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. E. 🤉

Well name: API Number: County, State: Legals:	<b>Washir</b> 30-015-40 Eddy, NM SEC-33	0076 1	<b>3 State #52</b> 5 RGE-28E		
Depths:	5150	MD	4295	PBTD	
Producing Interval:	3593'-416	60' (Gloriet	tta-Yeso)		
CSG	OD	Wt/Ft	Cap (bbl/ft)	Тор	Set @
Surface	8.625"	24#	0.0609	0'	500'
Production	5.500"	17#	0.0232	0'	5150'
Engineer:	Evan Rob	ack	432-818-1186 (o)		evan.roback@apachecorp.com
Assistant Foreman:	David Pe	droza	575-910-3283 (c)		david.pedroza@apachecorp.com
Production Foreman:	Javier Be	rdoza	575-441-5755 (c)		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

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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.

والانتقابية أبينا المراجع

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.
- 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.

STAGE												
PARAMETERS	1	2	2 3		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	0 3,500 3,500 3,500		3,500						
FLUID/STAGE	255 SEA		を加える。									
Acid - 15% HCl (gal)	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	7,000					
Brine Spacer (bbls)	54	54	54	54	54	54	268					
Total Volume (bbls)	95	95	95	95	95	95	476					
Total Time (min)	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.

# Apache Corporation

Work Objective

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12 1/4" hole

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CUF	DDD	NIT
UUF		

District /Field Office W District

Region Office Permian / Midland

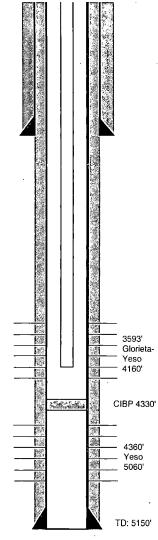
TOC

Circ 121 sx to surf

Circ 90 sx to surf

							/	AFE Type			
	Start Date		End Date	TBD	Description	O.D.	Grade	Weight	Depth	Cmt Sx	
	Lease	Washington 33 State	KB/GL	3684'/3673'	Surface Csg	8 5/8"	J-55	24#	500'	380 sx	Ci
-	Well Name	Washington 33 St #52	Well No.	#52	Surface Csy	0 5/6	J-55	24#	500	300 SX	
	Field	- Empire (BP)	TD @	5150	Inter Csg						Γ
· · · · · · · · · · · · · · · · · · ·	County	Eddy	PBTD @	4295'	Inter Csg	1					
	State	New Mexico	ETD @	. 1	Prod Csg	5 1/2"	J-55, L-80	17#	5150	720 sx	C
	AFE #	11-19-0852	API #	30-015-40076	Frou Csy	51/2	J-55, L-60	17#	5150'	/20 SX	
	Gross AFE	89,000	Spud Date	8/4/2012	Casing Lines						Г
	Apache WI	100.00000%	- Comp. Date	9/28/2012	Casing Liner						
			·		<b>1</b>						

DO CIBP & Acidize



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	
	•		

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

7 7/8" hole

Apache Representative

Apache Engineer

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Evan Roback

Contract Rig/Number

Operator



. 4	· •	Apache Work Objectiv			DO CIBP & Acidiz	9	PROPOSED				District /F	•	Permian W Distrie	/ Midland	
		Start Date	TI		End Date			1	Description	0.D.	Grade	· · · · · · · · · · · · · · · · · · ·	Depth	Cmt Sx	тос
		Lease -		BD	End Date KB/GL		TBD : 3684/3673'	4	Description	. Q.D.	Grade	Weight	<u>n Depin</u>		
······	· ·	Well Name	-	on 33 St #52	Well No.		#52	-	Surface Csg	8 5/8"	J-55	24#	500'	380 sx	Circ 121 sx to surf
		p · · · -			-	· · · · · · · · · · · · · · · · · · ·	5150'	-	L				<u> </u>		Suit
		Field		re (BP)	TD @			4	Inter Csg						
	i de la composición d	County	Ec		PBTD_@		4295'	4			<u> </u>		ļ	<u> </u>	
	·	State		Mexico	ETD @	· · · · · · · · · · · · · · · · · · ·	- ,	4	Prod Csg	5 1/2"	J-55, L-80	17#	5150'	720 sx	Circ 90 sx to
		AFE #	11-19		API'#		-30-015-40076	1					ļ		surf
- · · ·	·· -·	Gross AFE		,000,	Spud Dat		8/4/2012	1	Casing Liner						
	- 	Apache WI	100.00	0000%	Comp. Da	le_	9/28/2012	J							
		<b>5</b> ***		E (2012) E 2019076	-										
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				51.7 B		3/5/2013	Glorieta-Yeso		93, 3616, 35, 50, 60 2, 3904, 20, 42, 67,	, 79, 3717,	28, 47, 60, 7			1	30
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	12 1/4" hole	ý			-										
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			60 1		F	Date	Zone	Ctim			oducing In		100	Am	iount
				100		8/24/2012	Yeso		ulate 4360-5060' w/ T & 3700 bbls water		5% HUL; trad	C W/ 200 KIDS 16/	30		
				S. San		3/5/2013	Glorieta-Yeso	Stim	ulate 3593-4160' w/ T & 4700 bbls water	3108 gal 1	5% HCL; frad	c w/ 260 klbs 16/	/30		
					F	8/29/2015	Glorieta-Yeso	Acid	ize 3593-4160' w/ 1	5000 gal 20	0% HCL			<u> </u>	
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		]		1886	<sup>4160'</sup>					istory / F	ailure				
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			額		8	15 - Acidize Glo	prietta/Paddock								
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					4	pache Repro	esentative				Contra	act Rig/Num	ber		
	7 7/8" ho	le	×	. тс	): 5150' A	pache Engir	neer		Evan Roback		Opera	itor			

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