

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
RECEIVED
OIL CONSERVATION DIVISION
JUN 16 2011
South St. Francis Dr.
Santa Fe, NM 87505
HOBBSOC

Form C-103
June 19, 2008

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. 30-025-39906
1. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other:		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No.
3. Address of Operator 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		7. Lease Name or Unit Agreement Name APACHE STATE Q
4. Well Location Unit Letter <u>I</u> : <u>1710</u> feet from the <u>South</u> line and <u>660</u> feet from the <u>East</u> line Section <u>16</u> <u>20S</u> Township <u>37E</u> Range NMPM <u>Lea</u> County		8. Well Number <u>9</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 873
		10. Pool name or Wildcat MONUMENT; ABO; SOUTHWEST

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: ☐

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.

The original APD for this well was approved by the Division on 9/22/2010. The approved completions are the Monument-Paddock, Weir-Blinebry, Monument-Tubb, Weir-Drinkard and Monument-Abo Southeast Pools. Apache Corporation requests to add the Glorieta (5130-5199') and if successful we will submit application to DHC all zones. PLEASE SEE ATTACHED.

Spud Date:

11-10-2010

Rig Release Date:

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

SIGNATURE

Bev Hatfield

TITLE Sr. Engr Tech

DATE 06/15/2011

Type or print name BEV HATFIELD

E-mail address: Beverly.Hatfield@apachecorp.com

PHONE: 432-818-1906

For State Use Only

APPROVED BY:

Steve Marquez

TITLE STATE MGR

DATE 6-16-2011

Conditions of Approval (if any):

WTH



AFE No: TW- 10- 0421-C

State Q #9

API #: 30-025-39906

1650' FSL & 990' FEL

Section 16, Township 20S, Range 37E

Lea County, New Mexico

Completion Procedure –Tubb, Blinebry, Glorieta

June 15, 2011

Recommended Procedure:

Note: 5-1/2", 17#, J-55 & L-80 csg @ 7722' w/1,210 sx cmt (circ).
(986' L-80 csg on top). Marker Joint @ 5021'.

Burst L-80 @ 90% = 6966 psig

Burst J-55 @ 90% = 4788 psig

**Drinkard Perfs: 6616', 6618', 6626', 6628', 6756', 6758', 6764',
6766', 6802', 6804', 6822', 6824', 6830', 6832',
6902', 6904', 6906', 6908'**

Tubb:

1. MIRU PU. POOH with rods and pump. NU BOP. TOH with tubing.
2. MIRU wireline unit. Set composite plug @ 6590'. Load hole and pressure test CBP to 2000 psi.
3. ND BOP and WH. NU and test 5000 psi WH. Install frac valve and BOP.
4. Perforate Tubb formation @ 6444-6448', 6454-6458', 6474-6478', 6496-6500', 6514-6518', 6534-6538' and 6552-6556' w/1 spf, 120 deg phasing. Total = 35 shots.
5. RIH 2-7/8" tubing and packer. Spot acid over all perfs. Set packer @ +/- 6350'.
6. Acidize Tubb interval with 3,000 gals 15% NEFE HCL acid and ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
7. Release packer & run through perfs to knock off balls. TOH with tubing and packer. ND BOP.
8. RU frac equipment. Load hole with 10# gel slick water. Frac Tubb w/80,000# 20/40 Ottawa and 20,000# 20/40 SLC resin coated sand down 5-1/2" csg @ 40-50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
9. Spot 1,500 gals 15% HCL across Blinebry Interval 5794' – 5868' during Tubb frac flush.
10. RIH and set composite plug above the Tubb Interval @ +/- 6350'. Pressure test CBP to 3000 psi.

Blinebry:

1. Perforate Blinebry formation @ 5794-5798' and 5858-5868' w/2 spf, 120 deg phasing. Total = 30 shots.

2. Acidize Blinebry w/3,000 gals 15% HCL with ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix. RIH w/junk basket to knock off balls.
3. Frac Blinebry w/60,000# 20/40 Ottawa sand and 20,000# 20/40 SLC resin coated sand down 5-1/2" csg @ 40-50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
4. RIH and set composite plug above the Blinebry interval @ +/- 5700'. Pressure test CBP to 3000 psi. RD frac equipment. ND frac valve. Change out WH. NU BOP.

Glorieta:

1. Perforate Glorieta formation @ 5090-5094', 5108-5114', 5120-5124', 5130-5134', 5142-5146', 5152-5156' and 5160-5164' w/2 spf, 120 deg phasing. Total = 74 shots.
2. RIH 2-7/8" tubing and packer. Spot acid over all perms. Set packer @ +/- 5000'.
3. Acidize Glorieta interval with 4,000 gals 15% NEFE HCL acid and ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
4. Swab test Glorieta interval.
5. TOH with tubing and packer.
6. RIH w/2-7/8" tbg and bit. Drill out plugs and clean out to 6955' PBTD.
7. RIH w/production tubing. Land SN @ +/-6915'. ND BOP. NU WH. RIH w/1-1/2" pump & rods.
8. Place well on test.

Prepared by:

Gary C. Timmermann
6/15/2011



COMPENSATED PHOTO-DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY

COMPANY APACHE CORPORATION
WELL APACHE STATE Q #9
FIELD MONUMENT
PROVINCE/COUNTY LEA
COUNTRY/STATE U.S.A. / NEW MEXICO
LOCATION 1650' FSL & 990' FEL
SEC 16,T-20S,R-37E

SEC 16 TWP 20S RGE 37E Other Services
INDUCTION MICRO LOG

API Number 30-025-39906
Permit Number

Permanent Datum G.L., Elevation 3551 feet
Log Measured From K.B. 11 FT. above Permanent Datum
Drilling Measured From K.B.

Elevations: feet
KB 3562.00
DF 3561.00
GL 3551.00

Date 24-NOV-2010
Run Number ONE
Depth Driller 7722.00 feet
Depth Logger 7728.00 feet
First Reading 7694.00
Last Reading 200.00
Casing Driller 4825.00 feet
Casing Logger 4825.00 feet
Bit Size 7.875 inches
Hole Fluid Type FRESH
Density / Viscosity 8.40 lb/USg 28.00 Sec/Qr
PH / Fluid Loss 8.00
Sample Source CIRC. TANK
Rm @ Measured Temp 1.0 @ 75.0 ohm-m
Rmf @ Measured Temp 0.75 @ 97.0 ohm-m
Rmc @ Measured Temp 1.50 @ 97.0 ohm-m
Source Rmf / Rmc CALC CALC
Rm @ BHT 0.66 @ 115.0 ohm-m
Time Since Circulation 12 HOURS
Max Recorded Temp 115.00 deg F
Equipment Name COMPACT
Equipment / Base 13239 4352
Recorded By A. JOHNSON J. ORTEGA
Witnessed By BRET PEARCY

REMARKS

- 1) TOOLS RUN: MAI MFE MSS, SKJ, MPD, MDN, MML SGS, MCG RAN IN COMBINATION.
- 2) HARDWARE: TWO 0.6" STANDOFFS ON MSS
ONE 0.5" STANDOFF ON MAI
ONE ECCENTRIC BOWSPRING ON MDN
- 3) 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
- 4) ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- 5) TOTAL HOLE VOLUME FROM TD TO CASING = 1140 CU. FT.
- 6) ANNULAR VOLUME WITH 5.5" INCH PRODUCTION CASING = 670 CU. FT.
- 7) SERVICE ORDER #: 3525653
- 8) RIG: CAPSTAR 18
- 9) ENGINEERS: ADAM JOHNSON; JUAN ORTEGA
- 10) OPERATORS: ARTURO NEVAREZ; BRIAN ENLOE
- 11) BOREHOLE SIZE AND RUGOSITY AFFECT LOG QUALITY

BOREHOLE RECORD

Last Edited: 24-NOV-2010 19:18

Bit Size Inches	Depth From feet		Shoe Depth feet	Weight pounds/m
	Depth To feet			
11.000	0.00	4825.00		
7.875		7728.00		
CASING RECORD				
Type	Size Inches	Depth From feet	Shoe Depth feet	Weight pounds/m





