

Submit 3 Copies To Appropriate District Office
 District I
 1625 N French Dr, Hobbs, NM 88240
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 1301 W Grand Ave, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV
 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 June 19, 2008

HOBBS OCD
 RECEIVED
 OCT 23 2012

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSED 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: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other:		WELL API NO. 30-025-04235
2. Name of Operator Apache Corporation		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
3. Address of Operator 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>C</u> : <u>660</u> feet from the North _____ line and <u>1980</u> feet from the West _____ line Section <u>12</u> Township <u>20S</u> Range <u>36E</u> NMPM County <u>Lea</u>		7. Lease Name or Unit Agreement Name W P Byrd Battery 2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3556'		8. Well Number <u>004</u>
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data		9. OGRID Number 873

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER Recompletion <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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to recomplete this well per the attached procedure.

Spud Date: 02/04/1937 Rig Release Date: 03/07/1937

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

SIGNATURE  TITLE Regulatory Tech I DATE 10/19/2012

Type or print name Fatima Vasquez E-mail address: Fatima Vasquez@apachecorp.com PHONE: (432) 818-1015

For State Use Only

APPROVED BY:  TITLE DIST MGR DATE 10-25-2012

Conditions of Approval (if any):

OCT 25 2012



WP Byrd # 4

API: 30-025-04235
Monument Field
Lea, New Mexico

AFE Number: PA-12-4397

KB: 3569' GL: 3556' (KB 13' above GL)
12-1/2" 40 lb/ft casing set @ 197'
8-5/8" 32 lb/ft casing set @ 2360'
6-5/8" 20 lb/ft casing set @ 3778'
TD: 3,885' PBTD: 3,860'

SINGLE STAGE SAND FRAC COMPLETION PROCEDURE

Casing: 6-5/8", 20 lb/ft, J-55

ID: 6.049"

Drift= 5.924"

Capacity= 0.0355 BBL/ft

Burst= 4180 psi; 80%= 3832 psi

6-5/8" x 3-1/2" Annular capacity 0.0236 BBL/ft

Tubing: 3-1/2", 7.7 lb/ft, N-80

Capacity= 0.0091 bbl/ft

Burst= 8640 psi; 80%= 6912 psi

Collapse 7870 psi; 80%= 6296 psi

Yield 130,140 lbs; 80%= 104,112 lbs

- **Anticipate one day for stimulations. Prepare service co. and other associated contractors to be present during job.**
 1. Prep location. Spot the necessary 500 BBL lined acid tanks, 500 BBL water tanks, and BOP onto location. Set a flow back tank before stimulation. Have Service Co test water for quality.
 2. MIRU PU. Kill well as necessary. Unseat pump. POOH w/ rods and pump.
 3. ND wellhead. NU BOP. Release TAC. POOH w/ tubing and TAC. PU & TIH w/ 5-5/8" bit and scrapper for 6-5/8", 20 lb/ft, J-55 casing on 3-1/2" N-80 tubing to be used as WS. CO and tag PBTD at ± 3,860'. Circulate hole clean. Dump 40' of sand down tubing. Tag to ensure top of sand. POOH and stand back tbg. LD DC and bit.

STAGE I- Grayburg

4. MIRU WL. NU Lubricator. TIH w/ csg gun or available equivalent perforator and perforate as detailed below using Connex 0.5" diameter BH charges: **Correlate to the GR on Lane Wells Company Radioactivity Log dated 6/8/1948.**

Stage 1: Grayburg				
Perf Interval		Ft	JSPF (60° phasing)	Holes
3,580	3,588	8	2	16
3,628	3,634	6	2	12
3,718	3,722	4	2	8
3,728	3,734	6	2	12
3,750	3,756	6	2	12
Total Perfs = 60 holes / 30 ft Net (176 ft Gross)				

**** Ensure proper pressure control equipment is installed prior to perforating. ****

5. POH w/ perforators and RDMO WL.
6. RIH w/ SN and PKR on WS. Spot 100 gallons acid across perforations. TOO H and set PKR just above perforations at $\pm 3,530'$.
7. ND BOP. NU 10K psi frac valve. MIRU frac services. NU and test surface lines to 7,800 psi. Max pressure to be **6,800 psi** at surface, set pressure alarms and pop-offs accordingly.
8. Load hole and establish rate and pressure. Frac the Grayburg from 3,580-3,860 down tubing per recommendations as provided by Service Company. Tag frac with radioactive indicator. Flush to top perf w/ 33 bbls. SD. Shut-in well. RDMO Service Company.

Target Rate: 40 BPM Max Pressure: **6,800 psi**

9. If necessary, kill well. Unset PKR and TOH w/ PKR and WS.
10. ND frac valve and tree. NU BOP's. Kill well as necessary. RU reverse unit and swivel.
11. RIH w/ cavins bailer on 3-1/2" tbg and bail well out to PBTD. POOH with WS.
12. MIRU wireline. TIH to PBTD and run after-frac log to 200' above top perf. RDMO wireline.
13. Run production tubing and rods as per the Hobbs office specifications.
14. RDMOPU. Place well into production and on test for 2 weeks. Have chemical rep test fluids and put well on the appropriate chemical maintenance program.

Apache Corporation – WP Byrd #4

Wellbore Diagram – Proposed

Date : 8/28/2012

API: 30-025-04235

GL=3556'
KB=3569'
Spud: 2/4/37

Surface Location

R. Taylor



660' FNL & 1980' FWL,
Sec 12, T20S, R36E, Lea County, NM

Surface Casing

12-1/2" 40# @ 197' w/ 200 sxs to surface

TOC @ ???'

6/69: Hole in 6-5/8" csg from 2321-2353' and 1524-1536'; Cut csg @ 2382'. Replace w/ 78 jts 6-5/8" & 2 jts 7" OD csg.

Intermediate Casing

8-5/8" 32# @ 2360' w/ 700 sxs to xxxx'

TOC @ ???'

TBD: Perf Grayburg @ 3580-88; 3628-34; 3718-22; 3728-34; 3750-56 w/ 2 jspf (60 holes). Frac 3580-3860 w/ XX gal 3500 XL w/ xxk# 20/40 sand @ 40 BPM.

Production Casing

6-5/8" 20# @ 3778' w/ 100 sxs to xxxx'

8/76: Openhole perf'd from 3780; 82; 93; 95; 97; 3808; 08; 10; 12; 25; 28; 33; 35 w/ 1 jspf. Acidized w/ 4000 gal 15% NE

4/75: Openhole perf'd from 3782; 86; 90; 92; 96; 3806; 08; 12; 24; 28; 32; 34 w/ 1 jspf. Acidized w/ 7000 gal 15% NE

3/74: Openhole perf'd from 3780; 82; 87; 89; 93; 95; 97; 3808; 10; 12; 25; 33; 35; 36 w/ 1 jspf. Acidized w/ 3000 gal 15% XW39

3/74: Openhole frac'd w/ 8720 gal Ultra Frac w/ 9k# 10/20 snd @ 15 BPM

8/69: Openhole perf'd from 3780-3857 w/ 500 & 1000 grn/ft. Acidized w/ 1000 gal 15% NE acid

6/48: Openhole perf'd from 3810--3862'. Acidized w/ 1500 gal XF-18

6/48: Openhole plugged back to 3862' w/ 165 gal plastic

3/37: Openhole from 3778-3885'. Acidized w/ 2000 gal

