| • | 63 12 14 15 16 | D | | | | | | | | |
|----------------|---|---|----------------------|-------------------------|--------------------------|------------------------------|-----------------------------|-------------|------------------------------------|--|
| - | UNITED STATES | | | | | | FORM APPROVED | | | |
| 1 | D' An | DEPARTMENT OF | | NOB | | | OMR | lo. 1004-01 | 36 | |
| | m 3160-3 | BEPARTIVENT OF | | | | | | | | |
| CA | gust 1999) JUN 2006 | BUREAU OF LAND | MANAGEN | IENI 2000 | 1111 00 0 | 00.400 | | ovember 30 | | |
| 6.7 | APPLICATION FOR PERMIT TO DRILL OR REENTER | | | | | | d Designation a 7-078863 | ing Serial | No. | |
| Š. | | · ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | | 0.7 | | E 6. If Ind | ian, Allottee or | Tribe Nam | e | |
| 1 | 1a. Type of Work | DRILL | REENTER | G : | O FARMING | 7. If Un | it or CA, Agree | ment, Nan | ne and No. | |
| | 1b. Type of Well | Oil Well Gas Well | Other Sin | gle Zone Mul | tiple Zone | | e Name and W | | | |
| _ | 2. Name of Operator | | N/ô | /I OGRID # 14185 | 32 | | Well No. | | 2495 | |
| | M&G Drilling C | | | | 12 | | d and Pool, or | Explorator | у | |
| | | Mike Pippin LLC | | Phone Number | | RS | sin Fruitla | na Coa | 31 | |
| | 3104 N. Sulliva | an, Farmington, NM 8740 | 1 (5 | 05) 327-4573 | | 11. Sec | c., T., R., M., or | Blk. and S | Survey or Area | |
| | Location of Well (F At surface: At proposed prod. Zo | Footage, Sec, T. R., M, or Survey Des Unit A, 1295' FNL, 114 ne: Same | | | | A Se | ec 32, T-28 | 3-N, R- | 11-W | |
| _ | | and direction from nearest town or po | ost office* | | | 12. Co | unty or Parish, | | 13. State | |
| | 10 Miles South of | | | | | | an Juan | - 1 | New Mexico | |
| _ | | | | 40 No -54 | | | acing Unit dedic | atad to #L | | |
| | 15. Distance from pr | - | | 16. No of Acres i | n lease | 17. Sp | acing Unit deal | cated to th | is weii | |
| / | location to nearest | 1145' | | | | | | - 10 | | |
| | propety or lease line, | ft. | | 2560 | | 32 | 20 Acres E | =/2 | | |
| | (Also to nearest drig. | Unit line, if any) | | | | | | | | |
| _ | 18. Distance from pr | oposed* | | 19. Proposed De | pth | 20. BLM/BIA Bond No. on file | | | | |
| | location to nearest we | 4701 | | 1900' | | | | | | |
| | | | | | | į. | | | | |
| _ | 21. Elevation (Show | whether DF, KDB, RT, GL, etc.) | | 22. Approximate | date work will start* | 23. | Estimated dura | ation | | |
| | 6004' | ,, | | 1 | ber 26, 2004 | - 1 | 30 days | 3 | | |
| | | | 24. <i>F</i> | Attachments | | | | | | |
| _ | The following. | completed in accordance with the rec | | | er No. 1. shall be atta | ched to this | s form: | | | |
| | • | ertified by a registered surveyor. | | | Bond to cover the op | | | an existir | ng bond on file (see | |
| | 2. A Drilling P | • - | | | Item 20 above). | | • | | | |
| | | Use Plan (if the location is on Nationa | l Forest System La | ands.the 5. | Operator certification | ١. | | | | |
| | | all be filed with the appropriate Forest | • | | Such other site spec | | tion and/or plan | s as may | be required by the | |
| | | | | | authorized officer | | | • | | |
| == | Size of Hole | Grade, Size of Casing | T Weigh | nt per Foot | Setting Depth | | Quantit | y of Ceme | nt . | |
| - | 12-1/4" | 8-5/8" LS | | 3# | 200' | | | | - 100% Excess | |
| - | 6-1/4" | 4-1/2" K-55 | | D.5# | 1900' | | | | - 45% Excess | |
| _ | | | | | | | | | | |
| | The on-site inspe Archy is by DCA. | ection was on 6/31/04 by Brice | Barlan | | | | | | | |
| 9-1 | EA & TE are by I | Permits West. | SEE ATTA | ACHED APD INFO | PRMATION | Lo | | | 7 Min, 21 Sec N 1 Min, 20 Sec W | |
| _ | 25. Signature | | | Na | me(Printed/Typed) | | | Date | | |
| | Mitologica | | | | Mike Pippin | | | July 2 | 9, 2004 | |
| - | Title Petro | leum Engineer | | | | | | July 2 | , - | |
| - | Approved by (Signate | ure) | | Na | me(Printed/Typed) | | | Date | 1 | |
| - | \mathcal{A} | un brato | | | | | | 2/13 | 106 | |
| | Title \ | elme AFM | | Off | fice | | | | | |
| - | Application approval | does not warrant or certify the applica | ant holds legal or e | quitable title to those | rights in the subject k | ase which | would entitle th | e applican | t to | |
| | conduct operations | () | | | | | | | | |
| _ | Conditions of approv | al, if any, are attached. | | | | | | | | |
| = | Title 18 U.S.C. Section | on 1001 and Title 43 U.S.C. Section 1 | 212, make it a crin | ne for any person kno | wlingly and willfully to | make to a | ny department | or agency | of the | |
| _ | United States any fa | ilse, ficticious, or fraudulent statement | s or representation | ns as to any matter wi | thin its jurisdiction. | | | | | |
| | "(Instructions on reve | erse) | | | | | | | | |
| | | | A | | | | | | | |

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Certificate Number

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410

2040 South Pacheco

| DISTRICT IV 2040 South Pachs | eco, Santa | Fe, NM 87505 | ; | | Santa Fe, I | M 6/505 | | ☐ A | MEND | ED REPO | ORT |
|---------------------------------|---------------------------------------|------------------|---------------|----------------|-----------------------------|-----------------------------|---|--------------------------------------|--------------|-----------------|-----------|
| | | W) | ELL LC | CATION | N AND AC | CREAGE DEDI | CATION P | LAT | | | |
| 20-00 | Number | 22490 | <u> </u> | Pool Code / 62 | 9 | BASIN FI | *Pool Nam | D COL | 9L | | |
| ⁴ Property C | ode | XX.1.1× | | 101 | *Propert | | 14/10/10 | | • Well | Number | \dashv |
| 1 1 | | | KRAUS | Ē | | | | 22S | | | |
| OGRID No |). | | | | *Operato | r Name | | | ° Ki | evation | \dashv |
| 14/85 | 52 | | | М & (| G DRILLING C | COMPANY INC. | | | • | 6004' | |
| | | | | | 10 Surface | e Location | | | | | |
| UL or lot no. | Section 32 | Township 28-N | Range 11—W | Lot Idm | Feet from the 1295 | North/South line NORTH | Feet from the 1145 | East/West | t line | SAN JUAN | |
| | · · · · · · · · · · · · · · · · · · · | | 11 Botte | om Hole | Location | If Different Fr | om Surface | | | | |
| UL or lot no. | Section | Township | Range | Lot kin | Feet from the | North/South line | Feet from the | East/Wes | t line | Cou | nty |
| ³⁸ Dedicated Acre | | | 20 Joint or | Infill | ¹⁴ Consolidation | Code | #Order No. | 1 | | | \exists |
| 320 | E | 12 | LY | | | | | | | | |
| NO ALLOW | ABLE V | | | | | TON UNTIL ALL SEEN APPROVED | | | 7 COI | 1SOLIDAT | ED |
| SEC. CORNER | | | | 5070.0 | | SEC. COF | ONICO | | | | |
| FD. 2 1/2" BC |). | 26 | 89°55'02″E | 5276.6 | (M) | FD. 2 1/2" | BC. 17 | PERATOR | CER | TIFICATION | ON |
| 1913 U.S.G.L.O | ٠. | | | | | 1. 1 | G.L.O. I hereby | pertify that the is | Yormatio | n contained her | rein. |
| | | | | | | 295, | | nd complete to the | s best of | my knowledge | end |
| | | LAT. = | 36'37'21 | "N. (1 | NAD 83) | 2 | belief. | ^ | | | |
| | | LONG. =1 | 08'01'20 | " W. (I | NAD 83) | | | 12-1-A | 7 , | | |
| | | | | 1 | | 1145' | Signatu | eko V | yop | in_ | |
| | | | · | 1 | | _ <u> </u> | | IKE F | SIPK | 2/1/ | |
| | | | | | | ₩ KRAUSE #71 | Printed | Name | | ,,, | |
| | | | | 1 | | | O AGO | ENT-P | ETR | . ENGA | 2. |
| | | | | | | | 0) Title Date | 7-29- | <i>(</i>) (| 4 | |
| | | | | į | | | Date Date | 1 01- | | Z | _ |
| | | | | 32 — | | | | | | | |
| | | | | 1 | | | * 18 S | URVEYOR | CER | TIFICATI | ON |
| | | | | 1 | | | 0 🛭 | rtify that the wel | | | - |
| | | · | | | | | 7 | from field notes r my supervision | • | - | - |
| | | | | ł | | | and correct | the batter | Telled. | , me same 13 | 27.00 |
| | | | | | | | | W WEY | * | b 4 | |
| | | | · | 1 | | | Defo cd | A MO | 3 | T. | |
| | | | | | | | | 1383 | | Shrveyor: | |
| | | | | 1 | SE | CALC'D | NEW YEAR | (- X S | | */ | |
| | | | | : | CORNE | POSITION | | 877 | | / | |
| | | | | | | | \ | POFESSION TABLE |)\`` 51 | | |

| Submit 3 Copies To Appropriate Distri | ct State of | f New Me | xico | | Form C-103 |
|--|---|-----------------|------------------------|-------------------------|------------------------------------|
| Office District I | Energy, Minerals | s and Natu | ral Resources | | March 4, 2004 |
| 1625 N. French Dr., Hobbs, NM 8824 | 0 | | | WELL API NO. | 45-32495 |
| District II 1301 W. Grand Ave., Artesia, NM 882 | OIL CONSER | VATION | DIVISION | 5 Indicate Type | of Lease Federal |
| District III | 1220 Sout | th St. Fran | ncis Dr. | STATE | |
| 1000 Rio Brazos Rd., Aztec, NM 8741 District IV | Santa I | Fe, NM 87 | 7505 | 6. State Oil & Ga | |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | | | | Federal: NM-078 | 1 |
| | NOTICES AND REPORTS (| | | | r Unit Agreement Name |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESERVOIR. USE "AI | | | | KRAUSE | |
| PROPOSALS.) | TECATION FOR TERMIT (FOR | uvi C-IVI) i Oi | COCAI | 8. Well Number | |
| 1. Type of Well: | . Arth | | | #22s | |
| | 1 🔀 Other | | | o ocnin v | 141052 |
| Name of OperatorM & G DRILLING COMPAN | JY | | | 9. OGRID Numb | per 141852 |
| 3. Address of Operator c/o A | | | ····· | 10. Pool name or | Wildcat |
| 3104 N. Sullivan, Farmingtor | | 3 | | Basin Fruitland C | Coal |
| 4. Well Location | , | | | | |
| Unit Letter A: | 1295 feet from the Nort | h line an | d 1145 feet from | n theEast_line | |
| | m 1: 007 | | 4117 327 673.6 | | |
| Section 32 | Township 28N | | | San Juan County | |
| | 6004' GL | wneiner DK | , KKB, KI, GK, eic. | | |
| Pit or Below-grade Tank Application | COLUMN SOMETIME | ures, a form (| -144 must be attached) | | |
| Pit Location: UL A Sect 32 Twp | 28N Rng 11W Pit type: Drill | lingDepth t | o Groundwater >100'. | Distance from nearest | fresh water well >1000'. |
| Distance from nearest surface water | 200'-1000'. Below-grade Tank L | ocation UL_ | SectTwp | Rng; | |
| feet from the line | and feet from the | line | | | |
| NOTICE O PERFORM REMEDIAL WOR TEMPORARILY ABANDON | ck Appropriate Box to I FINTENTION TO: K PLUG AND ABANDO CHANGE PLANS | | | SEQUENT RE | |
| PULL OR ALTER CASING | MULTIPLE COMPLETION | | CASING TEST A | ND 🗆 | |
| OTHER: Drilling Pit | Registration | Z | OTHER: | | |
| | completed operations. (Clear ed work). SEE RULE 1103. | | | | |
| We intend to drill a new FRTC in Aztec, NM. | well. The drilling pit will b | e built and l | ined according to o | ur general pit guide | clines on file at the NMOCD |
| When this drilling pit is closed | I, it will be closed as per our | general pit | closing guidelines | on file at the NMOO | CD. |
| I hereby certify that the inform | ation above is true and comp | olete to the l | est of my knowledg | ge and belief. I furt | her certify that any pit or below- |
| grade tank has been/will be construct | ed of closed according to NMOCI | D guidelines 🗘 | 🛴 a general permit 🔲 o | r an (attached) alterna | tive OCD-approved plan 🔲. |
| SIGNATURE MATE | Lippin T | TTLE Age | ent – Petroleum Eng | ineer DATE J | uly 29, 2004 |
| Type or print name Mike | Pippin E-mail addres | ss: mpippii | n@ddbroadband.ne | t Telephone No. : | 505-327-4573 |
| (This space for State use) | e A | | | | |
| APPPROVED BY Conditions of approval, if any: | 11/1/1/1/ | TITLE & | | ISPECION DISI. A. | DATEJUN 1 5 2006 |

But the succeeding the second section of the second second

M & G DRILLING COMPANY INC. 1145 FEL KRAUSE #22S, 1295 FNL SECTION 32, T28N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M. **GROUND ELEVATION: 6004,** DATE: May 17, 2004 CONSTRUCTION ZONE c 6 В F 2.4 5 C 1.5 C 3.2 33 1 ④ ţ, C 1.4 Wellhead to Back C 3.8 LAYDOWN S 34°26' W C 0.76 100 Wellhead to Front REAR 100' E KRAUSE Ŝ ŝ NO NEW ACCESS C' 3 DC 2.8 C 0.4 F 9.9 2 $(250' \times 300') = 1.72 \text{ ACRES}$ 150' X 200' NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERCROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. ELEV. A-A C/L 6020 6010 6000 5990 C/L ELEV. B-B' 6020 6010 6000 5990 ELEV. C-C' C/L 6020 Surveying P. O. Box 150 6010 Box 1 (506) NEW N 6000 5990 NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

M & G DRILLING COMPANY KRAUSE #22s FRTC

1295' FNL, 1145' FEL Unit A Sec. 32 T28N R11W San Juan County, NM

Drilling Program

1. ESTIMATED FORMATION TOPS (KB)

| Formation Name | <u>Depth</u> |
|-----------------|--------------|
| Ojo Alamo | 684' |
| Kirtland | 777' |
| Fruitland | 1559' |
| Pictured Cliffs | 1824' |
| TD (4-1/2") | 1900' |

2. NOTABLE ZONES

| Gas or Oil Zones | Water Zones | Coal Zone |
|------------------|-------------|-----------|
| Fruitland | | Fruitland |
| Pictured Cliffs | Ojo Alamo | |
| | Kirtland | |

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the engineer's recommendations.

3. PRESSURE CONTROL

Maximum expected pressure is ~400 psi. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 7-1/16" 3,000 psi annular is on PAGE #5.

BOP equipment and all accessories will meet or exceed BLM requirements in 43 CFR Part 3160 for a 3000 psi system. A 3000 psi annular BOP will be used. Accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill, kill, and choke manifold lines will be 2". Accessories will include an upper Kelly cock with a handle, stabbing valve to fit drill pipe on floor at all times, string float at bit, 3000 psi choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge. BOPs will be tested every 24 hours. Tests will be recorded on IADC log.

M & G DRILLING COMPANY KRAUSE #22s FRTC

1295' FNL, 1145' FEL Unit A Sec. 32 T28N R11W San Juan County, NM

4. CASING & CEMENT

| Hole Size | O.D. Weigh | t (lb/ft) | <u>Grade</u> | <u>Age</u> | Connection | GL Setting Depth |
|-----------|------------|-----------|--------------|------------|------------|------------------|
| 12-1/4" | 8-5/8" | 23# | LS | New | ST&C | 200' |
| 6-1/4" | 4-1/2" | 10.5# | K-55 | New | ST&C | 1900' |

Surface Casing will be cemented to the surface with ~165 cu. ft. (~140 sx) Class "B" cmt or equivalent (1.18 ft3/sx yield, 15.6 ppg, & 5.2 gps) with 2% CaCl2 and $\frac{1}{4}$ /sx celloflake. Volume based on 100% excess. We plan to run a minimum of at least 3 centralizers. A wooden wiper plug will be displaced to within 20' of the shoe. WOC = 12 hours. Surface casing will be tested to 500 psi for 15 minutes.

Production Casing will be cemented to surface with a single stage. Total cement = ~283 cu. ft.(~148sx). Volumes are calculated at 45% excess in the lead cmt. If cement does not circulate to surface, then a temperature survey or CBL will be run to determine the actual cement top as needed. WOC = 12 hours. Casing will be tested to 3800 psi for 15 minutes during completion operations.

Lead cement will be ~227 cu. ft. (~108 sx) Class "B" cmt or equivalent w/2% SM, ½#/sx cello flake, 3#/sx gilsonite mixed at 11.9 gps, 12.5 ppg for a yield of 2.09 cu. ft. per sx.

Tail cement will be ~56 cu. ft. (~40 sx) Class "B" cmt or equivalent w/1% gel, 2% Cacl2, ¼#/sx cello flake, 3#/sx gilsonite mixed at 6.8 gps, 14.5 ppg for a yield of 1.4 cu. ft. per sx.

Cementing equipment will include a guide shoe, and autofill float collar will be run 20' off bottom. We plan on running at least 10 centralizers.

5. <u>MUD PROGRAM</u>

| <u>Depth</u> | Type | Wt./ppg. | <u>Vis.</u> | Fluid Loss | PH |
|--------------|----------------------|----------|-------------|------------|-----|
| 0'-200' | FW gel/lime spud mud | 8.4-8.7 | 30-50 | NC | 10 |
| 200'-1900' | FW gel/Polymer | 8.3-8.6 | 30-35 | <20cc's | 9.5 |

Lost circulation and absorption material will be on location.

6. <u>CORING, TESTING, & LOGGING</u>

No cores or drill stem tests are planned. No open hole logs will run on this well. We plan to run a cased hole GR-neutron log during completion operations.

M & G DRILLING COMPANY KRAUSE #22s FRTC

1295' FNL, 1145' FEL Unit A Sec. 32 T28N R11W San Juan County, NM

7. **DOWN HOLE CONDITIONS**

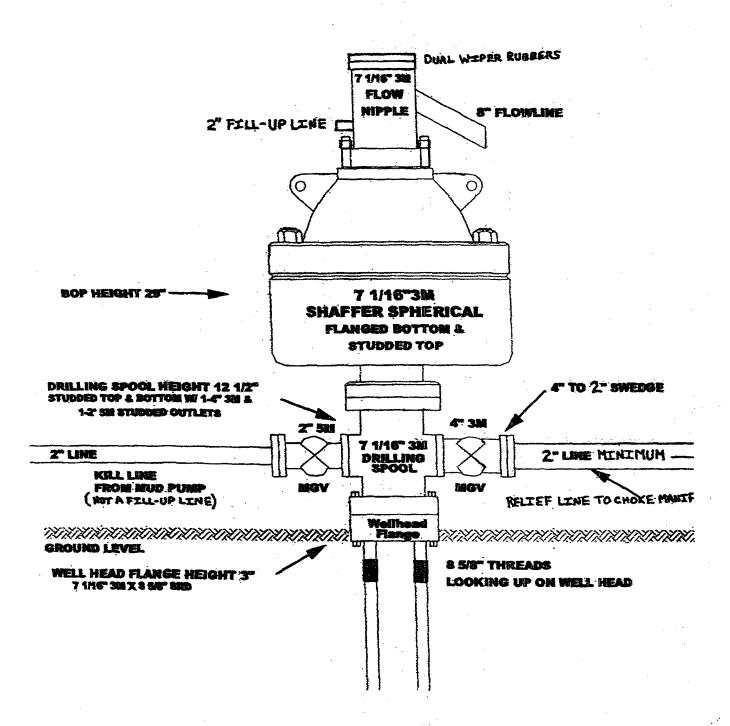
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ~400 psi.

8. OTHER INFORMATION

The anticipated spud date is November 26, 2004. It is expected it will take ~7 days to drill and ~7 days to complete the well. Completion will start about one month after the spud and will include hydraulic fracturing.

Drilling Rig

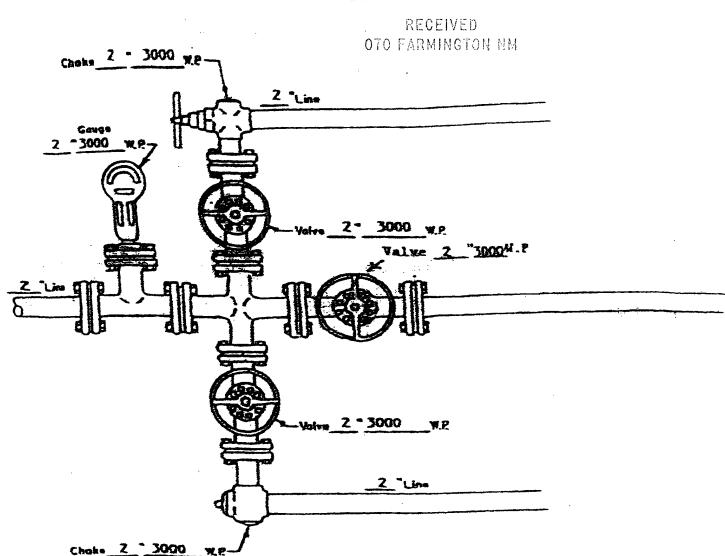
3000 psi BOP System



PAGE #5

M & G DRILLING COMPANY SAN JUAN COUNTY, NM

2004 AUG 5 PM 2 33



| MANIFOLD | Œ | Manuel |
|-----------|---|-----------|
| 3000 #W.P | | Hydroulic |

8-5/8" 23# LS X-42 CASING 0.250" WALL CALLAPSE = 1016 PSI INTERNAL YIELD = 1040 PSI Form 3160-5 (November 1994)

. UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996

5. Lease Serial No.

NMSF-078863

6. If Indian, Allottee or Tribe Name

| apalicolica well. | OSC / OIIII 5 100-5 (AI L |) for sach proposals. | <u> </u> | | | |
|--|--|---|--|--|--|--|
| SUBMIT IN TRIPL | 7. If Unit or CA/Agreement, Name and/or No. SPECELY FD 070 FARMING FAR | | | | | |
| 1. Type of Well | 10000円度,6月 259 | | | | | |
| Oil Well X Gas Well | Oil Well X Gas Well Other | | | | | |
| 2. Name of Operator | . Name of Operator | | | | | |
| M & G Drilling Company Inc | . c/o Mike Pippin | LLC (Agent) | 9. API Well No. | | | |
| 3a. Address | | 3b. Phone No. (include area code) | 3004532495 | | | |
| c/o:Pippin,3104 N.Sullivan,F | armington.NM 87401 | 505-327-4573 | 10. Field and Pool, or Exploratory Area | | | |
| 4. Location of Well (Footage, Sec., 7 | | | Basin Fruitland Coal | | | |
| 1295' FNL 1145' FEL (A) Se | | | 11. County or Parish, State | | | |
| | | | San Juan County, New Mexico | | | |
| 12. CHECK APPROPRIATE BOX | K(ES) TO INDICATE NA | TURE OF NOTICE, REPORT, O | R OTHER DATA | | | |
| TYPE OF SUBMISSION | TYPE OF ACTION | | <i>`</i> | | | |
| X Notice of Intent Subsequent Report | Acidize Alter Casing Casing Repair | Fracture Treat Recla | ction (Start/Resume) Water Shut-Off mation Well Integrity mplete Other | | | |
| Final Abandonment Notice | Change Plans Convert to Injection | | orarily Abandon r Disposal | | | |
| We plan to test the BOF by Mike Wade with the Dorest Surface N M OCD R | 2 & surface casing to 5 | 500 psi for 30 min during dri | OIL CLUS DIV. | | | |
| 14. I hereby certify that the foregoing | is true and parmet | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
| Name (Printed/Typed) | is a de and contect | Title | 115 M5 MC | | | |
| • • • • | Pippin | | Petr. Engr. (Agent) | | | |
| Signature M.A. | January 19, 2005 | | | | | |
| | / THIS SP | ACE FOR FEDERAL OR STATE U | SE | | | |
| Approved by | Laylada | Title Char A | M (2) 13/06 | | | |
| Conditions of approval if any, are attached certify that the applicant holds legal or equivicity which would entitle the applicant to condition. | uitable title to those rights in the act operations thereon. | ot warrant or Office subject lease | ment or agency of the United States any false, fictitious or | | | |
| THUE TO U.S.C. SECTION TOUT, Makes I | a cantine tot any person kitown | igny and winterny to make to any debat. | ment of affected of oth Comment of the mine of the comment of | | | |

fraudulent statements or representations as to any matter within its jurisdiction.