<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

<u>District JV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Form C-101 Revised November 14, 2012

Energy Minerals and Natural Resources

HOBBS OCD

Oil Conservation Division

☐AMENDED REPORT

MAY 1 5 2013

1220 South St. Francis Dr.

| 1220 S. St. France Phone: (505) 476 | | | AM | 4 10 | | Sant | a Fe, NM | 87505 | | | | |
|--|--|-------------|------------------|-------------------------------|-------------------|-----------------------|--|-----------------------------------|---------------|--|-------------------------------------|---|
| APPL | ICATIO | N FOF | R PE | RMIT T | O DI | RILL, RE-EN | NTER, DI | EEPEN | I, PLU | GBACK | , OR AD | DD A ZONE |
| | | | ^{1.} Op | erator Name | and Add | ress | | | | 73 | OGRID Nun | |
| Apache Co | rporation | : 303 Vet | erans | Airpark La | ne, Su | iite 3000 Midlar | nd, TX 7970 | 05 | 30 | -025-3811 | 3. API Numb | er |
| Property Code 3. Property N 26475 M & | | | | | | | | | 100 | 020 00111 | | Well No. 005 |
| | | | | | | 7. Surface Lo | ocation | | | L | | |
| UL - Lot C | | | t Idn Feet fi | | //S Line North | | Feet From E/W Li | | County Lea | | | |
| | | | | | 8. | Proposed Botto | m Hole Loc | ation | - | • | | |
| UL - Lot | Section | Township | | Range | Lo | t Idn Feet fi | rom N | //S Line | Fee | t From | E/W Line | County |
| | J | | <u> </u> | | <u> </u> | 9. Pool Infor | mation | | | | | |
| | | | | | | Pool Name D-K; Abo | | | | | | Pool Code 15200 |
| | | | | | A | dditional Well l | Information | 1 | | | | |
| | ork Type A | | 12. | ^{12.} Well Type O | | 13. Cable/R | Rotary | 14. Lease Type | | Гуре | 15. Ground Level Elevation 3574' | |
| 16. N | lultiple N | | 17. Pr | oposed Depth 7700' | oth 18. Forms | | | ^{19.} Contractor | | ^{20.} Spud Date 09/25/2006 | | |
| Depth to Gro | und water | · · · · · · | | Dista | nce from | nearest fresh water | well | Distance to nearest surface water | | | e water | |
| | | | | 21. | Propo | sed Casing and | Cement Pi | ogram | | | | |
| Туре | Hole | e Size | Cas | ing Size | Ca | asing Weight/ft | Setting Depth Sacks of Cerr | | | ment | Estimated TOC | |
| S | 12- | -1/4" | 8- | -5/8" | | 24# | 15 | 570' | 800 sx | | · | · |
| Р | 7- | 7/8" | 5 | -1/2" | | 17# | 77 | 700' 1450 sx | | × | | |
| | | | | Casin | g/Cen | ent Program: A | Additional (| Commen | ıts | | | |
| Apache int | ends to pe | erf the Ab | o per | the attach | ed pro | cedure. | | | | | | |
| | | | | 22. | Propo | sed Blowout Pr | evention P | ogram | | | | , and the same of |
| | Type | | | \ | Vorking | Pressure | Period Program Period Program | | | | | |
| | | | | | | | Date Unless Driving Underwing | | | | | |
| | | | | | | | | | | | | |
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. | | | | | | | OIL CONSERVATION DIVISION | | | | | |
| I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC, if applicable. Signature: | | | | | | | Approved By: | | | | | |
| Printed name | Printed name: Fatima Vasquez | | | | | | | Title: Petroleum Engineer | | | | |
| Title: Regu | atory Tec | h I | | | | | Approved Date: 0 5/16/13 Expiration Date: 05/16/15 | | | | | |
| E-mail Addre | ess: Fatima | .Vasque | z@ap | achecorp. | com | | | | | | | |
| Date: 05/10 | Date: 05/10/2013 Phone: (432) 818-1015 | | | | | | | | l Attached | | | |

District 1 1625 N. French Dr., Hobbs, NM 88240

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011 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (57

Phone: (505) 334-6178 Fax: (505) 334-6170

<u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

| DECME | EL LOCATION AND | ACREAGE DEDICATION PLAT |
|----------|-----------------|-------------------------|
| <u> </u> | 2 D - 1 C - 1- | 3 D1 No |

| ¹ API Nui | mber | ² Pool Code | ³ Pool N | ³ Pool Name | | |
|----------------------|---------------|---------------------------------------|--------------------------|------------------------|--|--|
| 30-025-38112 | | 15200 | D-K; Abo | | | |
| 4 Property Code | | · · · · · · · · · · · · · · · · · · · | ⁶ Well Number | | | |
| 26475 | M & M | | | 005 | | |
| 7 OGRID No. | | | 8 Operator Name | ⁹ Elevation | | |
| 873 | 9705 3574' GR | | | | | |
| | 1 | 1 | Surface Location | | | |

Surface Location

| - | UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | Count | y |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|-------|---|
| | С | 24 | 20S | 38E | | 330 | North | 2310 | West | Lea | |

¹¹ Bottom Hole Location If Different From Surface

| Bottom Hole Boeation in Billerent From Surface | | | | | | | | | |
|--|-------------|---------------|-----------------|------------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| | | | | | | | | | |
| 12 Dedicated Acres | 13 Joint of | r Infill 14 (| Consolidation (| Code 15 Or | der No. | | | | |
| 40.00 | | | | DH | C - 186-0 | | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

| | <u> </u> | 1 | |
|-----|----------|----------|--|
| 230 | 380 | | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. |
| | | | O5/10/2013 Signature Date Fatima Vasquez |
| | | | Printed Name Fatima.Vasquez@apachecorp.com E-mail Address |
| | | | 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. |
| | | | Date of Survey Signature and Seal of Professional Surveyor: . Certificate Number |

M &M #5 API # 30-025-38112 Sec 24, T20S, R38E

Elevation: 3574' KB, 3593' GL

TD: 7,700' PBTD: 7,653'

Casing Record:

8-1/2" 24# J-55 @ 1570' w/ 800 sxs 5-1/2" 17# L-80 @ 7,700' w/ 1450 sxs.

Perfs:

Blinebry: 6032-36; 6084-88; 6131-35 w/ 2 jspf (24 holes)

Tubb: 6532-36; 6586-90; 6661-65; 6706-10; 6755-59 w/ 2 jspf (40 holes)

AFE: PA-13-3759

1. MIRU unit. Kill well as necessary. Unset pump. POOH w/ rods and pump.

- 2. ND WH. NU BOP. Release TAC. POOH w/ tubing and TAC.
- 3. RU reverse unit. PU 4-3/4" bit, bit sub, and 5-1/2" casing scraper on 2-7/8" tubing to be used as work string. RIH to PBTD at 7,653'. Circulate hole clean. POOH.
- 4. MIRU WL. RIH w/ perforating gun. Perforate the Abo at 7126-33; 7135-42; 7280-90; 7311-18; 7324-29; 7333-46; 7353-58; 7410-15; 7420-26; 7436-45; 7459-69 w/ 2 jspf using Connex 0.5" diameter BH charges (174 holes). TIH with perforator. Correlate to Halliburton Spectral Density Dual Spaced Neutron log dated 10/6/2009. RDMO WL.
- 5. PU and RIH w/ PKR-RBP straddle assembly on WS to 7,510'. Set RBP at 7,510'. TOH 2' and test RBP to 1000 psi. Release PKR. TOH and spot 400 gallons acid across Abo perforations and set PKR at ± 7,075'.
- 6. MIRU Acid Services. Acidize the Abo down the tubing with 5,000 gallons 15% NEFE w/ additives using 300 ball sealers to divert spaced throughout the job as a max rate but do not exceed 6,000 psi treating pressure. Displace to bottom perf with 50.1 bbls of flush. Surge balls.
- 7. Release PRK and TIH to knock balls off perforations. TOH and set PKR at 7,075'.
- 8. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment. *If unproductive, Set CIBP above Abo* @ 7,100'.
- 9. Kill well if necessary. Release PKR and TOH.
- 10. RIH w/ production equipment as per the Hobbs office specifications. RDMOPU.
- 11. Return well to production and place into test for 10 days. Have chemical representative test fluids and put well on the appropriate chemical maintenance program.

Apache Corporation – M & M #5

Wellbore Diagram - Proposed

API: 30-025-38112

Date: 4/10/2013

Surface Location

R. Taylor

330' FNL & 2310' FWL, Lot C Sec 24, T20S, R38E, Lea County, NM

TOC @ 84'

Surface Casing

8-1/2" 24# J-55 @ 1570' w/ 800 sxs to surface

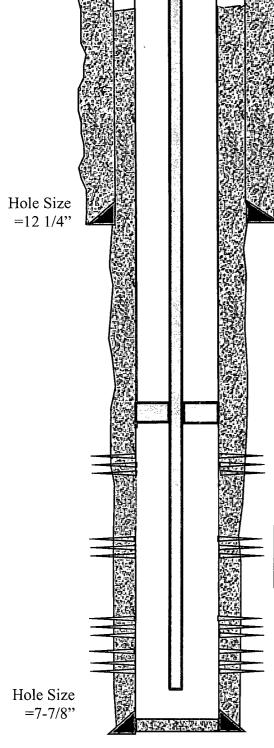
TAC @ TBD SN @TBD

12/06: Perf Blinebry @ 6032-36; 84-88; 6131-35 w/ 2 jspf (24 holes). Acidized w/ 2000 gal 15% HCl. Frac'd w/ 39k gal SS-25 w/ 82k# 20/40 snd. 1000 gal 15% dumped down tubing.

12/06: Perf Tubb @ 6532-36; 86-90; 6661-65; 6706-10; 55-59 w/ 2 jspf (40 holes). Acidized w/ 2000 gal 15% HCl. Frac'd w/ 65k gal SS-25 w/ 166k# 20/40 snd.

TBD: Perf Abo @ 7126-33; 7135-42; 7280-90; 7311-18; 7324-29; 7333-46; 7353-58; 7410-15; 7420-26; 7436-45; 7459-69 w/ 2 jspf (174 holes). Acidize w/ 5000 gal 15% NEFE.

PBTD = 7,653' MD =7,700' Production Casing 5-1/2" 17# J-55 & L-80 @ 7700' w/ 1450 sxs



GL=3593'

KB=3574'

Spud:9/25/06