.

5-15-2024: SITP = 0, SICP = 420, BH = 0

Pumped 100 bbl 9# brine down casing to get pressure down to flow back at 10 psi and 1 bbl/10 min, flow did not stop.

5-16-2024: SITP = 0, SICP = 640, BH = 0

Bled casing down, NDWH, NU BOP. Unseat packer, well started flowing @ 640 psi, flowing water, sand and rocks. Attempt to pump 14 ppg mud down casing, could not pump, csg pressured up to 1000 psi. Attempted to pump down tbg, could not.

5-17-2024: SITP = 0, SICP = 540, BH = 0

Opened well to pit, flowing water, sand and rocks.

5-18-2024:

Well SI

5-19-2024: SITP = 0, SICP = 350, BH = 0

Well SI

5-20-2024: SITP = 0, SICP = 400, BH = 0

Bled down csg, SI and built up to 180 in 4 hours.

5-22-2024: SITP = 0, SICP = 350, BH = 0

SD P&A operation 5-23-2024 waiting for owls on # 1 well to leave, then resume P&A of both wells.

10-12 to 10-14: SITP = 25, SICP = 25, BH = 0

Attempted to unseat packer (3642') and pull tbg. With each attempt to pump down the tbg or csg, the tbg pressures were higher each day and csg pressures were lower.

10-13: SITP = 320, SICP = 240, BH = 0

10-14: SITP = 320, SICP = 240, BH = 0

10-15: SITP = 360, SICP = 200

Pumped ~~25 sx~~ down tbg under pkr to seal off tbg pressure and flow.

10-16: SITP = 420, SICP = 35

Pump **35 sx**, WOC, tbg press at 500 psi on SD, after WOC, pressure to SITP to 800 psi, SICP, 0.

10-17: SITP = 100, SICP = 35, BH = 0

Ran sinker bar, tag cement in tbg at 2936'.

10-18: SITP = 1450, SICP = 180, BH = 0

Pumped LCM pill and ~~35 sx~~ displace to 3000'. WOC. (Total cement now **95 sx** down tbg)

10-19: SITP = 1420, SICP = 120, BH = 0

Bled down tbg, SD, pressure back to 1200 psi, bled down to 0. attempt to inject, could not inject, ran sinker bar and tagged in tbg at 2405'.

10-20: SITP = 1420, SICP = 180, BH = 0.

SD due to winds. Flowed well.

10-21: SITP = 1420, SICP = 180, BH = 0

Bled down. RIH, cut tbg at 2355'. Could not pull tbg, ran FP tool; 1200'-20%, 1080-, 45%, 983 – 50%, 951- 50%, 918-100% free. Attempt to pump csg, press up, down tbg, 15 bbl, Work tbg, could not get free.

10-22: SITP 580, SICP = 180, BH = 0.

Ran back off shot at 918, was able to pull 28 jts tbg. TIH with overshot, tagged at 385'.

10-23: SITP = N/A, SICP = 0, BH = 0

PU 6 1/4" bit, tagged 355'. C/O to 390', TOOHP plugged bit. TIH, tagged 280', C/O to 390', red, grey sand and some pea gravel.

10-24: SITP = N/A, SICP = 0, BH = 0.

TIH, tagged 288', C/O to 355'. TOOHP, TIH, tagged 275'. Well flowing with sand and some pea gravel. TIH and spot cement from 275' to 177' with **20 sx**. (Total cement now **115 sx**)

10-25: SITP = N/A, SICP = 0, BH = 0

Tagged TOC in csg at 325'. Drill out to 425', hard. TOOH. Returns heavy, black sand. TIH with tag sub, tagged at 425'. TOOH.

10-26: SITP = N/A, SICP = 0, BH = 0.

TIH 6 1/4" tapered mill, tagged at 342'. C/O to 385', getting sand returns. Press and flow starting to push tbg out of hole, bent 2 jts trying to TOOH. Pump 10 bbl kill down csg, pressured to 330 psi, open csg, flowed 12 bbl, pump 10 bbl down tbg, flow back 15 bbl, try pump down tbg, press to 800 SDFN.

10-27: SITP (WS)=0, SICP = 0, BH = 0

Worked stuck tbg, free up tbg, LD tbg. Take off tapered mill, install notch collar. TIH, tagged 276'. C/O to 305'. Flowing heavy sand and pea gravel. Worked tbg, pull up to 165'. SD 40 min, tagged at 229'. C/O to 261'. Heavy returns. TOOH.

10-28: SITP N/A, SICP = 0, BH = 0

TIH, tagged 290', C/O to 325', flowing heavy sand. Pull up to 229', watch 40 mi, TIH, tagged 325'. C/O to 390', started making heavy sand.

10-29: SITP = N/A, SICP = 0, BH = 0

TIH, tagged at 369'. C/O to 386' flowing heavy sand. TOOH. RU cement equip, pump 275 sx down csg surface to 386', pressure up to 800 after 4 bbl, cycle pumps, broke back, pump rest of cement at 306 psi, SD with 300 psi. (Total sx now 390)

10-30: SITP SITP = N/A, SICP = 0

TIH, tagged at 167', drill to 187', started getting heavy sand. TOOH, attempt to inject down csg, pressured up to 1200 psi. TIH to 187', drilled to cement 320'. TOOH.

10-31: SITP = N/A, SICP = 0, BH = 0

TIH, tagged at 320'. Drill to 417', broke through cement, (at 370' started getting sand). TOOH. Establish inj down casing, pressured up to 1000 psi and then broke back to 250 psi. Pumped 500 sx down casing displaced with 14.5 bbl (362"). WOC. (Total cement now 890 sx)

11-1: SITP = N/A, SICP = 0, BH = 0

TIH, tagged cement at 343', drilled 5', cement soft. TOOH, SD. WOC.

11-2: SITP = N/A, SICP = 0, BH = 0

TIH, tagged at 348', drilled cement to 435'. At 435' started getting sand and rocks. TOOH. RU cement unit, mix and pump 1100 sx down csg at 380 psi, displace to 300'. SD WOC. (Total cement now 1990 sx)

11-3: SITP = N/A, SICP = 0, BH = 0

SD, WOC. Hauling more cement and setting up cement storage.

11-4: SITP = N/A, SICP = 0, BH = 0

TIH, tagged at 280'. Started to drill, cement wet. TOOH, WOC.

11-5: SITP = N/A, SICP = 0, BH = 0

TIH, tagged at 280', drilled cement to 435'. Circulate csg clean TOOH.

11-6: SITP = N/A, SICP = 0, BH = 0

TIH with 6 3/4" junk mill, tagged at 120', mill to 135', hard, TOOH. TIH with tapered mill, tagged at 120', milled 120' to 430'. Hard. TOOH, install 6 1/4" junk mill, TIH, mill to 440', started getting heavy sand, TOOH.

11-7: SITP = N/A, SICP = 0, BH = 0

Establish inj down csg, pressure broke at 600 psi to 200 psi. SD and prepare for Rags N Bags treatment.

11-8: SITP = N/A, SICP = 0, BH = 0

RU to pump Rags N Bags treatment. Pump 5 gal RNB in 3 stages with 10 bbl spacer between each. Follow with **1850 sx** cement. Started pumping at 250-350 psi, pressure increased to 450 at end of pumping. SD WOC. (Total cement now **3840 sx**)

11-9 WOC

11-10: WOC

11-11: SITP = N/A, SICP = 0, BH = 0

TIH with 6 1/8" junk mill, **tagged at 235'**. Mill cement from **235' to 440'**. Returns, cement, metal shavings some rags. SD.

11-12: SITP = N/A, SICP = 0, BH = 0

TIH, **tagged at 440', Milled to 445'**. Returns, cement, metal shavings. Milled to 448' Returns changed to heavy sand. SD, pit gain 10 bbl in 2 hrs. TOOH. Pressure to 460 psi in 30 min, to 480 in 1 hour. Bled well down, 5 bbl pit gain in 1 hour, well continued flowing water and sand. Collected water samples.

SI well. Set up night watch to bleed well down if pressure reached 700-800 psi.

Monitored well overnight, pressure stabilized at 520 psi.

11-13: SITP = N/A, SICP = 520, BH = 0.

Opened well and bled down in several minutes, flow stopped, pressure 0.

SI well, pressure from 0 to 40 in 1 hour. RIH with **WL and tagged fill at 335'**. Water samples sent to Midland (Syensqo)

11-14: SITP = N/A, SICP = 420, BH = 0

Bled down from 420 to 0 in 20 minutes. Flowing black water, flowed for 1 hour. SI, monitored pressure, built to 5 psi in 2 hours. Pressure at 1 PM = 8 psi, 2 PM = 10 psi, 3 PM = 13 psi, 4 PM = 18 psi, 5 PM = 28 psi.

11-15: SITP = N/A, SICP = 475, BH = 0

Blew down well from 475 to 0 in 5 minutes. SI, pressure built from 0 to 4 hours to 23 psi. R/D rig 35 and equipment.

11-16: SITP = N/A, SICP = 475, BH = 0

Bled down from 475 psi to 0 in 5 minutes. SI and monitored pressure rest of the day, built to 28 psi.

11-17: SITP = N/A, SICP = 500, BH = 0

Bled well down from 500 to 0 in 5 minutes. Monitored pressures throughout the day.

11-18: SITP = N/A, SICP = 500, BH = 0

Left well SI, monitored pressure, stayed at 500.

11-19: SITP = N/A, SICP = 500, BH = 0

Bled well down in 5 min. Took water sample. Start moving in equipment for rig 33. RU WL, RIH, tagged fill at 236'. **Ran CBL from 236' to surface. Good cement from 236' to surface between 7" casing and 9 5/8" casing.**

11-20: SITP = N/A, SICP = 500, BH = 0.

Monitored pressures.

11-21: SITP = N/A, SICP = 500, BH = 0

Monitored pressures.

11-22 to 12-2: SI, monitoring pressures, starting to get ready to MIRU DWS rig 33

12-3: SITP = N/A, SICP = 480, BH = 0

Spot rig equipment for rig 33. **Weld gusset supports unto the surface casing** to reinforce to hold weight of new BOP stack.

12-4: SITP = N/A, SICP = 480, BH = 0

MI rig 33 equipment. Bled down pressure from 480 to 0 in 5 min.

12-5: SITP = N/A, SICP = 280, BH = 0

ND 5K BOP, NU 10K BOP stack. 10K with Blind/Shear rams and 2 7/8" pipe rams. Annular BOP.

RU floor, set and RU shaker. Unload 2 7/8" J-55 workstring.

12-6: SITP = N/A, SICP = 240, BH = 0

Blow down well, TIH with mill and WS, **tagged at 254'**. R/U power swivel, wash down from 254' to 275'. Issues with shaker, SD at noon. **Mud: NewPark delivered mud: 10# brine base, salt gel, barite and 2% Shale Treat. Density = 14#, visc = 45 cp.**

12-7: SITP = N/A, SICP = 280/500, BH = 0

Tagged at 255', pressure spiked to 500 psi, started getting pushed out of the hole. Killed pump, closed shear rams, sheared 2 7/8" WS. **Samples on shakers looks like wet cement.** (photos in report) Took samples, SDFN.

12-8: SITP = N/A, SICP = 270, BH = 0

RU fishing tools. Mix mud, add more barite, weight to 15.7, visc at 37. TIH to pull fish, well holding fluid. Establish circ to fish.

12-9: SITP = 0, SICP = 0, BH = 0

PU overshot, did not catch, TOOH, put on skirted mill, pushed fish down 30', got torque, milled on fish. TOOH. PU overshot, TIH, catch fish, TOOH, LD overshot, pull tbg, last joint 1/3 full of sand.

12-10: SITP = N/A, SICP = 0, BH = 0

MU junk mill, **tagged at 297', Milled to 410'**. TOOH. Mud : 16#, 37 visc. (circ conventional)

12-11: SITP = N/A, SICP = 400, BH = 0

TIH, tagged 280', ream to 322. Tubing started getting pumped out of hole. Bled off pressure, regained circulation. LD 2 jts, still pushing, LD another jt pull up to 200', establish circulation. Mud had been diluted by influx. SD, re condition mud from 14.1#, 38 visc to 16#, 42 visc. PU jt, **tagged at 269'. Reamed to 292', TOOH, SDFN.**

12-12: SITP = 0, SICP = 0, BH = 0

TIH, tagged at 309', reamed to 362'. Pressure pushed 2 jts of tubing (2 7/8") out of hole in 8 seconds. Shut pipe rams and chained pipe down. RD swivel, stiff arms, cut and LD 2 bent jts. Attempt to TOOH. **Pipe pushed another 35' out of hole.** Closed and locked rams, chain down WS, install TIW valve. Circulated pit, SD.

Night crew: Circulating rig pit, Monitor pressures. Start with 450 psi, bled well down. Pressure back up to 100 in 1 hr, in 1 more hr pressure to 450. Pressure stayed at 450 until morning.

12-13-24: SITP : 220, SICP = 450, BH = 0

Days, Bled well down, Installed gauge on TIW valve. TOOH and LD 10 jts 2 7/8" workstring. SI well.

Night, SICP up to 30 psi at 03:00. Circulated mud in pit.

12-14-24: SITP = N/A, SICP = 440, BH = 0

12-15-24: SITP = N/A, SICP = 440, BH = 0

12-16-24: SITP = N/A, SICP = 460, BH = 0

12-17-24: SITP = N/A, SICP = 460, BH = 0

12-18-24:

Start RD DWS Rig 33

12-19-24:

MO DWS Rig 33.

1-23-25 to 1-28-25 :

Moving Cased Hole Well Services 460K stand-alone snubbing unit from Houma LA to Hobbs, NM. MIRU associated equipment for the operation on the Buckskin 002 well site. PT snubbing stack and equipment.

1-29-25: SICP = 400, BH = 0

Start TIH with BHA # 1, 6.25" rock bit on 3 1/2" DP and mud motor. Motor not effective, issues with mud weight and viscosity. TOOH with BHA #1 and motor, remove motor. Condition mud. Had mud engineer to location to test and help condition mud. TIH with BHA # 2, 6.25" 6 blade junk mill and 3 1/2" DP. Tag at 293' BGL, start washing and milling. Rotating at 40 rpm, 3.5 bpm, 200 psi running returns through choke manifold to maintain circulation without losses. Returns are sand and some cement cuttings. Got to 359' BGL.

1-30-25:

Washing, milling 40 bpm, pressure monitored and adjusted as needed to maintain circulation without losses. Choke pressure +/- 600, at 401' BGL. Mud +/- 14 ppg, visc +/- 40. Some cuttings show ground up wireline or cable.

At 09:00 Had to SD due to high winds. Pulled BHA #2 and cleaned ports, re install and start TIH with new 6 blade junk mill, BHA # 3, at 11:00 PM.

1-31-25:

Bring 17ppg mud to site, add polymer, mix old and new muds, mud 14.7 ppg. 401' BGL, Cleaning, milling to 427', getting cement returns. Install plug catcher to remove most of the large rocks and sand from the returns. TOOH, check mill on BHA # 3.

MU and TIH with BHA # 4, 5 7/8" 6 blade junk mill. Tagged at 7' higher than last run at 420' BGL. 5 bpm, 300 choke press, 40 rpm. Starting losing returns drop rate, open choke, 3 bpm, 250 psi to 2.6 bpm 475 mud 13.8 ppg.

2-1-25:

Washing, milling at 402 BGL, 475 psi pump, 250 psi choke, mud 13.8, getting rags and bags in returns. At 455' BGL, returns began getting red and metal shavings. Starting to get increased drag and torque. Installed plug catcher to strip large returns out of the mud. Stopped making progress. TOOH. MU BHA # 5, 5 7/8" (re run) + 6 1/4" water melon mill, 4 3/4" jars. Tagged at 396' BGL, washed and cleaned out to 420' BGL.

2-2-25:

Stopped making progress, TOOH with BHA #5. MIRU WL. Ran CBL from 422' to surface. Also ran a 3 arm caliper log from 422' to surface, 5 runs made. Log indicates a restriction at 421' and large opening starting at 422' BGL. CCL indicates a rough tubing from 422' to 382'. Good cement between 9 5/8" casing and 7" casing from 421' to 130'. MU and TIH with BHA #6, 6.25" burn shoe, 5" wash pipe, jars.

2-3-25: Wash and mill with BHA # 6 to 433', 3.2 bpm, 475 psi pump, 250 psi choke, 30 rpm, getting 800 torque to 1000, rubber, rags, cement and rocks in returns. Now at 433'. Continue to 453', torque 800 to 1000. Got to 453', torque to 1000. TOOH wash pipe has grooves cut into barrel, measurements indicate that the marks may have been made by a window in casing and that wash pipe may have been running outside a casing window.

Decision made to run another caliper log and to run impression blocks.

2-4-25:

MIRU WL, run caliper log from new PBTD to surface. Log confirms that 7" casing is in fairly (?) good condition from surface to 421'. The log confirms that there is a restriction at 421' and there is larger diameter starting at 422' and below down to PBTD at 443'. Log hanging on runs 2, 3, 4 and 5 at 438', fell through to 443'.

- TIH with 5 1/2" lead impression block. Tagged up at 428', imprint indicates a section of casing radius on bottom of block, the top of the block shows signs of getting hung up coming off bottom. Ran a 5" impression block, tagged at 422'. Lost 6' between run 1 and run 2. It is possible that the drag (and damage to block #1) while coming out may have dislodged a piece that run # 2 set down on. had impressions indicating that it sat down on a casing radius on one side. Measurement from "clean" side to the imprint on block # 2 indicates a 4.25" restriction that the block had been wedged into.

2-5-25:

Meeting to stop snubbing work and prepare to cement. Stand-by starting at mid-day.

2-6-25:

TIH with tag sub, float, 1 jt, X nipple, 15 jts and DP, Stop at 380' BGL. Circ, replace mud with 25 bbl 10# brine. TOOH.

Prepare to cement. Establish injectivity down casing, 2.7 bpm, 500 psi. Mix and pump 1120 sx Class H cement, (16.4 ppg, 1.06 yield), + 2% CaCl₂. Bulk trucks began having delivery issues. Cut cement, displaced cement down casing to 300'.

All snubbing equipment released.

SD, WOC minimum 12 hours.

2-7-25:

TIH, tagged TOC at 264'. PT casing, started 600 psi, pressured up to 775 psi in 30 minutes. Bled off pressure.

Later in the day casing pressure had built to 100 psi, pressure bled off again and then SI to allow to build. BH = 0.

Snubbing equipment and associated equipment rigging down and leaving.

2-8-25:

SICP = 200 psi, BH = 0

Snubbing equipment moving off site.

2-9-25:

SICP = 200 psi, BH = 0.

2-10-25:

SICP = 180, BH = 0.

2-11-25:

SICP = 165, BH = 0.

2-12-25:

SICP = 150, BH = 0. Pressure dropped to 20 psi by evening.

2-13-25:

SICP = 20 psi, BH = 0. Ran audio and temperature logs. Ran 4 scraper runs in preparation for CIBP to be set.

2-14-25:

SICP = 0, BH = 0. Set CIBP @ 256'. SI well until Monday.

2-15-25: through 2-17-25:

SICP = 0, BH = 0

2-16-25:

SICP = 0, BH = 0

2-17-25:

SICP = 0, BH = 0

2-18-25:

SICP = 0, BH = 0.

2-19-25:

Rig maintenance work

2-20-25:

Rig maintenance work

2-21-25:

SICP = 0, BH = 0.

MIRU Cement pump. Load hole and pressure test casing to 600 psi for 30 minutes, good test. Pressure test witnessed by Adan Gannaway with BLM.

Perforated holes at 105', established circulation down casing and out BH. TIH with tubing to 256'. Pumped cement from 256' and established cement returns out BH. Closed valve and filled casing with cement to surface. TOOH. WOC.

2-22-25:

ND BOP. Cut off WH. TOC in 9 5/8" surface casing at surface and at 12" in 7" casing. **Install P&A marker, topped off casings and cellar with cement. RD and MO all equipment.**

SOME NOTES:

11-14-24: Had NMOCD conference call with Justin, Ward, John and Loren to discuss options moving forward. Possibly to set casing string past the area of influx so that we can get down and get tubing fish out of the well. DWS is planning to MO Rig 35 (single/double) and MI Rig 33 (double /triple). Awaiting Santa Fe BLM approval switch rigs. Time to evaluate other options.

11-20-24: NMOCD, DWS meeting at Aztec office; DWS, Chad Cole Ethan Wakefield. NMOCD, John Garcia, Tony Harris, Stacey Sandoval, Loren Diede, Ward Rikala, Gilbert Cordero, Jim Griswold, Justin Wrinkle. Discussed RDMO Rig 35, MIRU Rig 33. Larger BOP stack, annular BOP, plan to clean out with 2 7/8" tbg, possibly run casing string.

12-11-24: Tech meeting conf call with BLM: BLM; Chris Walls, Keith Lamotty, Zota Stevens. NMOCD; Justin Wrinkle, John Garcia, Loren Diede.

12-12-24: Conf call with BLM. BLM; Chris Walls, Jim Amos. NMOCD; John Garcia.

12-17-24: Conf call, John, Gilbert, Justin, Loren to discuss Buckskin 002 well and snubbing.

12-18-24: Conf call, John, Jim, Gilbert, Loren. Discussing Buckskin 002 snubbing. Conf call with BLM. Discussed sending water samples to Halliburton for water analysis and their opinion regarding cement setting issues. Discussed MIRU DWS Rig 33 with mud pit, pump and shakers. Plan to RIH with WL and get current tag, run CBL from tag to surface to determine cement quality between 7" and surface casing. Re enforce WH and surface casing to hold larger BOPs. Circulate mud to build mud cake, pump cement to seal off influx, drill out and evaluate for continuation of P&A. Discussed decision point for 24 hour operation. Discussed possible option for snubbing.

12-20-24: Conf call, Jim, John, Loren, Chad discussing snubbing details and possible organization for snubbing operation.

Made phone calls to Cased Hole Well Services to begin snubbing fact-finding. Talked with Andrew Adams and Joseph Ghanavati about well issues and plan for snubbing. CHWS will review information and send snubbing information. We discussed well-site supervision from a consulting firm utilizing someone with snubbing experience, was given contact for Sam Bowden with Well Control Solutions. Talked with Sam about having WCS consulting on this project.

Updated WBD for current conditions to use in next conf call.

12-23-24: Set a Teams meeting with DWS, NMOCD, CHWS and WCS for Friday 12-26.

2-11-25: Conference call with Chad, Rusty, Stacey, Andy, John, Loren

Final P&A Configuration, (2-22-2025)

Buckskin Federal # 002

API # 30-025-27024

SE/SW, Unit N, Sec 18, T24S, R38E

Lea County, NM

GL 3174'

KB 3186'

Spud Date 10/6/1980

SURF CSG

Hole size 12.25"
 Csg Size: 9.625"
 Wt: ?
 Grade: ?
 ID: ?
 Depth 418'
 TOC: Surf
 (250 sx)

FORMATION TOPS

Rustler 1255'
 Tansil 2595'
 Yates 2823'
 Queen 3618'

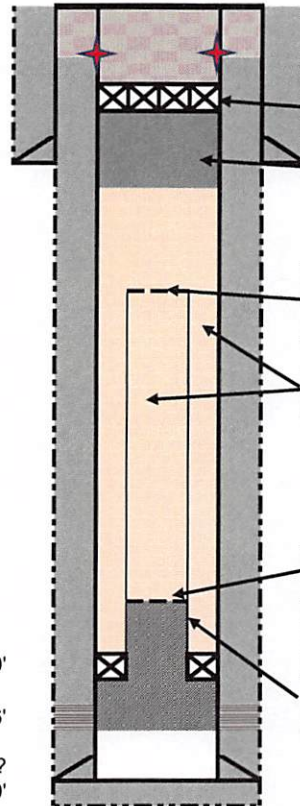
PROD CSG

Hole size 8.75"
 Csg Size: 7"
 Wt: ?
 Grade: ?
 ID: ?
 Depth 4000'
 TOC: 130' CBL

AD-1 packer ? 3650'

Perfs 3761'-3896'

PBTD ?
 TD 4000'



2-22-2025: Cut off WH, top off with 20 sx Class H cement, install P&A marker.

2-21-2025: PT casing to 600 psi, good test. Perf casing at 105', mix and place 79 sx Class H cement inside from 264', outside from 110' to surface.

2-14-2025: Set CIBP at 256'. Monitor pressure in 7" casing = 0.

2-6-2025: MIRU Snubbing Unit: Attempt to clean out to 1300'. Could not get past 453'. Pumped 1120 sx Class G cement, displace to 264'. Pressure at 200 psi, dropped to 20 psi in 3 days.

Top of 2 3/8" plastic lined injection tubing at 918'.

7" casing and 2 3/8" tbg filled with formation material, sand, gravel and rocks.

Tbg cut at 2355', above the internal TOC. Could not pull tbg.

Cement pumped through tbg, under packer and into perfs, TOC inside tbg at 2405'

Original 2 3/8" plastic coated injection tubing set with packer at 3650'.

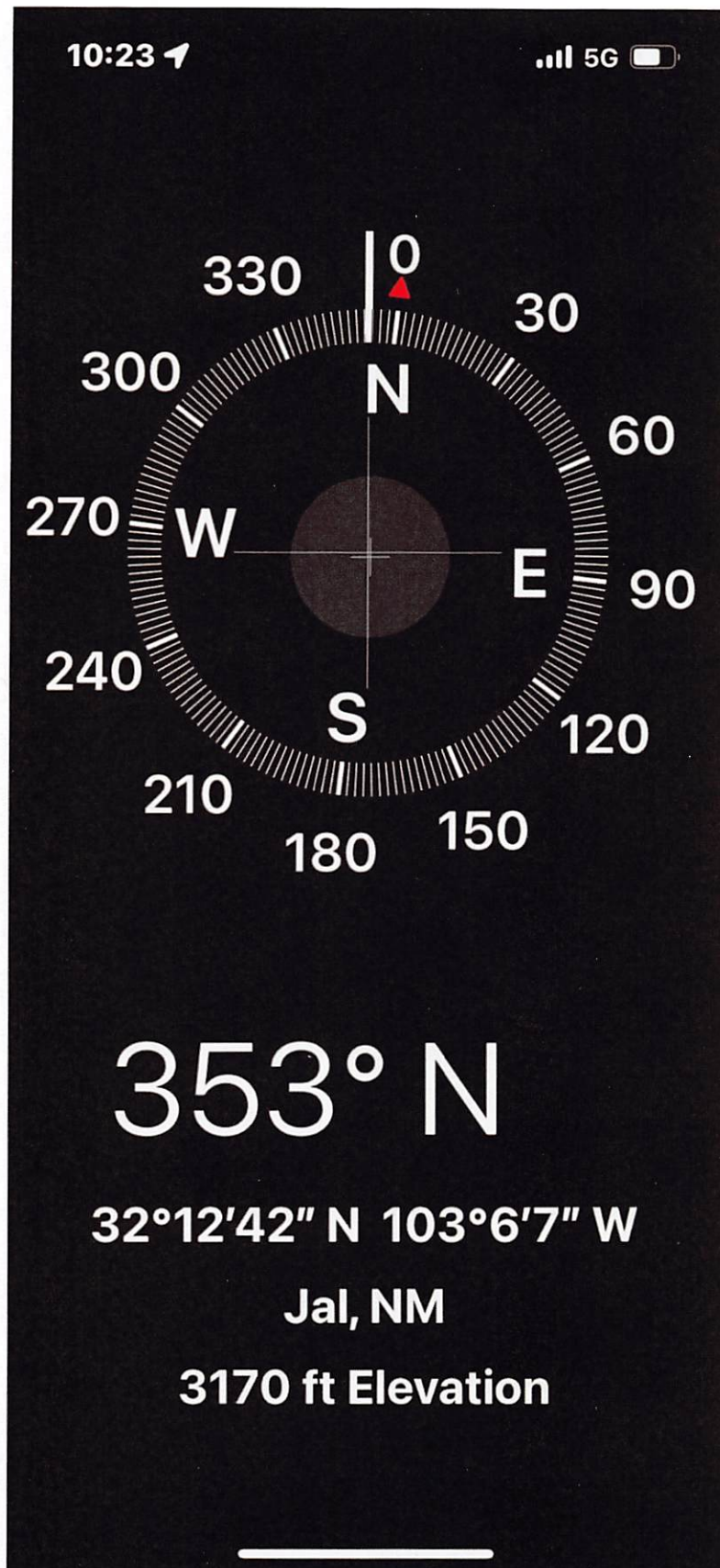


Figure 1: GPS



Figure 2: Marker



Figure 3: Cutoff



Figure 4: Marker II



Figure 5: Marker III

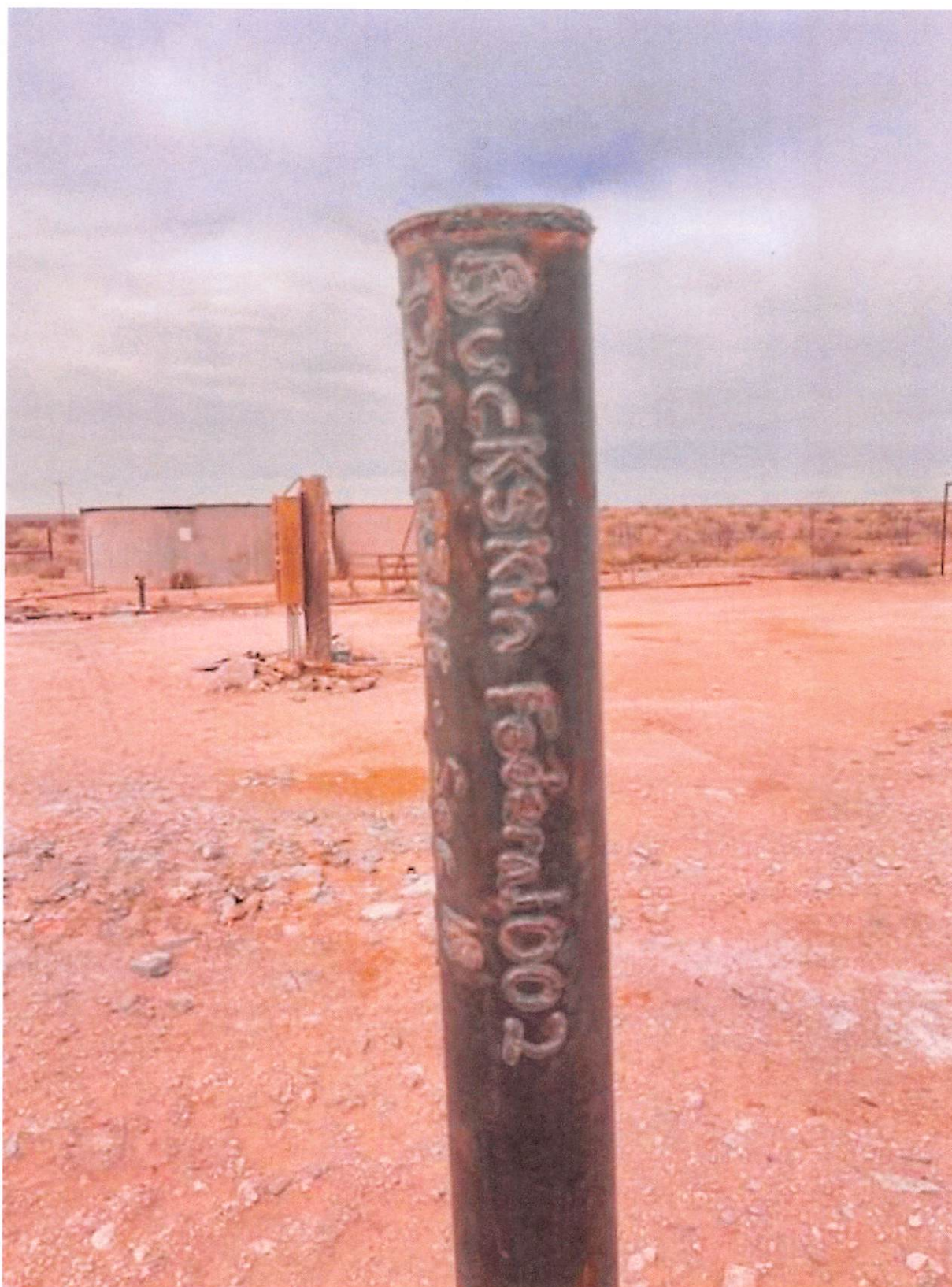


Figure 6: Marker IV

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<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 443779

CONDITIONS

Operator: Energy Acumen LLC 10103 Gutierrez Rd NE Albuquerque, NM 87111	OGRID: 373817
	Action Number: 443779
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	None	3/28/2025