

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
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

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

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.)		WELL API NO. 30 015 00724
1. Type of Well: <input checked="" type="checkbox"/> Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator APACHE CORPORATION		6. State Oil & Gas Lease No.
3. Address of Operator 303 VETERANS AIRPARK LN, STE 3000; MIDLAND, TX 79705		7. Lease Name or Unit Agreement Name EMPIRE ABO UNIT I
4. Well Location Unit Letter A : 330 feet from the E line and 990 feet from the N line Section 02 Township 18S Range 27E NMPM County EDDY		8. Well Number 16
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3618' GR		9. OGRID Number 873
		10. Pool name or Wildcat EMPIRE ABO

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: adding ABO perfs



OTHER:



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 Corporation plans to preform work on the Empire Abo Unit I #16 as per the attached procedure.

** Correction!*



Spud Date:

08/01/1959

Rig Release Date:

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

SIGNATURE

TITLE Sr. Staff Regulatory Tech

DATE 01/11/2012

Type or print name Bev Hatfield

E-mail address: beverly.hatfield@apachecorp.com

PHONE: 432-818-1906

For State Use Only

APPROVED BY

TITLE

District II Supervisor

DATE

01/23/2012

Conditions of Approval (if any):

-
7. Prepare necessary clean 500 bbl frac tanks with water. Have service company test frac water for quality. Prepare necessary tanks for flowback. Spot tanks, sand support, etc. Prep for frac treatment.
 8. MIRU Service Company. NU treesaver. NU and test surface lines to 8,500 psi. Max pressure to be 8,000 psi at surface, set pressure alarms and pop-offs accordingly.
 9. Load hole and establish rate and pressure. Frac the Abo Shale perfs down the 3-1/2" WS w/ 38 klbs 100 mesh and 150 klbs 30/70 resin coated proppant as provided by Service Company. Flush w/ 48 bbls slick water to top perf with 200 gallons acid tailing flush. SD. Shut-in well for min. 2 hours.

STAGE II

Target Rate: 40 BPM

Max Pressure: 8000 psi

10. RDMO Frac Company. ND frac valve and tree. NU BOP's. Kill well as necessary. Release PKR and POOH w/ WS.
11. MIRU WL. NU lubricator. RIH w/ 5-1/2" CBP and set ~ 5,420'. Test casing to 3,400 psi. POOH w/ WL and setting tool.
12. RIH w/ 3-3/8" csg gun or available equivalent perforator and perforate the Abo Shale from 5,290'-92'; 5,340'-42'; 5,392'-94' w/ w/ 4 JSPF 90 degree phasing (24 holes, 6 net ft). (Charge specs: Connex 0.5" diameter BH). Correlate WELEX radioactivity log date 9/3/1959.
13. POOH w/ perforator and RDMO wireline. *WL on standby to run gauge ring if necessary.
14. RIH w/ SN + Baker Hughes R-3 double grip PKR or equivalent on 3-1/2" WS. Spot 200 gal 15% NEFE HCL across perforations. Set PKR just above new perfs ± 5,240'. Test casing to 500 psi.
15. Load hole and break down Stage II perfs. Establish rate and pressure. Frac the Abo Shale perfs down the 3-1/2" tubing w/ 38 klbs 100 mesh and 150 klbs 30/70 resin coated proppant as provided by Service Company. Flush w/ 47 bbls slick water to top perf. SD. RDMO Service Company. Shut-in well for minimum 2 hours.

Target Rate: 40 BPM

Max Pressure: 8000 psi

16. Open well and flow back well. Recover as much load as possible.
17. ND frac valve and tree. NU BOP's. Kill well as necessary. Release PKR and POOH w/ WS.
18. RIH w/ 4-3/4" bit, bit sub, and drill out plug at 5,420' and continue to PBTD. Check for sand fill. Circulate hole clean. POOH.
19. If zone appears productive, run production equipment as directed by Apache Representative. RTP.
If unproductive, prepare well to be PA'd.
20. RDMOPU. Turn well to tester and obtain well tests. Have chemical representative test fluids and put well on the appropriate chemical maintenance program.

GL=3618'
KB=3628'
Spud: 8/1/59

Apache Corporation – Empire Abo Unit #I-16

Wellbore Diagram – Proposed

Date : 11/9/2011

API: 30-015-00724

Surface Location

R. Taylor



990' FNL & 330' FEL, Unit
Sec.2, T18S, R27E, Eddy County, NM

Surface Casing

8-5/8" 28# K-55 @ 1102' w/ 300 sx to surface

TOC @ 960'

12/58: Perf @ 3,500'
Sqz'd w/ 600 sxs

TAC @ TBD'
SN @ TBD'

TBD: Perf Abo @ 5290'-5292'; 5340'-5342'; 5392'-5394' w/ 4 JSPF
Frac'd w/ 5890 bbl slickwater, 188k# 100 mesh & 20/40 RC sand

TBD: Perf Abo @ 5444'-5446'; 5480'-5482'; 5512'-5514' w/ 4 JSPF
Frac'd w/ 5890 bbl slickwater, 188k# 100 mesh & 20/40 RC sand

CIBP set @ 5,580' w/ 35' cmt

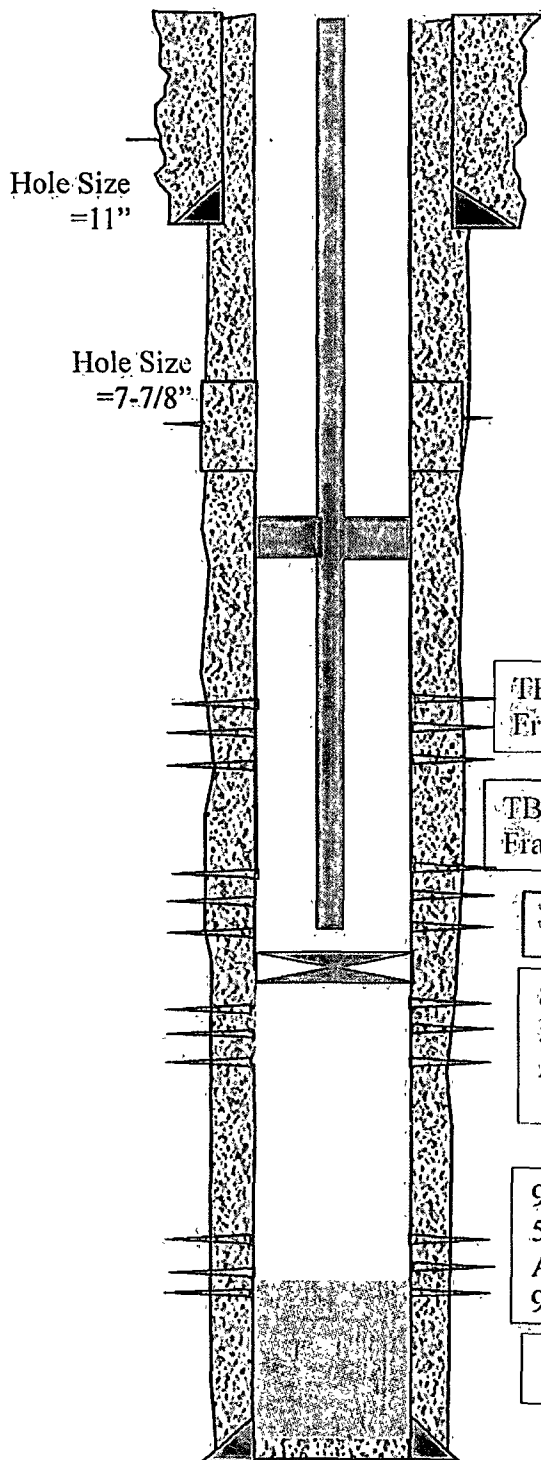
8/03: Perf Abo @ 5444'-46'; 5479'-82'; 5504'-12'; 5589'-91';
5606'-42'; 5657'-66'; 5698'-5734'; 5772'-86' w/ 2 JSPF
Acidize w/ 5700 gal 15% HCL

9/59: Perf Abo @ 5,773'-95'; 5,810'-18'; 5,831'-34'; 5,843'-52';
5,863'-72' w/ 2 JSPF
Acidized w/ 2000 gal 15% LSTNE
9/72: Acidized w/ 1000 gal D.A.D acid

8/03: Fill tagged @ 5845'

Production Casing

5-1/2" 17# K-55 @ 5920' w/ 300 sxs
TOC @ 2635'



PBTD = 5845'
TD = 5920'