Submit 1 Copy 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

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

HOBBS OCD
JAN 17 2012
RECEIVED

Form C-103
October 13, 2009

| | |
|---|---|
| WELL API NO. **30-025-39905** | |
| 5. Indicate Type of Lease STATE ☐ FEE ☒ | |
| 6. State Oil & Gas Lease No. | |
| 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.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other | 7. Lease Name or Unit Agreement Name WH LAUGHLIN |
| | 8. Well Number 012 |
| 2. Name of Operator **Apache Corporation** | 9. OGRID Number 873 |
| 3. Address of Operator **303 Veterans Airpark Ln. Midland, TX 79705** | 10. Pool name or Wildcat MONUMENT;ABO, SOUTHWEST (96764) |
| 4. Well Location Unit Letter E : 1650 feet from the N line and 330 feet from the W line Section 9 Township 20 S Range 37E NMPM County LEA | |
| | 11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3550' GR |

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

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|---|---|---|---|
| PERFORM REMEDIAL WORK ☐ | PLUG AND ABANDON ☐ | REMEDIAL WORK ☐ | ALTERING CASING ☐ |
| TEMPORARILY ABANDON ☐ | CHANGE PLANS ☐ | COMMENCE DRILLING OPNS. ☐ | P AND A ☐ |
| PULL OR ALTER CASING ☐ | MULTIPLE COMPL ☐ | CASING/CEMENT JOB ☐ | |
| DOWNHOLE COMMINGLE ☐ | | | |
| OTHER: PREF & FRAC | | 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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

**APACHE CORPORATION PLANS TO PERF AND FRAC THE W H LAUGHLIN #012. PLEASE SEE THE ATTACHED PROCEDURE.**

**Spud Date: 01/03/2011** **Rig Release Date: 01/20/2011**

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

SIGNATURE Bev Hatfield TITLE Sr.. Staff Regulatory **Tech** DATE: 11/12-2012

Type or print name **Bev Hatfield** E-mail address: **Beverly.hatfield@apachecorp.com** PHONE: **432.818.1906**

**For State Use Only**

APPROVED BY: TITLE PETROLEUM ENGINEER DATE JAN 17 2012

Conditions of Approval (if any):

JAN 23 2012

AFE No: TW- 10- 0424-C

**W H Laughlin #12**
API #: 30-025-39905
1650' FNL & 330' FWL
Section 9, Township 20S, Range 37E
Lea County, New Mexico

**Completion Procedure –Drinkard / Tubb / Blinebry** **January 5, 2012**

**Recommended Procedure:**

**Note:** **5-1/2", 17#, J-55 & L-80 csg @ 7692' w/1,150 sx cmt (circ). (931' L-80 csg on top). Marker joint @ 5034-5055'.**

**Burst L-80 @ 90% = 6966 psig**
**Burst J-55 @ 90% = 4788 psig**

**Abo Perfs: 6987-6992', 6996-7002', 7144-7148', 7153-7164', 7167-7174', 7178-7181', 7184-7192', 7194', 7196', 7205-7213'**

**Drinkard:**

1. MIRU PU. TOH with rods and pump. Kill well. ND WH. NU BOP. TOH with tubing.
2. MIRU wireline unit. Set 5-1/2" 10K composite plug @ 6950'. Load hole and pressure test CBP to 2000 psi. Perforate Drinkard formation @ 6818-6822', 6826-6832', 6858-6862', 6880-6884' and 6900-6904' w/2 spf, 120 deg phasing. Total = 54 shots.
3. TIH 2-7/8" tubing and packer. Spot acid over all perfs. Set packer @ ±6720'. Acidize Drinkard interval with 5,000 gals 15% NEFE HCL acid and ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
4. Release packer & run through perfs to knock off balls. Reset packer as before.
5. Swab back load and test Drinkard zone. TOH with tubing and packer.

**Tubb:**

1. RU WL. Set 5-1/2" composite plug @ ±6780'. Load hole and pressure test CBP to 2000 psi. ND BOP and WH. NU and test 5000 psi WH. Install BOP. Perforate Tubb formation @ 6448', 6450', 6452', 6470', 6472', 6478', 6489', 6496', 6498', 6500', 6502', 6522', 6524', 6526', 6528', 6532', 6544', 6545', 6562', 6564', 6566', 6572', 6574', 6576', 6584', 6590', 6592', 6594', 6632', 6652', 6654', 6656', 6658', 6660', 6662', 6664', 6686', 6688', 6690' and 6692' w/1 spf, 120 deg phasing. Total = 40 shots.
2. TIH 2-7/8" tubing and packer. Spot acid over all perfs. Set packer @ ±6340'.
3. Acidize Tubb w/3,000 gals 15% HCL with ball sealers. Add 1 drum of corrosion inhibitor & 2 drums scale inhibitor to acid mix.
4. Release packer & run through perfs to knock off balls. TOH with tubing and packer.
5. ND BOP. NU 5K frac valve.

6. RU frac equipment. Load hole with 10# gel slick water. Frac the Tubb interval w/100,000# 20/40 Ottawa sand (2-6 ppg ramp) and 40,000# 20/40 SLC resin coated sand (6 ppg hold) down 5-1/2" csg @ 50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
7. Spot 1,500 gals 15% HCL across Blinebry interval 6146 – 6356' during Tubb frac flush.
8. RIH and set composite plug above the Tubb interval @ ±6420'. Pressure test CBP to 2000 psi.

**Blinebry:**

1. Perforate Blinebry formation @ 6146', 6148', 6150', 6196', 6198', 6200', 6218', 6220', 6222', 6230', 6232', 6234', 6240', 6242', 6268', 6270', 6276', 6278', 6280', 6294', 6296', 6305', 6307', 6309', 6318', 6320', 6324', 6326', 6328', 6338', 6340', 6342', 6348', 6350', 6352', 6354' and 6356' w/1 SPF, 120 deg phasing. Total 37 shots.
2. Acidize Blinebry w/3,000 gals 15% HCL w/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 the Blinebry interval w/100,000# 20/40 Ottawa sand (2-6 ppg ramp) and 40,000# 20/40 SLC resin coated sand (6 ppg hold) down 5-1/2" csg @ 50 BPM in 30# XL gel as per frac recommendation. Maximum treating pressure = 4800 psi.
4. RIH w/2-7/8" tbg and bit. Drill out plugs and clean out to 6950' PBTD. Commingle Blinebry, Tubb and Drinkard production.
5. RIH w/production tubing. Land SN @ ±6900'. RIH w/1-1/2" pump & rods.
6. Place well on test.
7. Produce BTD for 4-6 weeks, then drill out CBP at 6950' and commingle with Abo.

Prepared by: 

Gary C. Timmermann
1/5/2012

Weatherford®

# PHOTO DENSITY
# COMPENSATED NEUTRON
# SPECTRAL GAMMA RAY

| | |
|---|---|
| COMPANY | APACHE CORPORATION |
| WELL | WH LAUGHLIN #12 |
| FIELD | MONUMENT |
| PROVINCE/COUNTY | LEA |
| COUNTRY/STATE | U.S.A. / NEW MEXICO |
| LOCATION | 1650' FNL & 330' FWL |
| | SEC. 9, T20S, RGE. 37E |

40 Years of Wireline

| SEC | TWP | RGE |
|---|---|---|
| 9 | 20S | 37E |

API Number 30-025-39905
Permit Number

Other Services
DUAL LATEROLOG
MICRO LATEROLOG
COMPENSATED SONIC

Permanent Datum G.L., Elevation 3550 feet
Log Measured From K.B. @ 11 FEET above Permanent Datum
Drilling Measured From K.B.

| Elevations: | feet |
|---|---|
| KB | 3561.00 |
| DF | 3560.00 |
| GL | 3550.00 |

| | | | | |
|---|---|---|---|---|
| Date | 19-JAN-2011 | | | |
| Run Number | ONE | | | |
| Depth Driller | 7692.00 | feet | | |
| Depth Logger | 7690.00 | feet | | |
| First Reading | 7640.00 | feet | | |
| Last Reading | 100.00 | feet | | |
| Casing Driller | 4800.00 | feet | | |
| Casing Logger | 4786.00 | feet | | |
| Bit Size | 7.875 | inches | | |
| Hole Fluid Type | CHEM. | | | |
| Density / Viscosity | 8.40 lb/USg | 29.00 sec/qt | | |
| PH / Fluid Loss | 10.00 | 20.00 ml/30Min | | |
| Sample Source | FLOWLINE | | | |
| Rm @ Measured Temp | 0.60 @ 75.0 | ohm-m | | |
| Rmf @ Measured Temp | 0.44 @ 75.0 | ohm-m | | |
| Rmc @ Measured Temp | 0.72 @ 75.0 | ohm-m | | |
| Source Rmf / Rmc | CALC. | CALC. | | |
| Rm @ BHT | 0.40 @112.0 | ohm-m | | |
| Time Since Circulation | 6 HOURS | | | |
| Max Recorded Temp | 112.00 | deg.F | | |
| Equipment Name | COMPACT | | | |
| Equipment / Base | 13270 | ODESSA | | |
| Recorded By | JOHN WELLS | | | |
| Witnessed By | ROBERT JOHNSON VIA E-MAIL | | | |
| SO# | 3528488 | | | |

## REMARKS

ANNULAR HOLE VOLUME CALCULATED FOR 5.5" CASING

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

SERVICE ORDER #: 3528488

RIG: capstar #18

ENGINEER: JOHN WELLS

OPERATOR: RUBIN VILLDGAS

BOREHOLE SIZE AND RUGOSITY AFFECTING LOG QUALITY

THANK YOU FOR USING WEATHERFORD.