

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

HOBBS OCD
RECEIVED
AUG 22 2019

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No. NMLC062269A
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. GHOST RIDER 22-15 FEDERAL COM 205H
9. API Well No. 30-025-45772-00-X1
10. Field and Pool or Exploratory Area WILDCAT BONE SPRING
11. County or Parish, State LEA COUNTY, NM

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator APACHE CORPORATION	
Contact: SORINA L FLORES E-Mail: sorina.flores@apachecorp.com	
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432.818.1167 Fx: 432.818.1167
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T24S R32E SESW 442FSL 2286FWL 32.197010 N Lat, 103.663681 W Lon	

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Well Integrity
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Recomplete
	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Change to Original APD
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Plug Back

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 recompleat 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 recompleat 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 reclamatation, have been completed and the operator has determined that the site is ready for final inspection.

NMB000736

Apache request the following changes to csg:

OLD: Interm csg - 0-4860' MD 4860' TVD, 9-5/8 J55 40# LTC, Collapse: 1.99, Burst: 1.91, Body tensile safety factor: 2.17, Joint tensile safety factor: 1.81

NEW: Interm csg - 0-4800' TVD/MD, 9-5/8" J55 40# LTC Collapse: 1.99, Burst: 1.93, Body tensile safety factor: 2.18, Joint tensile safety factor: 1.81

Apache request the following changes to cmt:

OLD: Interm single stage: Lead: 0-3888' MD, 645sx Cl C w/10% CaCl2, 6% gel, 1% MgOx-M, 0.125#/sk

Carlsbad Field Office
OCD Hobbs

14. I hereby certify that the foregoing is true and correct. Electronic Submission #475277 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 07/29/2019 (19PP2625SE)	
Name (Printed/Typed) SORINA L FLORES	Title SUPV DRLG SERVICES
Signature (Electronic Submission)	Date 07/25/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JONG VO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/07/2019</u>
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 Hobbs

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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Additional data for EC transaction #475277 that would not fit on the form

32. Additional remarks, continued

durafiber, 0.7% retarder(2.32yld,12.7ppg,1496.4cu/ft); Tail: 3888-4860', 285sx Cl C w/10% CaCl₂,1%MgOx-M, 0.4% Dispersant, 0.4%retarder(1.42yld,14.8ppg,404.7cu/ft)

Interm 2 stage cmt job 1st stage: Lead: 2280'-3888 320sx Cl C w/10% CaCl₂, 1% MgOx-M, 0.125#/sk durafiber, 0.7% retarder(2.32yld, 12.7ppg,742.4cu/ft) Tail: 3888-4860' w/285sx Cl C w/10% CaCl₂, 1% MgOx-M, 0.4% dispersant, 0.4% retarder(1.42yld,14.8ppg,404.7cu/ft), Stage tool/ECP 2280', 2nd Stage Lead: 0-1754', 285sx Cl C w/10% CaCl₂, 1% MgOx-M, 0.4% dispersant, 0.1% retarder (2.32yld,12.7ppg,661.2cu/ft) Tail: 1754'-2280, 145sx Cl C w/10% CaCl₂, 1% MgOx-M, 0.4% dispersant, 0.1% retarder (1.42yld,14.8ppg,205.9cu/ft)

NEW: Interm1 csg - 0-3480', 645sx Cl C w/10% CaCl₂, 6% gel, 1% MgOx-M, 0.55% retarder(2.32yld,12.7ppg,1496.4cu/ft); Tail: 3840-4800 w/300sx Cl C w/0.3% retarder (1.33yld,14.8ppg,399cu/ft)

Interm 2 stage cmt job 1st stage: Lead: 2280-3840' w/315sx Cl C w/10% CaCl₂, 6% gel, 1% MgOx-M, 0.55% retarder (2.32yld,12.7ppg,730.8cu/ft) Tail: 3840-4800' w/300sx Cl C w/0.3% retarder (1.33yld, 14.8ppg,399cu/ft), Stage tool/ECP: 2280', 2nd Stage Lead: 0-1600', 265sx Cl C w/10% CaCl₂, 6% gel, 1% MgOx-M, 0.55% retarder (2.32yld,12.7ppg,614.8cu/ft); Tail: 1600-2280' w/200sx Cl C w/0.3% retarder (1.33yld,14.8ppg,266cu/ft)

OLD: Prod LEAD1: 4660'-7500, 230sx TXI lite w/5% CaCl₂, 12% 3M beads, 22% 3M beads, 0.2% fluid loss, 0.1% suspension aid, 0.4% retarder (3.71yld, 9ppg,853.3cu/ft); LEAD2: 7500-10111' w/315sx TXI lite, 3% CaCl₂, 1% MgOx-M, 0.15% fluid loss, 0.15% suspension aid, 0.4% retarder(2.54yld,11ppg,800.1cu/ft) TAIL: 10111-18158' w/1535sx TXI lite w/1.3% CaCl₂, 5% MgOx-H, 0.5% fluid loss, 0.1% antissettling, 0.3% retarder, 0.2% dispersant, 0.4% defoamer

NEW: Prod LEAD1: 4600-7500' w/235sx Nine lite w/5% CaCl₂, 12% 3M beads,22%3M beads,0.2% fluid loss, 0.1% suspension aid, 0.4% retarder (3.71yld, 9ppg, 871.85cu/ft); LEAD2- 7500-10111', 315sx Nine lite w/same additives as approved; TAIL:10111-18158',1535sx Nine lite w/same additives as approved

***Please see attached csg & cmt plan

GHOST RIDER 22-15 FEDERAL COM 205H - CMT PLAN-REV 5.13.19

CEMENT: SURFACE

Stage Tool Depth: N/A

Single Stage

Lead:

Top MD of Segment: 0

Btm MD of Segment: 750

Cmt Type: C

Cmt Additives: 4% Bentonite + 1% CaCl2

Quantity (sks): 385

Yield (cu/ft/sk): 1.75 Volume (cu/ft): 673.75

Density (lbs/gal): 13.5 Percent OH Excess: 25%

Tail:

Top MD of Segment: 750

Btm MD of Segment: 1050

Cmt Type: C

Cmt Additives: 1% CaCl2

Quantity (sks): 226

Yield (cu/ft/sk): 1.33 Volume (cu/ft): 300.58

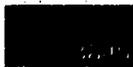
Density (lbs/gal): 14.8 Percent OH Excess: 25%

CEMENT: INTERMEDIATE

Single Stage

Lead:

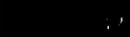
Top MD of Segment: 0

Btm MD of Segment: 

Cmt Type: C

Cmt Additives: 

Quantity (sks): 

Yield (cu/ft/sk):  Volume (cu/ft): 149.4

Density (lbs/gal):  Percent OH Excess: 25%

Tail:

Top MD of Segment: [REDACTED]

Btm MD of Segment: [REDACTED]

Cmt Type: C

Cmt Additives: [REDACTED]

Quantity (sk): [REDACTED]
Yield (cu/ft/sk): [REDACTED]
Density (lbs/gal): [REDACTED]

Volume (cu/ft): [REDACTED]
Percent OH Excess: 25%

2 Stage Cement Job

* DVT depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DVT will be set a minimum of 50 feet below previous csg and a minimum of 200 feet above current shoe. Lab reports with 500psi compressive strength time for cmt will be onsite for review.

*If lost circulation is encountered, Apache may 2-stage Interim csg. A DVT may be used in the 9-5/8" csg & ECP may be placed below DVT.

1st Stage

Lead:

Top MD of Segment: [REDACTED]

Btm MD of Segment: [REDACTED]

Cmt Type: [REDACTED]

Cmt Additives: [REDACTED]

Quantity (sk): [REDACTED]
Yield (cu/ft/sk): [REDACTED]
Density (lbs/gal): [REDACTED]

Volume (cu/ft): [REDACTED]
Percent OH Excess: 25%

Tail:

Top MD of Segment: [REDACTED]

Btm MD of Segment: [REDACTED]

Cmt Type: [REDACTED]

Cmt Additives: [REDACTED]

Quantity (sk): [REDACTED]
Yield (cu/ft/sk): [REDACTED]
Density (lbs/gal): [REDACTED]

Volume (cu/ft): [REDACTED]
Percent OH Excess: 25%

Stage Tool / ECP Depth: ± 2280'

2nd Stage

Lead:

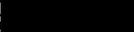
Top MD of Segment: 0

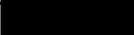
Btm MD of Segment: 

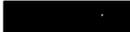
Cmt Type: C

Cmt Additives: 

Quantity (sks): 

Yield (cu/ft/sk): 

Density (lbs/gal): 

Volume (cu/ft): 

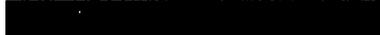
Percent OH Excess: 25%

Tail:

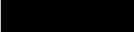
Top MD of Segment: 

Btm MD of Segment: 

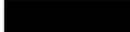
Cmt Type: C

Cmt Additives: 

Quantity (sks): 

Yield (cu/ft/sk): 

Density (lbs/gal): 14.8

Volume (cu/ft): 

Percent OH Excess: 25%

CEMENT: PRODUCTION

200' of tieback into intermediate string

Single Stage

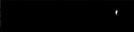
Lead 1:

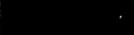
Top MD of Segment: 

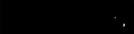
Btm MD of Segment: 

Cmt Type: TXI Lite

Cmt Additives: 

Quantity (sks): 

Yield (cu/ft/sk): 

Density (lbs/gal): 

Volume (cu/ft): 

Percent OH Excess: 20%

Lead 2:

Top MD of Segment: 

Btm MD of Segment: 

Cmt Type: TXI Lite

Cmt Additives:

Quantity (sks):

Yield (cu/ft/sk):

Density (lbs/gal):

Volume (cu/ft):

Percent OH Excess:

20%

Tail:

Top MD of
Segment:

Btm MD of
Segment:

Cmt Type: TXI Lite

Cmt Additives:

Quantity (sks):

Yield (cu/ft/sk):

Density (lbs/gal):

Volume (cu/ft):

Percent OH Excess:

20%