FORM 3160-4 (August 2007)

DEPARTMENT OF THE INTERIOR BUREAU OF LAWS 18 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137

Expires: July 31, 2010
5. LEASE DESIGNATION AND SERIAL NO.

| WELL | COMDI ETION OR | RECOMPLETION REPORT | ANDIOC |
|------|----------------|---------------------|--------|
| | | | |

| WE | LL COMP | LETION | OR REC | COMP | LETION | REF | PORT | AND L | OG | | | Ni | MNM971 | 36 | |
|--------------------------|---------------------------------|---------------------------------------|----------------|---------------|--|-------------|--------------|-------------|---------|-----------------|-------------------------|---------------------------|--------------------|----------------------|--------------------|
| la. Type of We | ell X | Oil Well | Gas We | ell 🔲 | Dry | Other | | | | | 6. IN | DIAN ALLOTT | EE OR TRIE | BE NAME | |
| b. Type of Cor | mpletion | New Well | Workov | /er | Deepen | Plug B | Back | Diff. | Resvr. | | | | | | |
| | | Other | | | <u></u> | - | | | | | 7. UN | NIT AGREEME | NT | | |
| 2. Name of Ope | erator | | | | | _ | | | | 1 1,15,14 | 8. FA | RM OR LEASI | E NAME | | |
| COGC | perating LL | .C | | | | | | | | | | Marau | der Feder | al#1H | |
| 3. Address | | | | | | 3a. P | hone No. (| include ai | rea coa | 'e) | 9. AF | I WELL NO. | | | |
| | V. Main Stre | | | | | | 575 | 5-748-6 | 940 | | , | 30 | -015-382 | 44 | |
| | , NM 88216 Well (Report loca | | and in accorda | nce with F | Federal requi | irements, | ;)* | | | ÷ | 10. F | IELD NAME | | | |
| At surface | 330' FN | L & 660' | FWL, Lot | 1 (NV | WNW) | | | | | | | Gatuna Ca | anyon; Bo | one Sprin | g k |
| | | | , | ` | , | | • | | | | 11. S OR AF | EC. T, R, M., O REA 31 | r block a t 198 | | |
| At top prod. Inter | rval reported belo | w 6 | 14' FNL & | z 595' F | FWL, Loi | t 1 (N | IWNW. |) | | | | COUNTY OR F | | | |
| At total depth | 328' FS | L & 657' | FWL, Lot | 4 (SV | VSW) | | | | | | | Eddy | | NM | |
| 14. Date Spudd | led 15 | . Date T.D. | Reached | | 16. Date C | omplete | ed | | 11/11 | | | LEVATIONS (| DF, RKB, RT | , GR, etc.)* | |
| 10/28 | 3/10 | 1 | 1/23/10 | | | D&/ | A | X | Ready | to Pro | d, | 3392' | GR | 3410' | КВ |
| 18. Total Depth: | MD | 13225' | 19. Plug b | ack T.D.: | MD | | 1310 | | 20 | . Depti | Bridge P | lug Set: MD | | | |
| | TVD | 8804' | | | TVD | | 880 | 4' | 1. | | | TVI | | | |
| 21. Type El | ectric & other Lo | gs Run (Subr | • • | , | | | | | 22. | | well cored | لكتا | ш | (Submit ana | • |
| | | | DLL, DS | N | | | | | | Was | DST run? | X No | ليسيا | (Submit rep | |
| | | | | | | | | | | Direc | tional Sur | vey? No | X Yes | (Submit cop | y) |
| | and Liner Record | 1 | | ·11) | Ι | | Stage Cer | nenter | No. of | f Sks. & | Type | | | <u> </u> | |
| Hole Size | Size/ Grade | Wt. (#/ | ft.) Top | (MD) | Bottom(N | 1D) | Dept | | | f Ceme | | шту Vol. (Bbl) | Cement To | p* Amou | nt Pulled |
| 17 1/2" | 13 3/8" J55 | <u> </u> | 0 | | 451' | | | | 5 | 595 s | х | | 0 | N | one |
| 12 1/4" | 9 5/8" J55 | + | | | 4075 | | | | | 375 s | | | 0 | | one |
| 7 7/8" | 5 1/2" N80 | 17# | 0 | | 13225 | 5' | | | 1525 | sx (| гос @ | 1641'-TS) | 0 | N ₁ | one |
| 24. Tubing l | Record | .1 | | | <u>. </u> | | | | | | | | | | |
| Size | Depth Set (M | D) Packe | er Depth (MD) | Si | ize | Depth S | et (MD) | Packer I | Depth (| MD) | Size | Depth | Set (MD) | Packer Dep | th (MD) |
| | | | | | | | | | | | | | | | |
| | ng Intervals | | | | | | erforation I | | ү | | | | | | |
| T3 | Formation Bone Spring | | Top 8880' | | 061' | | erforated In | | | Siz | e | No. of Holes | I | Perf. Status Open | |
| A) E B) | one spring | | 0000 | 130 | 301 | | 000-130 | <i>J</i> 01 | _ | | | | | Орен | |
| C) | | | ***** | | | | | | - | | | | | | |
| D) | • | | | | | | | | | | | | | | |
| | acture Treatment, | Cement Squ | eeze, Etc. | | | | | | | | | | | | |
| | epth Interval | | | | | | | Amount an | | | | | | CEI | TED) |
| 88 | 80-13061' | A | cdz w/24 l | .43 gal | 15% NE | FE; F | rac w/2 | 941595 | 5# sai | nd & | 250186 | 67 gal fluid | Inc | .ULI | |
| | | | * | | | | | | | | | | 1 1 | AR 09 | -2011 - |
| | | | | | | | | | | | | - | . 141 | .Fili • | |
| | | + | | | | | | | | | | | MMC | OCD A | nie S |
| 28. Producti | ion- Interval A | · · · · · · · · · · · · · · · · · · · | | | | | | | - | | | | | | |
| Date First | Test Date | Hours | Test | Oil | Gas | | /ater | Oil Gravi | • | Gas | | Production-N | lethod | | |
| Produced 1/14/11 | 2/11/11 | Tested 24 | Production | _{Вы} | MCF 81 | 4 | ы 659 | Corr. AP | 1 | Grav | $\bigcap \bigwedge^{v}$ | POTE | Pump | IN TO | 1Pi |
| Choke Size | Tbg. Press | Csg | 24 Hr. Rate | Oil Bbl | Gas | | /ater | Gas: Oil | | Well | Status | <u> </u> | | 1 1 2 2 | 11531 |
| 20/64!! | Flwg. SI 540# | Press. | | | MCF. | В | bl | Ratio | | | | | Produci | ng | |
| 20/64" |] 340π | 130# | | 1 | | | | L | | ا ـــــا | | rrn | 277 | 011 | |
| 28a. Producti Date First | on- Interval B Test Date | Hours | Test | Oil | Gas | Īw | /ater | Oil Gravi | ity | Gas | | Production M | | 011 | |
| Produced | | Tested | Production | Вы | MCF | | bl | Corr. AP | • | Grav | ty | 1 | \mathcal{O}_{-} | | |
| Choke Size | Tbg. Press | Csg | 24 Hr. Rate | Oil Bbl | Gas | 1327 | /ater | Gas: Oil | | Wali | State DI | IDEALL OF | AND MA | | NIT |
| | Flwg. | Press. | Z. III. Kate | 0" 100 | MCF | BI | | Ratio | | 1 | Starts B[| , | LAND MA | NAGEME | 141 |

^{*} See instructions and spaces for additional data on page 2)

| Date First Test Date Hours Test Oil Gas Water Oil Gravity Gas Production Method Produced Produced Bhl MCF Bhl Corr. API Gravity | Produc | tion_ Inter | vol C | | | | | | | | | | |
|---|--------------------------------------|-------------------------------|--|--|-----------------|-------------|-----------------------|--------------------------------|----------|-------------------|-------------------------------|------------------|---------------------------------------|
| Thoke Size Thg. Press Csg Press 24 Hr. Rate Oil Bbl Gas MGF Bbl Ratio Gas Oil Gravity Gas Growing Growing Growing Gas Growing Growing Gas Growing Growing | Date First | | e | | 1 | | | | | | | Production Metho | od |
| Production | roduced | | | Tested | Production | Bhl | MCF | Bhl | Con | r. API | Gravity | | |
| St. Production- Interval D Date First Test Date Hours Test Production Rhh MCF Rhb Corr. API Gravity Gas Gravity Gravity Gas | Choke Size | _ | | | 24 Hr. Rate | Oil Bbl | | | | | Well Status | 1 | |
| Test Date Hours Tested Production Tested Tested Production Tested Tested | | | | - 1633 | - | | IVIV.1 | 170 | IVACI | | | | |
| Tested Production Bhl MCF Bhl Corr. API Gravity Disposition of Gas (Stold. used for fuel. vented. etc.) | | | | Hours | Tast | loa | IGos | Water | loa | Crovity | Gos | Production Math | nd . |
| Press | | l CSt Dai | | | | | | 1 | | | | roduction wear | ou |
| State Stat | hoke Size | Tbg. Pre | SS | Csg | 24 Hr. Rate | Oil Bbl | Gas | Water | Gas | : Oil | Well Status | | |
| Solid | | Flwg. SI | | Press | | | MCF | ВЫ | Rati | io | | | |
| Summary of Porous Zones (include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Formation Top | 9. Disposition | of Gas (S | old, used | for fuel, ven | ted, etc.) | 1 | | 1 | | | <u> </u> | | |
| Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and precoveries. Top Bottom Descriptions Contents, Etc. Name Top Measured Depth | Sold | | | | | | | | | | | | |
| Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries | D. Summary c | of Porous 2 | ones (inc | lude Aquife | rs): | | | | | 31. Form | ation (Log) Marke | rs: | |
| Top Bottom Descriptions Contents, Etc. Name Top Measured Dept | Show all in | nportant zo | nes of po | rosity and c | ontents thereo | | | | 1 | | (B) | | |
| Tates | _ | epth interv | al tested, | cushion use | d, time tool op | en, flowing | and shut-in p | ressures and | | | | | · · · · · · · · · · · · · · · · · · · |
| Tates 1944' 2175' Rustler 564' even Rivers 2176' 2317' Bottom of Salt 1788' leaware 4074' 6593' Yates 2176' lone Spring 6594' 10105' Seven Rivers 2176' Reef 2318' Delaware 4074' Bone Spring 6594' Wolfcamp 10106' TD. 13225' | Form | ation | Тор | Bott | om | Descri | ptions Conte | nts, Etc. | | | Name | | |
| even Rivers eef 2318' 4073' Bottom of Salt 1788' 1788' 1944' one Spring 6594' 10105' Seven Rivers Reef 2318' Delaware Bone Spring Wolfcamp 10106' | yuu - | | | | | | | | | | • | | Measured Depth |
| Reef 2318' 4073' Bottom of Salt 1788' 1944' 10105' Seven Rivers 2176' Reef 2318' 4074' Bone Spring 6594' 10106' TD. 13225' TD | | | | | 1 | | | | | | | | Į. |
| Pelaware 4074' 6593' 10105' Seven Rivers 2176' Reef 2318' Holds Spring Wolfcamp TD. 13225' | | ers | | | 1 | | | | | | | | Į. |
| Seven Rivers 2176' Reef 2318' Delaware 4074' Bone Spring Wolfcamp 10106' | | | | 1 | l l | | | | | | of Salt | | 1 |
| Reef 2318' Delaware 4074' Bone Spring 6594' Wolfcamp 10106' | | 10 | | | 1 | | | | | | Rivers | | |
| Bone Spring 6594' Wolfcamp 10106' | | | 007 | . | | | | | | l . | | | ľ |
| Wolfcamp 10106' | | | | | | | | | | 1 | | | 1 |
| тр. 13225' | | | | | | | | | | 1 | | | 1 |
| | | | | | | | | | | Wolfca | mp | | 10106' |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1200 51 |
| . Additional remarks (menute pragging procedure). | 2 Addition | al remark | s (includ | le plugging | nrocedure) | | | | | | | | TD. 13225 |
| | 32. Additiona | al remark | s (íncluc | le plugginş | g procedure). | | | | | and manufactures. | | | тв. 132 |
| | | | | | | | | | | | | | |
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| Indicate which items have been attached by placing a check in the appropriate boxes: | 3. Indicate v | which ite | ns have | been attac | hed by placir | ng a check | in the appr | opriate boxe | s: | | | | |
| X Electrical/ Mechanical Logs (1 full set required) Geologic Report DST Report DT Description Survey | _ | | | | | ng a check | _ | - | s: | ☐ DST R | | | rvey |
| | X Electrica | ii/ Mechanic | al Logs (1 | full set requir | ed) | ng a check | Geologic R | eport | | | | | rvey |
| | Electrica Sundry | nl/ Mechanic | al Logs (1 ugging and | full set requir | ed) cation | | Geologic R Core Analy | eport | | X Other: | Deviation | Report | rvey |
| X Electrical/ Mechanical Logs (1 full set required) Geologic Report DST Report X Directional Survey | X Electrica Sundry N 4. I hereby cer | al/ Mechanic Notice for pl | al Logs (1 ugging and e foregoin | full set requir cement verifing and attac | ed) cation | | Geologic R Core Analy | eport sis t as determine | d from a | X Other: | Deviation ercords (see attack | Report | rvey |
| X Electrical/ Mechanical Logs (1 full set required) Geologic Report DST Report X Directional Survey | X Electrica Sundry N I hereby cer | al/ Mechanic Notice for pl | al Logs (1 ugging and e foregoin | full set requir cement verifing and attac | ed) cation | | Geologic R Core Analy | eport sis t as determine | d from a | X Other: | Deviation ercords (see attack | Report | rvey |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent strements or representations as to any matter within its jurisdiction.