

KO Wa Me # 1

WC Drilling Report: Spud to P+A

6/15 thru 6/26

5/16 MIRU Wyoming Casing Conductor/Mousehole rig. Dug 8' X 6' cellar, drill 26" hole to 80' BGL ran 2 jts 20" pipe welded together for conductor to 80' BGL, centered and cemented in place WOC and drill 24" hole to 75' BGL, saw no communication with conductor hole. Set 14" pipe at 75' BGL and cement. Welded plate on conductor and mousehole. Fenced cellar. MOL

6/15 Make up BHA including 17 1/2" bit, mud motor, NMDC w/ MWD, X-over and DP. Spud well and drill 17 1/2" hole to 288' and lost returns. Pull off bottom and run 3-25 bbl 50 vis gel sweeps. Fill pits to replace losses. Spot 3 buckets of polymer down DP, PU 6-6 1/2" DCs and commence drilling. No returns throughout. Drill to 925' TD. TOOH to 222', hole tight. Washed hole back down to 925' due to pipe drag. TOOH w/ BHA and prepare to run casing.

While TOOH pipe got stuck at 197'. Pull 20-40K over string weight while pumping down the backside. No movement.

Discuss fishing options, decided to put bit breaker around DP, install collar clamp, lock rotary table and breakout the stand that we had been working to free up the string. Broke it out, mouse holed it. PU jt of HWDP and XO to top drive, screw into fish and began pumping down drill string at 50 -200 gpm. Rotating at 30 rpm and 3000 ft-lbs torque going down. Worked string 30' down to 223'. at 2 - 4K torque. Began back-reaming out at 30 rpm, torqued up around 197', Worked string up to 14K torque to 192', ream back to 223', Back-ream again to 187', stalling out at 15K torque. Ream in to 223', turn off pumps, back ream dry at 30 rpm to 187', torqued up to 15K. Ream to bottom. Pump down annulus while back-reaming and kept coming out of hole with torque from 5K - 10K to 133'. Continued pumping down annulus and worked back to 197'. Pipe free. Make a wiper run.

TOOH with BHA and LD. RU Casing crew and run 13 3/8", 54.5# J-55 BTC casing as follows:
FS @ 925',
1 jt of csg.,
FC @ 880'
21 jts csg
Total of 927' of casing was run

Centralizers were spaced as follows:

Centralizer on jts 1 to 4

1 Centralizer every other joint from 6 to 20

12 Total Centralizers ran.

Wash and ream casing to bottom. **BLM's Wanda Weatherford on site to witness casing run.**

RU ProPetro Cementers: Pumped 20 bbls red dyed gel water spacer

Followed by 184 bbls (345sx) lead cement mixed at 12.5 ppg and tailed with 48 bbls (200sx) cement mixed at 14.8 ppg. Displaced with 100 bbls fresh water. SD for 5 minutes. Pumped 3 bbls after hesitation when casing pressured up to 2000#. Could not establish circulation. Bleed off pressure, Float held ok. Estimate 200' cement inside casing.

RU for top job. PU 120' of 1" pipe and run in the 17 1/2" X 13 3/8 annulus. Tagged up at 105' with 15' of tbg above table (possible centralizer/TOC). LD one jt with the tbg now at 88'. **Received verbal approval from BLM's Kenny Rennick to forego CBL and TS based on casing size and to allow pumping the top job with 1" set at 88'.**

Mouse Hole leaked allowing cellar to file up with water and sand. Pump and CO mouse hole to expose conductor valve for top job. Pump 10 bbls of water ahead and circulated through valve. Pumped 15 bbls of cement and had 5 bbls returned to surface. Dropped sugar and CO Celler. WOC and verify top. PU 2 jts of 1" and tag cement at valve in the cellar. No cement fall back.

BLM's Tyler Offerle onsite to witness cement job.

5/17 Cut riser and 13 3/8 and install Cameron WH. Test Cameron WH to 900# Held Ok. NU BOPE to test. **BLM's Bill Diers and Lucas Mason onsite to witness BOPE tests.**

All BOPE tested OK except HCV Valve found leaking.

5/18 Replaced HCR Valve and tested OK. Make up BHA and prepare to RIH.

5/19 TIH w/ BHA and tag cement @717'. DO cement FC and FS. Drill 10' of new hole to 935' and conduct Injectivity test as follows:

EMW = 9.4 ppg
8.4 ppg MW
51 psi

Conduct BOP Drills w/ rig crew. Drill to 1035' w/ 8.4 ppg MW at 27 vis.

Drill to 1460' w/ 8.5 ppg MW @ 27 vis

Take SPR @ 1554' w/ 8.5 ppg MW @ 27 vis. MP#1: 30 stks – 290#, 50 stks – 465#, 70 stks – 560#. MP#3: 30 stks – 235#, 50 stks – 425#, 70 stks – 520#

Hole taking fluid at between 80 to 175 bbls per hr. Down to 10% returns @ 1672'

PU and slow stroke pumps and work pipe while building non organic LCM sweeps.

5/20 Pump 2-25 bbl LCM sweeps. Returns increased to 42%. Control drill with 100 ROP from 1672' to 1803'. Hole taking approximately 60 bbls and hr. Continue control drilling from 1803' to 2088' with 200 ROP, rotating and sliding to maintain directional profile. Hole taking approximately 80 bbls per hr. Pump LCM sweeps to control losses.

Continue control drilling w/ 200 ROP from 2088' to 2312'. Rotate and slide to maintain directional profile. Hole taking approximately 80 bbls per hr. Pump LCM to control losses.

Control drill w/ 200 ROP from 2312' to 2545'. Rotate and slide. Take SPR @ 2314' (TVD = 2292'), WOB: 0-8, Torque 1.5 – 6k, GPM: 380-430, SPP: 650-1100, MW=8.4, Vis 27. MP1 30 stks: 130#, 60 stks: 250#, 80 stks: 340#. MP3, 30 stks: 130#, 60 stks: 250#, 80 stks: 345#. Hole taking 80 bbls per min. Pump LCM sweeps to control losses.

Control drill from 2545' to 2685'. Rotate and slide to maintain directional profile. Hole took 30 bbl drink in 5 min @ 2627', pumped 30 LCM sweep. Hole taking approximately 80 bbls hr.

Control drill at 100 ROP from 2685' to 2974'. Rotate and slide. Take SPR @ 2880' (TVD = 2819') w/ 8.4 MW. Hole took 20 bbls drink @ 2820', pumped 30 bbl LCM sweep. Hole still taking approximately 80 bbls per hr.

Continue control drilling at 100 ROP from 2974' to 3320'. Rotate and slide. MW = 8.4 ppg w/ vis at 27. Hole taking 80 bbls per hr. Pump LCM to control losses.

Continue control drilling from 3320' to 3447'. Rotate and slide to maintain directional profile. Take SPR @ 3373' (3276' TVD) w/ 8.4 MW. Hole taking 80 bbls. Pump LCM sweeps to control losses.

6/21 Continue control drilling from w/ 100 ROP from 3447' to 3543'. Rotate and slide. Take SPR @3373' MD (3276' TVD) w/ MW @8.4#. Hole taking fluid at approximately 80 bbls per hr. Pump LCM. Drilled to 3543' PU to make connection. Pipe stuck while making connection. No returns, unable to slack off or rotate. Continue to pump LCM while working pipe. Suspect pipe is differentially stuck. Call in Yellow Jack Fishing tools. Yellow Jack performed stretch test. Stuck at 1715'. Continue working pipe. Pumping at 170 gpm while working pipe. Pipe free. Back ream coming out. Stuck again at 3291'. No movement up or down. Could not rotate, no circulation. Working pipe.

6/22 Work pipe free at 3291', wash and ream to 3239'. Pipe stuck at 3239'. Pump 200 gpm w/ LCM sweeps. No success. Attempt to fill annulus – Hole taking fluid. Rig up foam unit. Partial to no returns. Working pipe with no success. Established circulation with foam. Lots of sand with returns. Closed in annular BOP and began taking returns through the choke. Blow down casing, and PU jars. Began jarring on drill string. Making to head way. Inspect derrick and top drive. All good. Continue to jar and inspect equipment. Making no head way. Mud up while jarring. Inspect jars. Jars spent. LD jar and tie back into drill string. Mud up while working pipe.

Geologic Tops (MD):

Tertiary Sands 10'

Tertiary Sands to TD @ 3543'

6/23 Pump 50 bbls 77 vis pill w/ LCM followed by 8.7 ppg mud mixed at 57 vis at 200 gpm. Pumped 1280 bbls w/ no returns (2.5 times hole volume).

RU Drake WL unit to recover MWD. Made four runs. No success. Pull WL to 893' to calibrate free point tool. Made two runs but tool would not stay calibrated. Attempted to retrieve MWD again. Made multiple attempts to pull MDW tool w/ no success. POH w/ WL and release unit. Called out for Vibration technology in an attempt release drill string. RU Vibration technology.

6/24 Attempt to work DP free while vibrating. Pumping LCM sweeps @ 100 to 200 gpm. RD Vibration equipment and RU TWG Wireline to run free point. Attempt to free MWD tools. No success. Calibrate free point tool at 888'. 100% free. Pipe 98% free at 1233'. Stuck @ 1522'. TOH with free point tool and TIH with back off tool. **Back off of DP at 1385'. TOH with back off jt. TIH to 1134 to spot plug on TOF. Pumped 89.5 bbls (614') 17.5# Class H cement plug in preparation to dress off and side track past fish.**
0

6/25 Attempt to TOH and pipe hung up. Attempt to work pipe and establish circulation, no success. Circulated at 300 gpm (approximately 170 bbls) lost returns. Spot 40 bbls 35#/bbl LCM pill and displaced with 10 bbls water. Called out for Fishing equipment and free point tools. Hole is staying full. Ran free point found 100% free @ 693'. Back-off @ 693'.

6/26 Plan to P&A. Verbal approval received from Kenny Rennick, BLM Petroleum Engineer to Spot 200' plug on TOF @ 693'. PU 5' and RU Cementers, mix and pump 31 bbls Class C cement w/ 2% cacl., mixed @ 14.8 ppg. 1.34 yield w/ 6.3 gps mix water. WOC and tag cement @ 495'. TOH and leave 1 stand and one single to spot cement from 100' to surface. Mix and pump 30 bbls class C cement mixed

@ 14.8 ppg, 1.34 yield and 6.3 gps mix water. Circulated 10 bbls of cement to surface. ND BOPE and WH and wait on orders.

Approval was also received from BLM to skid rig 30' due North and drill a new well under a new API #.

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

Well Name: KO WA ME	Well Location: T14N / R2E / SEC 11 / NWSW / 35.45534 / -106.7059	County or Parish/State: SANDOVAL / NM
Well Number: 1	Type of Well: OIL WELL	Allottee or Tribe Name: ZIA PUEBLO
Lease Number: 7902171419	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004321337	Operator: BLACK EXPLORATION LLC	

Subsequent Report

Sundry ID: 2801346

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 07/17/2024

Time Sundry Submitted: 09:29

Date Operation Actually Began: 06/24/2024

Actual Procedure: The effective Plug and Abandonment date of this well was on 6/26/2024. Reasons: The subject Wildcat well experienced severe down hole drilling problems causing lost circulation and stuck pipe conditions. As a result, two fish were lost in the hole including the complete BHA, The attached Daily Drilling Report details the drilling and Plug and Abandonment operations that took place because of these drilling conditions. Black Exploration requested and received approval to skid Frontier Rig 27, 30 feet due North in an attempt to avoid the current wellbore path and damage. Skidding the rig allowed us to use the same well pad thereby eliminating unnecessary surface disturbance and other environmental impacts. A final WBD is also attached.

SR Attachments

Actual Procedure

Ko_Wa_Me_1_P_L0A_20240717074555.pdf

Wildcat_Drilling_Report_PA_Ko_Wa_Me1_20240717074506.pdf

Well Name: KO WA ME

Well Location: T14N / R2E / SEC 11 /
NWSW / 35.45534 / -106.7059

County or Parish/State:
SANDOVAL / NM

Well Number: 1

Type of Well: OIL WELL

Allottee or Tribe Name: ZIA
PUEBLO

Lease Number: 7902171419

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004321337

Operator: BLACK EXPLORATION 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: JIM LOVATO

Signed on: JUL 17, 2024 09:25 AM

Name: BLACK EXPLORATION LLC

Title: Consultant

Street Address: 37 Road 3275

City: Aztec

State: NM

Phone: (505) 320-7378

Email address: jalovato59@msn.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Accepted

Disposition Date: 07/17/2024

Signature: Kenneth Rennick

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.

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator		8. Well Name and No.
3a. Address	3b. Phone No. (include area code)	9. API Well No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		10. Field and Pool or Exploratory Area
		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			
<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 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 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.)

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	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 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

Additional Information

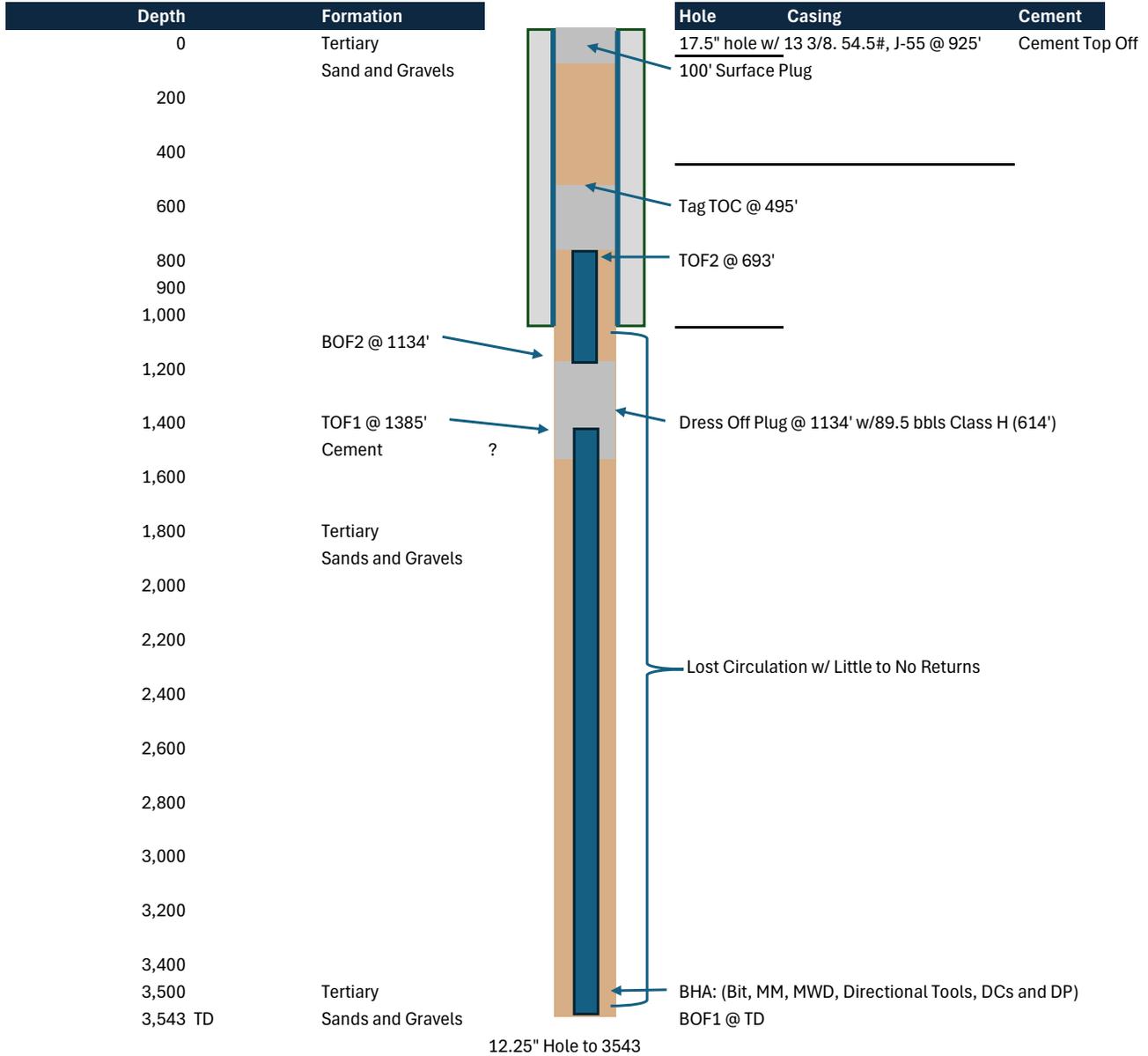
Location of Well

0. SHL: NWSW / 1921 FSL / 654 FWL / TWSP: 14N / RANGE: 2E / SECTION: 11 / LAT: 35.45534 / LONG: -106.7059 (TVD: 0 feet, MD: 0 feet)

BHL: NWSW / 1921 FSL / 654 FWL / TWSP: 14N / RANGE: 2E / SECTION: 11 / LAT: 35.45534 / LONG: -106.7059 (TVD: 0 feet, MD: 0 feet)

CONFIDENTIAL

Well Name	Ko Wa Me 1
API	30-043-21337
Surface Elevation, ft	5579'
Rig KB, ft	27
Total Depth, ft	3543'



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6/23 Pump 50 bbls 77 vis pill w/ LCM followed by 8.7 ppg mud mixed at 57 vis at 200 gpm. Pumped 1280 bbls w/ no returns (2.5 times hole volume).
RU Drake WL unit to recover MWD. Made four runs. No success. Pull WL to 893' to calibrate free point tool. Made two runs but tool would not stay calibrated. Attempted to retrieve MWD again. Made multiple attempts to pull MDW tool w/ no success. POH w/ WL and release unit. Called out for Vibration technology in an attempt release drill string. RU Vibration technology.

6/24 Attempt to work DP free while vibrating. Pumping LCM sweeps @ 100 to 200 gpm. RD Vibration equipment and RU TWG Wireline to run free point. Attempt to free MWD tools. No success. Calibrate free point tool at 888'. 100% free. Pipe 98% free at 1233'. Stuck @ 1522'. TOH with free point tool and TIH with back off tool. **Back off of DP at 1385'. TOH with back off jt. TIH to 1134 to spot plug on TOF. Pumped 89.5 bbls (614') 17.5# Class H cement plug in preparation to dress off and side track past fish.**
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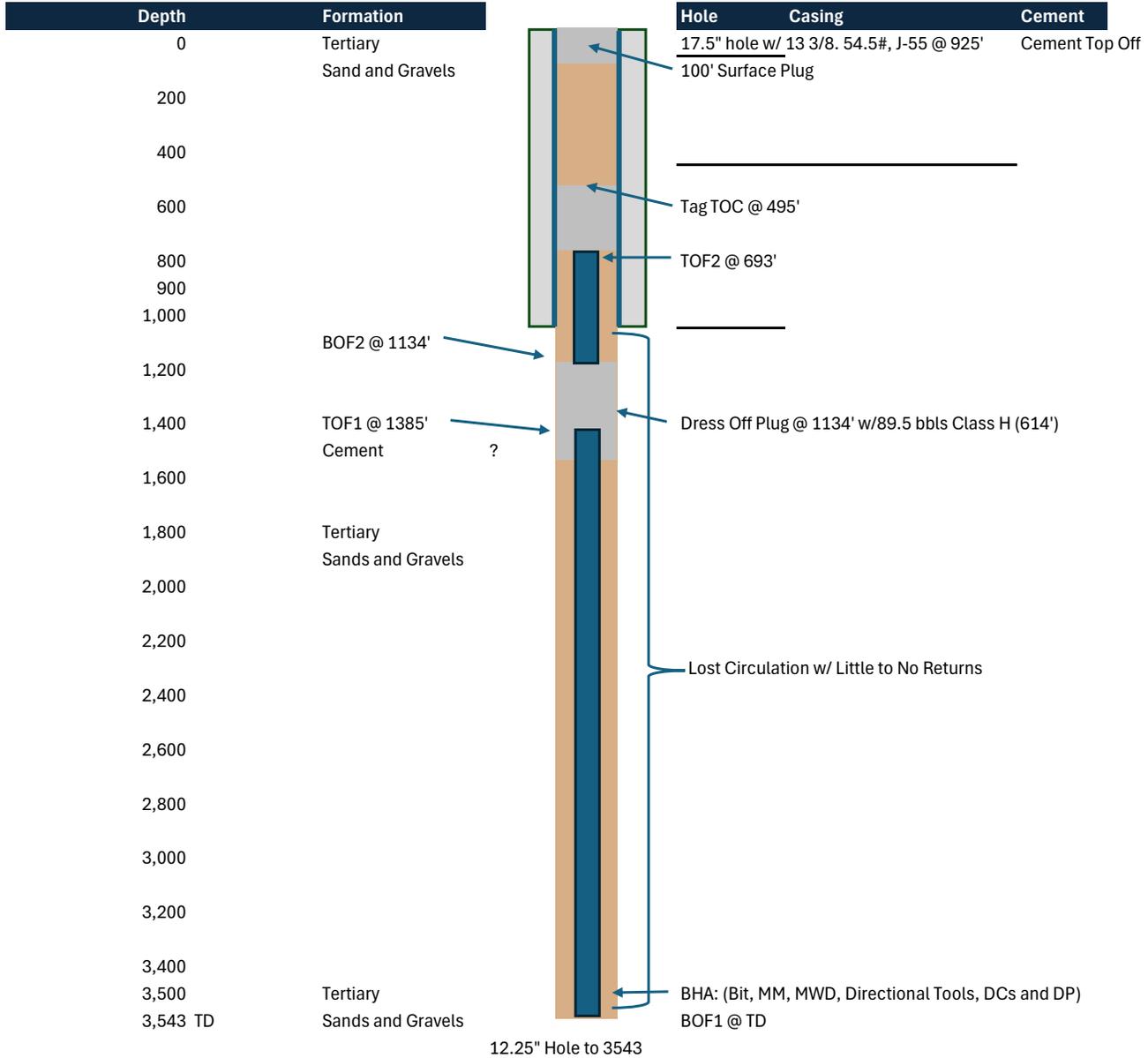
6/25 Attempt to TOH and pipe hung up. Attempt to work pipe and establish circulation, no success. Circulated at 300 gpm (approximately 170 bbls) lost returns. Spot 40 bbls 35#/bbl LCM pill and displaced with 10 bbls water. Called out for Fishing equipment and free point tools. Hole is staying full. Ran free point found 100% free @ 693'. Back-off @ 693'.

6/26 Plan to P&A. Verbal approval received from Kenny Rennick, BLM Petroleum Engineer to Spot 200' plug on TOF @ 693'. PU 5' and RU Cementers, mix and pump 31 bbls Class C cement w/ 2% cacl., mixed @ 14.8 ppg. 1.34 yield w/ 6.3 gps mix water. WOC and tag cement @ 495'. TOH and leave 1 stand and one single to spot cement from 100' to surface. Mix and pump 30 bbls class C cement mixed

@ 14.8 ppg, 1.34 yield and 6.3 gps mix water. Circulated 10 bbls of cement to surface. ND BOPE and WH and wait on orders.

Approval was also received from BLM to skid rig 30' due North and drill a new well under a new API #.0

Well Name	Ko Wa Me 1
API	30-043-21337
Surface Elevation, ft	5579'
Rig KB, ft	27
Total Depth, ft	3543'



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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
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District III
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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

CONDITIONS

Action 366888

CONDITIONS

Operator: BLACK EXPLORATION LLC 206 W 38th St. Farmington, NM 87401	OGRID: 371259
	Action Number: 366888
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	approved for record only - well plugged 6/26/2024	8/2/2024