Submit 1 Copy To Appropriate District Office	State of New Mexico		Form C-103 Revised July 18, 2013		
1625 N. French Dr., Hobbs, NM, 8240			WELL API NO.		
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 SEP 0	و کړ (QIL CONSERVATION 1220 South St. Frar	DIVISION ncis Dr.	5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM \$7410 District IV – (505) 476-3460	Santa Fe, NM 87505		6. State Oil & Gas Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM	EIVED		N/A		
SUNDRY NOTICES AND REPORTS ON WELLS			7. Lease Name or Unit Agreement Name		
(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			North Monument G/SA Unit		
PROPOSALS.)			8. Well Number 346		
2. Name of Operator Apache Corporation			9. OGRID Number 873		
3. Address of Operator			10. Pool name or Wildcat		
303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			Eunice Monument; G-SA (23000)		
4. Well Location			10/201		
Unit Letter E	feet from the North	line and	feet from the <u>vvest</u> line		
Section 05	Township 20S Ra	inge 37E	NMPM County Lea		
	11. Elevation (Show whether DR, 3559' GR	, RKB, RT, GR, etc.)			
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data					
NOTICE OF INTENTION TO: SUB					
PERFORM REMEDIAL WORK D PLUG AND ABANDON REMEDIAL WOR		K are at was don'			
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LI.M. required and what		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEM	tion to 110		
			ne the port with outhorization		
CLOSED-LOOP SYSTEM		Her Work 15	Lion report & A		
13. Describe proposed or completed operations. (Clearly state all pei of starting any proposed work). SEE RULE 19.15.7.14 NMAC.)					
· proposed completion of reco	mpretton.	0			

Apache would like to DO CIBP's, squeeze existing perfs in two stages, re-perforate and acidize the middle Grayburg per the attached procedure.

Spud Date:	10/30/2006
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Rig Release Date:

11/04/2006

SEP 16 2013

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

SIGNATURE	TITLE Regulatory Tech II	DATE 09/03/2013
Type or print name Fatima Vasquez	_ E-mail address: Fatima.Vasquez@apachecorp.com	PHONE: (432) 818-1015
APPROVED BY: Wash White	TITLE Compliance Officer	DATE 09-13-2013
Conditions of Approval (if any):		
	12	

NMGSAU #346 API # 30-025-38149 Sec 5, T20S, R37E Elevation: 3570' KB, 3558' GL TD: 3,993' PBTD: 3,961' Casing Record: 8-5/8" 24# J-55 @ 392' w/ 175 5-1/2" 17# J-55 @ 2,993' w/ 625 sxs

Perfs: Grayburg: 3744-56; 62-74; 78-90; 3804-18; 40-50; 56-64; 76-86; 3914-19 (83 holes) SQZ'd Grayburg: 3876-80; 92-95; 3914-19 (24 holes). Grayburg: 3766-69; 80-86 (20 holes). Grayburg: 3636-40; 59-63; 72-78; 3694-3700 (44 holes)

Objective: DO CIBP's, squeeze existing perfs in two stages, re-perforate and acidize the middle Grayburg. RTP

AFE: PA-13-4358

- 1. MIRU unit. Check pressure on well.
- 2. ND WH. NU BOP. Rack 2-7/8" J-55 tubing to be used as work string.
- 3. PU and RIH w/ 4-3/4" bit, bit sub and drill collars on WS to CIBP @ 3,580'.
- 4. RU reverse unit. Break circulation and DO CIBP and cement to CIBP @ 3,860'. Continue to DO CIBP @ 3,860', or push to PBTD @ 3,961. Circulate hole clean. POOH.
- 5. PU and RIH w/ RBP and set \pm 3,830'. Dump 2·sxs sand on top of RBP. POOH.
- 6. PU and RIH w/ CICR on WS and set $@\pm 3,700$ '. Sting into CICR.
- 7. MIRU cement Service Company. Establish injection rate into perforations. Pump cement as dictated by injection rate. Hesitate squeeze perforations per Monument office recommendations. Displace to CICR with 21 bbls flush.
- 8. Sting out of CICR and POOH w/ WS. WOC.
- 9. PU and RIH w/ 4-3/4" bit, bit sub and drill collars on WS. Tag CICR. RU reverse unit and break circulation. Drill out CICR and cement to RBP at 3,830'. Test casing squeeze to 1000 psi. *If squeeze does not test, repeat squeeze process.* POOH.
- 10. PU and RIH w/ retrieving head and retrieve RBP @ 3,830'. POOH.
- 11. PU and RIH w/ CICR on WS and set at \pm 3,830'. Sting into CICR.
- 12. MIRU cement Service Company. Establish injection rate into perforations. Pump cement as dictated by injection rate. Hesitate squeeze perforations per Monument office recommendations. Displace to CICR with 22 bbls flush.
- 13. Sting out of CICR and POOH w/ WS. WOC.
- 14. PU and RIH w/ 4-3/4" bit, bit sub and drill collars on WS. Tag CICR. RU reverse unit and break circulation. Drill out CICR and cement to 3,870'. Record PBTD. Test casing squeeze to 1000 psi. *If squeeze does not test, repeat squeeze process.* POOH.

- 15. MIRU WL. RIH w/ perforator and perforate the Grayburg at 3744-52; 3770-80; 3803-18; 3828-44 w/ 2 jspf 120° phasing (98 holes). TOH w/ perf guns. Correlate to Halliburton Spectral Density Dual Spaced Neutron Spectral Gamma Ray log dated 11/4/2006. RDMO WL.
- 16. TIH w/ SN and PKR assembly. Set PKR above perfs at \pm 3,685'. Test backside to 500 psi.
- 17. MIRU acid services. Acidize the Grayburg (3,744-3,844) down the tubing with 2500 gallons 15% NEFE w/ additives using 200 ball sealers to divert evenly spaced throughout the job as a max rate but do not exceed 4,000 psi surface treating pressure. Displace to bottom perf with 25 bbls of flush. Release PKR and knock balls off. TOH and set PKR at 3,690'.
- 18. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment.
- 19. Kill well if necessary. TOH w/ PKR and WS.
 - a. If Grayburg is productive, continue to step 20.
 - b. If Grayburg is unproductive, TIH and set CIBP @ 3,685'w/ 2 sxs cement on top. TA well. RDMOPU.
- 20. RIH w/ 2-7/8" J-55 production tubing and rods as per the Monument office specification
- 21. RDMOPU. Set PU. Space out. Return well to production and place into test for 10 days.



