Form 3160-3 (April 2004)

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | Lease Serial No. MM-032096-B | |
|----|----------------------------------|--|
| 6. | If Indian, Allotee or Tribe Name | |
| | | |

| Ia. Type of work: XX DRILL REENT | ED - | | 7 If Unit or CA Agre | eement, Name and No. | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|
| Ia. Type of work: XX DRILL REENT | LN | | 8. Lease Name and | Well No. 3699 | | | | | | |
| 1b. Type of Weil: X Oil Well Gas Well Other | X Single Zone Multi | ple Zone | LOCKHART "B | | | | | | | |
| 2 Name of Operator | 1000 | 172 | 9. API Well No. | 7000 | | | | | | |
| APACHE CORPORATION (LANA WILLIAM APACHE CORPORATION (LANA WILLIAM APACHE LANA WILLIAM | AMS 918-491-4980) < (7) | <u> </u> | | -38759 Exploratory | | | | | | |
| 3a. Address TWO WARREN PLACE SUITE 1500 6120 SOUTH YALE, TULSA, OKLAHOMA 741 | 36-4224 (PH-918-491- | 4980) | 10. Field and Pool, or EUNIGE-BLINES DRINKARD-NORT | <u>PH</u> | | | | | | |
| 4. Location of Well Report location clearly and in accordance with a | | | 11. Sec., T. R. M. or B | | | | | | | |
| At surface 2310' FSL & 2310' FEL SECTI | ION 24 T21S-R37E LEA | co. | SECTION 24 | T21S-R37E | | | | | | |
| At proposed prod. zone SAME Capitan Control | lled Water Basin Unit 1 | | 12. County or Parish | 13. State | | | | | | |
| 14. Distance in miles and direction from nearest town or pass office. Approximately 4 miles Northeast of E | Distance in miles and direction from nearest town or post office. Approximately 4 miles Northeast of Eunice New Mexico | | | | | | | | | |
| 15. Distance from proposed* | 16. No. of acres in lease | 17. Spacia | ng Unit dedicated to this | well | | | | | | |
| location to nearest property or lease line, ft. 330 | 1920 | | 40 | | | | | | | |
| (Also to nearest drig, unit line, if any) 18. Distance from proposed location* | 19. Proposed Depth | 20. BLW | BIA Bond No. on file | | | | | | | |
| to nearest well, drilling, completed, applied for, on this lease, fil. | 7150' | BLM- | CO-1463 NATIO | N WIDE | | | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | r.* | 23. Estimated duration | on . | | | | | | | |
| 3438' GL. | WHEN APPROVED | | 20 | | | | | | | |
| | 24. Attachments | | | | | | | | | |
| The following, completed in accordance with the requirements of Onsho | ore Oil and Gas Order No.1, shall be: | nached ಹ ti | nis form: | | | | | | | |
| Well plat certified by a registered surveyor. | | | ons unless covered by an | n existing bond on file (see | | | | | | |
| 2. A Drilling Plan. | Item 20 above). Lands, the 5. Operator certifi | | | | | | | | | |
| A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site | specific inf | formation and/or plans a | s may be required by the | | | | | | |
| | authorized offi Name (Printed Typed) | | | Date | | | | | | |
| 25 Signature La of James | | | | 11/30/07 | | | | | | |
| Title | | | | separate, but is approved in | | | | | | |
| Approved by (Signature) /s/ James Stovall | Name (Printed Typed) /s/ James | Stoval | | Da界EB 12 2008 Banhagen | | | | | | |
| | | | LD OFFICE | oval ot pro | | | | | | |
| FILLU WANAGLI | | | | Appoduce | | | | | | |
| Application approval does not warrant or certify that the applicant hol | ds legalorequitable title to those rig | nts in the su | bjectlesse which would: | entitle the applicant of toffice Down | | | | | | |
| conduct operations thereon. Conditions of approval, if any, are attached. | | | APPROVAL FOR | TIWO TEARS each | | | | | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations at | crimentogan person crowings add | willfully to a | make to any department (| and the state of t | | | | | | |
| *(Instructions on page 3) | • | | THE THOUTHE O | OUIDENIENTS PRES | | | | | | |
| SEE ATTACHÉD FOR | FEB 13 2008 | | | QUIREMENTS (2-1138) L STIPULATION (38) | | | | | | |
| | OBBS OCE |) | ATTACHED | L STIFULATION SOME | | | | | | |
| | | TO STATE OF THE ST | MIMOHED | , G | | | | | | |

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Certificate No. GARY EIDSON

RONALD J. EIDSON

12841

3239

Form C-102

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Pool Code API Number 06660 BLINEBRY OIL & GAS Property Name Well Number 36991 **LOCKHART B-24** OGRID No. Operator Name Elevation 873 APACHE CORPORATION 3438 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 24 2310 SOUTH 2310 J 21 - S37-E **EAST** LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 40 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 OPERATOR CERTIFICATION I hereby certify that the information herem is true and complete to the best of my knowledge and beinef, and that this organization either owns a working interest or unlessed numeral interest in the land including the proposed bottom bole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working micrest, or to a voluntary pooling agreement or a compulsory pooling order beretofore entered by the division. GEODETIC COORDINATES NAD 27 NME Y=534457.4 N X=875734.2 E LAT.=32.463441° N 11/30/07 **K**anica Joe T LONG. = 103.115139° W Printed Name LAT.=32*27'48.4" N LONG.=103°06'54.5" W SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me 2310' or under my supervision, and that the same is true and correct to the best of my belief. MN-032096-B TOBERE 16 Date Surveyed Signature & Seal of Professional Surveyor O *○*% 07.11.13

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

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1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| | vumber | | I | ool Code | | | | | | | | |
|---------------|------------------|---------------------|--|----------|---------------|---------|-----|-------------|---------------|--|--|--|
| 30-02 | 5- 38 | 3759 | 6024 | 0 | TUB | B OIL . | | | | | | |
| Property C | ode | | | | Property Name | | | Well Number | | | | |
| 3699 | ٠(| | | I | OCKHART E | 3-24 | | 1 | | | | |
| OGRID N | io. | Operator Name Eleva | | | | | ion | | | | | |
| 873 | | | | APAC | CHE CORPOR | RATION | | 343 | ³⁸ | | | |
| | Surface Location | | | | | | | | | | | |
| UL or lot No. | Section | Township | ship Range Lot Idn Feet from the North/South line Feet from the East/West line Cou | | | | | | | | | |
| J | 24 | 21-S | S 37-E 2310 SOUTH 2310 EAST | | | | | | | | | |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-----------------|----------|----------|-------------------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres | Joint or | Infill | Consolidation Cod | e Ord | er No. | | | | |
| 40 | | | | | | | | | |
| l | | | | | | | | | |

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

| GEODETIC COORDINATES NAD 27 NME Y=534457.4 N X=875734.2 E LAT.=32.463441 N LONG.=103.115139 W LAT.=32'27'48.4" N LONG.=103'06'54.5" W | OPERATOR CERTIFICATION I bereby certify that the information berem 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 bote location or bas a right to drill this well at this location pursuant to a contract with an owner of such numeral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date 11/30/07 Joe T. Janica Printed Name SURVEYOR CERTIFICATION I bereby certify that the well location shown on this plat |
|--|--|
| NM-032096-B | Date Surveyed ME Doss of Surveyor made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed ME Doss Signature & Seal of Professional Surveyor Certificate No. BARY Effson 12841 RONALD J. EIDSON 3239 |

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

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DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| API Number | Pool Code | Pool Name | |
|---------------|-----------|-------------|--|
| 30-025-38759 | 19190 | DRINKARD | |
| Property Code | Pro | Well Number | |
| 36991 | LOCKE | 1 | |
| OGRID No. | Орк | Elevation | |
| 873 | APACHE C | 3438' | |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| J | 24 | 21-S | 37E | | 2310 | SOUTH | 2310 | EAST | LEA |

Bottom Hole Location If Different From Surface

| UL or lot No. | | | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-----------------|---------------------|--|------------------------------|---------|---------------|------------------|---------------|----------------|----------|
| Dedicated Acres | res Joint or Infill | | Consolidation Code Order No. | | | 1 | | <u></u> | <u> </u> |
| 40 | | | | | | | | | |

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

| | OPERATOR CERTIFICATION |
|--|--|
| | I hereby cerufy that the information 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 thus well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. |
| GEODETIC COORDINATES NAD 27 NME | |
| Y=534457.4 N X=875734.2 E | Cost Janies |
| LAT.=32.463441° N LONG.=103.115139° W | Joe T. Janica Joe T. Janica Printed Name |
| LAT.=32*27'48.4" N LONG.=103*06'54.5" W | SURVEYOR CERTIFICATION |
| 2310' | I bereby 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. |
| NM-032096-В | COBER-1, 2007 |
| 5310, | Date Surveyed Signature & Seal of Professional Surveyor OT 12-1350 |
| | Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239 |

| SECTION 2 | P4, TOWNSHIP | 21 50 | OUTH, | RANGE | 37 | | N.M.P.M., |
|--------------------|---|------------------------|--|-------------|----------------|-------------|-----------|
| | | 6 | <u> </u> | | | | |
| | | 150° | NORTH | | | | |
| | | 0F1 343 | TOTT | | | | |
| 1 | | | | | _ | | моят |
| ,000, | 150' WEST | | T B-24 # | | 150' E | | 2, |
| 09 | <i>OFFSET</i> □ 3435.7' | ELEV. | ⊃ 3738.5' 463441° N 3.115139° | <i>I</i> |] OFFS 3441 | | ,009 |
| | | LAT.=32°2 LONG.=103 | 27'48.4" N 1°06'54.5" | | | | |
| | | | | | | | |
| 1 | | OFF | SOUTH FSET 39.4' | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| DIRECTIONS TO LOCA | ATION | | | | | | |
| JONES CITY ROAD, | CTION OF STATE HWY. #1 GO EAST JONES CITY RO. TURN RIGHT (SOUTH) AN TURN RIGHT | AD | 100 H H | 0 | ale:1"= | 100 100' | 200 Feet |
| (SOUTH-SOUTHWEST | T) AND GO APPROX. 0.3 TEPHENS #5 BATTERY. TH | | APA | | | | ORTION |
| 200,111011 10 7020 | 2137. | : | | LOCK | HART B- | 24 #1 WELL | _ |

PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117 LOCKHART B-24 #1 WELL
2310' FROM THE SOUTH LINE AND
2310 FEET FROM THE EAST LINE OF SECTION 24,
TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

| Survey Date: 1 | 0/1/07 | | Sheet | 1 | of | 1 | Sheets |
|-----------------|-----------|----|---------|------|----|-------|-----------|
| W.O. Number: 07 | 7.11.1380 | Dr | By: DSS | | Re | v 1: | N/A |
| Date: 10/9/07 | Disk: | | 0711 | 1350 | | Scale | e:1"=100" |

VICINITY MAP

| | · I | 7 | | | · · · | | | | | | F-5 | | | |
|---------|--------------------|--------|-------------------------------|------------|---------------|--------------|------------|--|-------------------|-----------------|-------------|--------|---------|----|
| | 20 | 21 | | 22 | 23 | R 37 E | R 38 E | 20 | 21 | 22 | 23 | R 38 E | R 39 E | 20 |
| | 29 .DDOX | 28 | | 27 HILL | 26 | 25 | 30 | 29 | 28 | 27 | 26 | 25 | 30 | 29 |
| | 32 | ST. 8 | 33 | 34 | =372 | 36 HILL | 31 | 32 T | 33 16 S | 34 | 35 | 36 | 31 | 32 |
| GULF () | ST. 1 | 75 | 90 20 CURR 36 | 1 | 1 | 1 | 5 HILL 699 | T . | 21 S | | ST. 18 | 6 | 5 | 4 |
| OI 8 | L Ç | EN | TE | R | , | 2 7 | 8 | 9 D | | 10 11 | 12 | 7 | 8 | 9 |
| | 16 ST. 17 | ST. 89 | 15 | 14 | 13 | CURL II | 3 17 | N TURNER Cy | 15 | 14 JONES CIT | 13 t | R 38 E | 17 | 16 |
| | 21 | | 22 | 23 | 24 | R36E R37E | 20 | # 3 EU | | | 24 | , 19 | 20 | 21 |
| | 28 | | 27 | 26 | OTE HILL | 25 ST. 8 | 29 | Haner ES | CONT E33 27 | INENTAL 26 | 81 LS | LOCKHA | RT B-24 | #1 |
| | 33 | | 34 | 35 | 36 | 31 | 32 TE) | (AS AVE 3 | 21 S | 34 - ST. 2 | | 31 S | T. 234 | 33 |
| | 4 | | 3 | 2 | 1 | 6 | 5 | T teston | 28 S | 2 | ARD 1 | 6 | 5 | 4 |
| | 9 | | 10 | 11 DELA | 12 WARE BA | 7 | 8 | S LE | ST. 207 | 12, 18 | DRINKARD 15 | 7 | 8 | 9 |
| | 16 | | 15 | 14 | £21 | 18 | 3 1 | 7 16 | 15 | 1. | 13 | 18 | 17 | 16 |
| | | | | | | | | | | 1 | | | | |

SCALE: 1" = 2 MILES

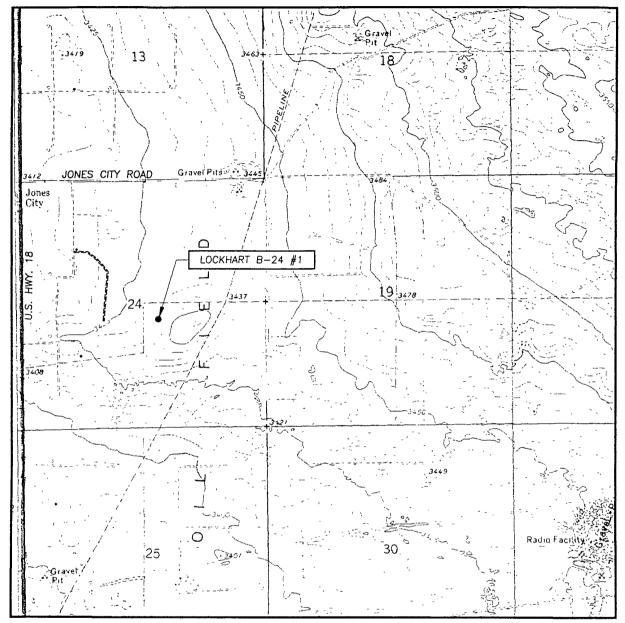
| SEC. <u>24</u> | TWP. 21-5 RGE. 3/-E |
|----------------|-------------------------|
| SURVEY | N.M.P.M. |
| COUNTY | LEA STATE NEW MEXICO |
| DESCRIPTIO | N 2310' FSL & 2310' FEL |
| ELEVATION_ | 3438' |
| OPERATOR_ | APACHE CORPORATION |
| LEVCE | LOCKHART B-24 |



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

EUNICE NE, N.M.

CONTOUR INTERVAL: 5 FEET EUNICE NE, N.M.

SEC. 24 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 2310' FSL & 2310' FEL

ELEVATION 3438'

OPERATOR APACHE CORPORATION

LEASE LOCKHART B-24

U.S.G.S. TOPOGRAPHIC MAP



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117 In response to questions asked under Section II of Bulletin NTL-6, the following information on the above will is provided for your information.

- 1. LOCATION: 2310' FSL & 2310' FEL SECTION 24 T21S-R37E LEA CO. NEW MEXICO
- 2. ELEVATION ABOVE SEA LEVEL: 3438' GL.
- 3. GEOLOGIC NAME OF SURFACE FORMATION: Quaternery Aeolian Deposits.
- 4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. PROPOSED DRILLING DEPTH: 7150

6. ESTIMATED TOPS OF GELOOGICAL MARKERS:

| Rustler Anhydrite | 1437 ' | Glorieta | 5314 ' |
|-------------------|---------------|----------|---------------|
| Yates | 2782' | Blinebry | 5840 ' |
| Seven Rivers | 3021' | Tubb | 6340 ' |
| Queen | 3586' | Drinkard | 6660 ' |
| Grayburg | 3938 ' | Abo | 6938' |
| San Andres | 4192 | TD | 7150 ' |

7. POSSIBLE MINERAL BEARING FORMATION.

| | 2 | <u>' • </u> | | |
|----------|-----|---|----------|-----|
| Blinebry | Oil | | Drinkard | 011 |
| · Tubb | 011 | | | |

8. CASING PROGRAM:

| Hole Size | Interval | OD of Casing | Weight | Thread | Collar | Grade | |
|-----------|----------|--------------|--------|---------|--------|---------------|-----|
| 26" | 0-40' | 20" | NA | NA · | NA | Conductor | New |
| 124" | 0-1300 • | 8 5/8" | 24# | 8-R | ST&C | J-55 | New |
| 7 7/8" | 0-7150' | 5 <u>‡</u> " | 17# | 8-R | LT&C | J -5 5 | New |

Design factors: Collapse 1.125 Burst 1.0 Body Yield 1.5 Joint Strength: 8-R 1.8

Buttress 1.6.

EXHIBIT "A" LOCKHART B-24 #1 DRILLING PROGRAM

I. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.

II. Estimated Tops of Geological Markers:

| <u>FORMATION</u> | <u>DEPTH</u> |
|----------------------|--------------|
| Quaternary alluvials | Surface |
| Rustler | 1437' |
| Yates | 2782' |
| Seven Rivers | 3021' |
| Quéen | 3586' |
| Grayburg | 3938' |
| San Andres | 4192' |
| Glorieta | 5314' |
| Blinebry | 5840' |
| Tubb | 6340' |
| Drinkard | 6660' |
| Abo | 6938' |
| TD | 7150' |

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

| SUBSTANCE | <u>DEPTH</u> |
|-----------|------------------|
| Oil | Blinebry@5840' |
| | Tubb@6340' |
| | Drinkard@ 6660' |
| Gas | None anticipated |

Fresh Water None anticipated

All fresh water and prospectively valuable minerals (as described by BLM) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows within zones of correlative rights will be tested to determine commercial potential.

IV. A. Proposed Casing Program:

| | <u>CASING</u> | | <u>WEIGHT</u> | | | ESTIMATED TOC - |
|-------------|---------------|---------|---------------|-------|---------------|-------------------------------|
| HOLE | <u>SIZE</u> | | <u>PER</u> | | SACKS | <u>REMARKS</u> |
| SIZE | OD / ID | GRADE | FOOT | DEPTH | CEMENT | |
| 12 1/4" | 8 5/8" | J55 STC | 24# | 1300' | 600 | TOC - Surface |
| | 8.097" | | | ク | | 8.9 ppg Water-based |
| | | | | 60 N | | Mud; |
| | | | | 500 | | 89 ° F Est. Static |
| | | | | | | Temp; |
| | | | | | | 83 ° F Est. Circ. Temp. |
| 7 7/8" | 5 ½" | J55 LTC | 17# | 7150' | 1,400 | TOC - Surface |
| | 4.892" | | | | | Float Collar set @ |
| | | | | | | 7105 ¹ / 10.10 ppg |
| | | | | | | Brine Mud; |
| | | | | | | 141 ° F Est. Static |
| | | | | | | Temp; |
| | | | | | | 117 ° F Est. Circ. |
| | | | | | | Temp. |
| | | | | | | |

B. Proposed Cement Program:

| | LEA | D SLURRY | | <u>T/</u> | AIL SL | URRY | | DISPLACEMENT |
|---------------|----------------|-------------------|----------------------------|--------------|----------|-----------|--------------|-----------------------------------|
| CASING | | | | | | | | |
| 8 5/8" | 400 sacks 35: | 65 Poz:Class | s C 2 | 00 sacks (| Class C | Cemen | t + 2% | 79.8 bbls Fresh Water |
| | Cement + 2% | bwoc Calcin | um b | woc Calci | um Ch | loride + | 0.125 | @ 8.33 ppg |
| | Chloride + 0. | 25 lbs/sack (| Cello lb | s/sack Ce | llo Fla | ke + 56. | 3% | |
| | Flake + 0.003 | gps FP-6L - | + 6% F | resh Wate | r | | | |
| | bwoc Benton | | | 27 | 70 Vol. | . Cu Ft | | |
| | 752 Vol. Cu l | _ | | 1.9 | 94 Vol. | Factor | | |
| | 1.94 | Vol. Factor | S | lurry Wei | ght (pp | g) 14.8 | | |
| | Slurry Weight | | S | lurry Yiel | d (cf/sa | ack) 1.35 | 5 | |
| | Slurry Yield (| | | mount of | | | - | |
| | Amount of M | • | 7 10.74 | stimated l | _ | _ | - 7 0 | |
| | | ated Pumping | , D | C (HH:M | M)-3:0 |)0; | | |
| | | C (HH:MM) | | | | | | |
| | | | 8 5/8" Casi | | | ulations | <u>:</u> | |
| 126 | | 0.4127 c | f/ft with | 100% | | == | | 1040.0 cf |
| 40 f | t x | 0.8214 c | f/ft with | 0% ex | cess | === | | 32.8 cf |
| 40 f | t x | 0.3576 c | | 0% ex | cess | = | | 14.3 cf (inside pipe) |
| | | TOTAL | SLURRY V | OLUME | | = | | 1087.1 cf |
| | | | | | | = | | 193.6 bbls |
| Spacer | 20.0 bbls W | /ater @ 8.33 | ppg | | | | | |
| CASING | LEAD | SLURRY | | | L SLU | | | <u>DISPLACEMENT</u> |
| 5 ½" | 950 sacks (50: | :50) Poz (Fly | 450 | sacks (50 |):50) P | oz (Fly | | 171 bbls 2% Kcl Water |
| | Ash): Class C | | |):Class C | | | | @ 8.43 ppg |
| | bwow Sodium | | - | ow Sodiur | n Chlo | ride +0.6 | 003 | |
| | lbs/sack Cello | | | FP-6L | | | | |
| | FP-6L + 10% | | ite | | Vol. C | | | |
| | | Vol. Cu Ft | | | Vol. F | | | |
| | | ol. Factor | | ry Weigh | | | | |
| | Slurry Weight | | | ту Yield (| • | • | | |
| | Slurry Yield (| • | | ount of M | lix Wa | ter (gps) | | |
| | Amount of Mi | x Water (gps | | 5.91; | | | | |
| | 14.07; | | | ount of M | | | | |
| | Amount of Mi | x Fluid (gps) | | mated Pu | | | 70 | |
| | 14.07 | • 🚌 | | BC (HH: | MM)-3 | :00; | | |
| | Estimated Pun | | <u>· /U</u> | | | | | |
| | BC (HH:N | <u>11M)-4:00;</u> | | | | | | |
| 10/ | ۱ ۸ | | 5 ½" Casin | | | | | 250.4.6 |
| |)0 ft)0 ft | | .1926 cf/ft | with | | excess | = | 250.4 cf |
| | 55 ft | | .1733 cf/ft .1733 cf/ft | with with | | excess | = | 1481.2 cf 790.3 cf |
| | 10 ft | | .1733 ct/ft .1305 cf/ft | with | | excess | = | |
| • | TO IL | | SLURRY V | | U 70 | = | | 5.2 cf (inside pipe) 2464.1 cf |
| | | IOIAL | DUKKI V | POUNT | | == | | 439 bbls |
| | | | | | | | | 727 0013 |

All slurries will be tested prior to loading to confirm thickening times and a lab report furnished to Apache. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.

A. Proposed Mud Program

| | <u>DEPTH</u> 0 – 1,300' |
|-------|-------------------------|
| | |
| (20! | 2 P |
| 100 | 9 . |
| | |
| \ 1 | 300' – 5600' |

V.

MUD PROPERTIES

Weight: 8.6 – 9.6 ppg Viscosity: $34 - 36 \sec/qt$

pH: NC Filtrate: NC

Weight: 9.9 - 10.1 ppgViscosity: 28 – 29 sec/qt

pH: 9-10 Filtrate: NC

5600' - TD

Weight: 9.9 - 10.1 ppg

Viscosity: 30 – 40 sec/qt

pH: 9-10

Filtrate: 8-15 cm/30 min

REMARKS

Soud with a Conventional New Gel/Lime "Spud mud". Use NewGel and native solids to maintain a sufficient viscosity to keep the hole clean. Mix Paper one-two sacks every 100 feet drilled to minimize wall cake build up on water sands and to control seepage loss. At TD of interval, mix in pre-mix pit, 100 barrels of system fluid, NewGel viscosity of 60 sec/100cc, add 0.25 ppb of Super Sweep.

Drill out from under the surface casing with Brine Water. Paper should be added at 2 bags after every 100' drilled to control seepage losses. Use Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 5-ppb of Super Sweep every 500 feet.

From 5600' to Total Depth, it is recommended the system be restricted to the working pits. Adjust and maintain pH with Caustic Soda. Treat system with Newcide to prevent dacterial degradation of organic materials. Mix Starch (yellow) to control API filtrate at <15cc.

VI. **Proposed Control Equipment:**

Will install on the 8 5/8" surface casing a 9" x 3000 psi WP Double Ram BOP and will test before drilling out of surface casing. As expected pressures will not exceed 2000 psi, we request a waiver of the remote control requirement on the accumulator of the 3M BOP and a variance to run a 2M BOP, if available. See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:

9" x 3000 psi double BOP/blind & pipe ram (2M BOP if available)

41/2" x 3000 psi Kelly valve

9" x 3000 psi mud cross – H₂S detector on production hole Gate-type safety valve 3" choke line from BOP to manifold

2" adjustable chokes - 3" blowdown line

VIII A. Testing Program: None planned

B. Logging Program: The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT, Sonic from TD-1300'

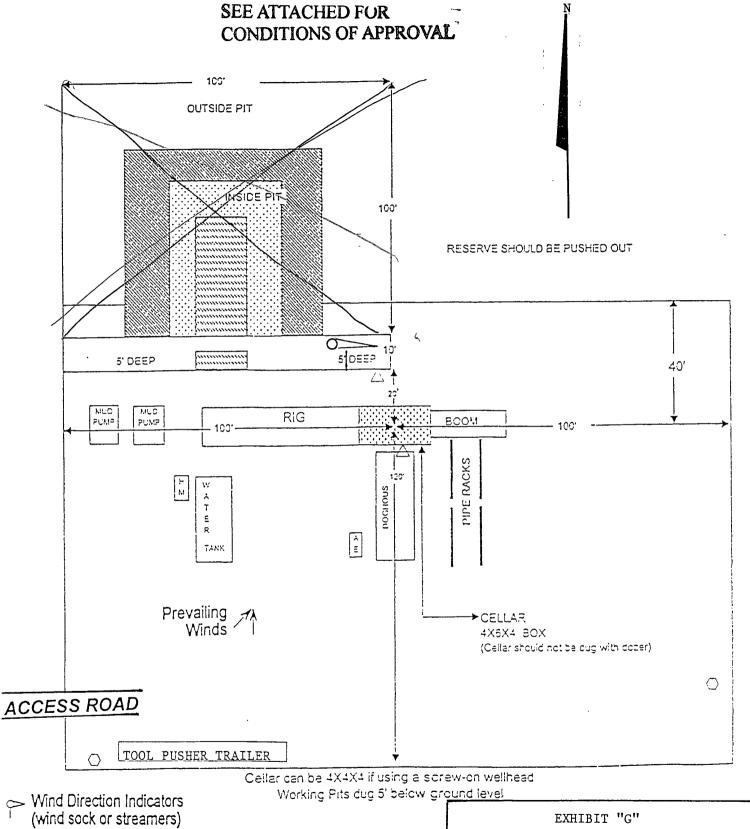
CNL, GR from TD-Surface

C. Coring Program: None planned

D. Mudlogging Program: Planned from 2500'- TD

IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. The estimated maximum bottom hole pressure is 2000 psi.

Capotal Dining, Inc. LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS



(alarms at bell nipple and shale shaker) Briefing Areas

△ H2S Monitors

Remote BOP Closing Unit

Sign and Condition Flags

Location Specs

EXHIBIT "G" RIG LAY OUT PLAT

APACHE CORPORATION LOCKHART "B-24" #1 UNIT "J" SECTION 24 T21S-R37E LEA CO. NM

3000psi -BOPE

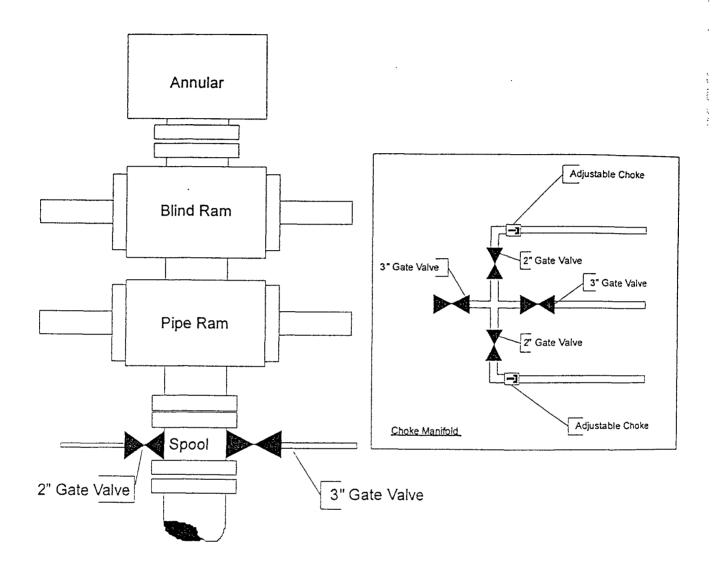


EXHIBIT "H"
SKETCH OF B.O.P. TO BE USED ON

APACHE CORPORATION
LOCKHART "B-24" #1
UNIT "J" SECTION 24
T21S-R37E LEA CO. NM



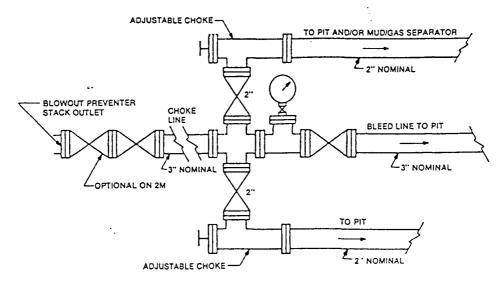


FIGURE K4-1. Typical choke manifold assembly for 2M and 3M rated working pressure service - surface installation.

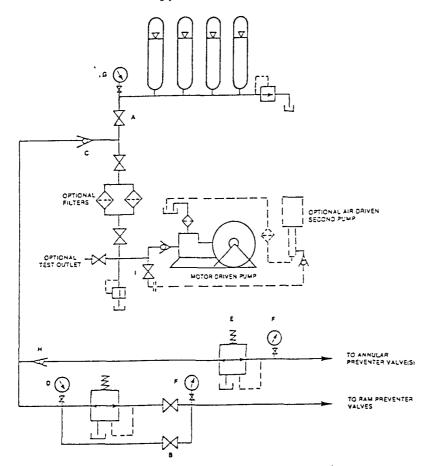


FIGURE K6-1. The schematic sketch of an accumulator system shows re-

quired and optional components.

EXHIBIT "E" CHOKE MANIFOLD & CLOSING UNIT

APACHE CORPORATION LOCKHART "B-24" #1 UNIT "J" SECTION 24

T21S-R37E

LEA CO. NM

EXHIBIT "B" LOCKHART B-24 #1

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No H_2S is anticipated.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified ${\rm H}_2{\rm S}$ safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H2S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H_2S Detection and Alarm Systems
 - A. H2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If location is near any dwelling a closed D.S.T. will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects $\rm H_2S$ has on tubular goods and other mechanical equipment.
- 9. If $\rm H_2S$ is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with $\rm H_2S$ scavengers if necessary.

PECOS DISTRICT CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | Apache Corporation |
|-----------------------|-------------------------------------|
| LEASE NO.: | NMLC032096B |
| WELL NAME & NO.: | Lockhart B-24 No 1 |
| SURFACE HOLE FOOTAGE: | 2310' FSL & 2310' FEL |
| BOTTOM HOLE FOOTAGE | |
| LOCATION: | Section 24, T. 21 S., R 37 E., NMPM |
| COUNTY: | Lea County, New Mexico |

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

| General Provisions |
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| Archaeology, Paleontology, and Historical Sites |
| Noxious Weeds |
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| Lesser Prairie Chicken |
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| Reserve Pit Closure/Interim Reclamation |
| Final Abandonment/Reclamation |

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 15 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hobbs Field Station at (505) 393-3612 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. RESERVE PITS

Operator will be utilizing a closed-loop mud systerm: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

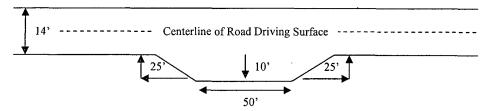
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

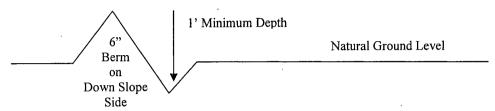


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

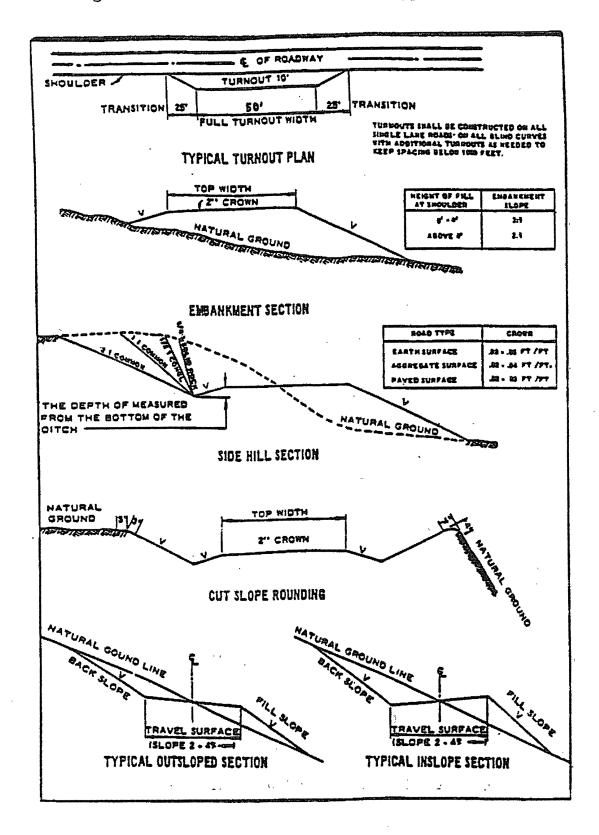
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Blinebry formation. Hydrogen Sulfide has been reported measuring 200-800 ppm in gas streams and 400-130,000 ppm in STVs.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

B. CASING

- 1. The 8-5/8 inch surface casing shall be set a minimum of 25 feet into the Rustler Anhydrite at approximately 1400 feet and cemented to the surface. Fresh water mud to be used to this depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement). Please provide WOC times to inspector for cement slurries.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, a remedial cement job will be done prior to drilling out that string.

Possible lost circulation in the Glorietta.

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Please provide WOC times to inspector for cement slurries.
- 3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17. Operator has supplied information based on the BHP in offset wells that the BHP will not exceed 2000 psi. Therefore, a 2M system is approved.
- 2. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

Engineer on call phone (after hours): Carlsbad: (575) 706-2779

WWI 013108

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the

Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

| 6. All construction and maintenance activity will be confined to the authorized right-of-way width of feet. |
|---|
| 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer. |
| 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features. |
| 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface. |
| 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer. |
| 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices. |
| 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green , Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee. |
| 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline. |
| 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. |

15. Any cultural and/or paleontological resource (historic or prehistoric site or object)

discovered by the holder, or any person working on his hehalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

(March 1989)

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency

or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines," Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.
- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object)

discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.
- See attached reclamation plans.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection bye the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

| Species | <u>lb/acre</u> |
|--|----------------|
| Plains lovegrass (Eragrostis intermedia) | 0.5 |
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sideoats grama (Bouteloua curtipendula) | 5.0 |

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent gemination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.