## SUBMIT IN DUPLICATE\* FORM APPROVED

| 4   | Zevisec | k l        |
|-----|---------|------------|
| W I |         | <u>4 V</u> |

| FORM 3160-4<br>(July 1992)           | 1             | DEP.                    |               |                   | STATES<br>F THE INTE                 |                           | (See other in<br>structions ons<br>reverse side)   | -<br>5      | OMB NO<br>Expires       | D. 1004-0137<br>February 28, | 1995 NOI                                 | Og 2011  Trield Office Manager |
|--------------------------------------|---------------|-------------------------|---------------|-------------------|--------------------------------------|---------------------------|--|-------------|-------------------------|------------------------------|--|--------------------------------|
| WELI<br>WELI                         | ⊥ Xt<br>L COI |                         |               |                   | MANAGEM MPLETION                     |                           | AND LOG  | <br>}*      | Jicarilla<br>6 IF INDIA | a Contrac                    | t #9 Tract 90)                           | TFIELD OFF                     |
| ia. TYPE OF WO                       |               |                         |               | GAS<br>WELL       |                                      | Othe                      |  |             | 7. UNIT AG              | REEMENT NAM                  | e<br>E                                   | 7 Field Office<br>1 Managemen. |
| NEW WELL 2 NAME OF OPERAT            | WORI<br>OVE   |                         | EN            | PLUG<br>BACK      |                                      | Othe                      | r Pay Ad   | dd          | 8 FARM OF               | R LEASE NAME,                | WELL NO                                  |                                |
| Elm Ridge E                          | xplorat       |                         | 2             |                   |                                      |                           |  |             | 9. API WELI             |                              | <del>1</del> 3                           |                                |
| Po Box 156 E                         | 3loomf        | ield NM 87              |               | *                 | -                                    |                           |  |             | 30-039-<br>10 FIELD A   | -05892<br>ND POOL OR W       | ILDCAT                                   |                                |
| 4 LOCATION OF V                      | WELL (Re      | port locations cle      | arly and in a |                   | th any State requirements            |                           |  |             | 11 SEC,T,               | R, M, OR BLOC                | akota West                               |                                |
| At top prod Interval  At total depth | reported b    | elow                    |               |                   |                                      |                           |  |             | OR AREA                 | '<br>23-T25N-                | R5W                                      |                                |
| ra total acpui                       |               |                         |               | 14 PERMIT         | NO                                   | DATE ISSUED               |  |             | 12 COUNTY               |                              | 13 STATE NM                              |                                |
| 15 DATE SPUDDED<br>9-29-55           | 1             | T.D REACHED<br>11-10-55 | 17 D.         | ATE COMPL (       | (Ready to prod.)                     | 18 ELEVATIONS (E          |  | c)*<br>KB   | 1.00                    |                              | ELEV CASINGHEAD                          |                                |
| 20 TOTAL DEPTH, MI<br>7505' MD       | D & TVD       | 21 PLUGB                | ACK TD, M     | D & TVD           | 22 IF MULTIPLE<br>HOW MANY           |                           | 23 INTERVALS DRILLED BY                            | RO<br>X     | TARY TOOLS              |                              | CABLE TOOLS                              |                                |
| 24 PRODUCING INTE                    |               | OF THIS COMPLET         | TONTOP, E     |                   |                                      |                           | <u> </u>   |             |                         | 2:                           | WAS DIRECTIONAL<br>SURVEY MADE           |                                |
| 26 TYPE ELECTRIC A                   | ND OTHE       | _                       | ral Dens      | sity, high        | Resolution In                        | duction Log, (            | CBL LOG  | •           |                         | 27                           | WAS WELL CORED                           |                                |
| 23<br>CASING SIZE                    | /GRADE        | WEIGH                   | IT, LB./FT    |                   | H SET (MD)                           | ort all strings set in w  | <del>,                                      </del> | EMENT, CI   | EMENTING RE             | CORD                         | AMOUNT PULLED                            |                                |
| 13 3/8<br>8 5/8" J                   |               |                         | 6#<br>2#      | +                 | 217'                                 | 17 1/4"<br>11"            |  | 250 s       |                         |                              | WALL STORY T                             | 6.4                            |
| 5 1/2" .                             | J55           | 1                       | 7#            | 7                 | 7505'                                | 7 7/8"                    |  | 900         | sks                     |                              |  |                                |
| 29<br>SIZE                           |               | LII<br>TOP (MD)         | VER RECO      | OM (MD)           | SACKS CEMENT*                        | SCREEN (MD)               | 30<br>SIZE   | _           | TUBING RI               | m> T                         |  | DIV.                           |
|                                      |               |                         |               |                   |                                      |                           | 2 3/8"   |             | 6523'                   |                              | PACKER SET (MD)                          |                                |
| 31. PERFORATION R                    | ECORD (Ir     | terval, size and nu     | mber)         |                   | <del></del>                          | 32                        | ACID, SHOT, F                                      | RACTU       | RE, CEMEN               | r squeeze,                   | етс.                                     |                                |
|                                      | [ERVAI        | _                       |               | <u>IZE</u>        | NUMBER                               | DEPTH INTE                |  | ^           | MOUNT AND               | KIND OF MAT                  | ERIAL USED                               |                                |
| 630                                  | 1'-649.       | 3'                      | .•            | 46                | 152                                  | 6301'-                    | 6493'  | -           | -                       |                              | with Clay stabilize                      | •                              |
|                                      |               |                         |               |                   |                                      |                           |  |             | <del></del>             |                              | tr, 756 MSCF N2,<br>C frac fluid, 25000g |                                |
|                                      |               |                         |               |                   |                                      |                           |  |             |                         |                              | f 20/40 CRC sand                         |                                |
|                                      |               | i i                     | CTION M       | IETHOD (          | P<br>Flowing, gas lift, <sub> </sub> | RODUCTION pumping—size an | d type of pump                                     | ))          |                         | L STATUS                     | (Producing or sh                         |                                |
| Will Submit Sun                      | ary Not       |                         | тепсно        | KE SIZE           | PROD'N. FOI (                        | OIL-BBLS.                 | GAS-MCF.   |             | WATER-                  | -BBL. G                      | AS-OIL RATIO                             |                                |
| LOW. TUBING                          | PRESS         | CASING PRI              |               | CULATE<br>OUR RAT | OIL-BBL.                             | GAS-MC                    | F.   | WAT         | ER-BBL.                 | OIL GRAV                     | ITY-API (CORR                            |                                |
| 4. DISPOSITION                       | OF GA         | S (Sold, used           |               |                   |                                      |                           |  | L           | TEST WI                 | rnessed B                    | APPLE PIE                                | D FOR RECORD                   |
| 5. LIST OF ATT                       | ГАСНМ         | ENTS                    | //            | ,                 | ·                                    |                           |  | <del></del> | <u> </u>                |                              | YOM                                      | 10 2004                        |
| 4 I haraba ca t-C. 1                 | t the G-      | A                       | 1             |                   | and some                             | and Grone - U             |  |             |                         |                              |  | WFIELD-OFFICE                  |
| SIGNED                               | . ше когед    | July and attached       | Automation    | is complete a     | and correct as determine             |                           | records<br>istrative Mai                           | nager       |                         |                              | 1 17872011                               |                                |
|                                      | /             | <del></del>             | *(;           | See Instruct      | ions and Spaces for                  | Additional Data or        | n Reverse Side)                                    |             |                         |                              |  |                                |

drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38. GEOLOGIC MARKERS recoveries); FORMATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC. TOP 2150 Kirtland Formation TRUE NAME MEAS. DEPTH Pictured Cliffs Formation 2537 VERT. DEPTH Chacra Mesa Member 3413 Cliff House Formation 4220 Point Lookout Formation 4740 Mancos Formation 4935 Gallup Formation 5918 Greenhorn Member of the Mancos Formation 6700 6905 Dakota Formation 7100 Morrison Fo-mation

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all

SUBMIT IN DUPLICATE\* FORM APPROVED

## UNITED STATES DEPARTMENT OF THE INTERIOR RURFALLOF LAND MANAGEMENT

|  | BUF  |   | Jicarilla Contract #9 Tract: 10 To Tammington Field Officerilla Apache 9 Tract: 10 To Tammington Field Officerilla Apache 9 Aprivella No Tammington Field Officerilla Apache A3 9 API WELL NO Tractilla Apache A3 |   |  |   |   |  |  |  |  |                 |
|--|--|---|---|---|--|---|---|--|--|--|--|-----------------|
| WELL CO  | MPLETIO  | OR REC  | COMPL   | ETION                                     | REPORT   | AND LOG   | <b>;</b> *  | 1  | •  | EE OR TRIBE NAME Apache  | areau of Land Manage nen.              |                 |
|  | OIL  | x ,   | GAS y   | DRY                                       | 7  |   |   | 7 UNIT AGR   |  |  |  | nington Eigla O |
| 1a. TYPE OF WORK   | WELI   | ، لـــا،  | GAS<br>WELL X   | DRY                                       | Othe   | г   |   |  |  |  | 32 5                                   | ğ +             |
| 1b. TYPE OF WELL   |  |   |   | _   | _  |   |   | R FARM OR  | I EASE NA  | ME, WELL NO  | _₹.                                    | ii c            |
| NEW WO   | ER DEEPEN  |   | PLUG BACK   | DIFF<br>RESVR.                            | J, Othe  | r Pay Ac  | bb  | 5 TAIGH OK   | LEAGE IVA  | WILL NO  | an a                                   | 2 6             |
| 2 NAME OF OPERATOR   |  |   |   |   |  |   |   | Jicarilla /  | Apach  | e A3   |  | = ہ             |
| Elm Ridge Explora  | ation Co. LLC  |   |   |   |  |   |   | 9 API WELL   | NO.  |  | 3                                      | 5               |
| 3 ADDRESS AND TELEPHON   |  |   |   |   |  |   |   | 30-039-0   | 05892  |  | Ţ                                      |                 |
| Po Box 156 Bloom   | nfield NM 874  | 13  |   |   |  |   |   | 10 FIELD AN  |  | R WILDCAT  |  |                 |
| 4 LOCATION OF WELL (I  | Report locations clearly   | y and in accordance   | e with any Sta  | ate requiremen                            | ts *)  |   |   | Gallup   | h  | lest Linda   | ich                                    |                 |
| At Surface   |  |   | 990'  | FSL x 16                                  | 50' FWL  |   |   | II SEC. T. F   |  | BLOCK AND SURVE  |  |                 |
|  |  |   |   |   |  |   |   | OR AREA  |  |  |  |                 |
| At top prod Interval reported  | l below  |   |   |   |  |   |   |  |  |  |  |                 |
| At total depth   |  |   |   |   |  |   |   | "N"Sec.2   |  |  |  |                 |
|  |  | 14 PE   | RMIT NO   |   | DATE ISSUED  |   |   | 12 COUNTY (  |  |  |  |                 |
|  |  |   |   |   |  |   |   | Rio A  | Arriba   | NM   |  |                 |
| the second secon | TE T D. REACHED  | 17 DATE CO  | MPL (Ready to   | o prod )                                  | 18 ELEVATIONS (1   |   | тс)*<br>КВ  |  |  | 19 ELEV CASING   | HEAL                                   |                 |
| 20 TOTAL DEPTH, MD & TVI   |  | CK T D , MD & TV  | D ]22   | 2 IF MULTIPLE                             | 1  | 23 INTERVALS  |   | TARY TOOLS   |  | CABLE TOOLS  |  |                 |
| 7505   | 7348   |   |   | HOW MANY                                  |  | DRILLED BY  | 1   | IARY IOOLS   |  | CABLE TOOLS  |  |                 |
| Z634' MD   | TVD 7-62-4"  | MD  | TVD   |   |  |   | X   |  |  | <del> </del>   |  |                 |
| 24 PRODUCING INTERVAL(S  | 6), OF THIS COMPLET?   | ON-TOP, BOTTON  | A, NAME (MD   | AND TVD)*                                 |  |   |   |  |  | 25 WAS DIRECTI<br>SURVEY MAD   |  |                 |
| 6301'-6493'  |  |   |   |   |  |   |   |  |  | SORVET MIAD  |  |                 |
| 0307 0193  |  |   |   |   |  |   |   |  |  |  |  |                 |
| 26 TYPE ELECTRIC AND OTE   | HER LOGS RUN   |   |   |   |  |   |   |  |  | 27 WAS WELL CO   | ORED                                   |                 |
|  | • •  | 10  |   |   |  |   |   |  |  |  |  |                 |
|  | Spectra  | ai Density, r   | nigh Reso   | olution In                                | duction Log,   | CBL LOG   |   |  |  |  |  |                 |
| 23   | Spectra  |   |   |   | duction Log, or all strings set in w   |   |   |  |  |  |  | 1               |
| 23<br>CASING SIZE/GRADE  |  |   |   | ECORD (Rep                                |  | vell)   | EMENT, CE   | MENTING REC  | CORD   | AMOUNT PULL  | الأكاما والسا                          | anni u          |
|  |  | LB /FT.   | CASING REDEPTH SET (  | ECORD (Repo                               | ort all strings set in w   | vell)  TOP OF CE  |   | MENTING REC<br>O Surface   | CORD   | والا المنافظة سلالة الما   | <br>.ED                                | onesis u        |
| CASING SIZE/GRADE  | 24:  | LB/FT.   302<br>5# 750  | CASING RE   | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | TOP OF CE   | ) sks to  |  | CORD   | AMOUNT PULL  | <br>.ED                                | npai u          |
| CASING SIZE/GRADE<br>8 5/8" J55  | 24:  | LB /FT.   | CASING REDEPTH SET (12) 265'  | ECORD (Repo                               | on all strings set in w<br>HOLE SIZE   | TOP OF CE 250   | ) sks to  | surface  | CORD   | AMOUNT PULL  | <br>.ED                                | nani u          |
| CASING SIZE/GRADE<br>8 5/8" J55<br>\$1/2" J55  | 24:  | LB /FT.  <br># 302<br>5# 750  | CASING REDEPTH SET (12) 265'  | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | TOP OF CE 250   | ) sks to<br>) sks to  | surface  | CORD   | AMOUNT PULL  | <br>.ED                                | GRALL W         |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  //3 3/4   | WEIGHT 24:   | LB/FT. # 302 5# 750 AP 217  | CASING RE DEPTH SET (1) 2-7 2-65' 5-7-67-2'   | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | 720<br>250<br>250<br>250<br>250   | O sks to<br>O sks to<br>O srs   | Surface Surface TUBING RE  | CORD   | AMOUNT PULL  | <br>.ED                                | energy u        |
| CASING SIZE/GRADE  8 5/8" J55  \$1/2" J55  /3 3/4  | 24<br>10<br>36   | 18/FT.  <br># 302<br>5# 750<br># 212                                      | CASING RE DEPTH SET (1) 2-7 2-65' 5-7-67-2'   | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | 720 2 55 30 SIZE  | O sks to<br>O sks to<br>O srs   | O SURFACE O SURFACE TUBING RE  | CORD   | AMOUNT PULL  | ED SI                                  | ones, a         |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  //3 3/4   | WEIGHT 24:   | LB/FT. # 302 5# 750 AP 217  | CASING RE DEPTH SET (1) 2-7 2-65' 5-7-67-2'   | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | 720<br>250<br>250<br>250<br>250   | O sks to<br>O sks to<br>O srs   | Surface Surface TUBING RE  | CORD   | AMOUNT PULL FRICT  | ED SI                                  |                 |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  //3 3/4   | WEIGHT 24:   | LB/FT. # 302 5# 750 AP 217  | CASING RE DEPTH SET (1) 2-7 2-65' 5-7-67-2'   | ECORD (Repo                               | ort all strings set in w<br>HOLE SIZE<br>12 1/4"<br>7 7/8"   | 700 OF CE 250 720 2 55 30 SIZE 2 3/8"   | O sks to<br>O sks to<br>O s <sub>r</sub> s  | O SUIFACE O SUIFACE TUBING RE DEPTH SET (ME 6523'  | CORD<br>D)   | AMOUNT PULL FRITT T LEE 1  | ED SI                                  | ***             |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  //3 3/4  29  SIZE  31. PERFORATION RECORD   | WEIGHT  24  10  34  LIN  TOP (MD)  | # 302 5# 750  © 212  ER RECORD  BOTTOM (ME                                | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | ECORD (Repo                               | ort all strings set in w HOLE SIZE 12 1/4" 7 7/8" 1 7 ".  SCREEN (MD)                                  | 250<br>720<br>2 53<br>30<br>SIZE<br>2 3/8"  | Sks to<br>Sks to<br>Srs   | O SUIFACE O SUIFACE TUBING RE DEPTH SET (ME 6523'  | CORD D)  | PACKER SET ()  | ED SI                                  | J.              |
| CASING SIZE/GRADE  8 5/8" J55  51/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV.   | WEIGHT  24: 10 36  LIN  TOP (MD)   | LB /FT.  # 302 5# 750  ER RECORD  BOTTOM (ME                              | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | ECORD (Repo                               | HOLE SIZE  12 1/4"  7 7/8"  1 7 ".  SCREEN (MD)  32  DEPTH INTI  | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD)  | O sks to<br>O sks to<br>O srs   | D SUIFACE D SUIFACE TUBING RE DEPTH SET (M 6523' RE, CEMENT  | CORD D)  SQUEEZ KIND OF  | PACKER SET (N  | 4D)                                    | J.              |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  //3 3/4  29  SIZE  31. PERFORATION RECORD   | WEIGHT  24: 10 36  LIN  TOP (MD)   | # 302 5# 750  © 212  ER RECORD  BOTTOM (ME                                | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | ECORD (Repo                               | ort all strings set in w HOLE SIZE 12 1/4" 7 7/8" 1 7 ".  SCREEN (MD)                                  | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD)  | O sks to<br>O sks to<br>O srs   | D SURFACE D SURFACE TUBING RE DEPTH SET (M 6523' RE, CEMENT MOUNT AND  | CORD D)  F SQUEEZ KIND OF 1 % MCA 2  | AMOUNT PULL FYIST  PACKER SET (N  PACKER SET (N  MATERIAL USED  acid with Clay sta   | AD)                                    | J.              |
| CASING SIZE/GRADE  8 5/8" J55  51/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV.   | WEIGHT  24: 10 36  LIN  TOP (MD)   | LB /FT.  # 302 5# 750  ER RECORD  BOTTOM (ME                              | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | ECORD (Repo                               | HOLE SIZE  12 1/4"  7 7/8"  1 7 ".  SCREEN (MD)  32  DEPTH INTI  | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD)  | RACTUE A 500 Gal HAI 40   | TUBING REDEPTH SET (ME 6523'  RE, CEMENT MOUNT AND Blons of 7 1/24.FE-1A, Mus                                      | CORD D) SQUEEZ KIND OF 19% MCA as  | PACKER SET (N  PACKER SET (N  MATERIAL USED  acid with Clay sta  acid with 756 MSCF  | AD)                                    | J.              |
| CASING SIZE/GRADE  8 5/8" J55  51/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV.   | WEIGHT  24: 10 36  LIN  TOP (MD)   | LB /FT.  # 302 5# 750  ER RECORD  BOTTOM (ME                              | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | ECORD (Repo                               | HOLE SIZE  12 1/4"  7 7/8"  1 7 ".  SCREEN (MD)  32  DEPTH INTI  | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD)  | O sks to<br>O o | TUBING REDEPTH SET (ME 6523'  RE, CEMENT MOUNT AND Flors of 7 1/2 4.FE-1A, Mus alls of 17 CP                       | CORD D)  F SQUEEZ KIND OF 19 % MCA & sal dble 11 Delta w/1                                     | PACKER SET (N  PACKER SET (N  PACKER SET (N  AMOUNT PULL  PACKER SET (N  AMATERIAL USED  Condition of the Clay standard with Cl | AD)  AD)  AD)  N2.  0000gi             | J.              |
| 29 SIZE  31. PERFORATION RECORD  INTERV. 6301'-64  | WEIGHT  24: 10 36  LIN  TOP (MD)   | LB /FT.  # 302 5# 750  ER RECORD  BOTTOM (ME                              | CASING RE DEPTH SET (1) -7 265' -5 76+12' -7 '  | KS CEMENT*  UMBER  152                    | ort all strings set in w HOLE SIZE 12 1/4" 7 7/8" 17"  SCREEN (MD)  32  DEPTH INT 6301'-               | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD)  | O sks to<br>O o | TUBING REDEPTH SET (ME 6523'  RE, CEMENT MOUNT AND Flors of 7 1/2 4.FE-1A, Mus alls of 17 CP                       | CORD D)  F SQUEEZ KIND OF 19 % MCA & sal dble 11 Delta w/1                                     | PACKER SET (N  PACKER SET (N  MATERIAL USED  acid with Clay sta  acid with 756 MSCF  | AD)  AD)  AD)  N2.  0000gi             | J.              |
| 29 SIZE  S1. PERFORATION RECORD  INTERV. 6301'-64  | LIN TOP (MD)  (Interval, size and num ALL  | LB/FT.  # 302  5# 750  ER RECORD  BOTTOM (ME  size)  SIZE  .46            | CASING RE DEPTH SET (1 -7 205' 5 7672' 7 ) SACCE  | KS CEMENT*  UMBER 152                     | HOLE SIZE  12 1/4"  7 7/8"  1 7 ".  SCREEN (MD)  32  DEPTH INTI  6301'-                                | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD) 6493'                                    | O SKS to<br>O S | TUBING REDEPTH SET (MICROSOFT 1/2  RE, CEMENT MOUNT AND Flors of 7 1/2  4.FE-1A,Mushils of 17 CP                   | CORD D)  SQUEEZ KIND OF 19% MCA a sal dble 11 Delta w/s 10 702 sk                              | PACKER SET (N  PACKER | AD)  Abilize  N2.  000gi sand.         | J.              |
| 29 SIZE  31. PERFORATION RECORD  INTERV. 6301'-64  | LIN TOP (MD)  (Interval, size and num ALL  | LB/FT.  # 302  5# 750  ER RECORD  BOTTOM (ME  size)  SIZE  .46            | CASING RE DEPTH SET (1 -7 205' 5 7672' 7 ) SACCE  | KS CEMENT*  UMBER 152                     | HOLE SIZE  12 1/4"  7 7/8"  1 7 ".  SCREEN (MD)  32  DEPTH INTI  6301'-                                | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD) 6493'                                    | O SKS to<br>O S | TUBING REDEPTH SET (ME. CEMENT MOUNT AND WIGHTS OF 7 1/2 4.FE-1A, Must halfs of 17 CP 70Q Delta 14                 | CORD D) SQUEEZ KIND OF 19% MCA & sal dble II Delta W/I 10 702 sk                               | PACKER SET (N  PACKER SET (N  PACKER SET (N  AMOUNT PULL  PACKER SET (N  AMATERIAL USED  Condition of the Clay standard with Cl | AD)  Abilize  N2.  000gg sand.         | J.              |
| 29 SIZE  S1. PERFORATION RECORD  INTERV. 6301'-64  | LIN TOP (MD)  (Interval, size and num ALL  | # 302 # 750 # 212 # BOTTOM (ME  SIZE .46                                  | CASING RE DEPTH SET (1-7) 205' 5 7672' 7 '  NI  ODD (Flowin   | KS CEMENT*  UMBER  152  Fing, gas lift, j | HOLE SIZE  12 1/4"  7 7/8"  17"  SCREEN (MD)  32  DEPTH INTI- 6301'-  PRODUCTION pumping—size and      | 250 720 2 50 30 SIZE 2 3/8"  ACID, SHOT, FERVAL (MD) 6493'                                    | RACTUE A 500 Gai HAI 40 9639 Ga 17 CP 7   | TUBING REDEPTH SET (ME. CEMENT MOUNT AND WIGHTS OF 7 1/2 4.FE-1A, Must halfs of 17 CP 70Q Delta 14                 | CORD D) SQUEEZ KIND OF 1) MCA & Sal dble ii Delta w/ii 0 702 sk L STAT                         | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) | J.              |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.4  DATE FIRST PRODUC  | LIN TOP (MD)  Cluterval, size and num  AL.  193'   | # 302 # 750 # 212 # BOTTOM (ME  SIZE .46                                  | CASING RE DEPTH SET (1-7) 285' 5 7672' 7 ' 0) SACK  NI  ODD (Flowin   | KS CEMENT*  UMBER  152  Fing, gas lift, j | HOLE SIZE  12 1/4"  7 7/8"  17"  SCREEN (MD)  32  DEPTH INTI- 6301'-  PRODUCTION pumping—size and      | TOP OF CE 250 720 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493'                          | RACTUE A 500 Gai HAI 40 9639 Ga 17 CP 7   | TUBING RE DEPTH SET (M 6523'  RE, CEMENT MOUNT AND Hons of 7 1/2 4.FE-1A,Mus alls of 17 CP                         | CORD D) SQUEEZ KIND OF 1) MCA & Sal dble ii Delta w/ii 0 702 sk L STAT                         | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) | J.              |
| CASING SIZE/GRADE  8 5/8" J55  5/1/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.4  DATE FIRST PRODUC  | WEIGHT  24:  10  34  LIN  TOP (MD)  (Interval, size and mun  AL.  193'  TOP PRODUCTION P | # 302 5# 750 ER RECORD BOTTOM (ME) size .46                               | CASING RE DEPTH SET (I 205' 5 76#2' 7  NI  OD (Flowin TEST  | KS CEMENT*  UMBER 152  Fing, gas lift, j  | HOLE SIZE  12 1/4"  7 7/8"  17"  SCREEN (MD)  32  DEPTH INTI- 6301'-  PRODUCTION pumping—size and      | TOP OF CE 25C 72C 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493' d type of pump; GAS-MCF. | RACTUE  A 500 Gai HAI 400 9639 Ga 17 CP 7   | TUBING RE DEPTH SET (M 6523'  RE, CEMENT MOUNT AND Hons of 7 1/2 4.FE-1A,Mus hills of 17 CP 70Q Delta 14           | CORD D) SQUEEZ KIND OF 19 MACA as al dble in Delta w/n 10 702 sk L STAT Non produ BBL.         | PACKER SET (A  PACKER | AD)  Abilize  N2.  000gi sand.  or shi |                 |
| CASING SIZE/GRADE  8 5/8" J55  51/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.* DATE FIRST PRODUCT  DATE OF TEST   | WEIGHT  24:  10  34  LIN  TOP (MD)  (Interval, size and mun  AL.  193'  TOP PRODUCTION P | # 302 5# 750 ER RECORD BOTTOM (ME) size .46                               | CASING RE DEPTH SET (I 205' 5 76#2' 7  OD (Flowin IZE PROI TEST   | KS CEMENT*  UMBER 152  Fing, gas lift, j  | HOLE SIZE  12 1/4"  7 7/8"  1 7 ''.  SCREEN (MD)  32  DEPTH INTI  6301'-  PRODUCTION  Dumping—size and | TOP OF CE 25C 72C 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493' d type of pump; GAS-MCF. | RACTUE  A 500 Gai HAI 400 9639 Ga 17 CP 7   | TUBING RE DEPTH SET (M 6523'  RE, CEMENT MOUNT AND Hons of 7 1/2 4.FE-1A,Mus hills of 17 CP 70Q Delta 14           | CORD D) SQUEEZ KIND OF 19 MACA as al dble in Delta w/n 10 702 sk L STAT Non produ BBL.         | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) |                 |
| 29 SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.4  DATE OF TEST  FLOW. TUBING PRES  | LIN TOP (MD)  CITION PRODUCTION P | ER RECORD BOTTOM (ME  SIZE .46  CTION METHO ED CHOKE S SSUCALCULA 24-HOUR | CASING RE DEPTH SET (1-7) 285' 5 7672' 7 '  SACR  OD (Flowin TEST  TEST  TEST   | KS CEMENT*  UMBER 152  Fing, gas lift, j  | HOLE SIZE  12 1/4"  7 7/8"  1 7 ''.  SCREEN (MD)  32  DEPTH INTI  6301'-  PRODUCTION  Dumping—size and | TOP OF CE 25C 72C 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493' d type of pump; GAS-MCF. | O SKS to O S  | TUBING RE DEPTH SET (M 6523'  RE, CEMENT MOUNT AND Hons of 7 1/2 4.FE-1A,Mus hills of 17 CP 70Q Delta 14           | CORD D) T SQUEEZ KIND OF 19% MCA a sal dble ii Delta w/i 10 702 sk L STAT Not produ BBL.       | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) |                 |
| CASING SIZE/GRADE  8 5/8" J55  51/2" J55  /3 3/4  29  SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.* DATE FIRST PRODUCT  DATE OF TEST   | LIN TOP (MD)  CITION PRODUCTION P | ER RECORD BOTTOM (ME  SIZE .46  CTION METHO ED CHOKE S SSUCALCULA 24-HOUR | CASING RE DEPTH SET (1-7) 285' 5 7672' 7 '  SACR  OD (Flowin TEST  TEST  TEST   | KS CEMENT*  UMBER 152  Fing, gas lift, j  | HOLE SIZE  12 1/4"  7 7/8"  1 7 ''.  SCREEN (MD)  32  DEPTH INTI  6301'-  PRODUCTION  Dumping—size and | TOP OF CE 25C 72C 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493' d type of pump; GAS-MCF. | O SKS to O S  | TUBING REDEPTH SET (MO 6523'  RE, CEMENT MOUNT AND Flors of 7 1/2 4.FE-1A,Mus of 17 CP TOQ Delta 14  WATER-ER-BBL. | CORD D)  F SQUEEZ KIND OF) % MCA & sal dble II Delta W/I 0 702 sk L STAT Not produ BBL.  OIL C | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) | 20:1            |
| 29 SIZE  31. PERFORATION RECORD INTERV. 6301'-64  33.4  DATE OF TEST  FLOW. TUBING PRES  | WEIGHT  24  10  36  LIN  TOP (MD)  (Interval, size and num  AL  193'  CTION PRODUCT  HOURS TEST  S CASING PRES  GAS (Sold, used for  | ER RECORD BOTTOM (ME  SIZE .46  CTION METHO ED CHOKE S SSUCALCULA 24-HOUR | CASING RE DEPTH SET (1-7) 285' 5 7672' 7 '  SACR  OD (Flowin TEST  TEST  TEST   | KS CEMENT*  UMBER 152  Fing, gas lift, j  | HOLE SIZE  12 1/4"  7 7/8"  1 7 ''.  SCREEN (MD)  32  DEPTH INTI  6301'-  PRODUCTION  Dumping—size and | TOP OF CE 25C 72C 2 Si 30 SIZE 2 3/8" ACID, SHOT, F ERVAL (MD) 6493' d type of pump; GAS-MCF. | O SKS to O S  | TUBING REDEPTH SET (MO 6523'  RE, CEMENT MOUNT AND Flors of 7 1/2 4.FE-1A,Mus of 17 CP TOQ Delta 14  WATER-ER-BBL. | CORD D)  F SQUEEZ KIND OF) % MCA & sal dble II Delta W/I 0 702 sk L STAT Not produ BBL.  OIL C | PACKER SET (N  PACKER | AD)  AD)  AD)  AD)  AD)  AD)  AD)  AD) | 20:1            |

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency. or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

Item. 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| FORMATION TOP | TOP | воттом   | 1 1 | DESCRIPTION, CONTENTS, ETC. |  | - NAME   | TOP             |             |                 |
|---------------|-----|----------|-----|-----------------------------|--|----------|-----------------|-------------|-----------------|
| 1             |     |          |     |                             |  |          | NAME            | MEAS. DEPTH | TRUE VERT, DEPT |
|               |     |          | ;   |                             |  | <u>{</u> | Ojo Alamo       | 2713'       | 2713'           |
|               |     | <u> </u> | ,   | l' i '                      |  |          | Kirtland        | 2811'       | 2811'           |
|               |     |          | · . |                             |  | ·        | Fruitland       | 2918'       | 2918'           |
| ;             |     | . ,      | ,   | ] .                         |  |          | Pictured Cliffs | I.          | 30271           |
| 2.4.          |     | 1        | ;   |                             |  |          | Lewis           | 3184'       | 3184'           |
|               | `   | ٠        |     |                             |  | 2        | Chacra          | 3845'       | 3845'           |
|               | í   |          | :   |                             |  | 1        | Cliff House     | 4670'       | 4670'           |
|               |     | ·        |     | •                           |  | ;        | Menefee         | 4755'       | 4755'           |
|               |     |          |     | *                           |  | •        | Point Lookout   | 5110'       | 5110'           |
|               |     |          |     |                             |  |          | Mancos          | 5410'       | 5410'           |
|               |     |          |     |                             |  |          | Gallup          | 6243'       | 6243            |
|               | 1   | ,        | Ì   | ,                           |  |          | Sanostee        | 6935'       | 6935!           |
|               |     |          |     | ŀ '                         |  |          | Greenhorn       | 7170'       | 7170'           |
| 1             |     |          |     |                             |  | •        | Graneros        | 7237'       | 7237'           |
| , ,           |     |          |     | ` -                         |  |          | Dakota "A"      | 7257'       | 7257'           |
|               |     |          |     | 1                           |  |          | Dakota "B"      | 7360'       | 7360'           |
|               | ,   |          | , ; |                             |  | ş.·      | Dakota "D"      | 7450!       | 7450            |
| i i i         |     | ٠.       | . : |                             |  |          | Burro Canyon    | 75331       | 7533            |
| 1 /           | ,   |          |     |                             |  |          | Darro Carron    | 7,555       | / / / / /       |
|               | ·:  |          | ,   |                             |  |          |                 |             |                 |
|               | ·   |          |     |                             |  | •        |                 |             | 1               |
|               |     |          | 1   | 1                           |  | 32       | li .            | 1           |                 |

FORM 3160-4 (July 1992)

SUBMIT IN DUPLICATE\* FORM APPROVED

(See other in-structions ons reverse side)

OMB NO 1004-0137

Expires February 28, 1995 5 LEASE DESIGNATION AND SERIAL NO

Jicarilla Contract #9 Tract:10

## **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

| WELL                              | CON          | /PLETIO                  | N OR   | RECOI         | MPLE        | ETION          | REPORT                   | AND LOG       | *  | 6 IF INDIAN, ALLOTTE JICARILLA          |                          |               |
|-----------------------------------|--------------|--------------------------|--|---------------|-------------|----------------|--------------------------|---------------|--|---|--------------------------|---------------|
| 1a. TYPE OF WOR                   | ĸ            | OIL<br>WEL               | L X  | GAS<br>WELL   | x           | DRY            | Other                    |               |  | 7 UNIT AGREEMENT N                      | IAME                     |               |
| 1b. TYPE OF WEL                   | I.           |                          |  |               |             |                |                          |               |  |   |                          |               |
| NEW WELL                          | WORK<br>OVER |                          | v[]  | PLUG<br>BACK  |             | DIFF<br>RESVR. | Other                    | Pay Ad        | d  | 8 FARM OR LEASE NA                      | ME, WELL NO              |               |
| 2 NAME OF OPERAT                  |              |                          |  |               |             |                |                          |               |  | to a siller Alexander                   | - 40                     |               |
| E. D                              |              |                          |  |               |             | Ţ              | RECE                     |               | P  | Jicarilla Apache                        | 3 A3                     | ,             |
| Elm Ridge Ex<br>3 ADDRESS AND TEL |              |                          |  |               |             | 냂              |                          |               |  | 30-039-05892                            |                          |               |
| D- D 450 5                        | N P          | -1-1 NINA 074            | 40   |               |             |                |                          | IN 0044       |  | 10 FIELD AND POOL OF                    | R WILDCAT                |               |
| Po Box 156 E<br>4 LOCATION OF W   |              |                          |  | cordance with | any State   | requirements   | <del>, ,</del> OCT 2     | 7 2011        |  | Gallup, West Li                         | indrith                  |               |
| At Surface                        |              |                          |  |               |             |                | <sup>50</sup> äFiWlagtor | Time Offi     | _  | 11 SEC, T, R, M, OR B                   |                          | •             |
| A                                 |              | 1                        | -  |               | 000 1       | Bu             | reau of Lan              | d Manage      | men.<br>Je                                   | OR AREA                                 | DOCK THE BOX 151         |               |
| At top prod Interval i            | еропеа ве    | aow                      |  |               |             |                |                          |               |  |   |                          |               |
| At total depth                    |              |                          |  |               |             |                |                          |               |  | "N"Sec.23-T25                           |                          |               |
|                                   |              |                          |  | 14 PERMIT     | NO          |                | DATE ISSUED              |               |  | 12 COUNTY OR PARISH                     | i i                      |               |
|                                   |              |                          |  | <u> </u>      |             |                |                          |               |  | Rio Arrıba                              | NM                       |               |
| 9-29-55                           |              | t d. reached<br>11-10-55 | 17 D   | ATE COMPL     | (Ready to p | rod)           | 18 ELEVATIONS (I         |               | rc)•<br><i>КВ</i>                            |   | 19 ELEV CASINGHEAT       |               |
| 20 TOTAL DEPTH, MI                | D & TVD      | 21 PLUG BA               | CK TD, M   | D & TVD       | 22 1        | F MULTIPLE     | COMPL,                   | 23 INTERVALS  | RO   | TARY TOOLS                              | CABLE TOOLS              | •             |
| 7505' MD                          |              | TVD 7348'                | MD   |               | TVD         | HOW MANY*      | ı                        | DRILLED BY    | $ _{X}$                                      |   |                          |               |
| 24 PRODUCING INTE                 | RVAL(S), (   | <del></del>              |  | BOTTOM, NA    |             | ND TVD)*       |                          | <u> </u>      |  |   | 25 WAS DIRECTIONAL       | •<br>•        |
|                                   | * "          |                          |  |               |             | ,              |                          |               |  |   | SURVEY MADE 3            | 1 11          |
| 6301'-6493'                       |              |                          |  |               |             |                |                          |               |  |   | OIL CONS.                | OIV.          |
| 26 TYPE ELECTRIC A                | ND OTHE      |                          | al Den:  | sity, high    | Resol       | ution Inc      | duction Log, (           | CBL LOG       |  |   | 27 WAS WELL CORED        |               |
| 23                                |              |                          |  | CAS           | ING REC     | ORD (Repo      | rt all strings set in w  | ell)          |  |   |                          | _             |
| CASING SIZE                       | GRADE        | WEIGH                    | r, lb/ft   | DEPT          | TH SET (MI  | D)             | HOLE SIZE                | TOP OF CE     | MENT, CE                                     | MENTING RECORD                          | AMOUNT PULLED            | _             |
| 8 5/8" .                          | 155          | 3:                       | 2#   |               | 3027'       |                | 12-1/4"                  | 250           | sks to                                       | surface                                 |                          | _             |
| 5 1/2" 、                          | 155          | 1                        | 7#   | 7             | 7505'       |                | 7 7/8"                   | 720           | sks to                                       | surface                                 |                          | _             |
| 13 3/8                            | 3"           | 3(                       | 5#   | ļ             | 217'        |                | 17" 4                    |               | 250 s  | sks                                     |                          | <b>-</b>      |
|                                   |              |                          | PD BECK  | ) DD          |             |                |                          |               |  | TUBING RECORD                           |                          | -             |
| SIZE                              |              | TOP (MD)                 | ER RECO  | OM (MD)       | SACKS       | CEMENT*        | SCREEN (MD)              | 30<br>SIZE    |  | DEPTH SET (MD)                          | 1                        | -             |
|                                   |              | TOT (NID)                | 1 2011   | 014 (1425)    | Bricks      | CZIMZIVI       | BCICELIV (IVIE)          | 2 3/8"        |  | 6523'                                   | PACKER SET (MD)          | -             |
|                                   |              |                          | <del>                                     </del> |               |             |                |                          | 1 0/0         | -  |   |                          | -             |
| , BEREOR ATTON D                  | ecopp a      |                          | <u> </u>   |               |             |                | 22                       | ACID, SHOT, F | RACTUI                                       | RE, CEMENT SQUEEZ                       | ZE, ETC.                 | •             |
| 1. PERFORATION RI<br><u>IN</u> T  | (ERVAI       |                          |  | IZE           | NUI         | MBER           | DEPTH INT                | ERVAL (MD)    | Λ  | MOUNT AND KIND OF                       | MATERIAL USED            | •             |
| 630                               | 1'-649       | -<br>3'                  |  | 46            | 1           | 52             | 6301'-                   | 6493'         | 500 Gai                                      | lons of 7 1/2% MCA a                    | acıd with Clay stabılıze | <b>-</b><br>∂ |
|                                   |              |                          |  |               |             |                |                          |               | HAI 40                                       | 4,FE-1A.Musal dble in                   | nhbtr, 756 MSCF N2.      | •             |
|                                   |              |                          |  |               |             |                | ·                        |               | 9639 Ga                                      | alls of 17 CP Delta w/l                 | BBC frac fluid,25000g    | -<br>ļi       |
|                                   |              |                          |  |               |             |                |                          |               |  |   | s of 20/40 CRC sand.     | -             |
| 3.*                               |              |                          |  |               |             | P              | RODUCTION                |               |  |   |                          | -             |
| DATE FIRST PR                     | ODUCT        | ION PRODU                | CTION N  | METHOD (      | Flowing     | , gas lift, p  | umping-size and          | type of pump  | )  |   | US (Producing or sh      |               |
| DATE OF TEST                      | т            | HOURS TES                | redena   | ME CIAE       | PROD'       | N FOL C        | DIL-BBLS.                | GASMCF.       | -  | Not produ                               | GAS-OIL RATIO            | _             |
| ALE OF LEST                       |              | HOURS IES                | ЕЦСН   | KE SIZE       | TEST I      |                | JIL—BBLS.                | GAS-MCF.      | 1  |   |                          |               |
| LOW. TUBING                       | DDFCC        | CACING DDI               | 202041   | CHIL A TEN    |             | <b>→</b>       | CAC MC                   | F             | SVAT   | 4 4 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | AVITY-API (CORR          | ECO           |
| LOW. TUBING                       | LKESS        | CASENG PRI               |  | OUR RAT       | OIL-E       | DDL.           | GAS-MC                   | r.            | WAI  | ER-BBL. OIL GR                          | •                        |               |
| 4. DISPOSITION                    | OF GA        | S (Sold, used t          |  | <del></del>   |             |                |                          |               | <u>.                                    </u> | TEST WITNESSE                           | OCT 27 201               | 1             |
|                                   |              |                          |  | , <b>-</b> ,  |             |                |                          | ·             |  |   | GROWFIELDA               | FFIC          |
| 5. LIST OF ATT                    | ГАСНМ        | ENTS                     |  |               |             |                |                          |               |  |   | 5^-                      |               |
|                                   |              |                          | , ,,,,-  |               |             | <b>.</b>       | <del></del>              |               |  |   |                          | -             |
| 6 I hereby certify tha            | the foreg    | oing and attached        | information                                      | is complete a | and correct | NWO            | difidinali available     | records       | والعامة                                      |   | 0/7/2011                 |               |
| SIGNED                            | 7 462        | mide                     | VVO  | <u> ۲۲</u>    |             | TITLE          | - Admin                  | istrative Spe | cialist                                      | DAT                                     | е <u>9/7/2011</u>        | _             |

37. SUMMARY OF POROUS ZONES: (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 38. GEOLOGIC MARKERS recoveries); **FORMATION** TOP **BOTTOM** DESCRIPTION, CONTENTS, ETC. TOP Kirtland Formation 2150 NAME TRUE MEAS. DEPTH Pictured Cliffs Formation 2537 VERT. DEPTH Chacra Mesa Member 3413 4220 Cliff House Formation Point Lookout Formation 4740 4935 Mancos Formation Gallup Formation 5918 Greenhoin Member of the Mancos Formation 6700 6905 Dakota Formation Morrison Formation 7100