Form 3160-3 (August 1999)

AC

ATTACHED

OCD-HOBBS

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

5. Lease Serial No.

| - 1 | NM | LU | 132 | U96A | ١. |
|-----|----|----|-----|------|----|
| | | | | | |

| APPLICATION FOR PERM | II TO DRILL OR REENTER | 6. If Indian, Anottee of Tribe Name |
|--|--|---|
| ia. Type of Work: DRILL REENTER | | 7. If Unit or CA Agreement, Name and No. |
| b. Type of Well: 🙀 Oil Well 🔲 Gas Well 🔲 | Other Single Zone Multiple | 8. Lease Name and Well No. LOCKHART A-17 7 |
| . Name of Operator Control APACHE CORPORATION | act: BONNIE JONES E-Mail: senoj@dfn.com | 9. API Well No. 30-025-36159 |
| a. Address 6120 SOUTH YALE, SUITE 1500 TULSA, OK 74136-4224 | 3b. Phone No. (include area code) Ph: 505.624.9799 Fx: 505.624.9799 | 10. Field and Pool, or Exploratory UNKNOWN PENROSE SKELLY |
| . Location of Well (Report location clearly and in acco | ordance with any State requirements.*) | 11. Sec., T., R., M., or Blk. and Survey or Are |
| At surface NESE 2630FSL 990FEL | - | Sec 17 T21S R37E Mer NMP |
| At proposed prod. zone NESE Lot I 2630FSL 99 | OFEL | |
| Distance in miles and direction from nearest town or p 2.5 | ost office* | 12. County or Parish 13. Stat LEA NM |
| Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No. of Acres in Lease? | 17. Spacing Unit dedicated to this well |
| 330 | 640.00 | 40.00 |
| 3. Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 753 | | 5 20. BLM/BIA Bond No. on file |
| 1. Elevations (Show whether DF, KB, RT, GL, etc. 3469 GL | 22. Approximate date work will start | 23. Estimated duration |
| | | (C) |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service | Item 20 above). System Lands, the 5. Operator certificat | ecific information and/or plans as may be required by the |
| (Electronic Submission) | BONNIE JÓNES | 01/29/2003 |
| itle AGENT | | |
| pproved by (Signature) | Name (Printed/Typed) | Date |
| 151 NOV J. BONZAUZ | | NZALEZ FR 13 200 |
| FIELD MANAGER | CARLSBAD FIELD | |
| plication approval does not warrant or certify the applican erations thereon. nditions of approval, if any, are attached. | | PROVAL FOR 1 YEAR |
| tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 ates any false, fictitious or fraudulent statements or represe | | lifully to make to any department or agency of the United |
| dditional Operator Remarks (see next page) | | OPER. OGRID NO. 873 |
| ROVAL SUBJECT TO Electronic Subm | ission #17838 verified by the BLM Well | Info PROPERTY NO. 24430 |
| FOR STATE OF THE PROPERTY OF T | APACHE CORPORATION, sent to the for processing by Armando Lopez on (| |
| CIAL STIPULATIONS | • | API NO. 30-025-36159 |
| ACHED | | 11 1NO. SU-ULS-36159 |

Additional Operator Remarks:

Surface Owner: Millard Deck Estate, c/o Bank of America, Trustee Attention Tim Wolters P. O. Box 270 Midland, Texas 79701 915-685-2864



EXHIBIT "A" LOCKHART A-17 #7

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 | 1233' |
| Yates | 2607' |
| Grayburg | 3671' |
| San Andres | 3950' |
| TD | 4100' |

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

| <u>SUBSTANCE</u> | <u>DEPTH</u> |
|------------------|---------------------|
| Oil | Grayburg at 3671' |
| | San Andres at 3950' |
| 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:

| HOL E SIZE | CASI SIZ OD | GRAD E | WEIGHT PER FOOT | <u>DEPTH</u> | SACKS CEMENT | ESTIMATED TOC - REMARKS |
|------------------|-------------------|---------------|-----------------------|--|-----------------|--|
| 12 1/4" | 8 5/8" 8.097 | J55 STC | 24# | 400' (Pursuant to Lea County Alternative Casing Program) | 325 | TOC - Surface 8.34 ppg Water-based Mud; 83° F Est. Static Temp; 80° F Est. Circ. Temp. |
| 7 7/8" | 5 ½" 4.892 | J55 LTC | 17# | 4100' | 825 | TOC – Surface Float Collar set @ 4060'/ 10.20 ppg |

Float Collar set @
4060'/ 10.20 ppg
Water-based Mud;
118° F Est. Static
Temp;
101° F Est. Circ. Temp.

FEB 2003 FL VED Hobbs OCD

B. Proposed Cement Program:

| 8 5/8" 325 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake | CASNIG | | | SLURRY | | | DISPLA | ACEMENT |
|--|----------------------|------------|----------------|--|----------|---------------|-------------|--|
| + 56.3% Fresh Water | <u>CASING</u> 8 5/8" | 325 sacks | Class C | Cement + 2% | bwoc | 2: | 2.9 bbls F | Fresh Water @ |
| 1.35 Vol. Factor Slurry Weight (ppg) 14.8 | | | | | ck Celle | o Flake | 8.3 | 34 ppg |
| Slurry Weight (ppg) 14.8 Slurry Yield (cf/sack) 1.35 | | | | | | | | |
| Slurry Yield (cf/sack) 1.35 Amount of Mix Water (gps) 6.35; Estimated Pumping Time - 70 BC (HH:MM)-3:00; 8 5/8" Casing: Volume Calculations: 400 ft | | Classes W. | | | | | | |
| Amount of Mix Water (gps) 6.35; | | • | | | | | | |
| Stimated Pumping Time = 70 BC (HH:MM)-3:00; S 5/8" Casing: Volume Calculations: 400 ft x 0.4127 ct/ft with 156% excess = 423.0 cf 40 ft x 0.3576 ct/ft with 0% excess = 14.3 cf (inside pipe) TOTAL SLURRY VOLUME = 437.3 cf = 78 bbls | | | | | 5; | | | |
| A00 ft x 0.4127 ct/ft with 156% excess = 423.0 cf 40 ft x 0.3576 ct/ft with 0% excess = 423.0 cf 437.3 cf = 78 bbls | | | | | - | <u>SC</u> | | |
| ## 400 ft | · | <u>(I</u> | IH:MM)- | 3:00; | | | | |
| A0 ft | | | | <u>8 5/8"</u> | Casing: | Volume Calc | ulations: | |
| TOTAL SLURRY VOLUME | | | x (| 0.4127 cf/ft | with | | s = | 423.0 cf |
| Spacer 30.0 bbls Water @ 8.3 ppg TAIL SLURRY DISPLACEME NT | 40 1 | ft | | | | | = | ` |
| Spacer 30.0 bbls Water @ 8.3 ppg CASING LEAD SLURRY TAIL SLURRY DISPLACEME NT | | | | TOTAL SLUI | RRY V | DLUME | | |
| CASING | C | 20.01.1 | 1- 117-4 | (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | | | = | 78 bbls |
| Sty | | | | | | | | |
| Ash): Class C Cement + 5% | CASING | <u>L</u>] | EAD SLU | <u>JRRY</u> | | TAIL SLU | <u>JRRY</u> | |
| bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.003 gps FP-6L + 10% bwoc Bentonite + 139.7% Fresh Water; 1405 Vol. Cu Ft 2.44 Vol. Factor Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 2.44 Amount of Mix Water (gps) 14.07; Amount of Mix Fluid (gps) 14.07 Estimated Pumping Time - 70 BC (HH:MM)-4:00; 5 ½" Casing: Volume Calculations: 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | 5 1/2" | 575 sacks | (50:50) 1 | Poz (Fly | 250 s | sacks (50:50) | Poz (Fly | 94.2 bbls Fresh |
| Ibs/sack Cello Flake + 0.003 gps FP-6L + 2% bwoc Bentonite FP-6L + 10% bwoc Bentonite + + 58.7% Fresh Water | | Ash): Cla | ss C Cem | ent + 5% | , | | | - |
| FP-6L + 10% bwoc Bentonite + | | | • | | | | | 110 |
| 139.7% Fresh Water; 323 Vol. Cu Ft 1405 Vol. Cu Ft 1.29 Vol. Factor 2.44 Vol. Factor Slurry Weight (ppg) 14.2 Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) 5.91; Amount of Mix Fluid (gps) Estimated Pumping Time - 70 BC (HH:MM)-4:00; Slurry Yield (cf/sack) 1.29 FEB 2000 FEB 20 | | | | | ~. | | | onite |
| 1405 Vol. Cu Ft 2.44 Vol. Factor Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 2.44 Amount of Mix Water (gps) Amount of Mix Water (gps) 14.07; Amount of Mix Fluid (gps) 14.07 BC (HH:MM)-4:00; Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) 14.07; BC (HH:MM)-4:00; Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) 5.91; Amount of Mix Fluid(gps) 5.91; Hobbs OCD BC (HH:MM)-4:00; Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) Estimated Pumping Time - 70 BC (HH:MM)-3:00; Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) FEB 2003 FEB | | | | | + 58. | | | |
| Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 1.29 Slurry Yield (cf/sack) 2.44 Amount of Mix Water (gps) S.91; Amount of Mix Fluid (gps) S.91; Amount of Mix Fluid (gps) Estimated Pumping Time - 70 BC (HH:MM)-4:00; S'/2" Casing: Volume Calculations: Amount of Mix Fluid (gps) S.91; Casing: Volume Calculations: Amount of Mix Fluid (gps) S.91; Hobbs OCD | | | | • | | | | |
| Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 1.29 Amount of Mix Water (gps) S.91; Amount of Mix Fluid (gps) S.91; Amount of Mix Fluid (gps) S.91; Amount of Mix Fluid (gps) S.91; Hobbs OCD | | | | | Cluser | | | 16 A 15 |
| Slurry Yield (cf/sack) 2.44 Amount of Mix Water (gps) 5.91; Le 200 14.07; Amount of Mix Fluid (gps) Estimated Pumping Time - 70 BC (HH:MM)-4:00; 14.07 BC (HH:MM)-3:00; 14.08 Estimated Pumping Time - 70 OCD 14.09 BC (HH:MM)-3:00; 14.09 BC (HH:MM)-3:00; 14.00 | | | | | | | • • | |
| Amount of Mix Water (gps) 14.07; Amount of Mix Fluid (gps) 14.07 Estimated Pumping Time - 70 BC (HH:MM)-4:00; 5 ½" Casing: Volume Calculations: 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | - | | | | | - | FEB 2003 |
| 14.07; Amount of Mix Fluid(gps) 5.91; Hobbs | | - | - | | | | (SP-) | |
| Amount of Mix Fluid (gps) 14.07 BC (HH:MM)-3:00; Stimated Pumping Time - 70 BC (HH:MM)-4:00; | | | | (SF -) | | | uid(gps) 5 | |
| 14.07 BC (HH:MM)-3:00; Estimated Pumping Time – 70 BC (HH:MM)-4:00; 5 ½" Casing: Volume Calculations: 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | Amount o | f Mix Flu | aid (gps) | | | | |
| BC (HH:MM)-4:00; 5 ½" Casing: Volume Calculations: 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | 14.07 | | ,, | | | | The same of the sa |
| 5 ½" Casing: Volume Calculations: 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | | | | | | | ET-18082 |
| 400 ft x 0.1926 cf/ft with 0% excess = 77.0 cf 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | BC (E | <u>IH:MM)-</u> | <u>4:00;</u> | | | | |
| 3015 ft x 0.1733 cf/ft with 154% excess = 1328.4 cf 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | | | | | | lations: | |
| 835 ft x 0.1733 cf/ft with 120% excess = 318.2 cf 40 ft x 0.1305 cf/ft with 0% excess = 5.2 cf(inside pipe) TOTAL SLURRY VOLUME = 1728.9 cf | | | | | | | | |
| 40 ft x 0.1305 cf/ft with $0\% \text{ excess} = 5.2 \text{ cf(inside pipe)}$ TOTAL SLURRY VOLUME = 1728.9 cf | | | | | | | | |
| TOTAL SLURRY VOLUME = 1728.9 cf | | | | | | | | |
| _ 30A DDIE | 4 | υII | | | | | | |

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.

V. A. Proposed Mud Program

<u>DEPTH</u> 0 – 400'

MUD PROPERTIES

Weight: 8.6 – 9.2 ppg Viscosity: 32 – 50 sec/qt Plastic Viscosity: 2-10 cps Yield Point: 6-15 lbs/100'

pH: 9-10 Filtrate: NC

Solids: <4 % volume Chloride: <4,000 mg/L

400' - 4000'

Weight: 9.2 ppg

Viscosity: 30 – 32 sec/qt Plastic Viscosity: 0-1 cps Yield Point: 0-1 lbs/100'

pH: 9-10 Filtrate: NC

Solids: <1 % volume Chloride: < 30K mg/L

4000' - 4100'

Weight: 9.1 – 10.3 ppg Viscosity: 30 – 32 sec/qt Plastic Viscosity: 3-10 cps Yield Point: 4-6 lbs/100'

pH: 9-10

Filtrate: 10-15 cm/30 min Solids: <2-4 % volume Chloride: < 170K mg/L **REMARKS**

Spud with Fresh Water AQUAGEL EZ-Mud, LCM, Lime. Add AQUAGEL and LIME to Fresh Water to build desired viscosity for hole cleaning, restricting system to steel pits. Additions of Fresh Water at the flowline will aid in controlling viscosity. HY-SEAL "sweeps" as needed for extra hole cleaning, seepage and severe losses. Should total circulation loss be encountered, add up to 20 ppb. LCM (BARO-SEAL = Maxiseal); (HY-SEAL = Drilling Paper); (PLUG-GIT = Cedar Fiber) and spot in loss zone. If returns cannot be established, then "dry-drill" to set surface casing.

Drill out from under the surface casing with Fresh Water. HY-SEAL should be added at 2 bags after every 100' drilled, if you have and drag or torque on connections. Begin adding 10 # Brine AT minimam 100' before drilling salt formation for 9.7 + 1300 Ft, weight. LIME applications should be continued during this interval for a pH of 9.0-10.0, in addition, to flocculate solids and to minimize corrosion. Additions of CAUSTIC SODA may be needed to maintain pH at 9-10.

From 4000' to Total Depth, it is recommended the system be restricted to the steel pits, and, with Brine, mud up as follows: while circulating through the steel pits, add 3-4 #/bbl IMPERMX (starch) to lower fluid loss below 15 cc. If lost circulation is encountered, mix a viscous pit of mud and add 15 ppb LCM (Add 5#/bbl of the following: BARASEAL, HYSEAL & PLUG-GIT) and continue to drill. Sweep the hole with a viscous pill prior to coming out of the hole to log

VI. <u>Proposed Control Equipment:</u>

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

3

De In Order to utilize the Conditions of Approval" the operator shall AFTEMPT additives to SEAL wellbore over possible water zones down to Tapy

<u>variance to run a 2M BOP, if available, and to test to 1500 psi using rig pumps.</u> See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:

1 .:

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

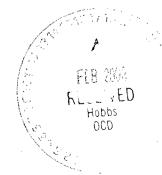
B. Logging Program: The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT from TD-2400'

CNL, GR from TD-Surface

C. Coring Program: None planned

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 1980 psi.



State of New Mexico

Buergy, Minerals and Natural Resources Departme

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Brawer DD, Artewia, NM 60211-0710

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

| | DISTRICT IV p.g. box roes, ganta pz. n.m. 87504 | WELL LOCATION AND | ACREAGE DEDICATION PLAT | ☐ AMENDED REPORT |
|---|--|-------------------|--------------------------|---------------------------------------|
| | API Number | Pool Code | Pool Name | · · · · · · · · · · · · · · · · · · · |
| | 30-025-361. | <i>59</i> 50350 | Penrose Skelly; Grayburg | |
| | Property Code | Pro | perty Name | Tell Number |
| , | 24430 | LOCKI | 7 | |
| | OCRID No. | . Dys | Elevation | |
| | 873 | APACHE | CORPORATION | 3469' |

Surface Location

| | UL or lot No. | Section | Township | Range | Lot lån | Feet from the | North/South line | Feet from the | East/West line | County | | |
|---|--|---------|----------|-------|---------|---------------|-------------------|---------------|-----------------|----------|--|--|
| | | 17 | 21-S | 37-E | | 2630 | SOUTH | 990 | EAST | LEA | | |
| | | | <u> </u> | | | | | | | | | |
| | Bottom Hole Location If Different From Surface | | | | | | | | | | | |
| i | ETT 1-4 BZ- | C-sti- | | B | 144 145 | Past from the | Marth /Cauth line | Fast from the | Vest /Vest time | C-11-1-1 | | |

Dedicated Acres Joint or Infill Consolidation Code Order No. 40.00

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

| APPLACE THE CONTRACT OF THE CO | | | OPERATOR CERTIFICATION I hereby certify the the information contained herein in true and complete to the best of my knowledge and belief. |
|--|--|-------------------------|---|
| · · · · · · · · · · · · · · · · · · · | GEOGRAPHIC COORDINATES SPC NME NAD 1927 Y = 539815.9 X = 855872.7 LAT 32'28'43.58"N LONG 103'10'45.60"W | 3470.8' 3469.1' | Signature LARLY E. RADER Printed Name TECH. (ODR DINIATOR - DR. C. Title 1/8/03 Date SURVEYOR CERTIFICATION |
| Total Control of the | K- Hopps | 990' 3462.7' 3464.6' | I hereby certify that the well inculion shown on this plat was plotted from field notes of actual surveys made by me or under my supervisors and that the same to true an correct to the best of my belief. NOVEMBER 27, 2002 Date Surveyed Significant a Seal of the printerior of the content |
| | | | Complete No. Bonard F. EIDSON 3236 |

DISTRICT I P.O. Box 1950, Sobbe, NM 88241-1960

State of New Mexico

Energy, Minerals and Natural Resources Departme



EXHIBIT D-2

DISTRICT II P.O. Drawer DD, Ariesia, NW 88211-0719 OIL CONSERVATION DIVISION

State Lease - 4 Copies

DISTRICT III

1000 Rio Brazos Rd., Axtec, NM 87410

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 Fee Lease - 3 Copies

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT P.O. BOX 2085, BANTA FE, N.M. 87504-2088 Pool Code Pool Name API Number Property Code Property Name Well Number LOCKHART A-17 Operator Name Elevation OGRID No. APACHE CORPORATION 3469'

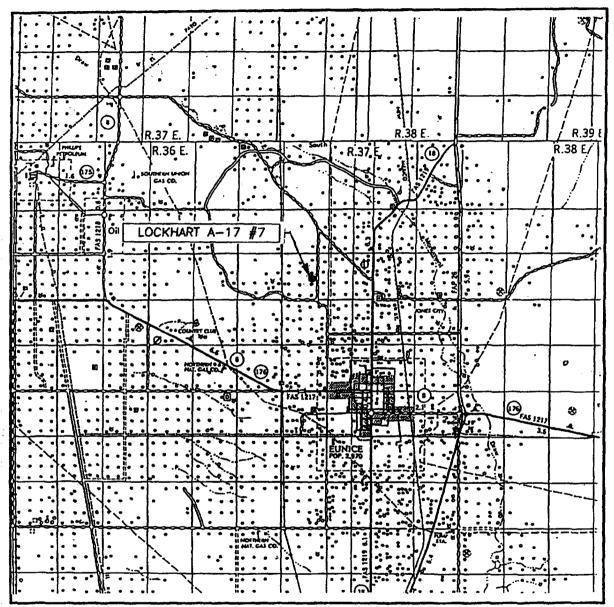
Surface Location

| i | UL or lot No. | Section | Township | Range | Lot ldn | Peet from the | North/South line | Peet from the | East/West line | County |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | 1 | 17 | 21-S | 37-E | | 2630. | SOUTH | 990 | EAST | LEA |

Bottom Hole Location If Different From Surface

| 1 | UL or lot No. | Section | Township | Range | lot Idn | Peet from the | North/South line | Feet from the | East/West line | County | | | |
|---|-----------------|-------------|-------------|---------------|---------|---------------|------------------|---------------|----------------|--------|--|--|--|
| | | | | | | - No | l | | <u> </u> | L | | | |
| | Dedicated Acres | Joint o | r Infill Co | nsolidation (| ode Ore | der No. | | | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



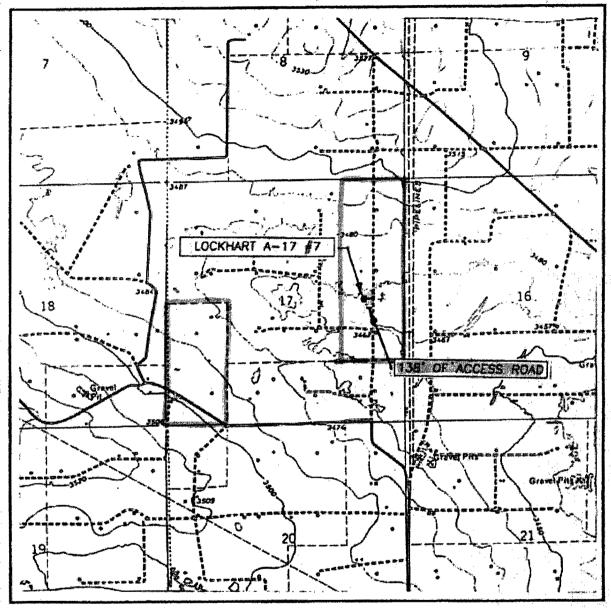
SCALE: 1" = 2 MILES

| SEC. 17 T | WP. <u>21-S</u> RGE. <u>37-E</u> |
|-------------|----------------------------------|
| SURVEY | N.M.P.M. |
| COUNTY | LEA |
| DESCRIPTION | 2630' FSL & 990' FEL |
| ELEVATION | 3469 |
| OPERATOR | APACHE CORPORATION |
| | LOCKHART A-17 |

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATION MAP

EXHIBIT E-2



SCALE: 1" = 2000"

CONTOUR INTERVAL: 11 EUNICE, N.M.

| SEC. 17 T | VP. 21-5 RGE. 37-E |
|--------------|----------------------|
| SURVEY | N.M.P.M. |
| COUNTY | LEA |
| DESCRIPTION | 2630' FSL & 990' FEL |
| ELEVATION | 3469 |
| OPERATOR | APACHE CORPORATION |
| LEASE | LOCKHART A-17 |
| U.S.G.S. TOP | OGRAPHIC MAP |

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



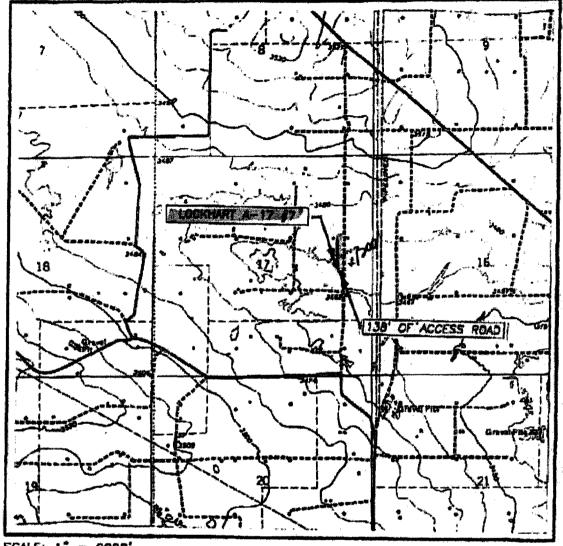
LEASE BOUNDARY



ACCESS

LOCATION VERIFICATION MAP

EXHIBIT E-3



SCALE: 1" = 2000"

EUNICE, N.M.

CONTOUR INTERVAL: 10' EUNICE, N.M.

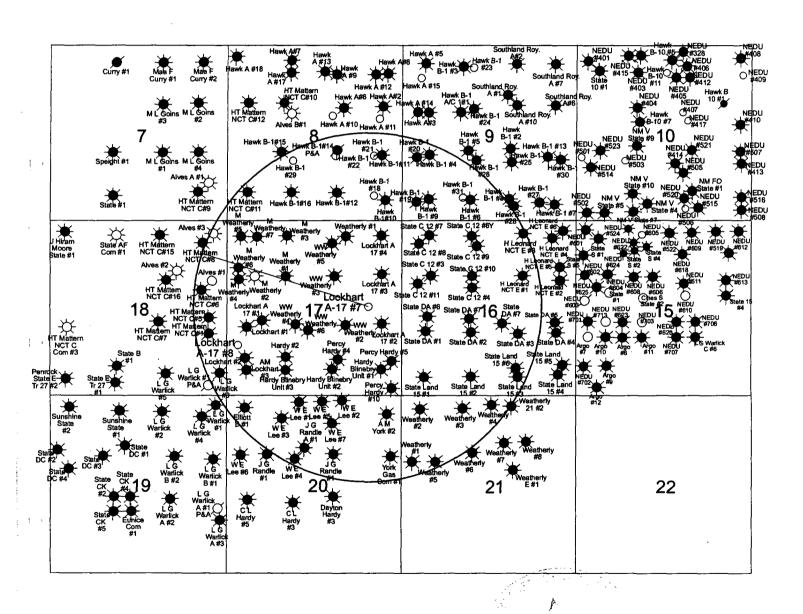
| SEC. 17 TWP | . 21-5 RGE. 37-E |
|----------------|--------------------|
| SURVEY | N.M.P.W. |
| | LEA |
| | 30' FSL & 990' FEL |
| ELEVATION | 3469' |
| OPERATOR_A | PACHE CORPORATION |
| | LOCKHART A-17 |
| U.S.G.S. TOPOG | |

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



Flow-line Route

EXHIBIT "F" Lockhart A-17 #7 2630' FSL & 990' FEL, Sec. 17, T21S-R37E Lea County, NM



CAPSTAR DRILLING INC

BOP SCHEMATIC 9" X 3000 psi

EXHIBIT "H"

