

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-015-40076
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. X0-0647-0408
7. Lease Name or Unit Agreement Name WASHINGTON 33 STATE [309175]
8. Well Number #052
9. OGRID Number 873
10. Pool name or Wildcat [96830] ARTESIA; GLORIETA-YESO (O)

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator  
Apache Corporation

3. Address of Operator  
303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705

4. Well Location  
Unit Letter H : 2325 feet from the FNL line and 465 feet from the FEL line  
Section 33 Township 17S Range 28E NMPM County EDDY

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3673' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: DO CIBP & ACIDIZE <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache is requesting permission to drill out the CIBP and 35' of cement at 4330 & acidize the Glorieta/Paddock/Blaineby

RECEIVED

AUG 20 2019

DISTRICT II-ARTESIA O.C.D.

Spud Date:

08/04/2012

Rig Release Date:

08/10/2012

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE alicia fulton TITLE Reg Analyst DATE 8/15/2019

Type or print name Alicia E-mail address: alicia.fulton@apachecorp.com PHONE: (432) 818-1088

For State Use Only

APPROVED BY: Raymond H. Dooling TITLE Geologist DATE 8-21-19  
Conditions of Approval (if any):



AFE: 11-19-0852

**Well name: Washington 33 State #52**

API Number: 30-015-40076

County, State: Eddy, NM

Legals: SEC-33 TWP-17S RGE-28E

Depths: 5150 MD 4295 PBTD

Producing Interval: 3593'-4160' (Glorietta-Yeso)

CSG	OD	Wt/Ft	Cap (bbl/ft)	Top	Set @
Surface	8.625"	24#	0.0609	0'	500'
Production	5.500"	17#	0.0232	0'	5150'

Engineer: Evan Roback 432-818-1186 (o)

[evan.roback@apachecorp.com](mailto:evan.roback@apachecorp.com)

Assistant Foreman: David Pedroza 575-910-3283 (c)

[david.pedroza@apachecorp.com](mailto:david.pedroza@apachecorp.com)

Production Foreman: Javier Berdoza 575-441-5755 (c)

[javier.berdoza@apachecorp.com](mailto:javier.berdoza@apachecorp.com)**What's New:**

- 1) *Drill out cast iron bridge plug w/ 35' cmt @ 4295'*
- 2) *Acidize Blinebry perforations (4360'-5060') w/ 10,500 gallons of 15% HCl and 7000 lbs salt.*
- 3) *Lower SN to 5090'.*
- 4) *Install 1-1/2" rod pump w/ 2-stage, HVR, brass Ni-carb bbl and brass pull tube, alternate (California) ball and seats.*
- 5) *Inspect and replace rods with customer owned as necessary.*
- 6) *Inspect and replace tubing with customer owned as necessary.*

**WELL HISTORY**

The Washington 33 State #52 is a vertical well completed in the Blinebry with 200 klbs of 16/30 sand and 225,000 gallons of water in 8/2012. Due to offset wells seeing higher productivity from the Glorietta & Paddock, the Blinebry was isolated via CIBP in 3/2013 after approximately 5 months of production. The Glorietta/Paddock were then fracked with 260 klbs sand and 200,000 gallons of water. Production increased from 6 BOPD x 40 MCFD x 55 BWPD in the Blinebry to 50 BOPD x 225 MCFD x 200 BWPD in the Glorietta/Paddock.

This well was pulled in 10/2013 due to pump failure likely caused by sand in the pump. In 2015, the Glorietta/Paddock producing zone was acid fracked with 20% HCl and showed great post-workover production uplift.

**WORKOVER SUMMARY:**

The objective of this AFE is to POOH w/ rods and pump. TOOH w/ tubing while scanning. TIH w/ tubing and bit to DO CIBP and 35' cmt, continue CO to TD. Acidize Blinebry w/ 10,500 gal 15% HCl with 7000 lbs salt. TIH w/ tubing while hydro-testing, RIH w/ pump and rods. RTP.

8/14/2019



AFE: 11-19-0852

**PROCEDURE:**

1. MIRU workover rig.
2. POOH w/ rods and pump. Report preliminary findings of the pump and rods (paraffin, scale, sand, rod wear, etc.).
3. Pump produced water as necessary to ND pumping tee. NU 5k double BOP (2-7/8" rams on top and blinds on bottom) and function test. Release TAC (if not set, please note in WellView).
4. TOOH w/ tubing and BHA while scanning.
5. MIRU foam air unit. TIH w/ tubing & 4-3/4" bit to PBTD. DO 35' of cement and CIBP. Continue CO to TD @ 5150'. TOOH w/ bit and tubing.
6. TIH w/ packer and tubing while hydro-testing. We will not be using an RBP for this well. Set packer at +/- 4260', test backside.
7. MIRU acid crew. Verify acid concentration is 15% +/- 1% (titrate). If possible request additives such as inhibitors, surfactants, and iron sequesterant are mixed on location to verify they are present. Verify iron concentration is less than 100 ppm in acid. Circulate tank for 15 minutes to mix additives into solution.
8. Acidize the Blinebry. Test lines to 4,500 psi (MSTP = 3500 psi), bleed off. Set pressure safety valve at 4,500. Establish rate at 3-5bbl/min with brine water. Acidize with 10,500 gallons of NEFE 15% HCl acid with 7000 lbs rock salt in six stages as follows. We may adjust salt volumes based on pressure responses.

PARAMETERS	STAGE											
	1	2	3	4	5	6	Total					
Rate (bbl/min)	4.5	4.5	4.5	4.5	4.5	4.5						
Max Surface Pressure (psi)	3,500	3,500	3,500	3,500	3,500	3,500						
FLUID/STAGE												
Acid - 15% HCl (gal)	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	10,500
Salt / Concentration (#, #/bbl)**	500	500	1,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	7,000
Brine Spacer (bbls)	54	54	54	54	54	54	54	54	54	54	54	268
Total Volume (bbls)	95	95	95	95	95	95	95	95	95	95	95	476
Total Time (min)	21	21	21	21	21	21	21	21	21	21	21	106

9. Release packer and TOOH w/ tubing.
10. TIH w/ production BHA and tubing while hydro-testing. Lower SN to 5090'.
11. RIH w/ pump and rods.
12. RTP.

8/14/2019

# Apache Corporation

Work Objective

DO CIBP & Acidize

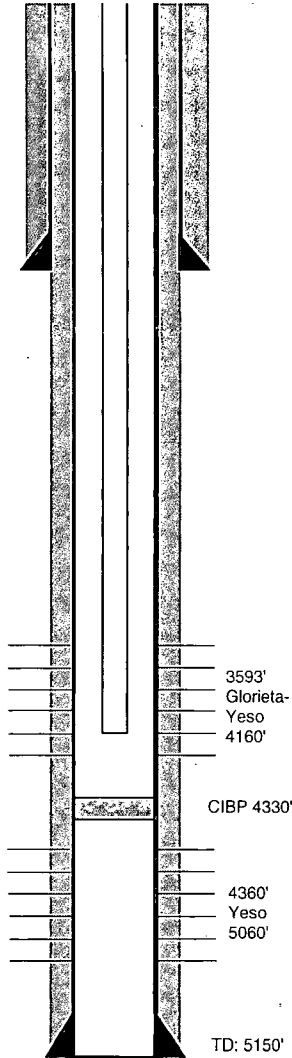
CURRENT

Region Office Permian / Midland  
District /Field Office W District  
AFE Type

Start Date	TBD	End Date	TBD
Lease	Washington 33 State	KB/GL	3684/3673'
Well Name	Washington 33 St #52	Well No.	#52
Field	Empire (BP)	TD @	5150'
County	Eddy	PBTD @	4295'
State	New Mexico	ETD @	
AFE #	11-19-0852	API #	30-015-40076
Gross AFE	89,000	Spud Date	8/4/2012
Apache WI	100.000000%	Comp. Date	9/28/2012

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	8 5/8"	J-55	24#	500'	380 sx	Circ 121 sx to surf
Inter Csg						
Prod Csg	5 1/2"	J-55, L-80	17#	5150'	720 sx	Circ 90 sx to surf
Casing Liner						

12 1/4" hole



7 7/8" hole

TD: 5150'

Date	Zone	Actual Perforations	JSPF	Total Perfs
8/24/2012	Yeso	4360, 75, 90, 4405, 20, 35, 50, 65, 80, 95, 4510, 25, 40, 55, 70, 85, 4600, 15, 30, 45, 60, 4910, 20, 30, 40, 50, 60, 70, 80, 90, 5000, 10, 20, 30, 40, 50, 60	1	37
3/5/2013	Glorieta-Yeso	3593, 3616, 35, 50, 60, 79, 3717, 28, 47, 60, 78, 3804, 30, 50, 71, 82, 3904, 20, 42, 67, 83, 4008, 28, 41, 60, 80, 4100, 20, 40, 60	1	30

Date	Zone	Stimulation / Producing Interval	Amount
8/24/2012	Yeso	Stimulate 4360-5060' w/ 2828 gal 15% HCL; frac w/ 200 klbs 16/30 WHT & 3700 bbls water	
3/5/2013	Glorieta-Yeso	Stimulate 3593-4160' w/ 3108 gal 15% HCL; frac w/ 260 klbs 16/30 WHT & 4700 bbls water	
8/29/2015	Glorieta-Yeso	Acidize 3593-4160' w/ 15000 gal 20% HCL	

Well History / Failure	
3/13 - Ran CIBP to 4330' w/ 35' of CMT, perf and stim Glorieta/Paddock	
10/13 - Pump failure, found 2 jts plugged w/ sand	
8/15 - Acidize Glorieta/Paddock	

Apache Representative \_\_\_\_\_ Contract Rig/Number \_\_\_\_\_  
 Apache Engineer \_\_\_\_\_ Evan Roback \_\_\_\_\_ Operator \_\_\_\_\_

# Apache Corporation

PROPOSED

Work Objective

DO CIBP & Acidize

Region Office

Permian / Midland

District /Field Office

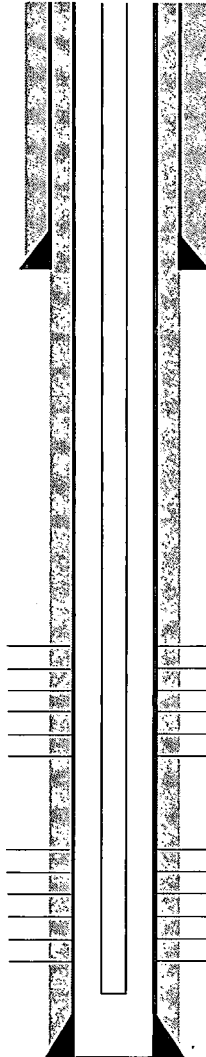
W District

AFE Type

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Apache Representative

Contract Rig/Number

Apache Engineer

Evan Roback

Operator