submitted 4/27/22
ocd id#101973

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. NMLC029426B

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. CROW FEDERAL SWD/1

2. Name of Operator APACHE CORPORATION

9. API Well No. 3001542469

3a. Address 303 VETERANS AIRPARK LANE SUITE 3000, M

3b. Phone No. *(include area code)* (432) 818-1000

10. Field and Pool or Exploratory Area Midway Sunset/SALT WATER DISPOSAL (SWD)

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 9/T17S/R31E/NMP

11. Country or Parish, State EDDY/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.)

trouble shoot wellbore and decide if we have a packer leak or casing leak and repair procedures attached

Accepted for Record Only SUBJECT TO LIKE APPROVAL BY BLM NMOCD 11/17/22 KF

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* ALICIA FULTON / Ph: (432) 818-1088

Title Sr. Regulatory Analyst

Signature

Date 04/06/2022

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by Jonathon W Shepard / Ph: (575) 234-5972 / Approved

Title Petroleum Engineer

Date 04/19/2022

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 CARLSBAD

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: NENE / 890 FNL / 625 FEL / TWSP: 17S / RANGE: 31E / SECTION: 9 / LAT: 32.853792 / LONG: -103.86763 (TVD: 0 feet, MD: 0 feet)

BHL: NENE / 890 FNL / 625 FEL / TWSP: 17S / SECTION: / LAT: 32.853792 / LONG: 103.86763 (TVD: 0 feet, MD: 0 feet)

Objective

There is a either a HIC or leaking pkr. Will scan injection tubing and pending scan may need to replace w/ 3-1/2" IPC tbg. If there is a HIC shallower than allowed pkr setting depth HIC will be squeezed w/ cement.

Procedure

1.0 MIRU WOR, rev unit, with iron and related equipment. Test lines to 250 low and 4,500 high. Set working tanks with treated fluid per Tech Management.

2.0 Bleed off casing gas pressure through choke manifold into battery line. Attempt to bleed of tubing pressure the same way.

- 2.1 Pump down tubing and casing if needed to kill well. Wait 10 min. Ensure well is static.
- 2.2 If building up pressure calculate kill mud weight needed. Verify w/ engineer and superintendent.

3.0 Set BPV in tubing hanger. ND injection tree, NU 5k hydraulic BOPs loaded with 4-1/2" rams and blinds. NU 5k annular BOP. Retrieve BPV. Insert TWC

4.0 Test BOP to 250 low and 4,500 psi. Test annular to 250 low and 2,000 psi high. Retrieve TWC

5.0 RU casing crew.

6.0 RU tbg scanners – Hydrostatic Pipe Services

7.0 Release pkr. Wait 10 min. Ensure well is static

8.0 Scan OOH with injection string, visually inspect tubing. LD injection string. Take pictures and collect samples of any deposition or corrosion on the injection string.

9.0 RDMO casing crew

10.0 Set pipe racks, MI work string 2-7/8", 6.5#, P-110, 8RD EUE

11.0 PU 7" RBP / test packer and WS

12.0 Set RBP at 13,242'. Test RBP to 500 psi. Then test to surface.

- 12.1 If test to surface is good. POOH to RIH w/ prod equip.

12.2 If test is bad check to see if there is a depth 13,200' or deeper that can pass a test to surface. *Deepest depth possible is where injection pkr will be set.*

IF casing does not need to be repaired

13.0 Release RBP. POOH w/ WS and RBP.

14.0 Schedule with OCD to witness MIT test.

15.0 If 4.5" injection string is in good shape re run and same BHA and have GB tech (Tuboscope is a backup option) on location. If not, prep location with 3-1/2" L-80 8RD EUE IPC tubing.

16.0 MIRU hydrotesters.

17.0 RIH w/ injection BHA (B to T) and injection tubing. TTIH to 3,000 psi. BHA below is the contingent BHA. **First choice is the same BHA w/ 4.5" duolined tbg.**

17.1 Pump out plug

17.2 6' sub jt tail pipe 3-1/2"

17.3 Nickel coated injection pkr

17.4 Profile nipple (enter size) (Stainless steel)

17.5 O/O tool

17.6 Landing nipple

17.7 3-1/2" to surface

18.0 Set packer

19.0 Release off O/O. Circulate packer fluid. Engage O/O.

20.0 Space out tubing to set 15k in compression on packer. Land tubing head.

21.0 Test packer to 1,000# for 15 min.

22.0 Pressure up on tbg to eject POP.

23.0 ND BOP

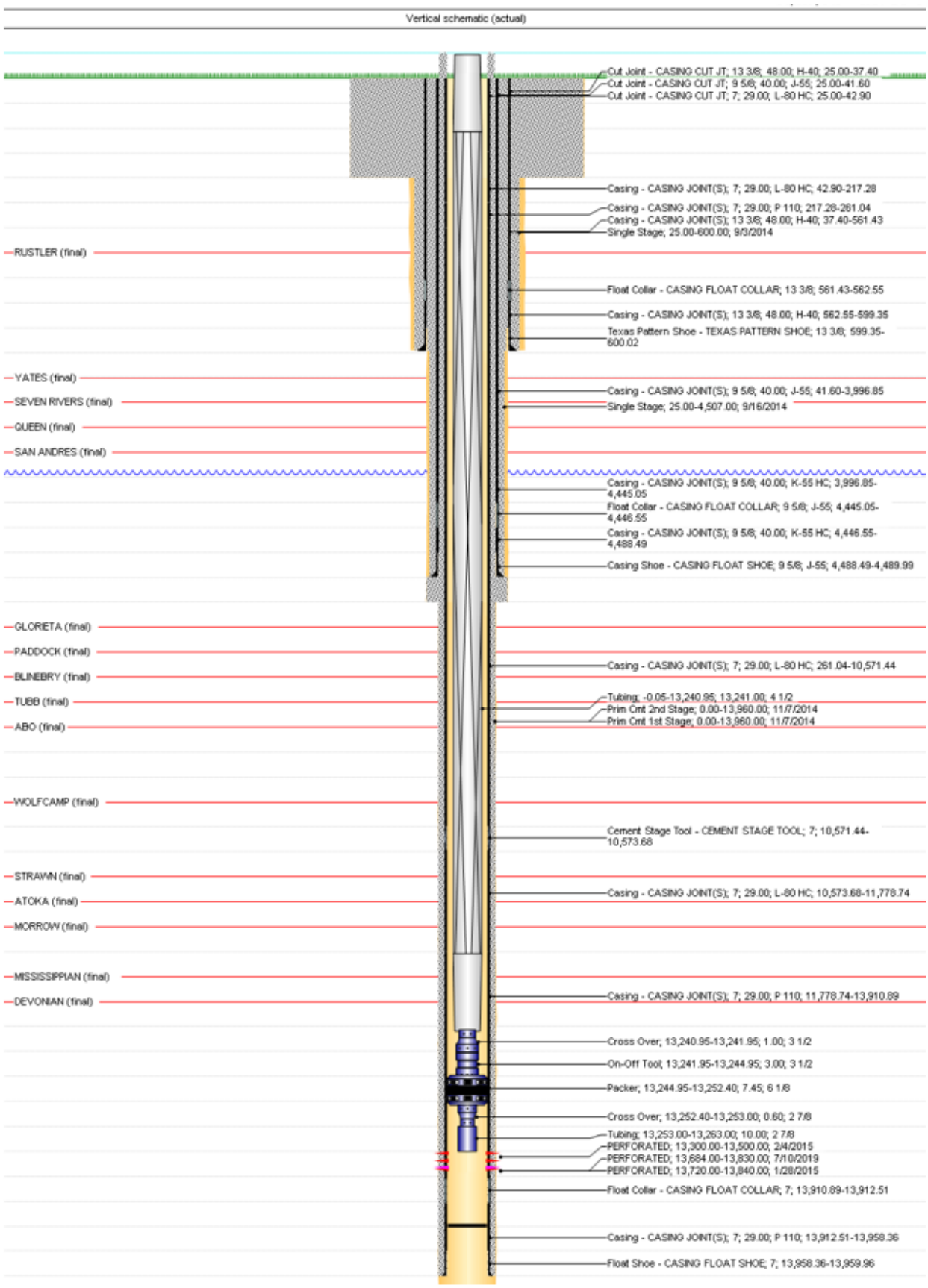
24.0 NU WH.

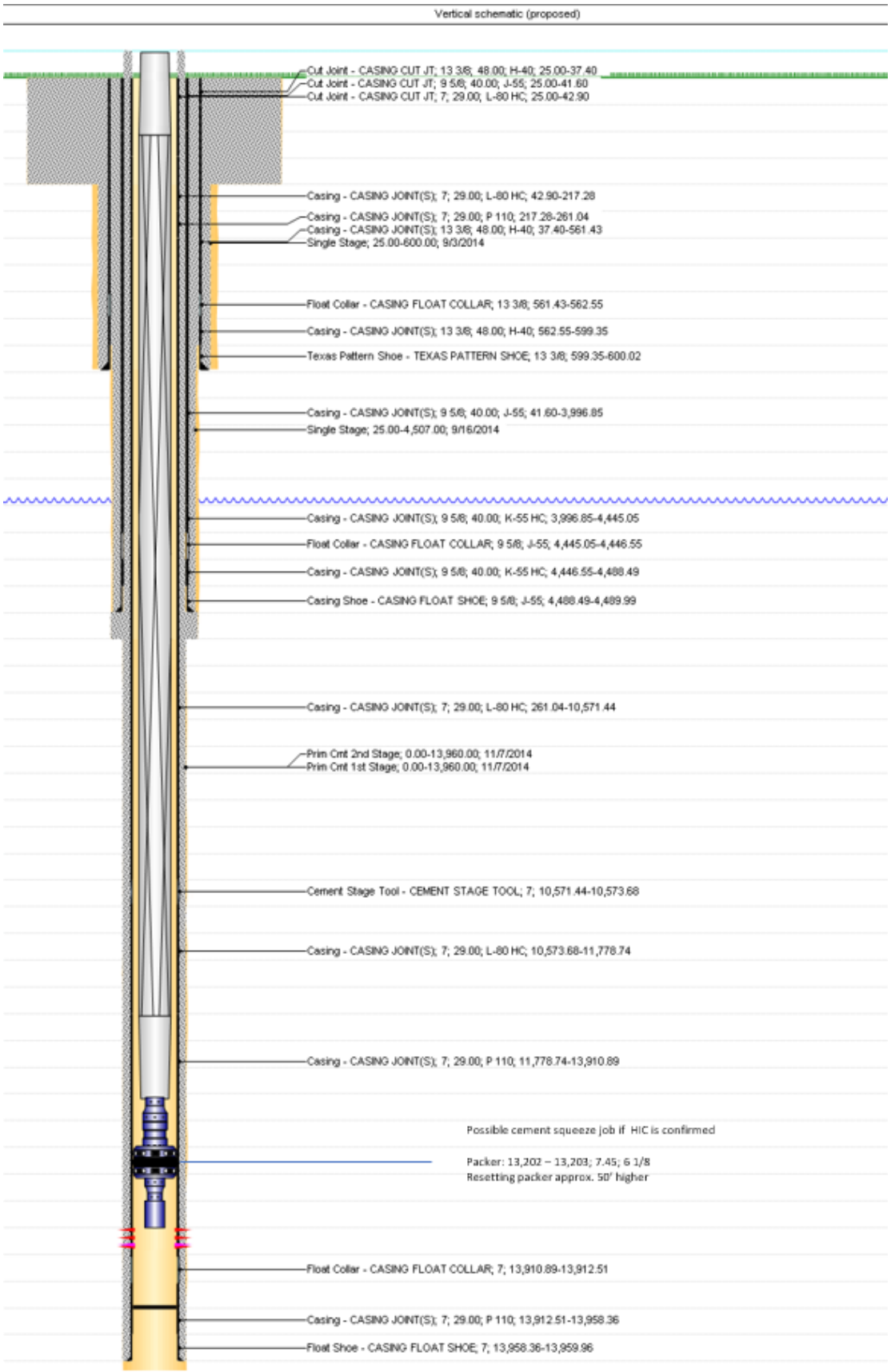
25.0 RDMO WOR

26.0 Perform MIT w/ OCD.

Contingent procedure

13. Dump sand on RBP.
14. Pull up hole and isolate HIC. Determine injection rate and communicate to Petroplex cement company.
15. POOH with test pkr.
16. PU cement retainer and set 75' above the top of the determined leaking interval. Determine injection rate and communicate to cement company. POOH.
    a. Pump through cement retainer at surface to ensure it clear.
    b. Before setting retainer, pump 1.5 tbg capacity. Set retainer.
    c. Sting out of retainer and test tubing to 1000 psi over max pressure. Sting back in.
    d. Pressure test backside to 500 psi.
17. Pump cement per cement company guidelines.
18. Sting out of cement retainer, reverse out, POOH w/ setting tool and shut down for the night, WOC
19. PU 6" bit & TIH w/ WS. DO cement retainer and cement. If returns are still green, discuss shutting down and continuing the next day
20. Pressure test casing to 500 psi.
21. If good POOH and LD bit.
22. PU retrieving head and circulate sand off RBP.
23. Latch onto RBP, release, wait 10 min to ensure well is static. POOH and LD RBP.
24. Proceed from step 14 of original procedure.


Vertical schematic (actual)
Cut Joint - CASING CUT JT; 13 3/8; 48.00; H-40; 25.00-37.40
Cut Joint - CASING CUT JT; 9 5/8; 40.00; J-55; 25.00-41.60
Cut Joint - CASING CUT JT; 7; 29.00; L-80 HC; 25.00-42.90
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 42.90-217.28
Casing - CASING JOINT(S); 7; 29.00; P 110; 217.28-261.04
Casing - CASING JOINT(S); 13 3/8; 48.00; H-40; 37.40-561.43
Single Stage; 25.00-600.00; 9/3/2014
RUSTLER (final)
Float Collar - CASING FLOAT COLLAR; 13 3/8; 561.43-562.55
Casing - CASING JOINT(S); 13 3/8; 48.00; H-40; 562.55-599.35
Texas Pattern Shoe - TEXAS PATTERN SHOE; 13 3/8; 599.35-600.02
YATES (final)
SEVEN RIVERS (final)
QUEEN (final)
SAN ANDRES (final)
Casing - CASING JOINT(S); 9 5/8; 40.00; J-55; 41.60-3,996.85
Single Stage; 25.00-4,507.00; 9/16/2014
Casing - CASING JOINT(S); 9 5/8; 40.00; K-55 HC; 3,996.85-4,445.05
Float Collar - CASING FLOAT COLLAR; 9 5/8; J-55; 4,445.05-4,446.55
Casing - CASING JOINT(S); 9 5/8; 40.00; K-55 HC; 4,446.55-4,488.49
Casing Shoe - CASING FLOAT SHOE; 9 5/8; J-55; 4,488.49-4,489.99
GLORIETA (final)
PADDOCK (final)
BLINEBRY (final)
TUBB (final)
ABO (final)
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 261.04-10,571.44
Tubing; -0.05-13,240.95; 13,241.00; 4 1/2
Prim Cmt 2nd Stage; 0.00-13,960.00; 11/7/2014
Prim Cmt 1st Stage; 0.00-13,960.00; 11/7/2014
WOLFCAMP (final)
Cement Stage Tool - CEMENT STAGE TOOL; 7; 10,571.44-10,573.68
STRAWN (final)
ATOKA (final)
MORROW (final)
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 10,573.68-11,778.74
MISSISSIPPIAN (final)
DEVONIAN (final)
Casing - CASING JOINT(S); 7; 29.00; P 110; 11,778.74-13,910.89
Cross Over; 13,240.95-13,241.95; 1.00; 3 1/2
On-Off Tool; 13,241.95-13,244.95; 3.00; 3 1/2
Packer; 13,244.95-13,252.40; 7.45; 6 1/8
Cross Over; 13,252.40-13,253.00; 0.60; 2 7/8
Tubing; 13,253.00-13,263.00; 10.00; 2 7/8
PERFORATED; 13,300.00-13,500.00; 2/4/2015
PERFORATED; 13,684.00-13,830.00; 7/10/2019
PERFORATED; 13,720.00-13,840.00; 1/28/2015
Float Collar - CASING FLOAT COLLAR; 7; 13,910.89-13,912.51
Casing - CASING JOINT(S); 7; 29.00; P 110; 13,912.51-13,958.36
Float Shoe - CASING FLOAT SHOE; 7; 13,958.36-13,959.96


Vertical schematic (proposed)
Cut Joint - CASING CUT JT; 13 3/8; 48.00; H-40; 25.00-37.40
Cut Joint - CASING CUT JT; 9 5/8; 40.00; J-55; 25.00-41.60
Cut Joint - CASING CUT JT; 7; 29.00; L-80 HC; 25.00-42.90
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 42.90-217.28
Casing - CASING JOINT(S); 7; 29.00; P 110; 217.28-261.04
Casing - CASING JOINT(S); 13 3/8; 48.00; H-40; 37.40-561.43
Single Stage; 25.00-600.00; 9/3/2014
Float Collar - CASING FLOAT COLLAR; 13 3/8; 561.43-562.55
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Single Stage; 25.00-4,507.00; 9/16/2014
Casing - CASING JOINT(S); 9 5/8; 40.00; K-55 HC; 3,996.85-4,445.05
Float Collar - CASING FLOAT COLLAR; 9 5/8; J-55; 4,445.05-4,446.55
Casing - CASING JOINT(S); 9 5/8; 40.00; K-55 HC; 4,446.55-4,488.49
Casing Shoe - CASING FLOAT SHOE; 9 5/8; J-55; 4,488.49-4,489.99
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 261.04-10,571.44
Prim Cmt 2nd Stage; 0.00-13,960.00; 11/7/2014
Prim Cmt 1st Stage; 0.00-13,960.00; 11/7/2014
Cement Stage Tool - CEMENT STAGE TOOL; 7; 10,571.44-10,573.68
Casing - CASING JOINT(S); 7; 29.00; L-80 HC; 10,573.68-11,778.74
Casing - CASING JOINT(S); 7; 29.00; P 110; 11,778.74-13,910.89
Possible cement squeeze job if HIC is confirmed
Packer: 13,202 – 13,203; 7.45; 6 1/8
Resetting packer approx. 50' higher
Float Collar - CASING FLOAT COLLAR; 7; 13,910.89-13,912.51
Casing - CASING JOINT(S); 7; 29.00; P 110; 13,912.51-13,958.36
Float Shoe - CASING FLOAT SHOE; 7; 13,958.36-13,959.96

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

CONDITIONS

Action 116550

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	873
	Action Number: 116550
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Like approval from BLM	11/17/2022