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| | | 1220 South St. Francis Drive, Santa Fe, NM 87505 | alpacht 11 Corrigon 4-225-37E |
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| | | ADMINISTRATIVE APPLICATION CHECKLIST | 5492 |
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| • • | [DHC-Dow [PC-Po | ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous De mhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Common ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurer [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] Ulified Enhanced Oil Recovery Certification] [PPR-Positive Production Re | mingling] nent] |
| 1] T | - | PPLICATION - Check Those Which Apply for [A] | |
| × (* | [A] | Logation - Spacing Unit - Simultaneous Dedication | 2006 |
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| | [C] | Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR | |
| | [D] | Other: Specify | 12 |
| 2] N | OTIFICAT [A] | ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners | |
| | [B] | Offset Operators, Leaseholders or Surface Owner | |
| | [C] | Application is One Which Requires Published Legal Notice | • |
| | [D] | Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office | |
| | [E] | For all of the above, Proof of Notification or Publication is Attached, as | ad/or, |
| | ्त्रि | Waivers are Attached | |
| | | CURATE AND COMPLETE INFORMATION REQUIRED TO PROCE ATION INDICATED ABOVE. | ess the type |
| •• | 6 | TION: I hereby certify that the information submitted with this application for | r administrative |
| proval i | s accurate a | nd complete to the best of my knowledge. I also understand that no action wind uniformation and notifications are submitted to the Division. | |
| | | Statement must be completed by an individual with managerial and/or supervisory capacit | ». ol.il |
| lames B | | Amul Sluce Attorney for applic | 7///// |
| rint or Typ | | Signature Title | Date |
| | | jamesbruc@aol.com | |
| | | e-mail Address | |

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone) (505) 660-6612 (Cell) (5050 982-2151 (Fax)

jamesbruc@aol.com

September 11, 2006

Hand Delivered

Mark E. Fesmire, P.E. Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Pursuant to Division Rule 104.F(2), Apache Corporation applies for administrative approval of an unorthodox oil well location for the following well:

| Well Name: | H. Corrigan Well No. 20 | | | | | |
|--------------------|---|--|--|--|--|--|
| Well Location: | 1480 feet FNL & 330 feet FEL | | | | | |
| <u>Well Unit</u> : | SE ¹ / ₄ NE ¹ / ₄ of Section 4, Township 22 South, Range 37 East, | | | | | |
| | N.M.P.M., Lea County, New Mexico | | | | | |

The well will test the Blinebry (Blinebry Oil and Gas Pool), Tubb (Tubb Oil and Gas Pool), and Drinkard (Drinkard Pool) formations, and applicant requests unorthodox location approval in all three zones. The Blinebry, Tubb, and Drinkard zones are expected to be oil productive.

The application is based on geological and engineering reasons. A complete discussion, with exhibits, is attached as Exhibit A. The well is in the approximate center of existing Blinebry, Tubb, and Drinkard wells, and the proposed location will drain additional undrained reserves.

The well unit will be simultaneously dedicated to the proposed well and to the existing H. Corrigan Well No. 10 in the Drinkard formation, and to the proposed well and to the existing H. Corrigan Well No. 7 in the Blinebry and Tubb formations.

- 30-025-10012

Exhibit B is a land plat. The Corrigan fee lease covers Lots 1, 2, and the $S\frac{1}{2}NE\frac{1}{4}$ (the NE¹/₄) of Section 4, and no offset owner is adversely affected by the application. Therefore, notice has not been provided to anyone.

Please call me if you need any further information on this matter.

Very truly yours, DULL DULL Fames Bruce

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Attorney for Apache Corporation

Application of Apache Corporation for administrative approval of an unorthodox well location:

40 acres – 1480 FNL & 330' FEL Section 4, Township 22 South, Range 37 East, NMPM Lea County, New Mexico

PRIMARY OBJECTIVES:

Blinebry, Tubb, and Drinkard

In support:

- 1. Apache Corporation (Apache) is the operator of the proposed H Corrigan #20 well (Exhibit 1).
- 2. The proposed unorthodox location encroaches toward, or is in the same quarter section, as the following wells, which are, or have been, productive from various combinations of the Blinebry, Tubb, and Drinkard (Exhibit 2). Exhibit 2 displays only those wells with a total depth equal to, or greater than, 5250', sufficient to penetrate at least part of the Blinebry, Tubb, and Drinkard interval. Production from the three reservoirs is assigned to individual Blinebry Oil and Gas, Tubb Oil and Gas, and Drinkard Pools, but downhole commingling is pre-approved pending submission of allocations to the Hobbs District Office.

| API | | | | | Cum | Daily |
|-------|----------------|----------------------------|------|------------------|-------------|---------|
| 30025 | Op. | Well | Loc | Pool | O/G/W | O/G/W |
| 09999 | John H Hendrix | Eva Owens #1 | 03-D | Blinebry (06660) | 12/418/5 | 1/62/1 |
| 09999 | John H Hendrix | Eva Owens #1 | 03-D | Tubb (86440) | 10/1340/0 | 0/0/0 |
| 09999 | John H Hendrix | Eva Owens #1 | 03-D | Drinkard (19190) | 233/2591/11 | 0/0/0 |
| 10005 | BEC Corp | Owen A #1 | 03-E | Blinebry (06660) | 11/1415/22 | 1/104/6 |
| 10005 | BEC Corp | Owen A #1 | 03-E | Drinkard (19190) | 58/6/2 | 0/0/0 |
| 10006 | Apache Corp | H Corrigan #4 | 04-A | Blinebry (06660) | 9/112/22 | 3/25/22 |
| 10006 | Apache Corp | H Corrigan #4 | 04-A | Tubb (86440) | 17/2489/0 | 0/0/0 |
| 10006 | Apache Corp | H Corrigan #4 | 04-A | Drinkard (19190) | 144/2085/0 | 0/0/0 |
| 10015 | Apache Corp | H Corrigan #10 | 04-H | Drinkard (19190) | 111/657/2 | 0/0/0 |
| 10012 | Apache Corp | H Corrigan #7 | 04-H | Blinebry (06660) | 14/240/35 | 1/5/2 |
| 10012 | Apache Corp | H Corrigan #7 | 04-H | Tubb (60240) | 13/151/6 | 0/0/0 |
| 10011 | Apache Corp | H Corrigan #6 | 04-B | Blinebry (06660) | 11/270/8 | 0/0/0 |
| 10013 | Apache Corp | H Corrigan #8 | 04-B | Blinebry (06660) | 6/50/13 | 1/1/2 |
| 10013 | Apache Corp | H Corrigan #8 | 04-B | Drinkard (19190) | 180/2705/3 | 0/0/0 |
| 10010 | Apache Corp | H Corrigan #5 | 04-G | Drinkard (19190) | 15/2150/2 | 0/0/0 |
| 10014 | Apache Corp | H Corrigan BLBY Gas Com #9 | 04-G | Blinebry (72480) | 47/2765/11 | 0/24/2 |
| 10014 | Apache Corp | H Corrigan BLBY Gas Com #9 | 04-G | Drinkard (19190) | 81/0/0 | 0/0/0 |

Exhibit A

| MBO | BOPD |
|-------|--------|
| MMCFG | MCFGPD |
| MBW | BWPD |

- 2. Apache expects the proposed **H Corrigan #20** to test as an oil well in each of the three reservoirs. Should any reservoir test gas, Apache will either gain the appropriate approvals from the OCD to produce or abandon the reservoir.
 - a) Apache H Corrigan #4, Section 4, Unit A, was in the Tubb Gas Pool, with apparently 160 A dedicated, but has not produced from the Tubb since December 1977. Apache H Corrigan #7, in Unit H, the same 160 A as the #4, was in the Tubb Oil Pool as of its last production in September 1996. **Exhibit 3** shows that Corrigan #7 is actually perforated higher than Corrigan #4. It is assumed that because the most recent Tubb producer is in the Tubb Oil Pool, with 40 A dedicated, that no dedication conflict should arise with the Tubb in **H Corrigan #20**.
 - b) Apache H Corrigan Blinebry Gas Com #9, in Unit G, has only 40 A dedicated to Blinebry gas (Exhibit 4).
- **3.** The proposed **H Corrigan #20** location of 1480' from north line and 330' from east line is based upon drainage considerations.

a. Geology

,

The Blinebry, Tubb, and Drinkard Formations are members of the Yeso Group, Permian Leonardian in age. Fluid contacts, specifically Blinebry GOC at -2255 and Drinkard OWC at -3225, employed by Shell in the unitization hearing for the NorthEast Drinkard Unit, just to the east, were used in the petrophysical evaluation of the reservoirs.

All three formations are shallow marine carbonates, consisting primarily of dolomite. The Tubb has appreciable clastic content and the Drinkard can become limey toward its base. Anhydrite can occur throughout the interval. Pay zones are thin, erratically distributed, and separated by thick impermeable intervals. Porosity and permeability are low. Wells are not generally capable of draining a full 40 Acre spacing unit. In fact, Apache's calculations indicate drainage area usually approximates 20 Acres.

Apache routinely fracture stimulates perforations in each of the three formations then produces them commingled and allocates production based upon well tests. At this stage in the history of all three pools, economics will not permit development of individual reservoirs. Thus, pay from all three reservoirs must be considered for well proposals. A combined Blinebry, Tubb, Drinkard map extracted from a larger area map is, therefore, presented (**Exhibit 5**).

The reservoir was analyzed by mapping hydrocarbon pore volume (SoPhiH) (**Exhibit 5**) of the entire Blinebry, Tubb, and Drinkard interval. SoPhiH is the product of feet of net pay (H) times average porosity (PhiA) times oil saturation (So). The values were obtained as follows:

1. Net Pay was read from modern neutron-density logs which have contractor calculated cross-plotted porosity (XPhi) using a minimum of 5% and a maximum of 20%. Additionally,

gamma ray (40 APIU in the Blinebry and Drinkard and 50 APIU in the Tubb) and water saturation (10% - 50%, using a standard equation with a=1 and m=n=2) cutoffs were also employed.

- 2. Average Porosity was calculated for intervals meeting those criteria.
- 3. Oil Saturation is the additive inverse of water saturation.

This analysis requires modern neutron-density and resistivity logs. Although water saturations can be adequately estimated from offsetting modern wells, many wells had to be excluded from analysis because of the vintage or type of porosity logs. SoPhiH isopach lines were modeled after cumulative production isopach lines where new well control is lacking. This procedure has proved successful for Apache in recent drilling in the area.

b. Drainage

The following table provides drainage areas calculated from the SoPhiH map and reserves of the offsetting wells in the four spacing units impacted. SoPhiH values are either from modern logs, or estimated from the grid. Wells with values determined from modern logs will be in bold and the others are estimated from the grid.

| | | | | SoPhiH | Area | EUR | EUR |
|----------------|----------------|------|-----------|--------|------|-----|-------|
| Op. | Well | Loc | Reservoir | FT | Α | MBO | MMCFG |
| John H Hendrix | Eva Owens #1 | 03-D | BTD | 14.8 | 25.6 | 243 | 3931 |
| BEC Corp | Owen A #1 | 03-E | BTD | 10.0 | 10.8 | 69 | 1422 |
| Apache Corp | H Corrigan #4 | 04-A | BTD | 11.8 | 22.4 | 170 | 4686 |
| Apache Corp | H Corrigan #10 | 04-H | BTD | 9.7 | 17.8 | 111 | 657 |
| Apache Corp | H Corrigan #7 | 04-H | BTD | 9.8 | 4.3 | 27 | 391 |

The proposed **H Corrigan #20** was planned as a "true" 20 Acre infill location between existing Blinebry, Tubb, and Drinkard producers. The location was placed in the center of the vacant area between the existing wells, and then moved due to surface conditions and cultural obstructions.

Reserves for the proposed location were calculated by planimetering the undrained area of the SoPhiH isopach which lies under a drainage circle (the size of which is the average of the direct offset drainage areas) centered on the proposed location. Any competitive drainage is shared between the proposed well and the existing offset wells. The results are as follows:

| | | | | SoPhiH | Area | EUR | EUR |
|--------|----------------|------|-----------|--------|------|-----|-------|
| Op. | Well | Loc | Reservoir | Ft | A | MBO | MMCFG |
| Apache | H Corrigan #20 | 04-H | BTD | 9.90 | 16 | 100 | 800 |

4. Notice

Apache, John H Hendrix Corporation, and BEC Corporation operate Blinebry, Tubb, and Drinkard wells toward which the proposed well will encroach. Working interest owners who need to be notified are:

> The John H. Hendrix Corporation 110 N. Marienfield, Ste 400 Midland, TX 79702

Michael & Jeanne Klein 500 West Texas, Ste 1230 Midland, TX 79701

Daniel Viers 1209 West Cuthbert Ave. Midland, TX 79701

Diane Patrick Tipton 911 Harvard Ave Midland, TX 79701

Ronnie & Merlyn Westbrook P. O. Box 3171 Midland, TX 79702

BEC Corporation P. O. Box 1392 Midland, TX 79702

5. Approval of this application will afford the interest owners in these spacing units an opportunity to recover oil and gas which would not otherwise be recovered and to do so without violating correlative rights.

EXHIBIT 1

SK

Certificate. No. GARY EDSON 12841 N. Const. RONALD 1. EDSON 3239

DISTRICT I 1625 N. FRENCH DE., HOBES, NM 80240

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DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NW 84210

DISTRICT III

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe. New Mexico 87505

| | Form C-102 |
|-----------|---|
| Submit to | Revised October 12, 2005 Appropriate District Office |
| | State Lease - 4 Copies |
| | Fee Lease - 3 Copies |

| D S. ST. FRANCIS DI | RL, SANTA PE. Number | NM 07505 | | Pool Code | | <u> </u> | | | Pool Name | AMENDE | |
|---------------------|-------------------------|------------------|---------------|-----------|-----------|----------|----------------------------------|------|---------------------------------|--|-------------------|
| | | | | | | | | | | | |
| Property C | ode | | | | Prop | erty Nam | e | | | Well Num | ber |
| | | | | | H. C | ORRIG | AN | | | 20 | |
| OGRID No | | | | | | ator Nam | RATION | | | Elevatio | |
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| | | [m] | | T | | ce Loca | | -1 | | | |
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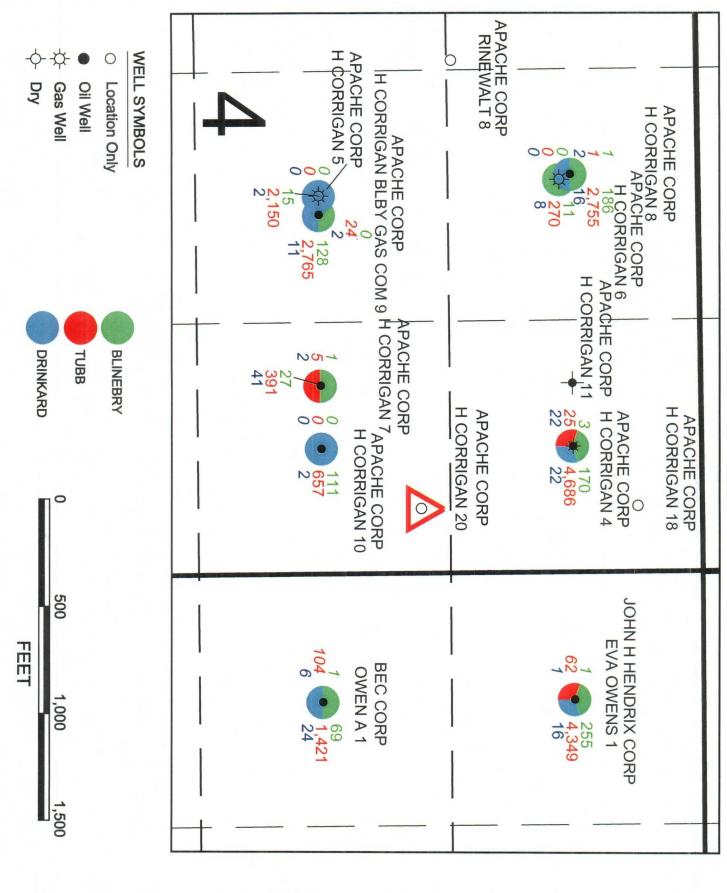
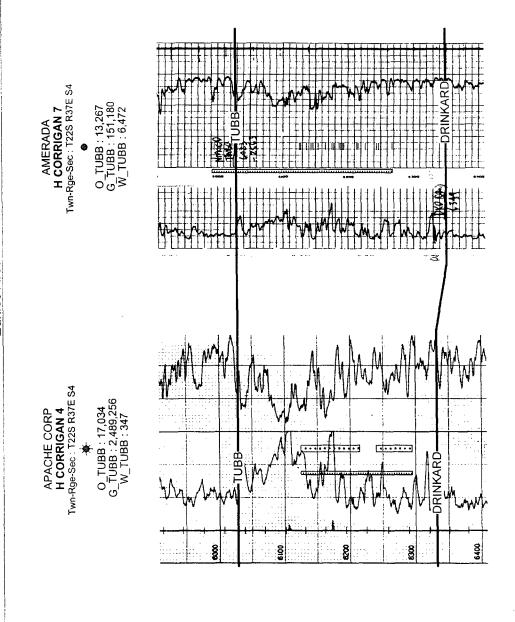






EXHIBIT 3

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Form 6-120

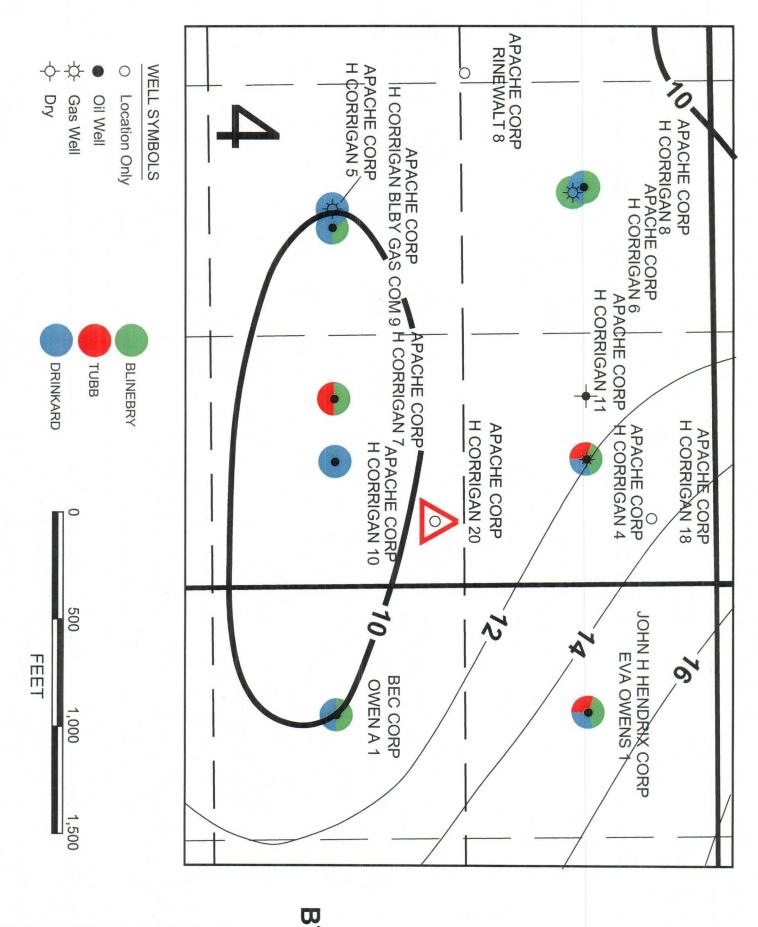
EXHIBIT 4

NEL _ EXICO OIL CONSERVATION COMMISSI .

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Well Location and Acreage Dedication Plat

| Section A. | | DateSeptember 5, 1962 |
|--|-----------------------------|--------------------------------------|
| Operator Amerada Petroleum (| the part of the second | |
| Uperator <u>Amerada Petroleum</u> | Section Lease H.C | ownship Range NM |
| Well No. Unit Letter | | Feet From North Li |
| Located 18801 Feet From County Lea C. | · Elevation a Ker 17 1 | Dedicated Acreage 10 Acr |
| Name of Producing Formation_ | Alinebry | Pool Blinebry |
| 1. Is the Operator the only | Cwner* in the dedicated ac: | reage outlined on the plat below? |
| Ýes 🛖 No | | |
| | | erests of all the owners been |
| • | - | ise? YesNo If answer is |
| "yes," Type of Consolidat | ion | |
| | two is "no," list all the | owners and their respective interest |
| below: | | |
| Owner | T | and Description |
| <u>omier</u> | | |
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| | | |
| Section.B | | |
| | | |
| | | This is to certify that the |
| | | information in Section A |
| | | above is true and complete |
| | | to the best of my knowledge |
| | | and belief. |
| 1 | 88 | |
| | | <u>- Amerada-Petroleum Corporat</u> |
| | | (Operator) |
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| | | Box 706 Eunice, New Mexic |
| | | Address |
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| | | plat in Section B was plot |
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