

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

SUBMIT IN TRIPLICATE\*  
(\*Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

|  |                       |   |  |
|--|-----------------------|---|--|
| 1 a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>   |                       | 5. LEASE DESIGNATION AND SERIAL NO.<br>UTU-68315                    |  |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER - COALBED METHANE <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE <input type="checkbox"/>          |                       | 6. IF INDIAN, ALLOTTEES OR TRIBE NAME                               |  |
| 2. NAME OF OPERATOR<br>ANADARKO PETROLEUM CORPORATION  |                       | 7. UNIT AGREEMENT NAME  |  |
| 3. ADDRESS AND TELEPHONE NO.<br>17001 Northchase Drive, Houston, Texas 77060 281/875-1101  |                       | 8. FARM OR LEASE NAME WELL NO.<br>Helper Federal D-3                |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>1224 FSL 1330 FWL, SW Section 26, T13S R10E<br>At proposed prod. zone<br>1224 FSL 1330 FWL, SW Section 26, T13S R10E |                       | 9. API WELL NO.   |  |
| <b>CONFIDENTIAL</b>  |                       | 10. FIELD AND POOL OR WILDCAT<br>Helper CBM                         |  |
|  |                       | 11. SEC. T.R.M. OR BLK. AND SURVEY OR AREA<br>Section 26, T13S R10E |  |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.<br>4 miles North of Price, Ut  |                       | 12. COUNTY<br>Carbon  | 13. STATE<br>Utah                              |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.<br>(Also to nearest drlg. unit line, if any)  | 1224'                 | 16. NO. OF ACRES IN LEASE<br>2058'                                  | 17. NO. OF ACRES ASSIGNED TO THIS WELL.<br>160 |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE. FT.   | 1901'                 | 19. PROPOSED DEPTH<br>3700'   | 20. ROTARY OR CABLE TOOLS<br>Rotary            |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>6326' GL   |                       | 22. APPROX. DATE WORK WILL START.<br>April 16 1999                  |  |
| 23. PROPOSED CASING AND CEMENTING PROGRAM  |                       |   |  |
| SIZE OF HOLE   | GRADE, SIZE OF CASING | WEIGHT PER FOOT   | SETTING DEPTH                                  |
| 12 1/4"  | 8 5/8" J-55           | 24#   | 300'   |
| 7-7/8"   | 5-1/2" N80            | 17#   | 3700   |
|  |                       |   | QUANTITY OF CEMENT                             |
|  |                       |   | 200 cu. ft.                                    |
|  |                       |   | 300 cu. ft.                                    |

Attached is the following:

1. Survey Plat
2. Drilling Plan with BOP Schematic, Figure 1-1
3. Surface Use Plan
4. Certification of Operator
5. Topo & Access Map & Area Map.
6. Pit & Pad Layout with cross sections of pit, pad, & rig layout.

The Cultural Resource Study was submitted under separate cover.

Nationwide BLM Oil & Gas Lease Bond Number 153571  
Utah Oil & Gas Lease Bond 224351 (expiration date 06-30-2000)  
Utah Bond of Lessee 203521

RECEIVED  
FEB 11 1999

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Bruce Darlington Sr. Drilling Engineer DATE 02/04/1999

(This space for Federal or State office use.) **Federal Approval of this Action is Necessary**

PERMIT NO. 43-007-30543 APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL IF ANY:

APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL RECLAMATION SPECIALIST III DATE 2/22/99

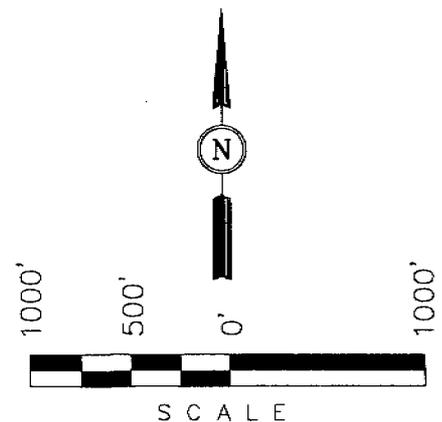
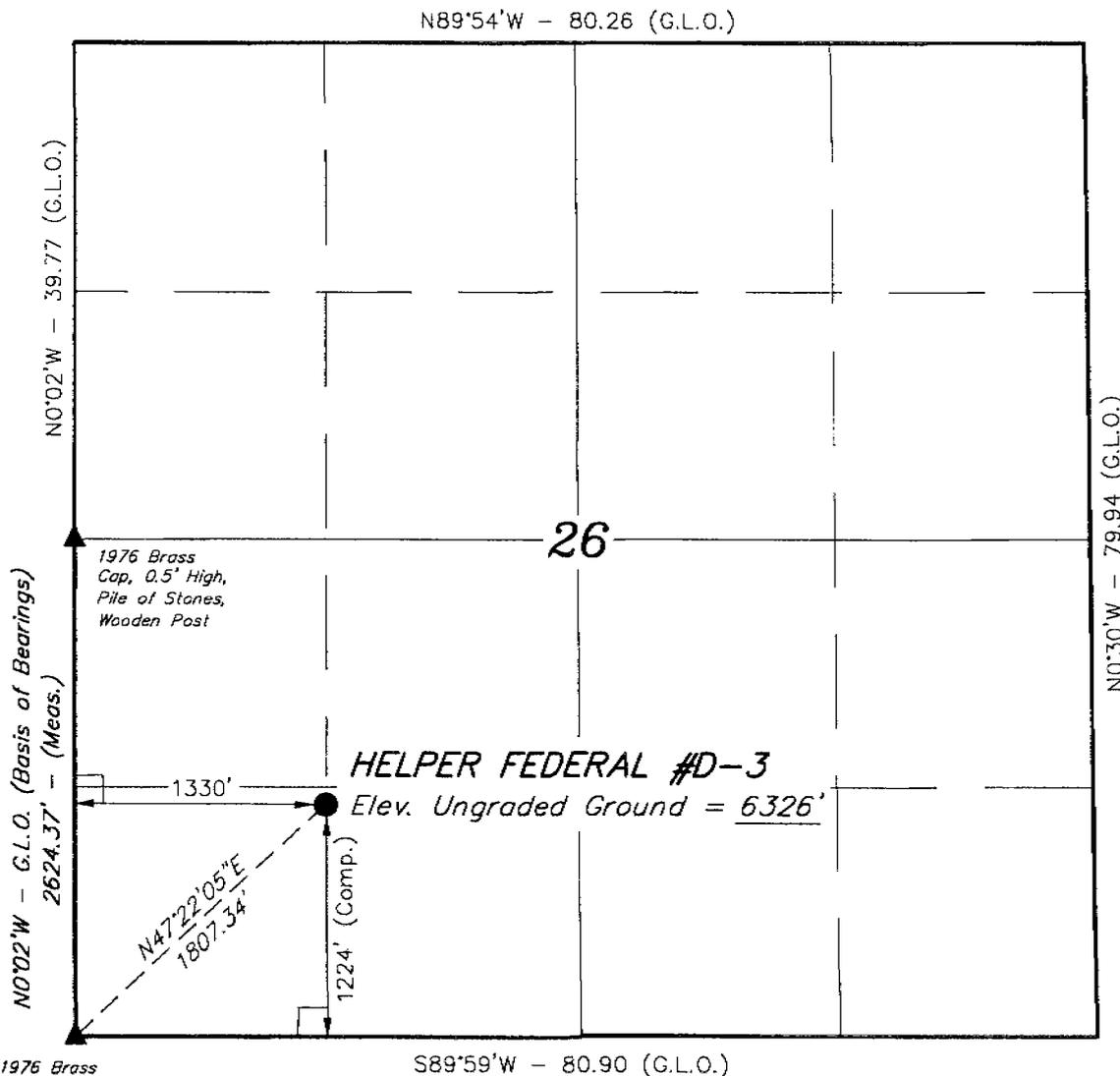
T13S, R10E, S.L.B.&M.

**ANADARKO PETROLEUM CORP.**

Well location, HELPER FEDERAL #D-3, located shown in the SE 1/4 SW 1/4 of Section 22, T13S, R10E, S.L.B.&M. Carbon County, Utah

BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE SE 1/4 OF SECTION 22, T13S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6530 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert McKay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

1976 Brass Cap, 0.5' High, Pile of Stones, Wooden Post

LEGEND:

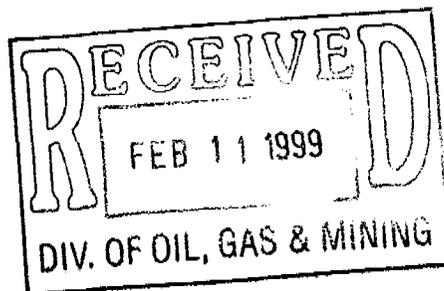
- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

|  |                                  |                         |
|--|----------------------------------|-------------------------|
| <b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> |                                  |                         |
| 85 SOUTH 200 EAST - VERNAL, UTAH 84078         |                                  |                         |
| (801) 789-1017                                 |                                  |                         |
| SCALE<br>1" = 1000'                            | DATE SURVEYED:<br>10-6-98        | DATE DRAWN:<br>10-16-98 |
| PARTY<br>K.K. T.A. D.COX                       | REFERENCES<br>G.L.O. PLAT        |                         |
| WEATHER<br>WARM                                | FILE<br>ANADARKO PETROLEUM CORP. |                         |



February 8, 1999

State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801



Attention: Lisha Cordova

RE: Applications for Permit to Drill  
Carbon County

Gentlemen:

Enclosed, in duplicate, are Applications for Permit to Drill (BLM Form 3160-3) for the wells listed on Attachment 1, in Carbon County. These applications have also been submitted to the Bureau of Land Management District Office in Moab this date, with a copy to the Bureau of Land Management Field Office in Price.

Estimated start-up date to begin drilling the first well is on or about April 16, 1999. Please call me at (281) 874-8766 if you require further information or have any questions.

Sincerely,

  
Judy Davidson  
Regulatory Analyst

JD/me  
enclosures

Attachment I  
 Helper Unit  
 Carbon County, Utah

| <i>Well Name</i>    | <i>Location At Surface</i> |     | <i>Sec</i> | <i>Twn</i> | <i>Rng</i> | <i>Lease</i>      |
|---------------------|----------------------------|-----|------------|------------|------------|-------------------|
| Helper Federal B-2  | 1540                       | FNL | 1554       | FWL        | 33         | 13S 10E UTU-71392 |
| Helper Federal B-3  | 1600                       | FSL | 1100       | FEL        | 33         | 13S 10E UTU-71392 |
| Helper Federal B-4  | 862                        | FNL | 855        | FEL        | 33         | 13S 10E UTU-71392 |
| Helper Federal B-6  | 1001                       | FNL | 2028       | FWL        | 27         | 13S 10E UTU-71392 |
| Helper Federal B-7  | 1676                       | FSL | 1929       | FWL        | 27         | 13S 10E UTU-71392 |
| Helper Federal B-8  | 1156                       | FSL | 1282       | FEL        | 27         | 13S 10E UTU-71392 |
| Helper Federal B-9  | 1501                       | FNL | 1312       | FWL        | 34         | 13S 10E UTU-71392 |
| Helper Federal B-10 | 1313                       | FNL | 1321       | FEL        | 34         | 13S 10E UTU-71392 |
| Helper Federal B-11 | 921                        | FSL | 1687       | FWL        | 34         | 13S 10E UTU-71392 |
| Helper Federal B-12 | 1847                       | FSL | 824        | FEL        | 34         | 13S 10E UTU-71392 |
| Helper Federal B-13 | 1303                       | FSL | 1421       | FEL        | 28         | 13S 10E UTU-71392 |
| Helper Federal B-14 | 1288                       | FSL | 1224       | FWL        | 28         | 13S 10E UTU-71392 |
| Helper Federal D-2  | 1597                       | FNL | 1021       | FWL        | 26         | 13S 10E UTU-68315 |
| Helper Federal D-3  | 1224                       | FSL | 1330       | FWL        | 26         | 13S 10E UTU-68315 |
| Helper Federal D-4  | 1273                       | FNL | 1277       | FWL        | 35         | 13S 10E UTU-68315 |
| Helper Federal D-5  | 1310                       | FSL | 1461       | FWL        | 35         | 13S 10E UTU-68315 |
| Helper Federal D-6  | 1848                       | FSL | 1560       | FEL        | 35         | 13S 10E UTU-68315 |
| Helper Federal E-1  | 2066                       | FSL | 1015       | FEL        | 29         | 13S 10E UTU-71675 |
| Helper Federal E-2  | 458                        | FSL | 1759       | FWL        | 29         | 13S 10E UTU-71675 |
| Helper Federal H-1  | 1134                       | FNL | 1636       | FWL        | 1          | 14S 10E UTU-72352 |
| Helper Federal H-2  | 1222                       | FSL | 1529       | FWL        | 1          | 14S 10E UTU-72352 |

**DRILLING PLAN  
TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL**

Company: Anadarko Petroleum Corporation

Well: Helper Federal D-3

Location: 1224 ' FSL & 1330' FWL  
T13S R10E Sec 26  
Carbon County, Utah

Lease: UTU-68315

Surface Elevation: 6326

A. Estimated Tops of Important Geologic Markers:

| <u>GEOLOGIC MARKER</u> | <u>DEPTH</u> |
|------------------------|--------------|
| Emery                  | Surface      |
| Bluegate Shale         | 1976         |
| Ferron SS Member       | 3076         |
| Ferron Coal Top        | 3091         |
| Base of Ferron Coal    | 3221         |
| Tununk Shale           | 3311         |

B. Estimated Depth at which Water, Oil, Gas or other Mineral-Bearing zones are expected to be encountered:

Gas-bearing Ferron Sandstone Member is expected to be encountered from: 3076 - 3221.

All fresh water zones and prospectively valuable mineral zones encountered during drilling will be recorded by depth and adequately protected. All significant oil and gas shows will be tested to determine commercial potential.

C. Pressure Control Equipment:

A 9" 3000 psi WP double gate hydraulic BOP with pipe rams and blind rams will be installed on the 8-5/8" casinghead. In addition to the BOP stack, a rotating head will be installed on top of the BOP to assist in safe air drilling operations. The BOP stack will be tested prior to drilling below surface casing. The ram preventers will be tested to 70% of the working pressure of the casinghead. The annular will be tested to 50% of its working pressure. Operational checks will be made daily or on trips. A BOP schematic is shown on attached Exhibit "A".

The BOP system will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order. This inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The accumulator system will meet IADC guidelines concerning pump capacities, storage capacity, and reservoir volume. Closing unit fluid volume will be sufficient to pre-charge the system to operating pressure plus 50% excess. One set of controls will be in the doghouse on the rig floor and one set will be remote on the drilling pad.

D. Casing Program

Surface Casing: 8-5/8", 24#, J55, LTC new casing will be set at approximately 300'.  
Production Casing: 5-1/2" 17#, N80, LTC, new casing will be set at TD if productive.

D. Casing Program (continued)

Casing Design Factors

The safety factors on casing strings will equal or exceed the following values:

|                |      |
|----------------|------|
| Collapse       | 1.0  |
| Joint Strength | 1.6  |
| Burst          | 1.33 |

E. Cement Program

Surface - Cement will be circulated to the surface. Casing will be cemented with approximately 200 cu. ft. of API Class 'G' cement.

Production - Casing will be cemented with approximately 300 cu. ft. of API Class 'G' cement. The actual cement volume will be based upon hole depth and gauge, and will be determined from logs.

Additional additives will be used to retard the cement, accelerate the cement, control lost circulation, or control fluid loss. All cementing will be done in accordance with API cementing practices.

The cement program will be modified to cover and adequately protected the Mancos Shale if water is encountered while drilling.

F. Mud Program and Circulating Medium:

A truck-mounted air drilling rig will be used to drill the surface hole to 300' and to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole to TD. An air or air/mist system will be used for drilling from below surface pipe at 400' to TD. The mud/fluid system will be monitored visually and with a gas chromatograph detector.

G. Coring, Logging, and Testing Program:

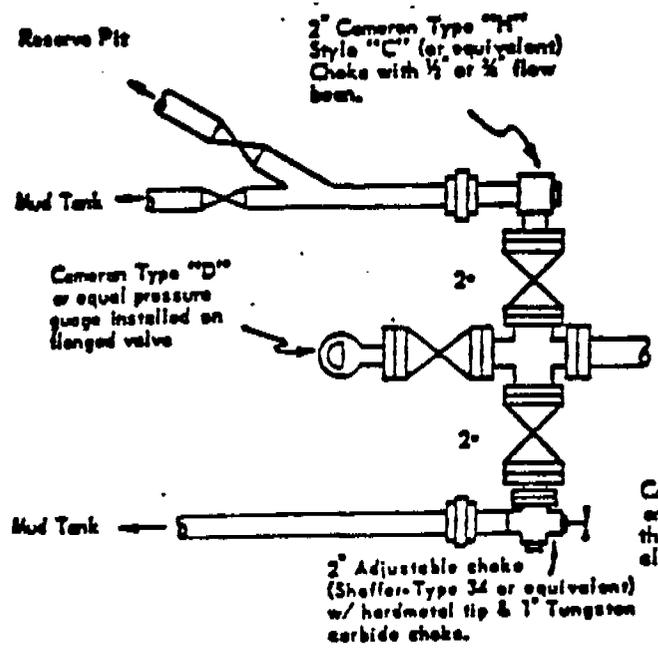
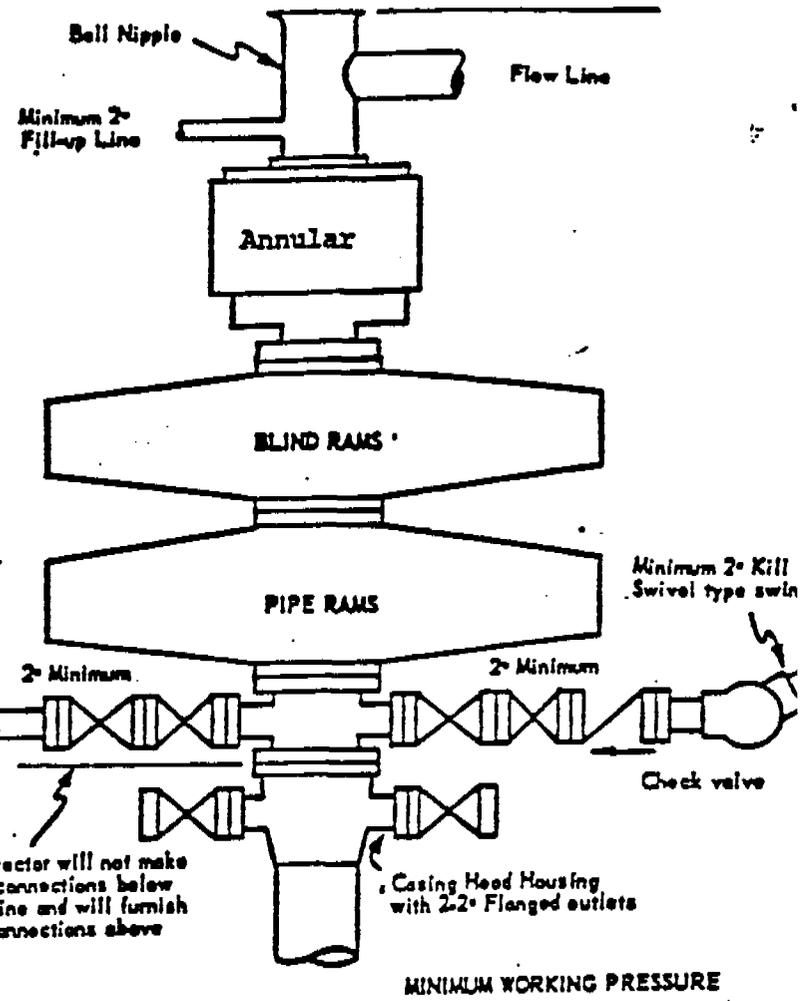
- a. Rotary sidewall coring in the Ferron Sandstone interval may be performed, depending upon shows and hole conditions.
- b. DST's may be run depending upon shows.
- c. The following logging program is planned:
  1. SDL-GR-CAL over prospective intervals..
  2. DIL- SP-GR-CAL over prospective intervals
- d. A mud logging unit with chromatograph will be used from approximately 1000' to TD.
- e. After production casing is installed, a cement bond log will be run to determine the top of cement. Productive zones will then be perforated and swab tested. Water produced during testing will be contained in the temporary reserve pit. All produced oil will be stored and sold. Gas will be flared during testing.

H. Abnormal Conditions and Potential Hazards:

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Reservoir pressure is only anticipated to be 1200 psi. Potential hazards such as H<sub>2</sub>S are also not anticipated.

Base of rotary table  
or floor beams

Minimum, 6 inches



Contractor will not make any connections below this line and will furnish all connections above



MINIMUM BLOWOUT PREVENTER  
REQUIREMENTS - NORMAL  
PRESSURE SERVICE

## SURFACE USE PLAN

Anadarko Petroleum Corporation  
Ferron Natural Gas Project  
Helper Field  
Carbon Co., Utah

1. Existing Roads: (Please reference Topo, Access, and Area Map)
  - a. Location of the proposed well is approximately 2-3 miles north of Price, Utah.
  - b. Proposed route to location: (Reference Topo, Access, and Area Map).
  - c. Location and description of roads in the area: (Reference Topo, Access, and Area Map).
  - d. Plans for improvement and/or maintenance of existing roads: The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and in accordance with the Ferron Natural Gas EIS.
  
2. Planned Access Roads:
  - a. Access Roads will be constructed using standard equipment and techniques such as the crown-and-ditch method (BLM 1989). Heavy equipment will clear vegetation and topsoil materials from the road surface. Both materials will be windrowed for future redistribution during reclamation. All roads will be constructed with , adequate drainage and erosion control features/structures (e.g., cut and fill slopes and drainage ditch stabilization, relief and drainage culverts, water bars, wing ditches, and rip-rap). When needed, four inches of sand and gravel will be placed on newly constructed roads to provide a year round travel way surface. The maximum disturbed width will not exceed 30' with a sixteen foot running surface. Dust will be controlled by the use of water or an approved dust retardant, as directed by the Price Field Office Manager. All roads will be maintained in as good or better condition than existing condition and in accordance with the Ferron Natural Gas EIS.
  - b. Maximum grades: Maximum road grades will not exceed 15%.
  - c. Location: New roads that will be constructed for access off of the existing roads are flagged. (Refer to isubmitted Topographic, Access, and Area Maps).
  - d. Drainage: The road surface will be center crowned with ditches on each side of road. Slopes will have a maximum slope of 3:1.
  - e. Culverts will be used where necessary during the drilling phase of operations. Further evaluation will be made for the additions of culverts if the road is to have long-term use.
  - f. Surface materials (source): Surface materials will be most likely not be required to be transported to the access road or drillpad for construction purposes. However, if gravel is required, the dirt contractor will be responsible for locating and permitting of any necessary construction material.

3. Locations of existing wells:

**Helper Field - Ferron Natural Gas Project  
Existing Well Locations**

| <b>Well Name</b>   | <b>Location</b>             | <b>Sec</b> | <b>Twn</b> | <b>Rng</b> |
|--------------------|-----------------------------|------------|------------|------------|
| Federal A-1        | SW 1141' FSL & 1325' FWL    | 23         | 13S        | 10E        |
| Federal A-2        | 1464 FSL & 2244 FWL         | 22         | 13S        | 10E        |
| Federal A-3        | 1271 FSL & 324 FEL          | 22         | 13S        | 10E        |
| Federal B-5        | 1139 FNL & 629 FEL          | 27         | 13S        | 10E        |
| Federal C-1        | 2169 FNL & 697 FEL          | 22         | 13S        | 10E        |
| Federal B-1        | 1650 FSL & 2310             | 33         | 13S        | 10E        |
| Federal D-1        | SW NE 1413' FNL & 1567' FEL | 26         | 13S        | 10E        |
| State A-1          | NW 1621' FNL & 2019' FWL    | 3          | 14S        | 10E        |
| State D-7          | SW 1500' FSL & 1200' FWL    | 4          | 14S        | 10E        |
| Birch A-1          | SW 1507' FSL & 856' FWL     | 5          | 14S        | 10E        |
| State D-3          | 691' FNL & 1006' FEL        | 5          | 14S        | 10E        |
| State D-6          | 1300' FSL & 999' FEL        | 5          | 14S        | 10E        |
| Helper Federal F-3 | 698' FNL & 1302' FEL        | 8          | 14S        | 10E        |
| Helper Federal F-4 | 1294' FNL & 1182' FWL       | 9          | 14S        | 10E        |
| Helper State A-2   | 1321' FNL & 464' FEL        | 3          | 14S        | 10E        |
| Helper State A-3   | 1200' FNL & 900' FWL        | 2          | 14S        | 10E        |
| Helper State A-4   | 1100' FNL & 1700' FEL       | 2          | 14S        | 10E        |
| Helper State A-5   | 1816' FSL & 2201' FWL       | 3          | 14S        | 10E        |
| Helper State A-6   | 2288' FSL & 820' FEL        | 3          | 14S        | 10E        |
| Helper State A-7   | 1635' FSL & 1497' FWL       | 2          | 14S        | 10E        |
| Helper State A-8   | 1700' FSL & 2000' FEL       | 2          | 14S        | 10E        |
| Helper State A-9   | 1335' FNL & 1602' FWL       | 10         | 14S        | 10E        |
| Helper State B-1   | 1595' FNL & 1406' FEL       | 9          | 14S        | 10E        |
| Helper State D-4   | 1681' FNL & 1232' FWL       | 4          | 14S        | 10E        |
| Helper State D-5   | 644' FNL & 2165' FEL        | 4          | 14S        | 10E        |
| Helper State D-8   | 1059' FSL & 395' FEL        | 4          | 14S        | 10E        |
| Birch A-2          | 945' FNL & 825' FWL         | 8          | 14S        | 10E        |
| Helper SWD #1      | 1131' FSL & 2194' FWL       | 3          | 14S        | 10E        |
| HELPER STATE A-10  | 1275' FNL & 2306' FEL       | 10         | 14S        | 10E        |
| HELPER STATE A-11  | 1450' FNL & 1206' FWL       | 11         | 14S        | 10E        |
| HELPER STATE A-12  | 2130' FSL & 1180' FWL       | 10         | 14S        | 10E        |
| HELPER STATE A-13  | 2431' FSL & 736' FEL        | 10         | 14S        | 10E        |
| HELPER STATE B-2   | 2438' FSL & 1090' FEL       | 9          | 14S        | 10E        |
| HELPER STATE D-1   | 1131' FNL & 429' FEL        | 6          | 14S        | 10E        |
| HELPER STATE D-2   | 1000' FNL & 2058' FWL       | 5          | 14S        | 10E        |
| VEA A-1            | 1731' FNL & 1291' FWL       | 32         | 13S        | 10E        |
| VEA A-2            | 1307' FNL & 842' FEL        | 32         | 13S        | 10E        |
| VEA A-3            | 700' FSL & 1641' FWL        | 32         | 13S        | 10E        |
| VEA A-4            | 1000' FNL & 2058' FWL       | 32         | 13S        | 10E        |
| CHUBBUCK A-1       | 2017' FSL & 676' FEL        | 31         | 13S        | 10E        |

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee and in accordance with the EIS for the Ferron Natural Gas Project. This will include all facilities except those required to comply with O.S.H.A. (Occupational Safety and Health Act) regulations. These will be painted the color stipulated by O.S.H.A. All facilities will be painted within six months of installation.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

If at any time, any off-lease storage, off-lease measurement, or commingling on-lease or off-lease occurs, there shall first be prior written approval from the AO.

Gas meter runs for each well, if needed, will be located within 500 feet of the wellhead. the gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on each well location. The oil and gas meters will be calibrated in place prior to any deliveries. Test for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to Price Field Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

Water supply for drilling and completion purposes will be furnished by a water hauler and will be obtained from the Price River Municipal Water District located nearby.

6. Source of Construction Material:

Native material will be used for road surfacing and pad construction. Should additional construction material be required, it will be the responsibility of the dirt contractor to locate and permit (if necessary) use of that material. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3 and the EIS for the Ferron Natural Gas Project..

7. Methods of Handling Waste Disposal

All reserve pits will be lined.

Produced waste water will be confined to a lined pits for a period not to exceed 90-days after initial production.

Trash will be confined in covered containers and hauled to an approved landfill. Burning of waste or oil is not approved, and spoil material will be kept on site for recontouring.

No bore holes will be used for disposal of waste materials. Human waste will be contained and will be disposed of at an approved sanitary landfill.

8. Ancillary Facilities:

Associated roads, pipelines, and electric lines will be installed as per attached Figure 2-1.

9. Wellsite Layout:

*Please refer to the submitted site layout diagram.*

The locations and access roads will be cleared of trees prior to any construction. Stumps will be scattered or buried in an area designated by the BLM. Any stump left in place will be cut so that the stump height does not exceed 12 inches. All slash less than four inches in diameter will be chipped or scattered outside the cleared area and must be within 24 inches of the ground at all points. All material four inches in diameter or greater will be removed from Federal land, unless otherwise directed. All of the above will take place prior to placement of drilling facilities.

Topsoil and vegetation will be stripped together to a depth of 6 to 8 inches and stockpiled by wind-row on the northeast edge of the location. No topsoil stripping will be allowed when soils are moisture saturated to a depth of 3 inches, or frozen below the stripping depth.

The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. Fencing will be four strands of barbed wire or 48-inch woven wire with one strand of barbed wire above the woven wire. All corners will be braced with a wooden H-type brace. The fence construction will be on cut or undisturbed ground and the fence will be maintained in a livestock tight condition.

10. Plans for Restoration of Surface:

The Price Field Office Manager will be notified at least 24-hours prior to commencing reclamation work.

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash, and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

*If well is completed as a producer:*

Unneeded areas of the location will be reclaimed as soon as the reserve pit has dried. The access road will be upgraded and maintained as necessary to prevent soil erosion and accommodate year-round traffic. Reshape areas unnecessary to operations, rip or disk on the contour, and seed all disturbed area outside the work area according to the seed mixture specified in the EIS for the Ferron Natural Gas Project. Save the topsoil for use during final reclamation unless the site can be recontoured to blend with the natural topography as required for final abandonment. Perennial vegetation must be established. Additional work will be required in case of seeding failures. All permanent facilities placed on the locations will be painted to blend with the natural environment.

10. Plans for Restoration of Surface (Continued):

*If well is abandoned/dry hole:*

Restore the access road and location to blend with the natural topography. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the locations and re-seed according to the EIS for the Ferron Natural Gas Project. The access roads and locations will be ripped or disked prior to seeding.

Prepare seed-bed by contour cultivating four to six inches deep. Drill seed 1/2 to 1 inch deep following the contour. In areas that cannot be drilled, broadcast seed at 1.5 times the application rate and cover 1/2 to 1 inch deep with a harrow or drag-bar.

Fall seeding will be completed after September 1 and prior to ground frost. Spring seeding will be completed after the frost has left the ground and prior to June 1.

11. Surface and Minerals Ownership:

The surface and the minerals are owned by the United States of America, Department of the Interior, Bureau of Land Management.

12. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFT 3162.2 and in accordance with the EIS for the Ferron Natural Gas Project.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.2.

The dirt contractor will be provided with an approved copy of the APD & Surface Use Plan.

An archaeology survey for the proposed well has been performed by Montgomery & Associates and this survey has been submitted to the Utah State Historical Preservation Office (SHPO), Price District BLM, Moab District BLM and the Price Field Office.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts or fossils. The Operator will immediately bring to the attention of the Price Field Office Manager any and all antiquities or other objects of historic or scientific interest including, but not limited to, historic or prehistoric ruins, artifacts, or fossils discovered as a result of operations under this permit. The operator will immediately suspend all activities in the area of the object and will leave such discoveries intact until told to proceed by the Price Field Office Manager. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation will be by a qualified professional selected by the Price Field Office Manager from a Federal Agency insofar as practical. When not practical, the Operator will follow the mitigation requirements set forth by the Price Field Office Manager concerning protection, preservation, or disposition of any sites or material discovered. Within five working days the Price Field Office Manager will inform the Operator as to:

12. Other Information (Continued):

Whether materials appear eligible for the National Register of Historic Places;

the mitigation measure(s) the Operator will likely have to undertake before the site

can be used (assuming in situ preservation is not necessary); and,

a time frame for the Price Field Office Manager to complete an expedited review under 36 CFR 800.11 to conform, through the State Historic Preservation Officer, that the findings of the Price Field Office Manager are correct and that mitigation is appropriate.

If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Price Field Office Manager will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, in those situations where the Price Field Office Manager determines that mitigation, data recovery and/or salvage excavations are necessary, the Operator will bear the cost. The Price Field Office Manager will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Price Field Office Manager that the required mitigation has been completed, the Operator will then be allowed to resume construction.

13. Lessee's or Operator's Representatives and Certification:

REPRESENTATIVE

Name: Bruce Darlington  
Phone: 281-874-1673  
Address: Anadarko Petroleum Corporation  
17001 Northchase Drive  
Houston, Texas 77060

CERTIFICATION

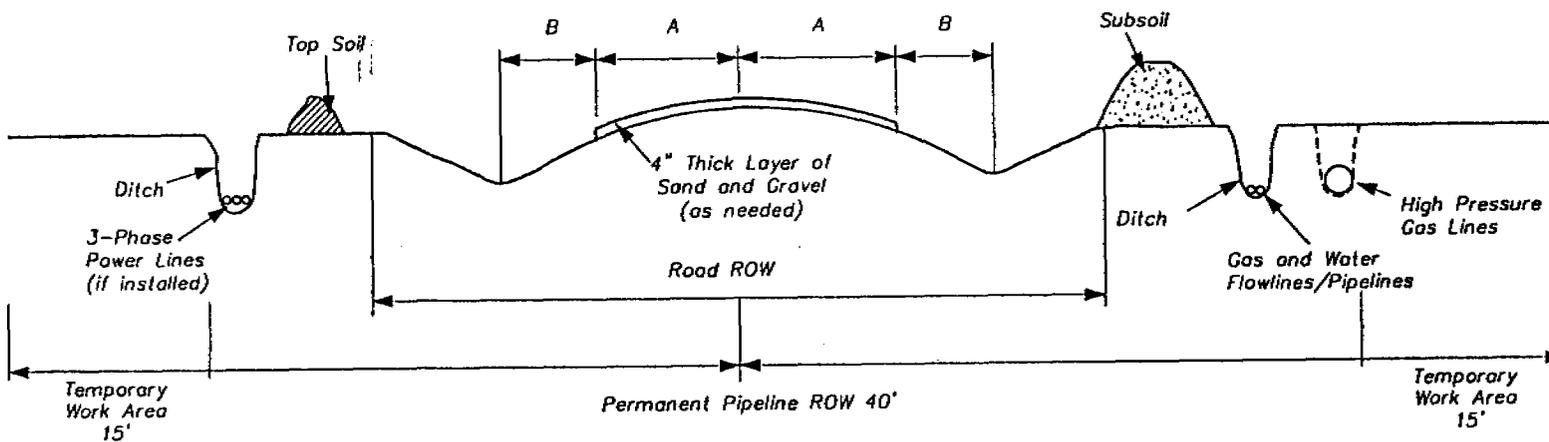
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsites and access routes, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by

ANADARKO PETROLEUM CORPORATION

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

02-03-99  
Date

  
Bruce Darlington  
Sr. Drilling Engineer



|                | Surfaced Travel Way Width (ft.) | A (ft.) | B (ft.) | Approximate Disturbance Width (ft.) | Total ROW Width (ft.) |
|----------------|---------------------------------|---------|---------|-------------------------------------|-----------------------|
| Resource Road  | 16                              | 8       | 4       | 70                                  | 40                    |
| Local Road     | 20                              | 10      | 4       | 70                                  | 40                    |
| Collector Road | 24                              | 12      | 4       | 70                                  | 40                    |

Not To Scale

**Figure 2-1**  
**Typical Roadbed**  
**and Pipeline/Utility Trench Cross Section**



17001 NORTHCHASE DRIVE, HOUSTON, TX 77060  
(281) 875-1101

February 5, 1999

Bureau of Land Management  
82 East Dogwood  
Moab, Utah 84532

RE:

| Well Name           | Location At Surface |     |      | Sec | Tw | Rng | Lease         |
|---------------------|---------------------|-----|------|-----|----|-----|---------------|
| Helper Federal B-2  | 1540                | FNL | 1554 | FWL | 33 | 13S | 10E UTU-71392 |
| Helper Federal B-3  | 1600                | FSL | 1100 | FEL | 33 | 13S | 10E UTU-71392 |
| Helper Federal B-4  | 862                 | FNL | 855  | FEL | 33 | 13S | 10E UTU-71392 |
| Helper Federal B-6  | 1001                | FNL | 2028 | FWL | 27 | 13S | 10E UTU-71392 |
| Helper Federal B-7  | 1676                | FSL | 1929 | FWL | 27 | 13S | 10E UTU-71392 |
| Helper Federal B-8  | 1156                | FSL | 1282 | FEL | 27 | 13S | 10E UTU-71392 |
| Helper Federal B-9  | 1501                | FNL | 1312 | FWL | 34 | 13S | 10E UTU-71392 |
| Helper Federal B-10 | 1313                | FNL | 1321 | FEL | 34 | 13S | 10E UTU-71392 |
| Helper Federal B-11 | 921                 | FSL | 1687 | FWL | 34 | 13S | 10E UTU-71392 |
| Helper Federal B-12 | 1847                | FSL | 824  | FEL | 34 | 13S | 10E UTU-71392 |
| Helper Federal B-13 | 1303                | FSL | 1421 | FEL | 28 | 13S | 10E UTU-71392 |
| Helper Federal B-14 | 1288                | FSL | 1224 | FWL | 28 | 13S | 10E UTU-71392 |
| Helper Federal D-2  | 1597                | FNL | 1021 | FWL | 26 | 13S | 10E UTU-68315 |
| Helper Federal D-3  | 1224                | FSL | 1330 | FWL | 26 | 13S | 10E UTU-68315 |
| Helper Federal D-4  | 1273                | FNL | 1277 | FWL | 35 | 13S | 10E UTU-68315 |
| Helper Federal D-5  | 1310                | FSL | 1461 | FWL | 35 | 13S | 10E UTU-68315 |
| Helper Federal D-6  | 1848                | FSL | 1560 | FEL | 35 | 13S | 10E UTU-68315 |
| Helper Federal E-1  | 2066                | FSL | 1015 | FEL | 29 | 13S | 10E UTU-71675 |
| Helper Federal E-2  | 458                 | FSL | 1759 | FWL | 29 | 13S | 10E UTU-71675 |
| Helper Federal H-1  | 1134                | FNL | 1636 | FWL | 1  | 14S | 10E UTU-72352 |
| Helper Federal H-2  | 1222                | FSL | 1529 | FWL | 1  | 14S | 10E UTU-72352 |

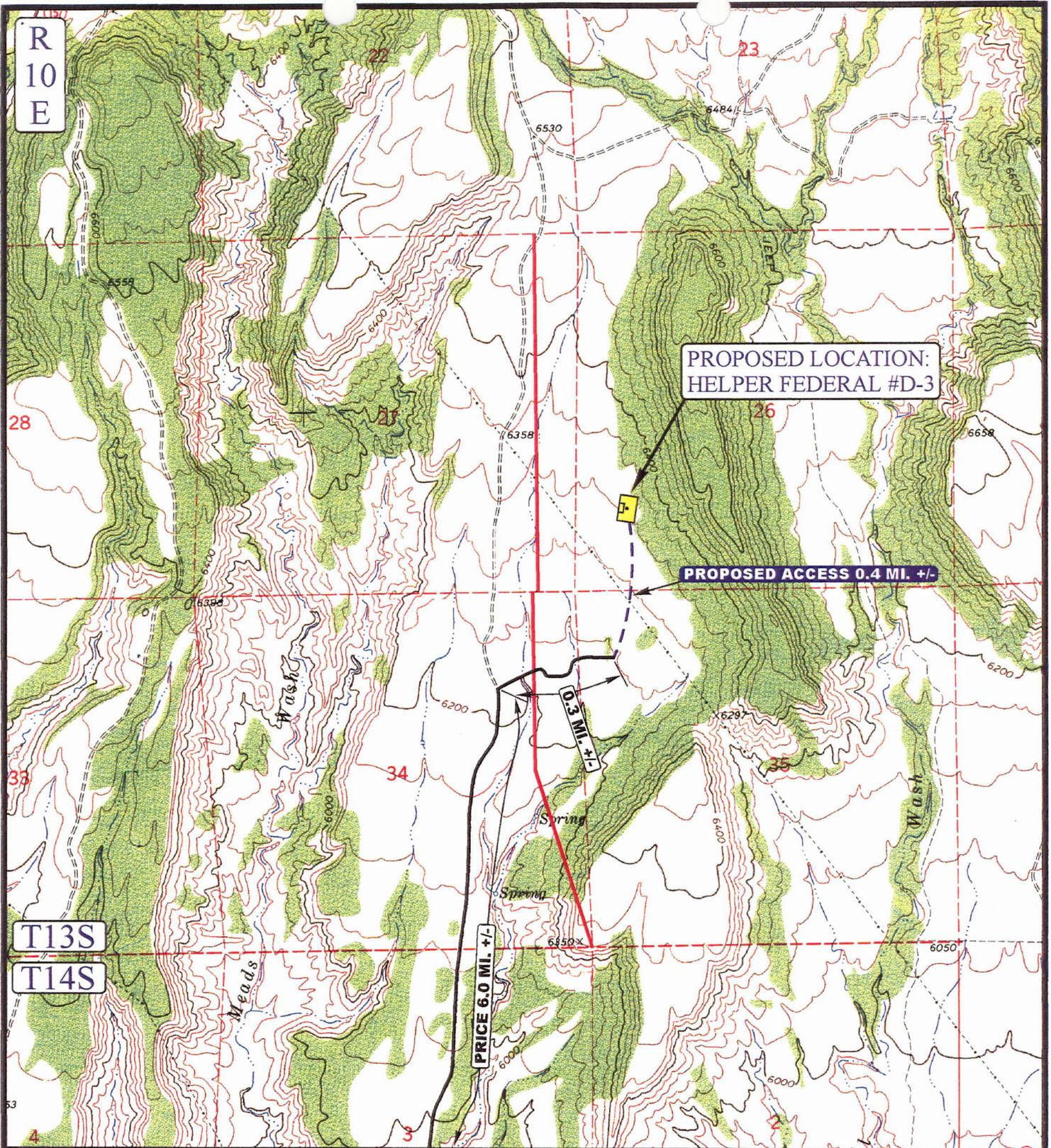
To Whom it May Concern:

Please be advised that Anadarko Petroleum Corporation is considered to be the operator of the subject wells and is responsible under terms and conditions of the lease for the operations conducted on the leased lands. Bond coverage for these subject wells is provided by BLM Bond No. 153571 via surety consent as provided for in 43 CFR 3104.2.

The aforementioned operator and bond will be held liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

Sincerely,

Bruce Darlington  
Sr. Drilling Engineer



PROPOSED LOCATION:  
HELPER FEDERAL #D-3

PROPOSED ACCESS 0.4 MI. +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**ANADARKO PETROLEUM CORP.**

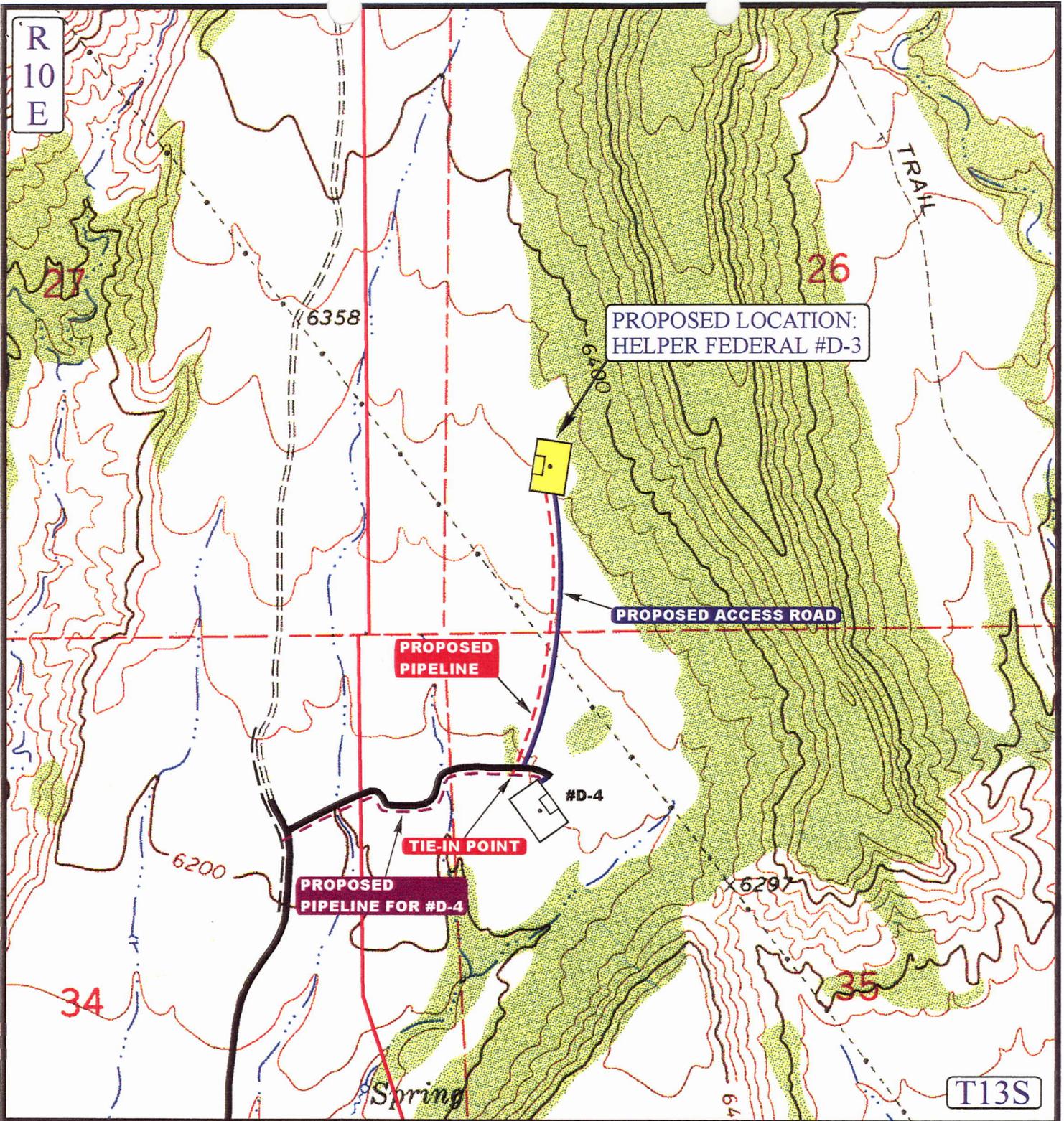
HELPER FEDERAL #D-3  
SECTION 26, T13S, R10E, S.L.B.&M.  
1224' FSL 1330' FWL



**UEIS**  
 Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

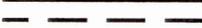
**TOPOGRAPHIC MAP** **10 13 98**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

**B**  
TOPO



**APPROXIMATE TOTAL PIPELINE DISTANCE = 2100' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS

**ANADARKO PETROLEUM CORP.**

HELPER FEDERAL #D-3  
SECTION 26, T13S, R10E, S.L.B.&M.  
1224' FSL 1330' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

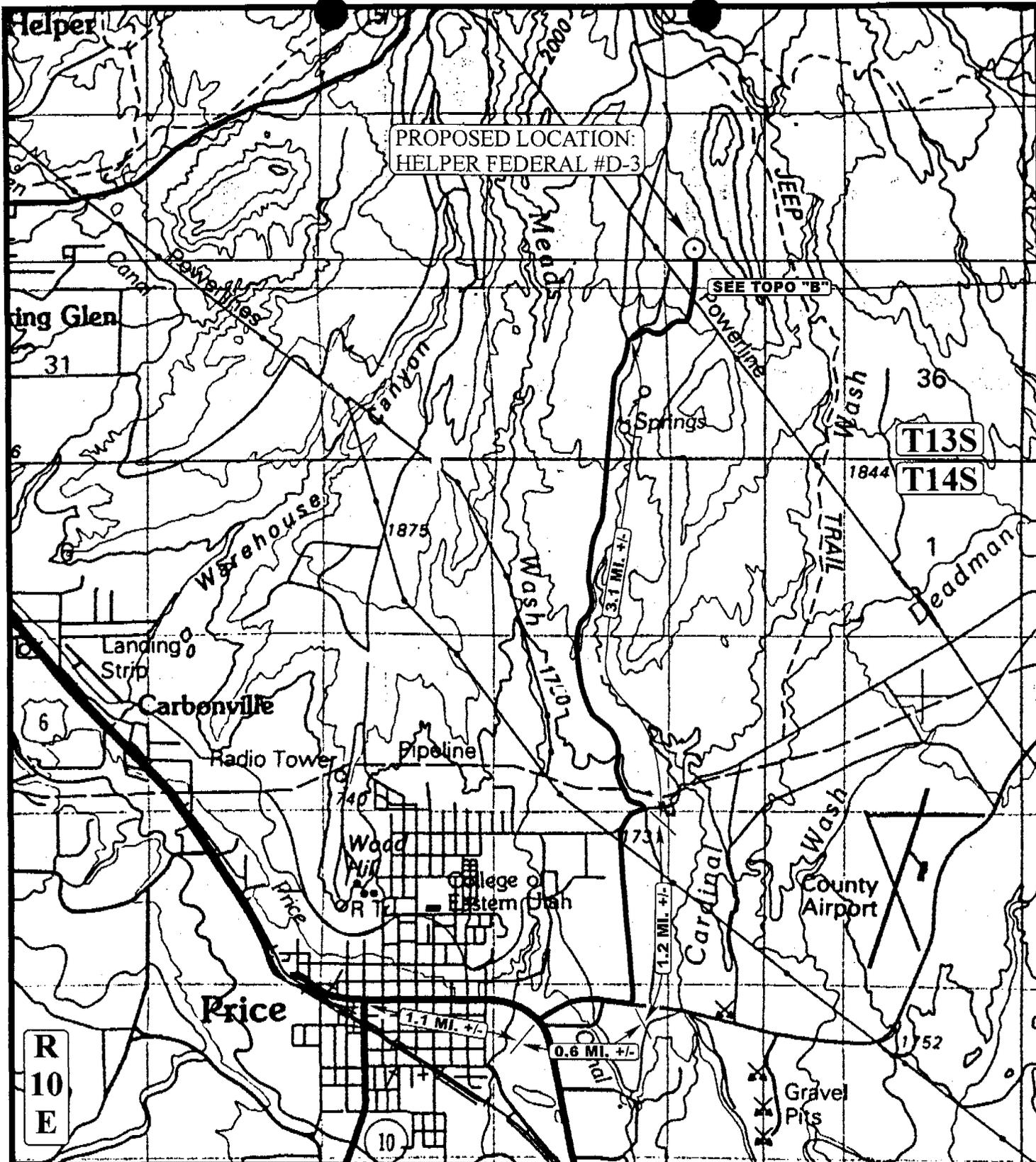
|           |          |           |
|-----------|----------|-----------|
| <b>10</b> | <b>9</b> | <b>98</b> |
| MONTH     | DAY      | YEAR      |

SCALE: 1" = 1000'

DRAWN BY: J.L.G.

REVISED: 00-00-00





PROPOSED LOCATION:  
HELPER FEDERAL #D-3

SEE TOPO "B"

T13S

T14S

R  
10  
E

LEGEND:

○ PROPOSED LOCATION



ANADARKO PETROLEUM CORP.

HELPER FEDERAL #D-3  
SECTION 26, T13S, R10E, S.L.B.&M.  
1224' FSL 1330' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1018

TOPOGRAPHIC 10 13 98  
MAP MONTH DAY YEAR

SCALE: 1" = 4000' DRAWN BY: J.L.G. REVISED: 00-00-00

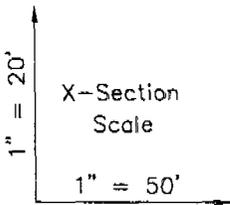




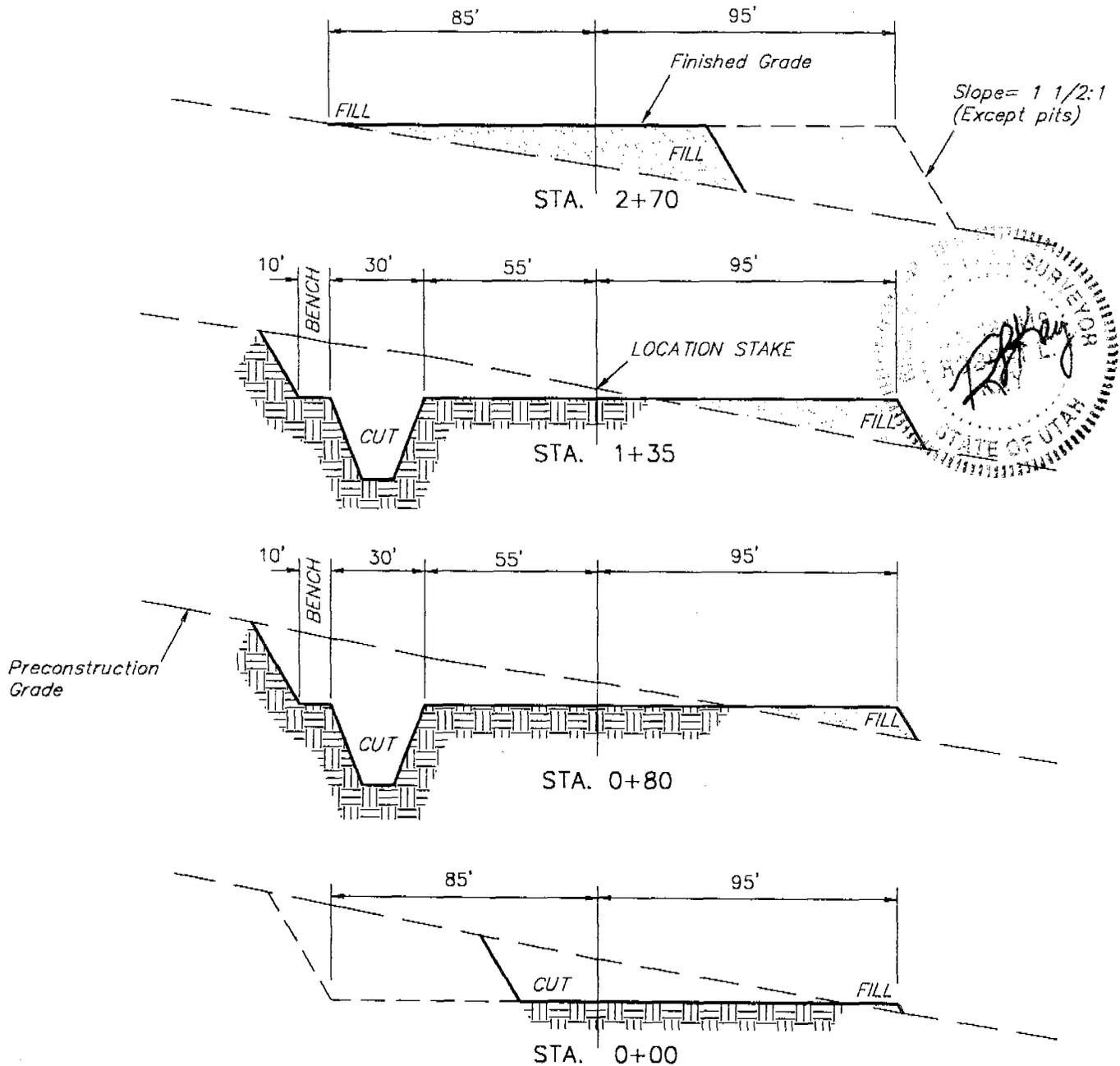
# ANADARKO PETROLEUM CORP.

## TYPICAL CROSS SECTIONS FOR

HELPER FEDERAL #D-3  
SECTION 26, T13S, R10E, S.L.B.&M.  
1224' FSL 1330' FWL



DATE: 10-16-98  
Drawn By: D.COX



### APPROXIMATE YARDAGES

|                        |                        |
|------------------------|------------------------|
| CUT                    |                        |
| (6") Topsoil Stripping | = 900 Cu. Yds.         |
| Remaining Location     | = 4,530 Cu. Yds.       |
| <b>TOTAL CUT</b>       | <b>= 5,430 CU.YDS.</b> |
| <b>FILL</b>            | <b>= 4,050 CU.YDS.</b> |

|   |                  |
|---|------------------|
| EXCESS MATERIAL AFTER 5% COMPACTION     | = 1,170 Cu. Yds. |
| Topsoil & Pit Backfill (1/2 Pit Vol.)   | = 1,170 Cu. Yds. |
| EXCESS UNBALANCE (After Rehabilitation) | = 0 Cu. Yds.     |

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/11/1999

API NO. ASSIGNED: 43-007-30543

WELL NAME: HELPER FED D-3  
 OPERATOR: ANADARKO PETROLEUM CORP (N0035)  
 CONTACT: Gudy Davidson (281) 874-8766

PROPOSED LOCATION:  
 SESW 26 - T13S - R10E  
 SURFACE: 1224-FSL-1330-FWL  
 BOTTOM: 1224-FSL-1330-FWL  
 CARBON COUNTY  
 HELPER FIELD (018)

|                        |          |      |
|------------------------|----------|------|
| INSPECT LOCATN BY: / / |          |      |
| TECH REVIEW            | Initials | Date |
| Engineering            |          |      |
| Geology                |          |      |
| Surface                |          |      |

LEASE TYPE: FED  
 LEASE NUMBER: UTU-68315  
 SURFACE OWNER: Federal

PROPOSED FORMATION: FRSD

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal  State  Fee   
 (No. 153571, etc.)
- Potash (Y/N)
- Oil Shale (Y/N) \*190-5(B)
- Water Permit  
 (No. PRWID / City of Price)
- RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit \_\_\_\_\_
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit  
 Board Cause No: 241-1 (160')  
 Date: 1-2-98

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

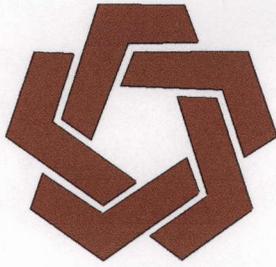
\_\_\_\_\_

STIPULATIONS: ① FEDERAL APPROVAL

\_\_\_\_\_

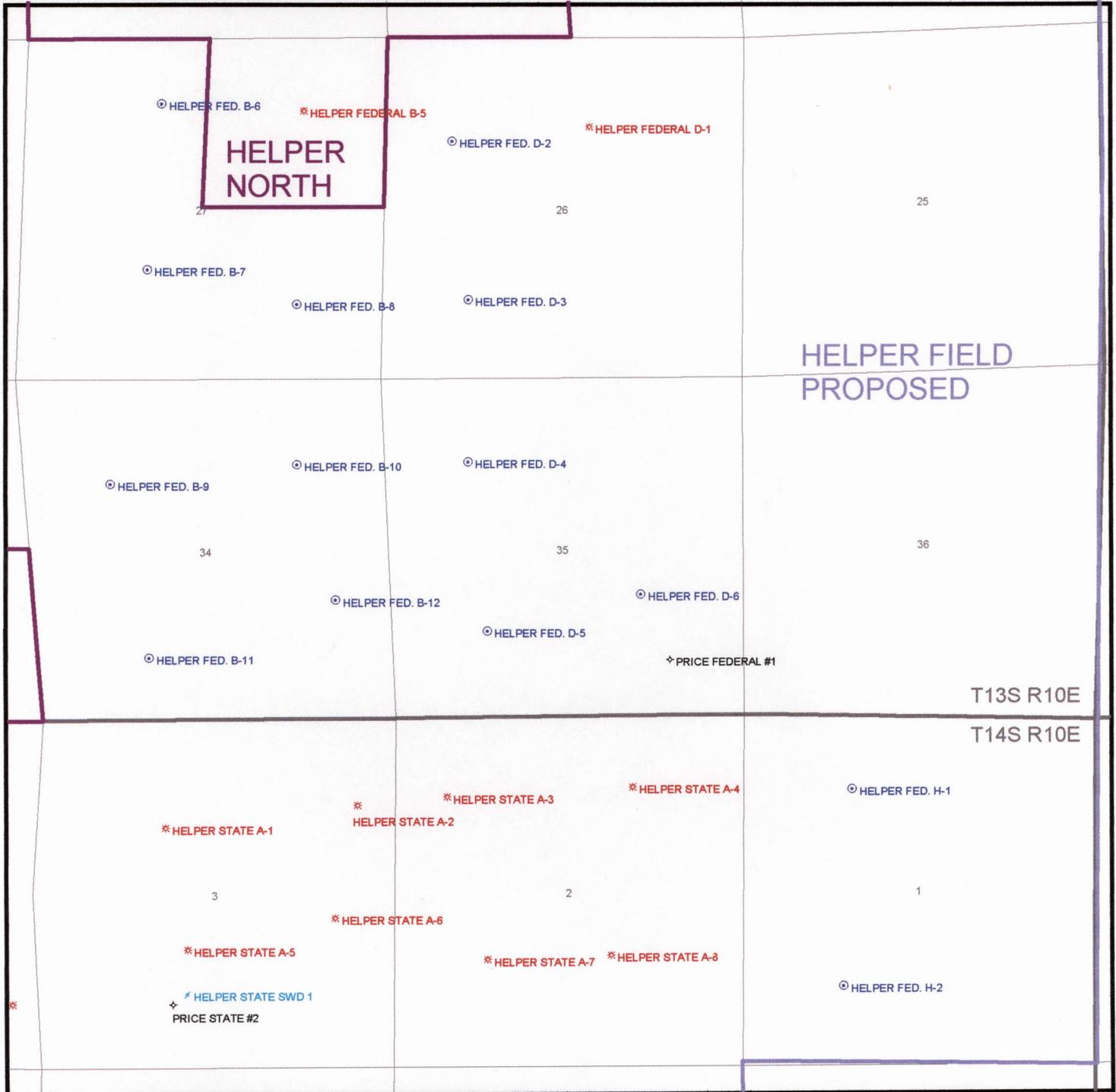
\_\_\_\_\_

\_\_\_\_\_



OPERATOR: ANADARKO PETROLEUM CORP (N1070)  
FIELD: HELPER PROPOSED (018)  
SEC. 26,27,28,29,33,34,35 & 1, TWP 13 & 14S, RNG 10E  
COUNTY: CARBON UNIT: NONE

Department of Natural Resources  
Division of Oil, Gas & Mining



PREPARED  
DATE: -FEB-1999



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

February 22, 1999

Anadarko Petroleum Corporation  
17001 Northchase Drive  
Houston, Texas 77060

Re: Helper Federal D-3 Well, 1224' FSL, 1330' FWL, SE SW, Sec. 26, T. 13 S., R. 10 E.,  
Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30543.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza  
Associate Director

lwp

Enclosures

cc: Carbon County Assessor  
Bureau of Land Management, Moab District Office

**Operator:** Anadarko Petroleum Corporation

**Well Name & Number:** Helper Federal D-3

**API Number:** 43-007-30543

**Lease:** Federal      **Surface Owner:** Federal

**Location:** SE SW      **Sec.** 26      **T.** 13 S.      **R.** 10 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well. Contact Carol Daniels at (801)538-5284.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

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

IN TRIPLICATE\*  
Instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

49-28

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

|  |                       |                 |  |   |
|--|-----------------------|-----------------|--|---|
| 1 a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>   |                       |                 | 5. LEASE DESIGNATION AND SERIAL NO.<br>UTU-68315     |   |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER - COALBED METHANE <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE <input type="checkbox"/>          |                       |                 | 6. IF INDIAN, ALLOTTEES OR TRIBE NAME                |   |
| 2. NAME OF OPERATOR<br>ANADARKO PETROLEUM CORPORATION  |                       |                 | 7. UNIT AGREEMENT NAME                               |   |
| 3. ADDRESS AND TELEPHONE NO.<br>17001 Northchase Drive, Houston, Texas 77060 281/875-1101  |                       |                 | 8. FARM OR LEASE NAME WELL NO.<br>Helper Federal D-3 |   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>1224 FSL 1330 FWL, SW Section 26, T13S R10E<br>At proposed prod. zone<br>1224 FSL 1330 FWL, SW Section 26, T13S R10E |                       |                 | 9. API WELL NO.<br>4300730543                        |   |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.<br>4 miles North of Price, Ut  |                       |                 | 12. COUNTY<br>Carbon                                 |   |
|  |                       |                 | 13. STATE<br>Utah                                    |   |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.<br>(Also to nearest drlg. unit line, if any)  |                       | 1224'           | 16. NO. OF ACRES IN LEASE<br>2058'                   | 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>160 |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.   |                       | 1901'           | 19. PROPOSED DEPTH<br>3700'                          | 20. ROTARY OR CABLE TOOLS<br>Rotary           |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>6326' GL   |                       |                 | 22. APPROX. DATE WORK WILL START<br>April 16 1999    |   |
| 23. PROPOSED CASING AND CEMENTING PROGRAM  |                       |                 |  |   |
| SIZE OF HOLE   | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH  | QUANTITY OF CEMENT                            |
| 12 1/4"  | 8 5/8" J-55           | 24#             | 300'   | 200 cu. ft.                                   |
| 7-7/8"   | 5-1/2" N80            | 17#             | 3700   | 300 cu. ft.                                   |

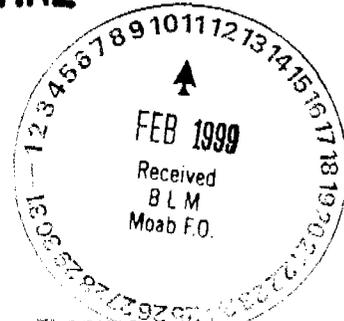
Attached is the following:

1. Survey Plat
2. Drilling Plan with BOP Schematic, Figure 1-1
3. Surface Use Plan
4. Certification of Operator
5. Topo & Access Map & Area Map.
6. Pit & Pad Layout with cross sections of pit, pad, & rig layout.

**CONFIDENTIAL**

The Cultural Resource Study was submitted under separate cover.

Nationwide BLM Oil & Gas Lease Bond Number 153571  
Utah Oil & Gas Lease Bond 224351 (expiration date 06-30-2000)  
Utah Bond of Lessee 203521

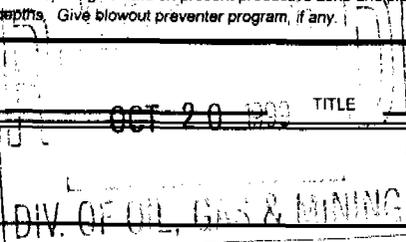


**FLARING OR VENTING OF  
GAS IS SUBJECT TO MTL 4-A**

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Bruce Darlington TITLE Sr. Drilling Engineer DATE 02/04/1999

(This space for Federal or State office use.)



PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL IF ANY:

APPROVED BY Asst. Field Manager, Division of Resources TITLE Assistant Field Manager, Division of Resources DATE OCT 15 1999

cc: Price BLM 2/11/99 -mm

See Instructions On Reverse Side

**CONDITIONS OF APPROVAL ATTACHED**

T13S, R10E, S.L.B.&M.

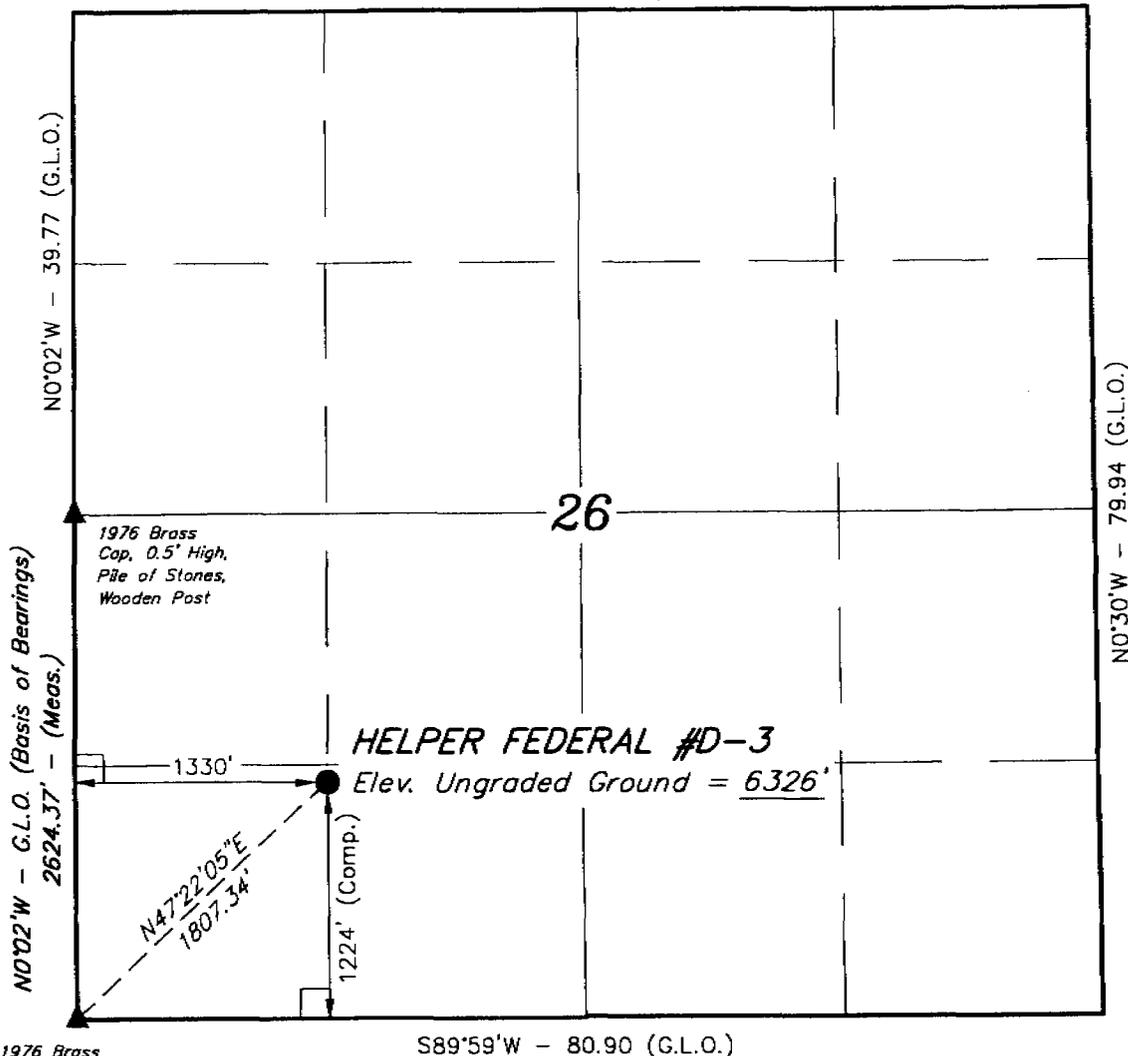
**ANADARKO PETROLEUM CORP.**

Well location, HELPER FEDERAL #D-3, located shown in the SE 1/4 SW 1/4 of Section 22, T13S, R10E, S.L.B.&M. Carbon County, Utah

BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE SE 1/4 OF SECTION 22, T13S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6530 FEET.

N89°54'W - 80.26 (G.L.O.)



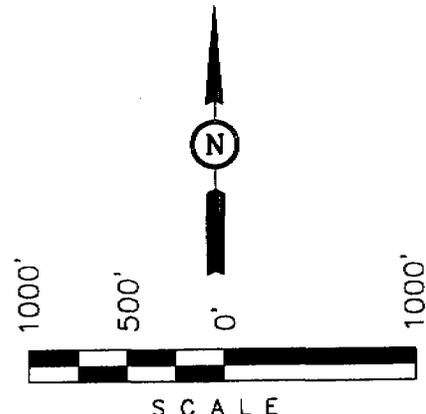
N0°02'W - G.L.O. (Basis of Bearings)  
2624.37' - (Meas.)

1976 Brass  
Cap, 0.5' High,  
Pile of Stones,  
Wooden Post

1976 Brass  
Cap, 0.5' High,  
Pile of Stones,  
Wooden Post

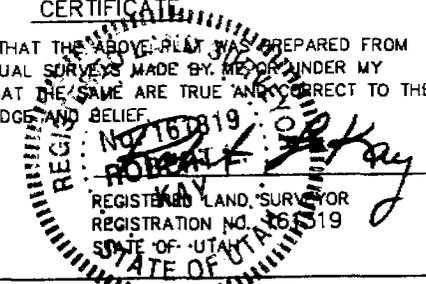
**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



|  |                                  |                         |
|--|----------------------------------|-------------------------|
| <b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> |                                  |                         |
| 85 SOUTH 200 EAST - VERNAL, UTAH 84078         |                                  |                         |
| (801) 789-1017                                 |                                  |                         |
| SCALE<br>1" = 1000'                            | DATE SURVEYED:<br>10-6-98        | DATE DRAWN:<br>10-16-98 |
| PARTY<br>K.K. T.A. D.COX                       | REFERENCES<br>G.L.O. PLAT        |                         |
| WEATHER<br>WARM                                | FILE<br>ANADARKO PETROLEUM CORP. |                         |

Anadarko Petroleum Corporation  
Helper Federal D-3  
Lease U-68315  
SE/SW Section 26, T13S, R10E  
Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Anadarko Petroleum Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. The requirements for air drilling, found in Onshore Oil and Gas Order No. 2, part III, E (Special Drilling Operations), shall be followed. This section requires, at a minimum, the use of the following equipment not mentioned in the application:
  - Spark arresters
  - Blooie line discharge 100 feet from wellbore
  - Straight blooie line
  - Deduster equipment
  - Float valve above bit
  - Automatic igniter on the blooie line
3. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.

B. SURFACE USE

1. The following appendices are attached for your reference. They are to be followed as conditions of approval:

Table A-1, Seed Mixture for Green Strip Areas

Table A-2, Seed Mixture for Final Reclamation, Sagebrush-Grass  
EMP 16 & 17, Winter Seasonal Restriction on Critical & High Priority  
Winter Range

EMP 19, Critical Winter Range Browse Hand Planting

EMP 21, Surface Disturbance Mitigation for Critical & High Priority  
Winter Range

2. Whether the mud pit shall be lined will be determined at the time of construction.
3. Within six months of installation, surface structures shall be painted in the following flat, earth tone color: Olive Black (5WA20-6). This Fuller O'Brien color is for reference only. Any brand of paint may be used provided the colors match. Any facilities that must be painted to comply with OSHA standards are exempt.

GENERAL CONSTRUCTION

1. Operator shall contact the Price BLM Office at least forty-eight hours prior to the anticipated start of construction and/or any surface disturbing activities. The BLM may require and schedule a preconstruction conference with the operator prior to the operator commencing construction and/or surface disturbing activities. The operator and the operator's contractor, or agents involved with construction and/or any surface disturbing activities associated with the project, shall attend this conference to review the Conditions of Approval and plan of development. The operator's inspector will be designated at the pre-drill conference, and is to be given an approved copy of all maps, permits and conditions of approval before the start of construction. The BLM will also designate a representative for the project at the preconstruction conference.
2. The operator shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the BLM. The operator's

representative shall be available for communication with the BLM within a reasonable time when construction or other surface disturbing activities are underway.

3. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, on public land is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is necessary.
4. During project construction, surface disturbance and vehicle travel shall be limited to the approved location and access routes. Any additional area needed must be approved by the Price BLM Office prior to use.
5. The operator must provide a trash cage for the collection and containment of all trash. The trash shall be disposed in an authorized landfill. The location and access roads shall be kept litter free.
6. Vegetation removal necessitated by construction shall be confined to the limits of actual construction. Removed vegetation will be stockpiled for use in reclamation or removed from the construction site at the direction of the BLM.
7. Prior to surface disturbance, topsoil is to be separately removed and segregated from other material. Topsoil depth will be decided onsite by BLM. If the topsoil is less than 6 inches, a 6-inch layer that includes the A horizon and the unconsolidated material immediately below the A horizon shall be removed and the mixture segregated and redistributed as the surface soil layer.

Generally topsoil shall be stored within the pad site or adjacent to access roads. The company in consultation with BLM shall determine stockpile locations and dimensions at the onsite. If the topsoil stockpiles will not be redistributed for a period in excess of one (1) year, the stockpiles are to be seeded with seed mixture Sagebrush-Grass (see attached).

#### ROAD and PIPELINE CONSTRUCTION

8. Operator shall provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall

certify (statement with PE stamp) that the road was constructed to the required Bureau of Land Management (BLM) road standards.

9. Road construction or routine maintenance activities are to be performed during periods when the soil can adequately support construction equipment. If such equipment creates ruts more than 6 inches deep, the soil is deemed too wet to adequately support construction equipment.
10. The operator is responsible for maintenance of all roads authorized through the lease or a right-of-way. Construction and maintenance shall comply with Class II or III Road Standards as described in BLM Manual Section 9113 and the Moab District Road Standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, headcut restoration/prevention.
11. Topsoil from access roads and pipelines is to be wind rowed along the uphill side of the road or stored in an approved manner. When the road and pipeline is rehabilitated, this soil will then be used as a top coating for the seed bed.
12. Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road ditch turnouts shall be equipped with energy dissipators as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. Rock energy dissipators and gravel dispersion fans may be used, or any other design which would accomplish the desired reconversion of flow regime. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting.

#### PAD CONSTRUCTION

13. During the construction of the drill pad, suitable topsoil material is to be stripped and conserved in a stockpile on the pad. If stockpiles are to remain for more than a year, they shall be seeded with the seed mixture Sagebrush-Grass (see attached).
14. Generally, drill pads are to be designed to prevent overland flow of water from entering or leaving the site. The pad is to be sloped to drain spills and water into the reserve pit. The drill pad shall be designed to disperse diverted overland flow and to regulate flow velocity so as to prevent or minimize erosion. Well pad diversion outlets shall be equipped with rock energy brakes and gravel-bedded dispersion fans.

## REHABILITATION PROCEDURES

### Site Preparation

15. The entire roadbed should be obliterated and brought back to the approximate original contour. Drainage control is to be reestablished as necessary. All areas affected by road construction are to be recontoured to blend in with the existing topography. All berms are to be removed unless determined to be beneficial by BLM. In recontouring the disturbed areas, care should be taken to not disturb additional vegetation.

### Seedbed Preparation

16. An adequate seedbed should be prepared for all sites to be seeded. Areas to be revegetated should be chiselled or disked to a depth of at least 12 inches unless restrained by bedrock.
17. Ripping of fill materials should be completed by a bulldozer equipped with single or a twin set of ripper shanks. Ripping should be done on 4-foot centers to a depth of 12 inches. The process should be repeated until the compacted area is loose and friable, then shall be followed by final grading. Seedbed preparation will be considered complete when the soil surface is completely roughened and the number of rocks (if present) on the site is sufficient to cause the site to match the surrounding terrain.
18. After final grading, the stockpiled topsoil shall be spread evenly across the disturbed area.

### Fertilization

19. Commercial fertilizer with a formula of 16-16-8 is to be applied at a rate of 200 pounds per acre to the site. The rate may be adjusted depending on soil.
20. Fertilizer is to be applied not more than 48 hours before seeding, and shall be cultivated into the upper 3 inches of soil.
21. Fertilizer is to be broadcast over the soil using hand-operated "cyclone-type" seeders or rotary broadcast equipment attached to construction or revegetation machinery as appropriate to slope. All equipment should be equipped with a metering device. Fertilizer application is to take place before the final seeding

preparation treatment. Fertilizer broadcasting operations should not be conducted when wind velocities would interfere with even distribution of the material.

### Mulching

22. When it is time to reclaim this location, the Price BLM Office will determine whether it will be necessary to use mulch in the reclamation process. The type of mulch should meet the following requirements: Wood cellulose fiber shall be natural or cooked, shall disperse readily in water, and shall be nontoxic. Mulch shall be thermally produced and air dried. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A colored dye that is noninjurious to plant growth may be used when specified. Wood cellulose fiber is to be packaged in new, labeled containers. A minimum application of 1500 pounds per acre shall be applied. A suitable tackifier shall be applied with the mulch at a rate of 60 to 80 pounds per acre.

An alternative method of mulching on small sites would be the application of straw or hay mulch at a rate of 2000 pounds per acre. Hay or straw shall be certified weed free. Following the application of straw or hay, crimping shall occur to ensure retention.

### Reseeding

23. All disturbed areas are to be seeded with the seed mixture required by the BLM. The seed mixture(s) shall be planted in the fall of the year (Sept-Nov), in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no noxious weed seed in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to planting. Commercial seed will be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the BLM. Seed is to be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds tend to drop to the bottom of the drill and are planted first. Appropriate measures should be taken to ensure this does not occur.) Where drilling is not possible, seed is to be broadcast and the area raked or chained to cover the seed. Woody species with seeds that are too large for the drill will be broadcast. When broadcasting the seed, the pounds per acre noted below are to be increased by 50 percent. Reseeding may be required if a satisfactory stand is not established to the surface rights

owner's specifications. Evaluation of the seeding's success will not be made before completion of the second growing season after the vegetation becomes established. The Price BLM Office is to be notified a minimum of seven days before seeding a project.

24. The disturbed areas for the road and pipeline must be seeded in the fall of the year, immediately after the topsoil is replaced. The prescribed seed mixture is Sagebrush-Grass (see attached).

#### General

25. Prior to the use of insecticides, herbicides, fungicides, rodenticides and other similar substances, the operator must obtain from BLM, approval of a written plan. The plan must describe the type and quantity of material to be used, the pest to be controlled, the method of application, the location for storage and disposal of containers, and other information that BLM may require. A pesticide may be used only in accordance with its registered uses and within other agency limitations. Pesticides must not be permanently stored on public lands.

The following seed mixture would be planted along service road borrow ditches, around the edges of drill pads with a production well, and surrounding other production and maintenance facilities. The purpose for this is to provide a "green strip" buffer to minimize fire hazards and prevent invasion and establishment of noxious weeds in areas that will receive continued disturbance for the life of these areas.

Table A-1

| Common Plant Name       | Scientific Name   | Pounds per acre (PLS) |
|-------------------------|---|-----------------------|
| Forage kochia           | <i>Kochia prostrata</i>                                       | 2                     |
| Wyoming big sagebrush   | <i>Artemisia tridentata wyomingensis</i><br>var. Gordon Creek | 1                     |
| Douglas low rabbitbrush | <i>Chrysothamnus viscidiflorus</i>                            | 1                     |
| TOTAL                   |   | 4                     |

The following seed mixture is for the area that would receive final reclamation. Areas would be planted to protect them from soil erosion and to restore forage production.

Table A-2

| Common Plant Name            | Scientific Name                           | Pounds per acre (PLS) |
|------------------------------|---|-----------------------|
| <b>Sagebrush-Grass Areas</b> |   |                       |
| <i>Grasses</i>               |   |                       |
| Indian ricegrass             | <i>Stipa hymenoides</i>                   | 2                     |
| Squirreltail                 | <i>Elymus elymoides</i>                   | 2                     |
| Thickspike wheatgrass        | <i>Elymus lanceolatus</i>                 | 1                     |
| Crested wheatgrass           | <i>Agropyron desertorum</i>               | 2                     |
| <i>Forbs</i>                 |   |                       |
| Lewis flax                   | <i>Linum perenne lewisii</i>              | 1                     |
| Palmer penstemon             | <i>Penstemon palmerii</i>                 | 1                     |
| Small burnet                 | <i>Sanguisorba minor</i>                  | 1                     |
| <i>Shrubs</i>                |   |                       |
| Forage kochia                | <i>Kochia prostrata</i>                   | 2                     |
| Whitestem rabbitbrush        | <i>Chrysothamnus nauseosus albicaulis</i> | 1                     |
| Fourwing saltbrush           | <i>Atriplex canescense</i>                | 2                     |
| TOTAL                        |   | 15                    |

FERRON NATURAL GAS PROJECT AREA

PROPOSER: ANADARKO

WELL #: 03

EPM 16 & 17: WINTER SEASONAL RESTRICTION (DECEMBER 1 to APRIL 15) ON CRUCIAL AND HIGH PRIORITY WINTER RANGE.

Pg 1 of 1

Restrictions on Construction Phase Activity: Prohibit construction phase activity, described below, on big game high value and critical winter range during the period (December 1 - April 15) without regard for land ownership.

This condition would not apply to normal maintenance and operation of producing wells, described below. On nonfederal lands (where the federal government does not have either surface or subsurface ownership) the Companies would be allowed to conduct construction phase activity if needed to avoid breach of contract or loss of lease rights. In the event construction phase activity proceeds into the winter closure period on non federal interest lands, Companies would make available appropriate documentation to UDWR, upon request.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery.

Companies would not be allowed to initiate construction activity unless it is reasonable to believe that such work can be finished to a logical stopping point prior to December 1 of that year. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

- Mobilization/Demobilization or operation of heavy equipment (crawler tractor, front end loader, backhoe, road grader, etc.)
- Construction activity (road construction or upgrading, pad, pipeline, powerline, ancillary facilities, etc.),
- Drilling activity (Operator would not propose or initiate drilling activity if the project could not reasonably be expected to be finished to a logical stopping point by the December 1 date of that year.)
- Seismic operation, detonation of explosives

This seasonal closure would not apply to reconnaissance, survey/design and/or flagging of project work or other similar activity not requiring actions listed for heavy equipment operation.

Production Phase: A well is considered to be in production phase when the well and ancillary facilities are completed to the point that they are capable of producing and delivering product for sale. It is noted that heavy equipment operation may be necessary in the performance of maintenance and operation of producing wells.

Restriction on Non Emergency Workover Operations: The Companies will schedule non-emergency workover operations (defined below) on big game crucial and high value winter range outside the December 1 to April 15 date of the seasonal closure.

Non-emergency Workover Operations: Workover operations to correct or reverse a gradual loss of production over time (loss of production of 20 percent or less over a 60 day period) is considered to be routine or non-emergency workover operations and would not be permitted during the December 1 to April 15 time frame.

Emergency Workover Operations: Emergency work over operations are defined as downhole equipment failure problems or workover operation necessary to avoid shut in of the well or to avoid an immediate safety or environmental problem. Loss of production greater than 20 percent within a 60 day period is indicative of pump failure and will be treated as an emergency workover operation. The Companies will submit Sundry notices to BLM within five days of the emergency workover operations between December 1 and April 15.

FERRON NATURAL GAS PROJECT AREA  
PROPOSER: ANADARKO

WELL #: 03

**EPM 19: CRITICAL WINTER RANGE BROWSE HAND PLANTING**

Pg 1 of 1

One or two browse species lists (checked below) are to be hand planted at the prescribed application rate and according to the following prescribed methods on critical winter range areas that are undergoing long term reclamation. This would include all pipeline corridors, berm around edge of drill pads, miscellaneous disturbed areas associated with construction such as staging areas for equipment, sidecast on road cuts, along side upgraded or new roads up to and including borrow ditch and in the termination of redundant access roads being closed. This planting shall be completed in the first planting window following reclamation.

**Planting Methods:**

Planting shall be accomplished using a labor force with specific experience in landscape restoration, hand planting methods and handling and care of browse tubling and or bareroot stock plants.

Browse plants to be utilized can be bareroot stock or tubling stock plants of 1 year old age class or greater.

Browse seedling protectors will be used to provided protection from browsing ungulates for two years. Seedling protectors will be of an open mesh rigid design that will break down when exposed to sunlight and that measures a minimum of 12 inches in length and 4 inches in diameter.

Planting shall be completed in the spring (March 1- April 1) and or fall (November 1- December 1) planting windows.

Browse plants shall be stored and handled in such a manner as to maintain viability, according to the type of browse stock being used.

**Planting Species and Application Rate:**

| <u>Species</u>   | <input checked="" type="checkbox"/> Sagebrush-Grass<br><u>Plants Per Acre</u> | <input type="checkbox"/> Pinyon-Juniper |
|--|---|---|
| Wyoming Sagebrush (Gordon Creek)   | 100   | 50                                      |
| Fourwing Saltbush (Utah seed source collected at<br>or above 5,000 feet elevation) | 100   | 50                                      |
| True Mountain Mahogany (Utah seed source)  | 0   | 50                                      |
| Antelope Bitterbrush (Utah seed source)  | 0   | 50                                      |
| Total  | 200   | 200                                     |

**Suitable Substitutions:**

|                             |     |     |
|-----------------------------|-----|-----|
| Prostrate Kochia            | yes | yes |
| Whitstem Rubber Rabbitbrush | no  | yes |
| Utah Serviceberry           | no  | yes |
| Winterfat                   | yes | no  |

FERRON NATURAL GAS PROJECT AREA  
PROONENT: ANADARKO

WELL #: 03

**EPM 21: SURFACE DISTURBANCE MITIGATION FOR CRITICAL AND HIGH PRIORITY WINTER RANGE** Pg. 1 of 1

The subject permit application is proposed within critical and high priority winter range (FEIS) and subject to EPM 21 requiring acre for acre mitigation for surface disturbance on critical winter range. The following condition comes from a cooperative agreement between the Texaco, Anadarko, Chandler (Companies), BLM-Price Field Office, the Utah Division of Wildlife Resources and the National Fish and Wildlife Foundation. The Companies agreed to the following:

1. Contribute \$1,301.26 (1998 dollars) for each Federal interest well (Federal surface and or subsurface ownership) permitted and drilled by the Companies (or on behalf of Companies by its contractor) on big game critical winter range as depicted in the FEIS Ferron Natural Gas Project Area. (Wells meeting the above criteria for which payment will be required, will be referred to as "subject wells".) This contribution will be adjusted annually for inflation based on the Consumer Price Index (CPI), see Section II.C.6. for the reference source used for the determination of the CPI and the date in which this annual adjustment will go into effect.

Since this mitigation program is designed to address impacts of all big game critical winter range surface disturbance (roads, well pads, pipelines, etc.), contributions will be required regardless of the success or failure of the subject well to produce.

- a. The recorded date for spudding for each subject well (the first boring of a hole during the drilling of a well) will serve as the reference date triggering the requirement for the mitigation contribution.
- b. Contributions will be submitted (in the form of an Company check, cashiers check or wire transfer) directly to the National Fish and Wildlife Foundation by the 1<sup>st</sup> of August and February for all subject wells spudded in the preceding six months as reported by the Bureau.
- c. All contributions will be made payable to the "National Fish and Wildlife Foundation re, Proj 99-270" and reference the "Ferron Natural Gas Wildlife Habitat Impact Mitigation Fund".

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Price Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Don Stephens (work: 435-636-3608, home: 435-637-7967) or Mike Kaminski (work: 435-636-3640, home: 435-637-2518) of the BLM, Price Field Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-6111. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer      Office: (435) 259-2117  
Home: (435) 259-2214

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

5. Lease Designation and Serial Number

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

9. API Well Number:

43-007-30543

10. Field and Pool, or Wildcat

Helper Field

1. Type of Well: OIL  GAS  OTHER: coalbed methane

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060 (281) 874-8766

4. Location of Well

Footages:

QQ, Sec., T., R., M.: SEB W sec 26 T13S R10E

County: Carbon

State: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recomplete
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon\*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Weekly Progress Reports

Date of work completion \_\_\_\_\_

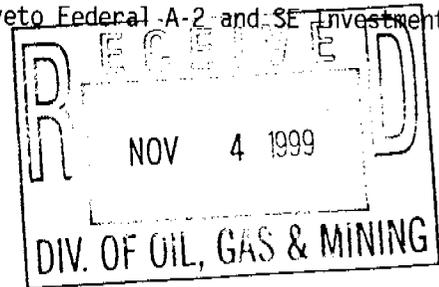
Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Weekly Reports for the following Helper Field Wells (Week ending 10-29-99)

Helper Federal B-3, B-4, B-8, B-10, B-11, B-12, D-3, D-4, F-1, Oliveto Federal A-2 and SE Investments 1



13. Name & Signature: *July Davidson* Title: Regulatory Analyst

Date: 10-29-99

(This space for State use only)

ANADARKO PETROLEUM CORPORATION  
WELL HISTORY  
ONSHORE - U.S.

CONFIDENTIAL

**HELPER FEDERAL D-3**, HELPER FIELD, 1224 FSL & 1330 FWL, SEC 26-13S-10E, CARBON, CO., UT, WI  
1.00, NRI 0.875, AFE #18601, ETD 3,700', GLE 6326' (FERRON), ELLENBURG RIG 15. API #43-007-30543.

10/27/1999 1342' (1342'), **DRLG**, MW AIR  
DFS 01 PRESET & CMT 330' 8-5/8" SURF CSG, MIRU, NU BOP, TEST BOP, RIH, DRILL CMT F/  
307-330, AIR DRLG F/ 330-1342, LAST SURVEY @ 823-3.0°  
CC 30,000

10/28/1999 3395' (2053'), **DRILLING**, MW AIR  
DFS 02 LAST SURVEY @ 2320-5.5°  
CC 60,000

10/29/1999 3544' (149'), **MOVING TO HELPER FEDERAL D-6**, MW AIR  
DFS 3 DRLG F/ 3395-3544, C&C, LOAD HOLE, POOH LDDP, LOG WELL (1<sup>ST</sup> LOG ION BTM @  
0715 10/28/99), RIH W/ 84 JTS 5-1/2" 17# N80 CSG, WASH 15' TO BTM, SET CSG @ 3543,  
CMT W/ 160 SX LEAD @ 12.5 PPG & 120 SX TAIL @ 14.2 PPG, FULL RETURNS, ND BOP,  
SET SLIPS, CUT CSG, **RLS RIG @ 1700 HRS 10/28/99**, LAST SURVEY @ 2320-5.5°  
CC 60,000 - **DROP F/ REPORT**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

IN TRIPLICATE  
for instructions on  
reverse side)

Form approved:  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

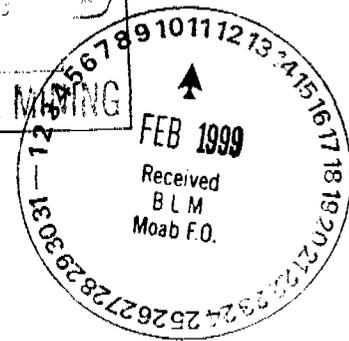
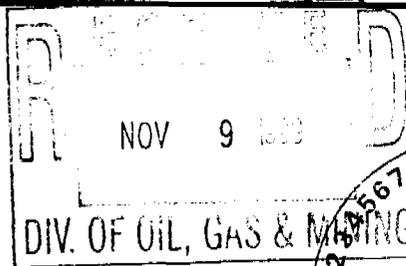
99-27

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

|  |                       |                 |   |   |  |
|--|-----------------------|-----------------|---|---|--|
| 1 a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>   |                       |                 | 5. LEASE DESIGNATION AND SERIAL NO.<br>UTU-68315                    |   |  |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER - COALBED METHANE <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE <input type="checkbox"/>          |                       |                 | 6. IF INDIAN, ALLOTTEES OR TRIBE NAME                               |   |  |
| 2. NAME OF OPERATOR<br>ANADARKO PETROLEUM CORPORATION  |                       |                 | 7. UNIT AGREEMENT NAME  |   |  |
| 3. ADDRESS AND TELEPHONE NO.<br>17001 Northchase Drive, Houston, Texas 77060 281/875-1101  |                       |                 | 8. FARM OR LEASE NAME WELL NO.<br>Helper Federal D-2                |   |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>1597 FNL 1021 FWL, NW Section 26, T13S R10E<br>At proposed prod. zone<br>1597 FNL 1021 FWL, NW Section 26, T13S R10E |                       |                 | 9. API WELL NO.<br>4300730542                                       |   |  |
| CONFIDENTIAL   |                       |                 | 10. FIELD AND POOL OR WILDCAT<br>Helper CBM                         |   |  |
|  |                       |                 | 11. SEC. T.R.M. OR BLK. AND SURVEY OR AREA<br>Section 26, T13S R10E |   |  |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.<br>4 miles North of Price, Ut  |                       |                 | 12. COUNTY<br>Carbon  | 13. STATE<br>Utah                             |  |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.<br>(Also to nearest drlg. unit line, if any)  |                       | 1021'           | 16. NO. OF ACRES IN LEASE<br>2058'                                  | 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>160 |  |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.   |                       | 1901'           | 19. PROPOSED DEPTH<br>4000'   | 20. ROTARY OR CABLE TOOLS<br>Rotary           |  |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>6416' GL   |                       |                 | 22. APPROX. DATE WORK WILL START<br>April 16 1999                   |   |  |
| 23. PROPOSED CASING AND CEMENTING PROGRAM  |                       |                 |   |   |  |
| SIZE OF HOLE   | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH   | QUANTITY OF CEMENT                            |  |
| 12 1/4"  | 8 5/8" J-55           | 24#             | 300'  | 200 cu. ft.                                   |  |
| 7-7/8"   | 5-1/2" N80            | 17#             | 4000  | 300 cu. ft.                                   |  |

Attached is the following:

1. Survey Plat
2. Drilling Plan with BOP Schematic, Figure 1-1
3. Surface Use Plan
4. Certification of Operator
5. Topo & Access Map & Area Map.
6. Pit & Pad Layout with cross sections of pit, pad, & rig layout.



The Cultural Resource Study was submitted under separate cover.

Nationwide BLM Oil & Gas Lease Bond Number 153571  
Utah Oil & Gas Lease Bond 224351 (expiration date 06-30-2000)  
Utah Bond of Lessee 203521

RECEIVED BY [Signature] OF [Signature] SUBJECT TO OIL 4-A Dated 1/1/80

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Bruce Darlington Sr. Drilling Engineer DATE 02/04/1999

(This space for Federal or State office use.)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL IF ANY:

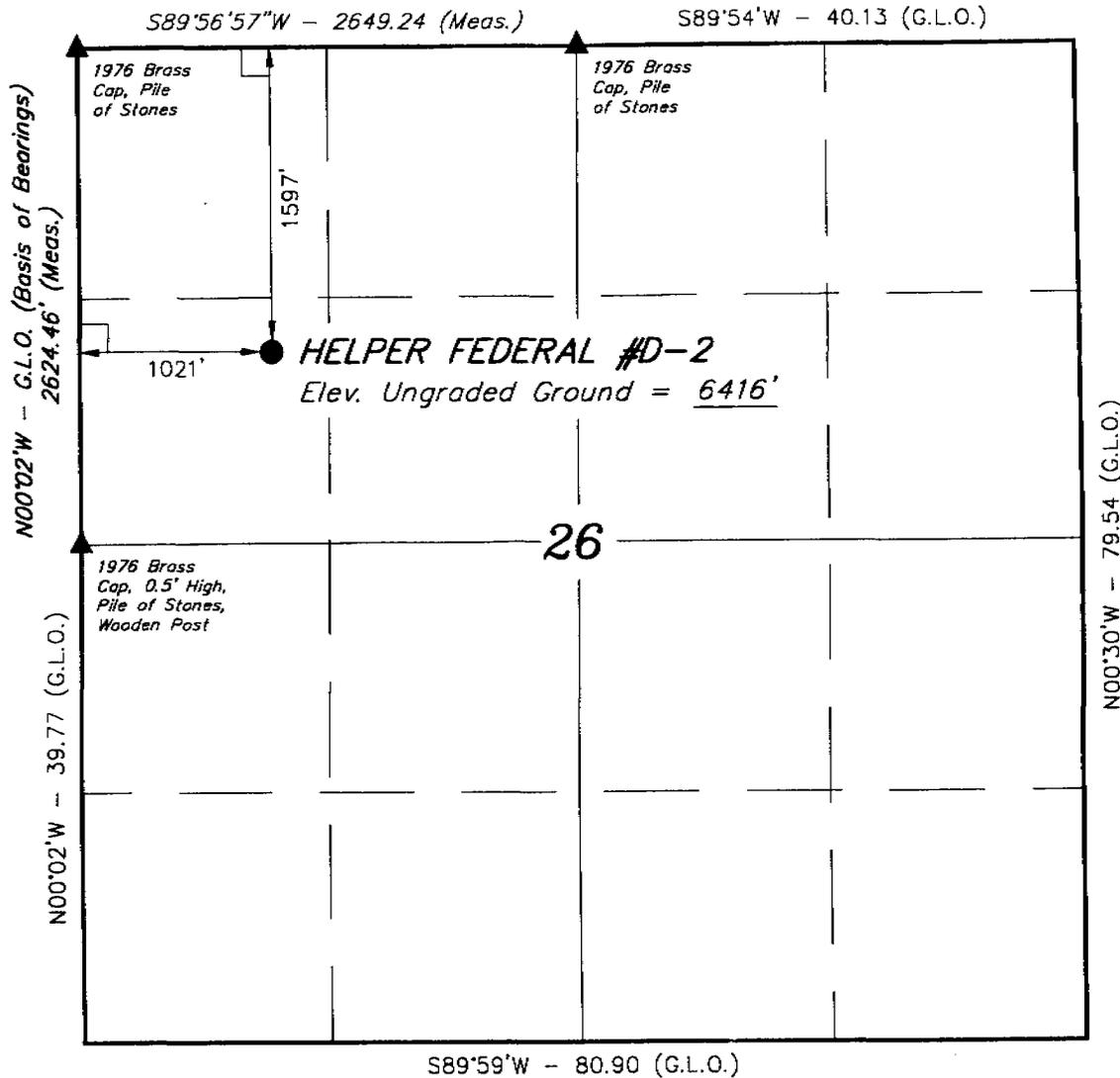
APPROVED BY [Signature] TITLE Assistant Field Manager, Division of Resources DATE NOV - 3 1999

cc: Price BLM 2/11/99 mm See Instructions On Reverse Side **CONDITIONS OF APPROVAL ATTACHED**

T13S, R10E, S.L.B.&M.

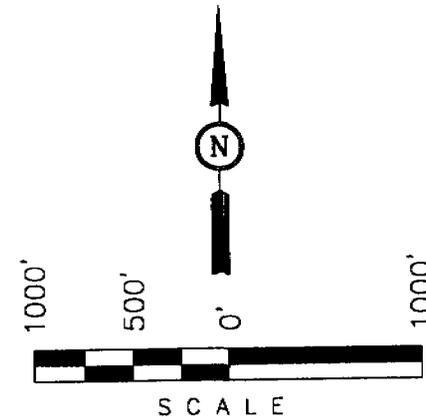
**ANADARKO PETROLEUM CORP.**

Well location, HELPER FEDERAL #D-2, located as shown in the SW 1/4 NW 1/4 of Section 26, T13S, R10E, S.L.B.&M. Carbon County, Utah



BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE SW 1/4 OF SECTION 23, T13S, R10E, S.L.B.&M. TAKEN FROM THE HELPER QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6484 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

*Robert J. ...*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 16319  
 STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

|  |                                  |                         |
|--|----------------------------------|-------------------------|
| <b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> |                                  |                         |
| 85 SOUTH 200 EAST - VERNAL, UTAH 84078         |                                  |                         |
| (801) 789-1017                                 |                                  |                         |
| SCALE<br>1" = 1000'                            | DATE SURVEYED:<br>9-24-98        | DATE DRAWN:<br>10-13-98 |
| PARTY<br>K.K. T.A. D.COX                       | REFERENCES<br>G.L.O. PLAT        |                         |
| WEATHER<br>WARM                                | FILE<br>ANADARKO PETROLEUM CORP. |                         |

Anadarko Petroleum Corporation  
Helper Federal D-2  
Lease U-68315  
SW/NW Section 26, T13S, R10E  
Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Anadarko Petroleum Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. The requirements for air drilling, found in Onshore Oil and Gas Order No. 2, part III, E (Special Drilling Operations), shall be followed. This section requires, at a minimum, the use of the following equipment not mentioned in the application:
  - Spark arresters
  - Blooie line discharge 100 feet from wellbore
  - Straight blooie line
  - Deduster equipment
  - Float valve above bit
  - Automatic igniter on the blooie line
3. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.

B. SURFACE USE

1. The following appendices are attached for your reference. They are to be followed as conditions of approval:

Table A-1, Seed Mixture for Green Strip Areas

Table A-2, Seed Mixture for Final Reclamation, Sagebrush-Grass

EMP 16 & 17, Winter Seasonal Restriction on Critical & High Priority Winter Range

EMP 19, Critical Winter Range Browse Hand Planting

EMP 21, Surface Disturbance Mitigation for Critical & High Priority Winter Range

2. Whether the mud pit shall be lined will be determined at the time of construction.
3. Within six months of installation, surface structures shall be painted in the following flat, earth tone color: Olive Black (5WA20-6). This Fuller O'Brien color is for reference only. Any brand of paint may be used provided the colors match. Any facilities that must be painted to comply with OSHA standards are exempt.

GENERAL CONSTRUCTION

1. Operator shall contact the Price BLM Office at least forty-eight hours prior to the anticipated start of construction and/or any surface disturbing activities. The BLM may require and schedule a preconstruction conference with the operator prior to the operator commencing construction and/or surface disturbing activities. The operator and the operator's contractor, or agents involved with construction and/or any surface disturbing activities associated with the project, shall attend this conference to review the Conditions of Approval and plan of development. The operator's inspector will be designated at the pre-drill conference, and is to be given an approved copy of all maps, permits and conditions of approval before the start of construction. The BLM will also designate a representative for the project at the preconstruction conference.
2. The operator shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the BLM. The operator's representative shall be available for communication with the BLM within a reasonable time when construction or other surface disturbing activities are underway.

is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is necessary.

4. During project construction, surface disturbance and vehicle travel shall be limited to the approved location and access routes. Any additional area needed must be approved by the Price BLM Office prior to use.
5. The operator must provide a trash cage for the collection and containment of all trash. The trash shall be disposed in an authorized landfill. The location and access roads shall be kept litter free.
6. Vegetation removal necessitated by construction shall be confined to the limits of actual construction. Removed vegetation will be stockpiled for use in reclamation or removed from the construction site at the direction of the BLM.
7. Prior to surface disturbance, topsoil is to be separately removed and segregated from other material. Topsoil depth will be decided onsite by BLM. If the topsoil is less than 6 inches, a 6-inch layer that includes the A horizon and the unconsolidated material immediately below the A horizon shall be removed and the mixture segregated and redistributed as the surface soil layer.

Generally topsoil shall be stored within the pad site or adjacent to access roads. The company in consultation with BLM shall determine stockpile locations and dimensions at the onsite. If the topsoil stockpiles will not be redistributed for a period in excess of one (1) year, the stockpiles are to be seeded with seed mixture Sagebrush-Grass (see attached).

#### ROAD and PIPELINE CONSTRUCTION

8. Operator shall provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall certify (statement with PE stamp) that the road was constructed to the required Bureau of Land Management (BLM) road standards.
9. Road construction or routine maintenance activities are to be performed during periods when the soil can adequately support construction equipment. If such equipment creates ruts more than 6 inches deep, the soil is deemed too wet to adequately support construction equipment.
10. The operator is responsible for maintenance of all roads authorized through the lease or a right-of-way. Construction and maintenance shall comply with Class

II or III Road Standards as described in BLM Manual Section 9113 and the Moab District Road Standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, headcut restoration/prevention.

11. Topsoil from access roads and pipelines is to be wind rowed along the uphill side of the road or stored in an approved manner. When the road and pipeline is rehabilitated, this soil will then be used as a top coating for the seed bed.
12. Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road ditch turnouts shall be equipped with energy dissipators as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. Rock energy dissipators and gravel dispersion fans may be used, or any other design which would accomplish the desired reconversion of flow regime. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting.

#### PAD CONSTRUCTION

13. During the construction of the drill pad, suitable topsoil material is to be stripped and conserved in a stockpile on the pad. If stockpiles are to remain for more than a year, they shall be seeded with the seed mixture Sagebrush-Grass (see attached).
14. Generally, drill pads are to be designed to prevent overland flow of water from entering or leaving the site. The pad is to be sloped to drain spills and water into the reserve pit. The drill pad shall be designed to disperse diverted overland flow and to regulate flow velocity so as to prevent or minimize erosion. Well pad diversion outlets shall be equipped with rock energy brakes and gravel-bedded dispersion fans.

#### REHABILITATION PROCEDURES

##### Site Preparation

15. The entire roadbed should be obliterated and brought back to the approximate original contour. Drainage control is to be reestablished as necessary. All areas affected by road construction are to be recontoured to blend in with the existing topography. All berms are to be removed unless determined to be beneficial by BLM. In recontouring the disturbed areas, care should be taken to not disturb additional vegetation.

##### Seedbed Preparation

16. An adequate seedbed should be prepared for all sites to be seeded. Areas to be revegetated should be chiselled or disked to a depth of at least 12 inches unless restrained by bedrock.
17. Ripping of fill materials should be completed by a bulldozer equipped with single or a twin set of ripper shanks. Ripping should be done on 4-foot centers to a depth of 12 inches. The process should be repeated until the compacted area is loose and friable, then shall be followed by final grading. Seedbed preparation will be considered complete when the soil surface is completely roughened and the number of rocks (if present) on the site is sufficient to cause the site to match the surrounding terrain.
18. After final grading, the stockpiled topsoil shall be spread evenly across the disturbed area.

#### Fertilization

19. Commercial fertilizer with a formula of 16-16-8 is to be applied at a rate of 200 pounds per acre to the site. The rate may be adjusted depending on soil.
20. Fertilizer is to be applied not more than 48 hours before seeding, and shall be cultivated into the upper 3 inches of soil.
21. Fertilizer is to be broadcast over the soil using hand-operated "cyclone-type" seeders or rotary broadcast equipment attached to construction or revegetation machinery as appropriate to slope. All equipment should be equipped with a metering device. Fertilizer application is to take place before the final seeding preparation treatment. Fertilizer broadcasting operations should not be conducted when wind velocities would interfere with even distribution of the material.

#### Mulching

22. When it is time to reclaim this location, the Price BLM Office will determine whether it will be necessary to use mulch in the reclamation process. The type of mulch should meet the following requirements: Wood cellulose fiber shall be natural or cooked, shall disperse readily in water, and shall be nontoxic. Mulch shall be thermally produced and air dried. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A colored dye that is noninjurious to plant growth may be used when specified. Wood cellulose fiber is to be packaged in new, labeled containers. A minimum application of 1500 pounds per acre shall be applied. A suitable tackifier shall be applied with the mulch at a rate of 60 to 80 pounds per acre.

An alternative method of mulching on small sites would be the application of straw or hay mulch at a rate of 2000 pounds per acre. Hay or straw shall be certified weed free. Following the application of straw or hay, crimping shall occur to ensure retention.

### Reseeding

23. All disturbed areas are to be seeded with the seed mixture required by the BLM. The seed mixture(s) shall be planted in the fall of the year (Sept-Nov), in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no noxious weed seed in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to planting. Commercial seed will be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the BLM. Seed is to be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds tend to drop to the bottom of the drill and are planted first. Appropriate measures should be taken to ensure this does not occur.) Where drilling is not possible, seed is to be broadcast and the area raked or chained to cover the seed. Woody species with seeds that are too large for the drill will be broadcast. When broadcasting the seed, the pounds per acre noted below are to be increased by 50 percent. Reseeding may be required if a satisfactory stand is not established to the surface rights owner's specifications. Evaluation of the seeding's success will not be made before completion of the second growing season after the vegetation becomes established. The Price BLM Office is to be notified a minimum of seven days before seeding a project.
24. The disturbed areas for the road and pipeline must be seeded in the fall of the year, immediately after the topsoil is replaced. The prescribed seed mixture is Sagebrush Grass (see attached table).

### General

25. Prior to the use of insecticides, herbicides, fungicides, rodenticides and other similar substances, the operator must obtain from BLM, approval of a written plan. The plan must describe the type and quantity of material to be used, the pest to be controlled, the method of application, the location for storage and disposal of containers, and other information that BLM may require. A pesticide may be used only in accordance with its registered uses and within other agency limitations. Pesticides must not be permanently stored on public lands.

FERRON NATURAL GAS PROJECT AREA

PROPOSER: ANADARKO

WELL #: D-2

EPM 16 & 17: WINTER SEASONAL RESTRICTION (DECEMBER 1 to APRIL 15) ON CRUCIAL AND HIGH PRIORITY WINTER RANGE.

Pg 1 of 1

Restrictions on Construction Phase Activity: Prohibit construction phase activity, described below, on big game high value and critical winter range during the period (December 1 - April 15) without regard for land ownership.

This condition would not apply to normal maintenance and operation of producing wells, described below. On nonfederal lands (where the federal government does not have either surface or subsurface ownership) the Companies would be allowed to conduct construction phase activity if needed to avoid breach of contract or loss of lease rights. In the event construction phase activity proceeds into the winter closure period on non federal interest lands, Companies would make available appropriate documentation to UDWR, upon request.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery.

Companies would not be allowed to initiate construction activity unless it is reasonable to believe that such work can be finished to a logical stopping point prior to December 1 of that year. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

- Mobilization/Demobilization or operation of heavy equipment (crawler tractor, front end loader, backhoe, road grader, etc.)
- Construction activity (road construction or upgrading, pad, pipeline, powerline, ancillary facilities, etc.),
- Drilling activity (Operator would not propose or initiate drilling activity if the project could not reasonably be expected to be finished to a logical stopping point by the December 1 date of that year.)
- Seismic operation, detonation of explosives

This seasonal closure would not apply to reconnaissance, survey/design and/or flagging of project work or other similar activity not requiring actions listed for heavy equipment operation.

Production Phase: A well is considered to be in production phase when the well and ancillary facilities are completed to the point that they are capable of producing and delivering product for sale. It is noted that heavy equipment operation may be necessary in the performance of maintenance and operation of producing wells.

Restriction on Non Emergency Workover Operations: The Companies will schedule non-emergency workover operations (defined below) on big game crucial and high value winter range outside the December 1 to April 15 date of the seasonal closure.

Non-emergency Workover Operations: Workover operations to correct or reverse a gradual loss of production over time (loss of production of 20 percent or less over a 60 day period) is considered to be routine or non-emergency workover operations and would not be permitted during the December 1 to April 15 time frame.

Emergency Workover Operations: Emergency work over operations are defined as downhole equipment failure problems or workover operation necessary to avoid shut in of the well or to avoid an immediate safety or environmental problem. Loss of production greater than 20 percent within a 60 day period is indicative of pump failure and will be treated as an emergency workover operation. The Companies will submit Sundry notices to BLM within five days of the emergency workover operations between December 1 and April 15.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO

WELL #: 0-2

EPM 19: CRITICAL WINTER RANGE BROWSE HAND PLANTING

Pg 1 of 1

One or two browse species lists (checked below) are to be hand planted at the prescribed application rate and according to the following prescribed methods on critical winter range areas that are undergoing long term reclamation. This would include all pipeline corridors, berm around edge of drill pads, miscellaneous disturbed areas associated with construction such as staging areas for equipment, sidecast on road cuts, along side upgraded or new roads up to and including borrow ditch and in the termination of redundant access roads being closed. This planting shall be completed in the first planting window following reclamation.

**Planting Methods:**

Planting shall be accomplished using a labor force with specific experience in landscape restoration, hand planting methods and handling and care of browse tubling and or bareroot stock plants.

Browse plants to be utilized can be bareroot stock or tubling stock plants of 1 year old age class or greater.

Browse seedling protectors will be used to provided protection from browsing ungulates for two years. Seedling protectors will be of an open mesh rigid design that will break down when exposed to sunlight and that measures a minimum of 12 inches in length and 4 inches in diameter.

Planting shall be completed in the spring (March 1- April 1) and or fall (November 1- December 1) planting windows.

Browse plants shall be stored and handled in such a manner as to maintain viability, according to the type of browse stock being used.

**Planting Species and Application Rate:**

| <u>Species</u>   | <input checked="" type="checkbox"/> Sagebrush-Grass<br><u>Plants Per Acre</u> | <input type="checkbox"/> Pinyon-Juniper |
|--|---|---|
| Wyoming Sagebrush (Gordon Creek)   | 100   | 50                                      |
| Fourwing Saltbush (Utah seed source collected at<br>or above 5,000 feet elevation) | 100   | 50                                      |
| True Mountain Mahogany (Utah seed source)  | 0   | 50                                      |
| Antelope Bitterbrush (Utah seed source)  | 0   | 50                                      |
| <b>Total</b>   | <b>200</b>  | <b>200</b>                              |

**Suitable Substitutions:**

|                              |     |     |
|------------------------------|-----|-----|
| Prostrate Kochia             | yes | yes |
| Whitestem Rubber Rabbitbrush | no  | yes |
| Utah Serviceberry            | no  | yes |
| Winterfat                    | yes | no  |

FERRON NATURAL GAS PROJECT AREA  
PROPONENT: ANADARKO

WELL #: D-2

**EPM 21: SURFACE DISTURBANCE MITIGATION FOR CRITICAL AND HIGH PRIORITY WINTER RANGE**

Pg. 1 of 1

The subject permit application is proposed within critical and high priority winter range (FEIS) and subject to EPM 21 requiring acre for acre mitigation for surface disturbance on critical winter range. The following condition comes from a cooperative agreement between the Texaco, Anadarko, Chandler (Companies), BLM-Price Field Office, the Utah Division of Wildlife Resources and the National Fish and Wildlife Foundation. The Companies agreed to the following:

1. Contribute \$1,301.26 (1998 dollars) for each Federal interest well (Federal surface and or subsurface ownership) permitted and drilled by the Companies (or on behalf of Companies by its contractor) on big game critical winter range as depicted in the FEIS Ferron Natural Gas Project Area. (Wells meeting the above criteria for which payment will be required, will be referred to as "subject wells".) This contribution will be adjusted annually for inflation based on the Consumer Price Index (CPI), see Section II.C.6. for the reference source used for the determination of the CPI and the date in which this annual adjustment will go into effect.

Since this mitigation program is designed to address impacts of all big game critical winter range surface disturbance (roads, well pads, pipelines, etc.), contributions will be required regardless of the success or failure of the subject well to produce.

- a. The recorded date for spudding for each subject well (the first boring of a hole during the drilling of a well) will serve as the reference date triggering the requirement for the mitigation contribution.
- b. Contributions will be submitted (in the form of an Company check, cashiers check or wire transfer) directly to the National Fish and Wildlife Foundation by the 1<sup>st</sup> of August and February for all subject wells spudded in the preceding six months as reported by the Bureau.
- c. All contributions will be made payable to the "National Fish and Wildlife Foundation re. Proj 99-270" and reference the "Ferron Natural Gas Wildlife Habitat Impact Mitigation Fund".

The following seed mixture would be planted along service road borrow ditches, around the edges of drill pads with a production well, and surrounding other production and maintenance facilities. The purpose for this is to provide a "green strip" buffer to minimize fire hazards and prevent invasion and establishment of noxious weeds in areas that will receive continued disturbance for the life of these areas.

Table A-1

| Common Plant Name       | Scientific Name   | Pounds per acre (PLS) |
|-------------------------|---|-----------------------|
| Forage kochia           | <i>Kochia prostrata</i>                                       | 2                     |
| Wyoming big sagebrush   | <i>Artemisia tridentata wyomingensis</i><br>var. Gordon Creek | 1                     |
| Douglas low rabbitbrush | <i>Chrysothamnus viscidiflorus</i>                            | 1                     |
| TOTAL                   |   | 4                     |

The following seed mixture is for the area that would receive final reclamation. Areas would be planted to protect them from soil erosion and to restore forage production.

Table A-2

| Common Plant Name            | Scientific Name                           | Pounds per acre (PLS) |
|------------------------------|---|-----------------------|
| <b>Sagebrush-Grass Areas</b> |   |                       |
| <i>Grasses</i>               |   |                       |
| Indian ricegrass             | <i>Stipa hymenoides</i>                   | 2                     |
| Squirreltail                 | <i>Elymus elymoides</i>                   | 2                     |
| Thickspike wheatgrass        | <i>Elymus lanceolatus</i>                 | 1                     |
| Crested wheatgrass           | <i>Agropyron desertorum</i>               | 2                     |
| <i>Forbs</i>                 |   |                       |
| Lewis flax                   | <i>Linum perenne lewisii</i>              | 1                     |
| Palmer penstemon             | <i>Penstemon palmerii</i>                 | 1                     |
| Small burnet                 | <i>Sanguisorba minor</i>                  | 1                     |
| <i>Shrubs</i>                |   |                       |
| Forage kochia                | <i>Kochia prostrata</i>                   | 2                     |
| Whitestem rabbitbrush        | <i>Chrysothamnus nauseosus albicaulis</i> | 1                     |
| Fourwing saltbrush           | <i>Atriplex canescense</i>                | 2                     |
| TOTAL                        |   | 15                    |

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Price Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Don Stephens (work: 435-636-3608, home: 435-637-7967) or Mike Kaminski (work: 435-636-3640, home: 435-637-2518) of the BLM, Price Field Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer      Office: (435) 259-2117  
Home: (435) 259-2214

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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5. Lease Designation and Serial Number

6. Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Well Name and Number

Weekly Progress Reports

9. API Well Number

10. Field and Pool, or Wildcat

Helper Field

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER: coalbed methane

2. Name of Operator  
Anadarko Petroleum Corporation

3. Address and Telephone Number.  
17001 Northchase Dr., Houston, Texas 77060 (281) 874-8766

4. Location of Well  
Footages: County:  
QQ.Sec., T., R., M.: State:

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Perforate
- Vent or Flare
- Water Shut-Off

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon\*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Date of work completion \_\_\_\_\_

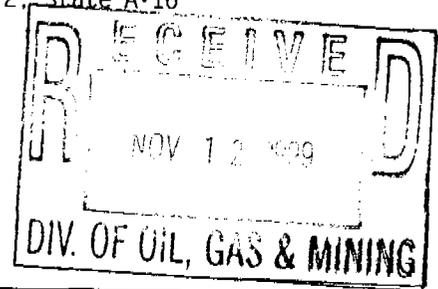
Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Weekly Progress Reports for the following wells in Carbon County, Utah (Week Ending 11-05-99).

Helper Federal B-8, B-10, D-3, D-5, D-6, E-2, F-1, Oliveta Federal A-2, State A-16



13 Name & Signature Judy Davidson Title Regulatory Analyst

Date 11-05-99

(This space for State use only)

ANADARKO PETROLEUM CORPORATION  
WELL HISTORY  
ONSHORE - U.S.

CONFIDENTIAL

HELPER FEDERAL D-3, HELPER FIELD, 1224 FSL & 1330 FWL, SEC 26-13S-10E, CARBON, CO., UT, WI  
1.00, NRI 0.875, AFE #18601, ETD 3,700', GLE 6326' (FERRON), ELLENBURG RIG 15. API #43-007-30543.

*sec. 26 T13S R10E*

10/27/1999 1342' (1342'), **DRLG**, MW AIR  
DFS 01 PRESET & CMT 330' 8-5/8" SURF CSG, MIRU, NU BOP, TEST BOP, RIH, DRILL CMT F/  
307-330, AIR DRLG F/ 330-1342, LAST SURVEY @ 823-3.0°  
CC 30,000

10/28/1999 3395' (2053'), **DRILLING**, MW AIR  
DFS 02 LAST SURVEY @ 2320-5.5°  
CC 60,000

10/29/1999 3544' (149'), **MOVING TO HELPER FEDERAL D-6**, MW AIR  
DFS 3 DRLG F/ 3395-3544, C&C, LOAD HOLE, POOH LDDP, LOG WELL (1<sup>ST</sup> LOG ION BTM @  
0715 10/28/99), RIH W/ 84 JTS 5-1/2" 17# N80 CSG, WASH 15' TO BTM, SET CSG @ 3543,  
CMT W/ 160 SX LEAD @ 12.5 PPG & 120 SX TAIL @ 14.2 PPG, FULL RETURNS, ND BOP,  
SET SLIPS, CUT CSG, **RLS RIG @ 1700 HRS 10/28/99**, LAST SURVEY @ 2320-5.5°  
CC 60,000 - **DROP F/ REPORT**

11/04/1999 TD 3544, PBDT 3505 (FERRON COAL), MIRUWL, RIH W/ GR to 3505', ran gr/ccl/cbl FROM  
PBDT to 690' W/ 1000 psi on csg, TOC 890', PRESS CSG TO 5000 - OK, **PERF 3255-74', 3232-  
34', 3214-28'**, (tot shots 140), CC 68,400.

11/05/1999 TD 3544, PBDT 3505 (FERRON COAL), NR, CC 68,400.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

5. Lease Designation and Serial Number

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well: OIL  GAS  OTHER: coalbed methane

8. Well Name and Number:

2. Name of Operator  
Anadarko Petroleum Corporation

9. API Well Number:

3. Address and Telephone Number.  
17001 Northchase Dr., Houston, Texas 77060 (281) 874-8766

10. Field and Pool, or Wildcat

4. Location of Well  
Footages: Helper Field County: \_\_\_\_\_  
QQ, Sec., T., R., M.: \_\_\_\_\_ State: \_\_\_\_\_

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Perforate
- Vent or Flare
- Water Shut-Off

- Abandon\*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Helper Field Weekly Reports
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

Date of work completion \_\_\_\_\_

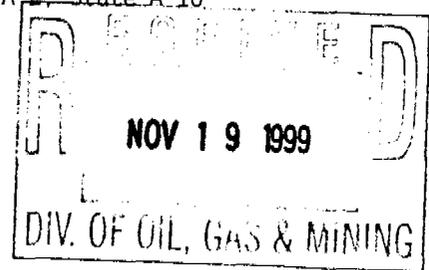
Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Weekly Reports for the following wells in Carbon County, Utah, week ending 11-12-99

Helper Federal Wells B-6, B-7, B-9, D-3, D-5, D-6, E-2, H-2, Chubbuck A-2, State A-16



13. Name & Signature Judy Davidson Title Regulatory Analyst

Date 11-15-99

(This space for State use only)

ANADARKO PETROLEUM CORPORATION  
WELL HISTORY  
ONSHORE - U.S.

CONFIDENTIAL

HELPER FEDERAL D-3, HELPER FIELD, 1224 FSL & 1330 FWL, SEC 26-13S-10E, CARBON, CO., UT, WI  
1.00, NRI 0.875, AFE #18601, ETD 3,700', GLE 6326' (FERRON), ELLENBURG RIG 15. API #43-007-30543.

10/27/1999 1342' (1342'), **DRLG**, MW AIR  
DFS 01 PRESET & CMT 330' 8-5/8" SURF CSG, MIRU, NU BOP, TEST BOP, RIH, **SPUD @ 1400  
HRS ON 10/26/99**, DRILL CMT F/ 307-330, AIR DRLG F/ 330-1342, LAST SURVEY @ 823-  
3.0°  
CC 30,000

10/28/1999 3395' (2053'), **DRILLING**, MW AIR  
DFS 02 LAST SURVEY @ 2320-5.5°  
CC 60,000

10/29/1999 3544' (149'), **MOVING TO HELPER FEDERAL D-6**, MW AIR  
DFS 3 DRLG F/ 3395-3544, C&C, LOAD HOLE, POOH LDDP, LOG WELL (1<sup>ST</sup> LOG ION BTM @  
0715 10/28/99), RIH W/ 84 JTS 5-1/2" 17# N80 CSG, WASH 15' TO BTM, SET CSG @ 3543,  
CMT W/ 160 SX LEAD @ 12.5 PPG & 120 SX TAIL @ 14.2 PPG, FULL RETURNS, ND BOP,  
SET SLIPS, CUT CSG, **RLS RIG @ 1700 HRS 10/28/99**, LAST SURVEY @ 2320-5.5°  
CC 60,000 - **DROP F/ REPORT**

11/04/1999 TD 3544, PBTB 3505 (FERRON COAL), MIRUWL, RIH W/ GR to 3505', ran gr/ccl/cbl FROM  
PBTB to 690' W/ 1000 psi on csg, TOC 890', PRESS CSG TO 5000 - OK, **PERF 3255-74', 3232-  
34', 3214-28'**, (tot shots 140), CC 68,400.

11/05/1999 PBTB 3505 (FERRON COAL), MIRU FRAC EQUIP, FRAC 3214-74 W/ 173000# 16/30, ISIP  
1530-1483-1460, AIR 49@ 1840, TIH W /GR TO 3205, TIH W/ BP SET BP @ 3200, TEST TO  
4000-OK, **PERF 3177-83**, FRAC 3177-83 W/ 40000# 16/30, ISIP 2975-2471-2160, AIR 23@  
4525, TBLTR 3015, RDMO FRAC EQUIP, FLW BACK ON 14/64 CHK, CC 162,330.

11/06/1999 PBTB 3505 (FERRON COAL), WO COMPL UNIT, CC 162,330

11/07/1999 PBTB 3505 (FERRON COAL), WO COMPL UNIT, CC 162,330

11/08/1999 PBTB 3505 (FERRON COAL), WO COMPL UNIT, CC 162,330

11/09/1999 PBTB 3505 (FERRON COAL), WO COMPL UNIT, CC 162,330 --- **DROP FROM REPORT** ---

11/10/1999 PBTB 3505 (FERRON COAL), MIRU, TIH W/ BIT AND TBG, TAG FILL @ 3125', CIRC  
CLEAN TO FRAC PLUG @ 3200', DO PLUG, CO TO PBTB, CIRC CLEAN, POOH W/TBG  
AND BIT TO 3110', SDFN, CC 166,400.

11/11/1999 PBTB 3505 (FERRON COAL), NR, CC 166,400.

11/12/1999 PBTB 3505 (FERRON COAL), IFL 400', FFL 700', SWB 50 BBLS IN 8 RUNS, NO SAND, RD  
SWAB, RIH W/ BIT TO 3505', NO FILL, TOH W/TBG AND BIT, TIH W/ 3" MA, TAC & TBG,  
EOT 3387, ND BOP, NUWH, RIH W/PUMP AND RODS, SEAT PUMP, CLAMP OFF RODS 5"  
OFF TAG, RDMO, WO PROD TESTS, CC 186,800. --- **DROP FROM REPORT** ---

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

OPERATOR Anadarko Petroleum Corporation  
 ADDRESS P. O. Box 1330  
Houston, Texas 77251-1330

OPERATOR ACCT. NO. N 0035

| ACTION CODE                                      | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER   | WELL NAME          | WELL LOCATION |    |     |     |        | SPUD DATE | EFFECTIVE DATE |
|--|--------------------|----------------|--------------|--------------------|---------------|----|-----|-----|--------|-----------|----------------|
|  |                    |                |              |                    | QQ            | SC | TP  | RG  | COUNTY |           |                |
| A  | 99999              | 12634          | 43-007-30543 | Helper Federal D-3 |               | 26 | 13S | 10E | Carbon | 10-26-99  |                |
| WELL 1 COMMENTS: <i>991029 entity added. KDR</i> |                    |                |              |                    |               |    |     |     |        |           |                |
| <b>CONFIDENTIAL</b>                              |                    |                |              |                    |               |    |     |     |        |           |                |
| A  | 99999              | 12635          | 43-007-30546 | Helper Federal D-6 |               | 35 | 13S | 10E | Carbon | 10-29-99  |                |
| WELL 2 COMMENTS: <i>991029 entity added. KDR</i> |                    |                |              |                    |               |    |     |     |        |           |                |
| <b>CONFIDENTIAL</b>                              |                    |                |              |                    |               |    |     |     |        |           |                |
| WELL 3 COMMENTS:                                 |                    |                |              |                    |               |    |     |     |        |           |                |
| WELL 4 COMMENTS:                                 |                    |                |              |                    |               |    |     |     |        |           |                |
| WELL 5 COMMENTS:                                 |                    |                |              |                    |               |    |     |     |        |           |                |

**ACTION CODES** (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

*Julie Davidson*  
 Signature  
 Regulatory Analyst 10-29-99  
 Title Date

Phone No. (281) 874-8766

\*\* TOTAL PAGE: 02 \*\*

OCT 29 '99 16:31 FR ANADARKO PETROLEUM 281 876 8323 TO 918013593940 P.02/02

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Serial No.  
**UTU-68315**  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

7. If Unit or CA/Agreement, Name and/or N

1. Type of Well  
 Oil Well  Gas Well  Other **Coalbed Methane**

8. Well Name and No.  
**Helper Federal D-3**

2. Name of Operator  
**Anadarko Petroleum Corporation**

9. API Well No.  
**43-007-30543**

3a. Address  
**17001 Northchase Dr., Houston, Texas 77060**

3b. Phone No. (include area code)  
**(281) 875-1101**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Surface & BHL: 1224' FSL & 1330 FWL, SW Section 26, T13S, R10E**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**Carbon County UT**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |   |  |  |
|---|---|---|--|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                        |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                        |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>1st Gas Sales</u> |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>12-9-99</u>   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |  |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

**1st Gas Sales: 12-9-99**

**RECEIVED**

**FEB 03 2000**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed) **Shad Frazier**  Title **Production Engineer**  
Date **12-22-99**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Office \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well  Oil Well  Gas Well  Dry  Other **COALBED METHANE**  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.,  
 Other \_\_\_\_\_

5. Lease Serial No.  
**UTU-68315**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
**Anadarko Petroleum Corp.**

8. Lease Name and Well No.  
**HELPER FEDERAL D-3**

3. Address  
**17001 Northchase Dr., Houston, Texas 77060**

3a. Phone No. (include area code)  
**281-875-1101**

9. API Well No.  
**4300730543**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface **1224' FSL & 1330' FWL OF SW/4 SECTION 26-T13S-R10E**

10. Field and Pool, or Exploratory  
**HELPER CBM**

At top prod. interval reported below **SAME**

**CONFIDENTIAL**

11. Sec., T., R., M., or Block and Survey of Area  
**SECTION 26-T13S-R10E**

At total depth **SAME**

12. County or Parish **CARBON** 13. State **UTAH**

14. Date Spudded  
**10/26/99**

15. Date T.D. Reached  
**10/28/99**

16. Date Completed  
 D & A  Ready to Prod.  
**11/05/99**

17. Elevations (DF, RKB, RT, GL)\*  
**6326' G.L.**

18. Total Depth: MD **3544'**  
TVD

19. Plug Back T.D.: MD **3505'**  
TVD

20. Depth Bridge Plug Set: MD **NONE**  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

**CBL\GR\CALP\DRHO\DP\SMP**

*2-3-2000*

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|------------|----------|-------------|----------------------|------------------------------|-------------------|-------------|---------------|
| 8 5/8"    | J-55       | 24#        | 0        | 330'        |                      | 150 SXS                      |                   | SURFACE     | NONE          |
| 5 1/2"    | N-80       | 17#        | 0        | 3544'       |                      | 280 SXS                      |                   | 890'        | NONE          |
|           |            |            |          |             |                      |                              |                   |             |               |
|           |            |            |          |             |                      |                              |                   |             |               |
|           |            |            |          |             |                      |                              |                   |             |               |

24. Tubing Record

| Size   | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2 3/8" | 3387'          |                   |      |                |                   |      |                |                   |

25. Producing Intervals

26. Perforation Record

| Formation      | Top   | Bottom | Perforated Interval   | Size    | No. Holes | Perf. Status |
|----------------|-------|--------|-----------------------|---------|-----------|--------------|
| A) FERRON COAL | 3177' | 3274'  | 3177' -3274' OA       | .42 EHD | 164       | OPEN         |
| B)             |       |        | PLEASE SEE WB DIAGRAM |         |           |              |
| C)             |       |        |                       |         |           |              |
| D)             |       |        |                       |         |           |              |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

**RECEIVED**

| Depth Interval  | Amount and Type of Material                                |
|-----------------|--|
| 3177' -3274' OA | FRAC W/213,000 # 16/30 SAND<br>FLUSH W/3,066 GALLONS WATER |

**FEB 03 2000**

**DIVISION OF OIL, GAS AND MINING**

28. Production - Interval A

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity    | Gas Gravity | Production Method                  |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|----------------|-------------|------------------------------------|
| 12/9/99             | 12/16/99          | 24           | →               | 0       | 24      | 82        | N/A            |             | PUMPING ROD PUMP 2" X 1 1/2" X 12' |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. →        | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |                                    |
| OPEN                |                   | 30           |                 | 0       | 24      | 82        | N/A            | PRODUCING   |                                    |

**CONFIDENTIAL**

28a. Production-Interval B

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity    | Gas Gravity | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|----------------|-------------|-------------------|
|                     |                   |              | →               |         |         |           |                |             |                   |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. →        | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |                   |

**PERIOD EXPIRED**

*ON 12-5-00*

## 28b. Production - Interval C

|                     |                   |              |                   |         |         |           |                |             |                   |
|---------------------|-------------------|--------------|-------------------|---------|---------|-----------|----------------|-------------|-------------------|
| Date First Produced | Test Date         | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity    | Gas Gravity | Production Method |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. →          | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |                   |

## 28c. Production-Interval D

|                     |                   |              |                   |         |         |           |                |             |                   |
|---------------------|-------------------|--------------|-------------------|---------|---------|-----------|----------------|-------------|-------------------|
| Date First Produced | Test Date         | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity    | Gas Gravity | Production Method |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. →          | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |                   |

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD TO QUESTAR

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

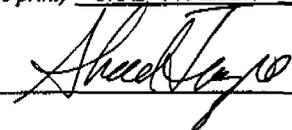
| Formation    | Top  | Bottom | Descriptions, Contents, etc. | Name             | Top         |
|--------------|------|--------|------------------------------|------------------|-------------|
|              |      |        |                              |                  | Meas. Depth |
| FERRON SANDS | 3116 | 3175   |                              | FERRON SANDSTONE | 3116        |
| FERRON COAL  | 3175 | 3330   |                              | FERRON COAL      | 3175        |
| TUNUNK SHALE | 3330 | 3544   |                              | TUNUNK SHALE     | 3330        |

## 32. Additional remarks (include plugging procedure):

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd)    2. Geologic Report    3. DST Report    4. Directional Survey  
5. Sundry Notice for plugging and cement verification    6. Core Analysis    7. Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) SHAD FRAZIERTitle PRODUCTION ENGINEERSignature Date 1/21/00

**Helper Federal D-5**

1224' FSL & 1330 FWL Sec 26-13S-10E

API 43-007-30543

LAST REVISED: 01/29/2000

**Anadarko**  
Petroleum Corporation

SPUD 10/26/1999 RIG OFF 10/28/1999  
SURFACE PRODUCTION  
WI% 100% NR1% 87.50000%

6326 GL KB 6338

**DATE WELL WORK HISTORY**

12-1/4" Hole  
8-5/8" 24# J-55  
TOC @ Surface  
150 SXS CMT

330

**CONFIDENTIAL**

TOC

890'

**RECEIVED**

FEB 03 2000

DIVISION OF  
OIL, GAS AND MINING

**NOTES:**

**Perforations**

3177 - 3183

3214 - 3228

3232 - 3234

3255 - 3274

164 Total Holes

PBTD

3505

7-7/8" Hole

5-1/2", 17# N-80

w/280 sxs cmt

3544

TD 3544

**SURFACE STRING**

8 5/8 24# J-55 set @ 330 Total Capacity: 21 bbl

**CEMENT:**

Type: Class G  
Volume: 150 sxs Calc. Top: Surface

**PRODUCTION STRING**

5.5" 17# - set @ 3543 FC@ Burst: 7740 psi  
FS@ Collapse 6280 psi  
Hole Size: 7 7/8 TD: 3544 Capacity 0.0232 bbl/ft

**CEMENT:**

Class G Type: 12.5 & 14.2 ppg Number of Joints 88  
Volume: 160 sxs lead & 120 sxs tail

**TUBING & TOOLS**

I.D 1.997 Burst: 11199 psi  
2 3/8" 4.7 # 8rd EUE EOT @ 3387 Collapse 11776 psi  
Disc: TAC@ Capacity 0.00387 bbl/ft

**RQD STRING**

3/4 Rods  
7/8" Rods  
1 1/2" Rods

**DEVIATION ANGLE**

823 2  
2320 5 1/2

**FORMATION**

| FORMATION    | TOP  | KB   | 6338 |
|--------------|------|------|------|
| FERRON SS    | 3116 | 3222 |      |
| FERRON COAL  | 3175 | 3163 |      |
| TUNUNK SHALE | 3330 | 3008 |      |

Gross Coal 17

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

|   |   |
|---|---|
| <b>FROM:</b> (Old Operator):<br>N0035-Anadarko Petroleum Corporation<br>PO Box 173779<br>Denver, CO, 80214<br><br>Phone: 1 (720) 929-6000 | <b>TO:</b> ( New Operator):<br>N3940- Anadarko E&P Onshore LLC<br>PO Box 173779<br>Denver, CO 802014<br><br>Phone: 1 (720) 929-6000 |
|---|---|

| CA No.            |     |     | Unit: |        |           |            |           |             |
|-------------------|-----|-----|-------|--------|-----------|------------|-----------|-------------|
| WELL NAME         | SEC | TWN | RNG   | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
| See Attached List |     |     |       |        |           |            |           |             |

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/9/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 4/10/2013
- a. Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 593715-0161
- 5a. (R649-9-2)Waste Management Plan has been received on: Yes
- 5b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- 5c. Reports current for Production/Disposition & Sundries on: 4/10/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
- Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 4/11/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/11/2013
- Bond information entered in RBDMS on: 4/10/2013
- Fee/State wells attached to bond in RBDMS on: 4/11/2013
- Injection Projects to new operator in RBDMS on: 4/11/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: WYB000291
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 4/11/2013

**COMMENTS:**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|   |  |   |
|---|--|---|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CBM Wells</u> |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br><u>See Wells</u> |
| 2. NAME OF OPERATOR:<br><u>Anadarko Petroleum Corporation</u>   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:                       |
| 3. ADDRESS OF OPERATOR:<br>P.O. Box 173779 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80217</u>                |  | 7. UNIT or CA AGREEMENT NAME:                               |
| PHONE NUMBER:<br><u>(720) 929-6000</u>  |  | 8. WELL NAME and NUMBER:                                    |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:   |  | 9. API NUMBER:<br><u>See Wells</u>                          |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  |  | 10. FIELD AND POOL, OR WILDCAT:                             |
|   |  | COUNTY: <u>    </u>   |
|   |  | STATE: <u>UTAH</u>  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will start:<br><u>4/8/2013</u> | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of work completion:                      | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input checked="" type="checkbox"/> OPERATOR CHANGE       | <input type="checkbox"/> TUBING REPAIR                 |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |
|  | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

Effective 4/1/13

Please contact the undersigned if there are any questions.

RECEIVED  
**APR 09 2013**

Jaime Scharnowske  
Jaime Scharnowske  
Regulatory Analyst

Anadarko Petroleum Corporation **N0035**  
P.O. Box 173779  
Denver, CO 80214  
(720) 929-6000

DIV. OF OIL, GAS & MINING  
Jaime Scharnowske  
Jaime Scharnowske  
Regulatory Analyst

Anadarko E&P Onshore, LLC **N3940**  
P.O. Box 173779  
Denver, CO 80214  
(720) 929-6000

|  |                                 |
|--|---------------------------------|
| NAME (PLEASE PRINT) <u>Jaime Scharnowske</u> | TITLE <u>Regulatory Analyst</u> |
| SIGNATURE <u>Jaime Scharnowske</u>           | DATE <u>4/8/2013</u>            |

(This space for State use only)

**APPROVED**

**APR 11 2013**

Rachel Medina

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)  
 Effective 1<sup>st</sup> April-2013

| Well Name               | Sec | Twncshp | Range | API        | Entity No. | Lease Type | Well Type | Well status |
|-------------------------|-----|---------|-------|------------|------------|------------|-----------|-------------|
| HELPER ST SWD 1         | 03  | 140S    | 100E  | 4300730361 | 12258      | State      | WD        | A           |
| FED F-2 SWD             | 08  | 140S    | 100E  | 4300730555 | 12557      | Federal    | WD        | A           |
| CLAWSON SPRING ST SWD 4 | 13  | 160S    | 080E  | 4301530477 | 12979      | State      | WD        | A           |
| CLAWSON SPRING ST SWD 1 | 36  | 150S    | 080E  | 4300730721 | 12832      | State      | WD        | I           |
| HELPER FED B-1          | 33  | 130S    | 100E  | 4300730189 | 11537      | Federal    | GW        | P           |
| HELPER FED A-1          | 23  | 130S    | 100E  | 4300730190 | 11517      | Federal    | GW        | P           |
| HELPER FED A-3          | 22  | 130S    | 100E  | 4300730213 | 11700      | Federal    | GW        | P           |
| HELPER FED C-1          | 22  | 130S    | 100E  | 4300730214 | 11702      | Federal    | GW        | P           |
| HELPER FED B-5          | 27  | 130S    | 100E  | 4300730215 | 11701      | Federal    | GW        | P           |
| HELPER FED A-2          | 22  | 130S    | 100E  | 4300730216 | 11699      | Federal    | GW        | P           |
| HELPER FED D-1          | 26  | 130S    | 100E  | 4300730286 | 12061      | Federal    | GW        | P           |
| BIRCH A-1               | 05  | 140S    | 100E  | 4300730348 | 12120      | Fee        | GW        | P           |
| HELPER ST A-1           | 03  | 140S    | 100E  | 4300730349 | 12122      | State      | GW        | P           |
| HELPER ST D-7           | 04  | 140S    | 100E  | 4300730350 | 12121      | State      | GW        | P           |
| CHUBBUCK A-1            | 31  | 130S    | 100E  | 4300730352 | 12397      | Fee        | GW        | P           |
| VEA A-1                 | 32  | 130S    | 100E  | 4300730353 | 12381      | Fee        | GW        | P           |
| VEA A-2                 | 32  | 130S    | 100E  | 4300730354 | 12483      | Fee        | GW        | P           |
| VEA A-3                 | 32  | 130S    | 100E  | 4300730355 | 12398      | Fee        | GW        | P           |
| VEA A-4                 | 32  | 130S    | 100E  | 4300730356 | 12482      | Fee        | GW        | P           |
| HELPER ST A-8           | 02  | 140S    | 100E  | 4300730357 | 12257      | State      | GW        | P           |
| HELPER ST A-3           | 02  | 140S    | 100E  | 4300730358 | 12254      | State      | GW        | P           |
| HELPER ST A-4           | 02  | 140S    | 100E  | 4300730359 | 12255      | State      | GW        | P           |
| HELPER ST A-7           | 02  | 140S    | 100E  | 4300730360 | 12256      | State      | GW        | P           |
| HELPER ST A-2           | 03  | 140S    | 100E  | 4300730362 | 12232      | State      | GW        | P           |
| HELPER ST A-5           | 03  | 140S    | 100E  | 4300730363 | 12231      | State      | GW        | P           |
| HELPER ST A-6           | 03  | 140S    | 100E  | 4300730364 | 12233      | State      | GW        | P           |
| HELPER ST D-4           | 04  | 140S    | 100E  | 4300730365 | 12228      | State      | GW        | P           |
| HELPER ST D-3           | 05  | 140S    | 100E  | 4300730366 | 12184      | State      | GW        | P           |
| HELPER ST D-5           | 04  | 140S    | 100E  | 4300730367 | 12226      | State      | GW        | P           |
| HELPER ST D-8           | 04  | 140S    | 100E  | 4300730368 | 12229      | State      | GW        | P           |
| HELPER ST D-2           | 05  | 140S    | 100E  | 4300730369 | 12481      | State      | GW        | P           |
| HELPER ST D-6           | 05  | 140S    | 100E  | 4300730370 | 12234      | State      | GW        | P           |
| HELPER ST D-1           | 06  | 140S    | 100E  | 4300730371 | 12399      | State      | GW        | P           |
| BIRCH A-2               | 08  | 140S    | 100E  | 4300730372 | 12189      | Fee        | GW        | P           |
| HELPER ST A-9           | 10  | 140S    | 100E  | 4300730373 | 12230      | State      | GW        | P           |
| HELPER ST B-1           | 09  | 140S    | 100E  | 4300730376 | 12227      | State      | GW        | P           |
| HELPER FED F-3          | 08  | 140S    | 100E  | 4300730378 | 12252      | Federal    | GW        | P           |
| HELPER FED F-4          | 09  | 140S    | 100E  | 4300730379 | 12253      | Federal    | GW        | P           |
| HELPER ST A-10          | 10  | 140S    | 100E  | 4300730433 | 12488      | State      | GW        | P           |
| HELPER ST A-11          | 11  | 140S    | 100E  | 4300730434 | 12487      | State      | GW        | P           |
| HELPER ST A-12          | 10  | 140S    | 100E  | 4300730435 | 12486      | State      | GW        | P           |
| HELPER ST A-13          | 10  | 140S    | 100E  | 4300730436 | 12485      | State      | GW        | P           |
| HELPER ST B-2           | 09  | 140S    | 100E  | 4300730437 | 12484      | State      | GW        | P           |
| HELPER FED E-7          | 19  | 130S    | 100E  | 4300730508 | 13623      | Federal    | GW        | P           |
| HELPER FED B-2          | 33  | 130S    | 100E  | 4300730530 | 12619      | Federal    | GW        | P           |
| HELPER FED B-3          | 33  | 130S    | 100E  | 4300730531 | 12622      | Federal    | GW        | P           |
| HELPER FED B-4          | 33  | 130S    | 100E  | 4300730532 | 12623      | Federal    | GW        | P           |
| HELPER FED B-6          | 27  | 130S    | 100E  | 4300730533 | 12644      | Federal    | GW        | P           |
| HELPER FED B-7          | 27  | 130S    | 100E  | 4300730534 | 12645      | Federal    | GW        | P           |
| HELPER FED B-8          | 27  | 130S    | 100E  | 4300730535 | 12631      | Federal    | GW        | P           |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)  
 Effective 1-April-2013

| Well Name             | Sec | Twnshp | Range | API        | Entity No. | Lease Type | Well Type | Well status |
|-----------------------|-----|--------|-------|------------|------------|------------|-----------|-------------|
| HELPER FED B-9        | 34  | 130S   | 100E  | 4300730536 | 12646      | Federal    | GW        | P           |
| HELPER FED B-10       | 34  | 130S   | 100E  | 4300730537 | 12626      | Federal    | GW        | P           |
| HELPER FED B-11       | 34  | 130S   | 100E  | 4300730538 | 12628      | Federal    | GW        | P           |
| HELPER FED B-12       | 34  | 130S   | 100E  | 4300730539 | 12627      | Federal    | GW        | P           |
| HELPER FED B-13       | 28  | 130S   | 100E  | 4300730540 | 12621      | Federal    | GW        | P           |
| HELPER FED B-14       | 28  | 130S   | 100E  | 4300730541 | 12620      | Federal    | GW        | P           |
| HELPER FED D-2        | 26  | 130S   | 100E  | 4300730542 | 12650      | Federal    | GW        | P           |
| HELPER FED D-3        | 26  | 130S   | 100E  | 4300730543 | 12634      | Federal    | GW        | P           |
| HELPER FED D-4        | 35  | 130S   | 100E  | 4300730544 | 12625      | Federal    | GW        | P           |
| HELPER FED D-5        | 35  | 130S   | 100E  | 4300730545 | 12637      | Federal    | GW        | P           |
| HELPER FED D-6        | 35  | 130S   | 100E  | 4300730546 | 12635      | Federal    | GW        | P           |
| HELPER FED E-1        | 29  | 130S   | 100E  | 4300730547 | 13246      | Federal    | GW        | P           |
| HELPER FED E-2        | 29  | 130S   | 100E  | 4300730548 | 12636      | Federal    | GW        | P           |
| HELPER FED H-1        | 01  | 140S   | 100E  | 4300730549 | 12653      | Federal    | GW        | P           |
| HELPER FED H-2        | 01  | 140S   | 100E  | 4300730550 | 12647      | Federal    | GW        | P           |
| OLIVETO FED A-2       | 08  | 140S   | 100E  | 4300730556 | 12630      | Federal    | GW        | P           |
| HELPER FED F-1        | 08  | 140S   | 100E  | 4300730557 | 12629      | Federal    | GW        | P           |
| SMITH FED A-1         | 09  | 140S   | 100E  | 4300730558 | 13004      | Federal    | GW        | P           |
| SE INVESTMENTS A-1    | 06  | 140S   | 100E  | 4300730570 | 12624      | Fee        | GW        | P           |
| HELPER ST A-14        | 11  | 140S   | 100E  | 4300730571 | 12612      | State      | GW        | P           |
| HELPER ST A-15        | 11  | 140S   | 100E  | 4300730572 | 12613      | State      | GW        | P           |
| HELPER ST E-1         | 36  | 130S   | 100E  | 4300730573 | 12615      | State      | GW        | P           |
| HELPER ST E-2         | 36  | 130S   | 100E  | 4300730574 | 12614      | State      | GW        | P           |
| HARMOND A-1           | 07  | 140S   | 100E  | 4300730586 | 12616      | Fee        | GW        | P           |
| HELPER ST E-3         | 36  | 130S   | 100E  | 4300730592 | 12868      | State      | GW        | P           |
| HELPER FED A-6        | 23  | 130S   | 100E  | 4300730593 | 12649      | Federal    | GW        | P           |
| HELPER FED D-7        | 26  | 130S   | 100E  | 4300730594 | 12651      | Federal    | GW        | P           |
| HELPER FED D-8        | 35  | 130S   | 100E  | 4300730595 | 12652      | Federal    | GW        | P           |
| CLAWSON SPRING ST A-1 | 36  | 150S   | 080E  | 4300730597 | 12618      | State      | GW        | P           |
| HELPER ST E-4         | 36  | 130S   | 100E  | 4300730598 | 12825      | State      | GW        | P           |
| HELPER ST A-16        | 11  | 140S   | 100E  | 4300730603 | 12638      | State      | GW        | P           |
| CHUBBUCK A-2          | 06  | 140S   | 100E  | 4300730604 | 12648      | Fee        | GW        | P           |
| CLAWSON SPRING ST A-2 | 36  | 150S   | 080E  | 4300730635 | 12856      | State      | GW        | P           |
| CLAWSON SPRING ST A-3 | 36  | 150S   | 080E  | 4300730636 | 13001      | State      | GW        | P           |
| CLAWSON SPRING ST A-4 | 36  | 150S   | 080E  | 4300730637 | 12844      | State      | GW        | P           |
| CLAWSON SPRING ST D-5 | 31  | 150S   | 090E  | 4300730642 | 12852      | State      | GW        | P           |
| CLAWSON SPRING ST D-6 | 31  | 150S   | 090E  | 4300730643 | 12847      | State      | GW        | P           |
| CLAWSON SPRING ST D-7 | 31  | 150S   | 090E  | 4300730644 | 12849      | State      | GW        | P           |
| HELPER FED A-5        | 23  | 130S   | 100E  | 4300730677 | 13010      | Federal    | GW        | P           |
| HELPER FED A-7        | 22  | 130S   | 100E  | 4300730678 | 13346      | Federal    | GW        | P           |
| HELPER FED B-15       | 28  | 130S   | 100E  | 4300730679 | 13015      | Federal    | GW        | P           |
| HELPER FED B-16       | 28  | 130S   | 100E  | 4300730680 | 13203      | Federal    | GW        | P           |
| HELPER FED C-2        | 24  | 130S   | 100E  | 4300730681 | 13016      | Federal    | GW        | P           |
| HELPER FED C-4        | 24  | 130S   | 100E  | 4300730682 | 13012      | Federal    | GW        | P           |
| HELPER FED C-7        | 21  | 130S   | 100E  | 4300730684 | 13204      | Federal    | GW        | P           |
| HELPER FED D-9        | 25  | 130S   | 100E  | 4300730685 | 13245      | Federal    | GW        | P           |
| HELPER FED D-10       | 25  | 130S   | 100E  | 4300730686 | 12993      | Federal    | GW        | P           |
| HELPER FED D-11       | 25  | 130S   | 100E  | 4300730687 | 12992      | Federal    | GW        | P           |
| HELPER FED D-12       | 25  | 130S   | 100E  | 4300730688 | 13005      | Federal    | GW        | P           |
| HELPER FED E-4        | 29  | 130S   | 100E  | 4300730689 | 13229      | Federal    | GW        | P           |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)  
 Effective 1-April-2013

| Well Name             | Sec | Twنشp | Range | API        | Entity No. | Lease Type | Well Type | Well status |
|-----------------------|-----|-------|-------|------------|------------|------------|-----------|-------------|
| HELPER FED A-4        | 23  | 130S  | 100E  | 4300730692 | 13009      | Federal    | GW        | P           |
| HELPER FED C-5        | 24  | 130S  | 100E  | 4300730693 | 13013      | Federal    | GW        | P           |
| HELPER FED G-1        | 30  | 130S  | 110E  | 4300730694 | 13006      | Federal    | GW        | P           |
| HELPER FED G-2        | 30  | 130S  | 110E  | 4300730695 | 13007      | Federal    | GW        | P           |
| HELPER FED G-3        | 31  | 130S  | 110E  | 4300730696 | 13002      | Federal    | GW        | P           |
| HELPER FED G-4        | 31  | 130S  | 110E  | 4300730697 | 13003      | Federal    | GW        | P           |
| HELPER FED H-3        | 01  | 140S  | 100E  | 4300730698 | 12831      | Federal    | GW        | P           |
| HELPER FED H-4        | 01  | 140S  | 100E  | 4300730699 | 12833      | Federal    | GW        | P           |
| CLAWSON SPRING ST D-8 | 31  | 150S  | 090E  | 4300730701 | 12851      | State      | GW        | P           |
| HELPER FED C-3        | 24  | 130S  | 100E  | 4300730702 | 13011      | Federal    | GW        | P           |
| CLAWSON SPRING ST J-1 | 35  | 150S  | 080E  | 4300730726 | 13299      | Fee        | GW        | P           |
| PIERUCCI 1            | 35  | 150S  | 080E  | 4300730727 | 13325      | Fee        | GW        | P           |
| POTTER ETAL 1         | 35  | 150S  | 080E  | 4300730728 | 12958      | Fee        | GW        | P           |
| POTTER ETAL 2         | 35  | 150S  | 080E  | 4300730737 | 12959      | Fee        | GW        | P           |
| HELPER FED G-5        | 30  | 130S  | 110E  | 4300730770 | 13655      | Federal    | GW        | P           |
| HELPER FED G-6        | 30  | 130S  | 110E  | 4300730771 | 13656      | Federal    | GW        | P           |
| HELPER FED G-7        | 31  | 130S  | 110E  | 4300730772 | 13657      | Federal    | GW        | P           |
| HELPER FED G-8        | 31  | 130S  | 110E  | 4300730773 | 13658      | Federal    | GW        | P           |
| GOODALL A-1           | 06  | 140S  | 110E  | 4300730774 | 13348      | Fee        | GW        | P           |
| HELPER FED E-8        | 19  | 130S  | 100E  | 4300730776 | 13624      | Federal    | GW        | P           |
| HAUSKNECHT A-1        | 21  | 130S  | 100E  | 4300730781 | 13347      | Fee        | GW        | P           |
| HELPER FED E-9        | 19  | 130S  | 100E  | 4300730868 | 13628      | Federal    | GW        | P           |
| HELPER FED E-5        | 20  | 130S  | 100E  | 4300730869 | 13625      | Federal    | GW        | P           |
| HELPER FED E-6        | 20  | 130S  | 100E  | 4300730870 | 13631      | Federal    | GW        | P           |
| HELPER FED E-10       | 30  | 130S  | 100E  | 4300730871 | 13629      | Federal    | GW        | P           |
| SACCOMANNO A-1        | 30  | 130S  | 100E  | 4300730872 | 13622      | Fee        | GW        | P           |
| HELPER FED E-11       | 30  | 130S  | 100E  | 4300730873 | 13630      | Federal    | GW        | P           |
| BLACKHAWK A-2         | 29  | 130S  | 100E  | 4300730886 | 13783      | Fee        | GW        | P           |
| BLACKHAWK A-3         | 20  | 130S  | 100E  | 4300730914 | 13794      | Fee        | GW        | P           |
| BLACKHAWK A-4         | 21  | 130S  | 100E  | 4300730915 | 13795      | Fee        | GW        | P           |
| BLACKHAWK A-1X        | 20  | 130S  | 100E  | 4300730923 | 13798      | Fee        | GW        | P           |
| HELPER STATE 12-3     | 03  | 140S  | 100E  | 4300750070 | 17824      | State      | GW        | P           |
| HELPER STATE 32-3     | 03  | 140S  | 100E  | 4300750071 | 17827      | State      | GW        | P           |
| HELPER STATE 32-36    | 36  | 130S  | 100E  | 4300750072 | 17825      | State      | GW        | P           |
| VEA 32-32             | 32  | 130S  | 100E  | 4300750075 | 17826      | Fee        | GW        | P           |
| CLAWSON SPRING ST E-7 | 07  | 160S  | 090E  | 4301530392 | 12960      | State      | GW        | P           |
| CLAWSON SPRING ST E-8 | 07  | 160S  | 090E  | 4301530394 | 12964      | State      | GW        | P           |
| CLAWSON SPRING ST E-3 | 06  | 160S  | 090E  | 4301530403 | 12965      | State      | GW        | P           |
| CLAWSON SPRING ST E-1 | 06  | 160S  | 090E  | 4301530404 | 12966      | State      | GW        | P           |
| CLAWSON SPRING ST E-2 | 06  | 160S  | 090E  | 4301530405 | 12961      | State      | GW        | P           |
| CLAWSON SPRING ST E-4 | 06  | 160S  | 090E  | 4301530406 | 12962      | State      | GW        | P           |
| CLAWSON SPRING ST C-1 | 12  | 160S  | 080E  | 4301530410 | 12617      | State      | GW        | P           |
| CLAWSON SPRING ST B-1 | 01  | 160S  | 080E  | 4301530427 | 12845      | State      | GW        | P           |
| CLAWSON SPRING ST B-2 | 01  | 160S  | 080E  | 4301530428 | 12846      | State      | GW        | P           |
| CLAWSON SPRING ST B-3 | 01  | 160S  | 080E  | 4301530429 | 12848      | State      | GW        | P           |
| CLAWSON SPRING ST B-4 | 01  | 160S  | 080E  | 4301530430 | 12854      | State      | GW        | P           |
| CLAWSON SPRING ST B-5 | 12  | 160S  | 080E  | 4301530431 | 12963      | State      | GW        | P           |
| CLAWSON SPRING ST B-8 | 11  | 160S  | 080E  | 4301530432 | 12863      | State      | GW        | P           |
| CLAWSON SPRING ST B-9 | 11  | 160S  | 080E  | 4301530433 | 12864      | State      | GW        | P           |
| CLAWSON SPRING ST C-2 | 12  | 160S  | 080E  | 4301530434 | 12850      | State      | GW        | P           |

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)  
 Effective 1-April-2013

| Well Name               | Sec | Twnshp | Range | API        | Entity No. | Lease Type | Well Type | Well status |
|-------------------------|-----|--------|-------|------------|------------|------------|-----------|-------------|
| CLAWSON SPRING ST C-4   | 14  | 160S   | 080E  | 4301530435 | 13199      | State      | GW        | P           |
| CLAWSON SPRING ST B-7   | 11  | 160S   | 080E  | 4301530460 | 12967      | State      | GW        | P           |
| CLAWSON SPRING ST C-6   | 14  | 160S   | 080E  | 4301530461 | 13355      | State      | GW        | P           |
| CLAWSON SPRING ST C-3   | 12  | 160S   | 080E  | 4301530463 | 12968      | State      | GW        | P           |
| CLAWSON SPRING ST B-6   | 11  | 160S   | 080E  | 4301530465 | 12969      | State      | GW        | P           |
| CLAWSON SPRING ST H-1   | 13  | 160S   | 080E  | 4301530466 | 13323      | State      | GW        | P           |
| CLAWSON SPRING ST H-2   | 13  | 160S   | 080E  | 4301530467 | 12955      | State      | GW        | P           |
| CLAWSON SPRING ST IPA-1 | 10  | 160S   | 080E  | 4301530468 | 12956      | Fee        | GW        | P           |
| CLAWSON SPRING ST IPA-2 | 15  | 160S   | 080E  | 4301530469 | 13200      | Fee        | GW        | P           |
| CLAWSON SPRING ST E-5   | 07  | 160S   | 090E  | 4301530470 | 12971      | State      | GW        | P           |
| CLAWSON SPRING ST G-1   | 02  | 160S   | 080E  | 4301530471 | 13014      | State      | GW        | P           |
| CLAWSON SPRING ST F-2   | 03  | 160S   | 080E  | 4301530472 | 13282      | State      | GW        | P           |
| CLAWSON SPRING ST F-1   | 03  | 160S   | 080E  | 4301530473 | 13278      | State      | GW        | P           |
| CLAWSON SPRING ST E-6   | 07  | 160S   | 090E  | 4301530474 | 13052      | State      | GW        | P           |
| CLAWSON SPRING ST G-2   | 02  | 160S   | 080E  | 4301530475 | 12957      | State      | GW        | P           |
| CLAWSON SPRING ST M-1   | 02  | 160S   | 080E  | 4301530488 | 13201      | State      | GW        | P           |
| CLAWSON SPRING ST K-1   | 02  | 160S   | 080E  | 4301530489 | 13202      | State      | GW        | P           |
| SHIMMIN TRUST 3         | 14  | 120S   | 100E  | 4300730119 | 11096      | Fee        | GW        | PA          |
| SHIMMIN TRUST 1         | 11  | 120S   | 100E  | 4300730120 | 11096      | Fee        | GW        | PA          |
| SHIMMIN TRUST 2         | 14  | 120S   | 100E  | 4300730121 | 11096      | Fee        | GW        | PA          |
| SHIMMIN TRUST 4         | 11  | 120S   | 100E  | 4300730123 | 11096      | Fee        | GW        | PA          |
| ST 9-16                 | 16  | 120S   | 100E  | 4300730132 | 11402      | State      | GW        | PA          |
| ST 2-16                 | 16  | 120S   | 100E  | 4300730133 | 11399      | State      | GW        | PA          |
| MATTS SUMMIT ST A-1     | 14  | 120S   | 090E  | 4300730141 | 11273      | State      | GW        | PA          |
| SLEMAKER A-1            | 05  | 120S   | 120E  | 4300730158 | 11441      | Fee        | GW        | PA          |
| JENSEN 16-10            | 10  | 120S   | 100E  | 4300730161 | 11403      | Fee        | GW        | PA          |
| JENSEN 7-15             | 15  | 120S   | 100E  | 4300730165 | 11407      | Fee        | GW        | PA          |
| SHIMMIN TRUST 12-12     | 12  | 120S   | 100E  | 4300730168 | 11420      | Fee        | GW        | PA          |
| JENSEN 11-15            | 15  | 120S   | 100E  | 4300730175 | 11425      | Fee        | GW        | PA          |
| BRYNER A-1              | 11  | 120S   | 120E  | 4300730188 | 11503      | Fee        | GW        | PA          |
| BRYNER A-1X (RIG SKID)  | 11  | 120S   | 120E  | 4300730209 | 11503      | Fee        | GW        | PA          |
| BLACKHAWK A-1           | 20  | 130S   | 100E  | 4300730885 | 13798      | Fee        | D         | PA          |
| BLACKHAWK A-5H          | 20  | 130S   | 100E  | 4300731402 | 17029      | Fee        | D         | PA          |
| CLAWSON SPRING ST SWD 3 | 06  | 160S   | 090E  | 4301530476 | 12978      | State      | D         | PA          |
| HELPER FED C-6          | 21  | 130S   | 100E  | 4300730683 | 13008      | Federal    | GW        | S           |
| UTAH 10-415             | 10  | 160S   | 080E  | 4301530391 | 12632      | State      | GW        | TA          |

|    | API Well Number | Well Name       | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|----|-----------------|-----------------|---------|---------|----------|-------|--------------------|----------------------|-------------|
| 1  | 4300730189      | HELPER FED B-1  | NESW    | 33      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 2  | 4300730190      | HELPER FED A-1  | C-SW    | 23      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 3  | 4300730213      | HELPER FED A-3  | SESE    | 22      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 4  | 4300730214      | HELPER FED C-1  | SENE    | 22      | 13S      | 10E   | Federal            | USA UTU 71391        | Producing   |
| 5  | 4300730215      | HELPER FED B-5  | NENE    | 27      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 6  | 4300730216      | HELPER FED A-2  | NESW    | 22      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 7  | 4300730286      | HELPER FED D-1  | SWNE    | 26      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 8  | 4300730378      | HELPER FED F-3  | NENE    | 8       | 14S      | 10E   | Federal            | USA UTU 65762        | Producing   |
| 9  | 4300730379      | HELPER FED F-4  | NWNW    | 9       | 14S      | 10E   | Federal            | USA UTU 65762        | Producing   |
| 10 | 4300730508      | HELPER FED E-7  | SESE    | 19      | 13S      | 10E   | Federal            | USA UTU 77980        | Producing   |
| 11 | 4300730530      | HELPER FED B-2  | SENE    | 33      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 12 | 4300730531      | HELPER FED B-3  | NESE    | 33      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 13 | 4300730532      | HELPER FED B-4  | NENE    | 33      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 14 | 4300730533      | HELPER FED B-6  | NENW    | 27      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 15 | 4300730534      | HELPER FED B-7  | NESW    | 27      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 16 | 4300730535      | HELPER FED B-8  | SESE    | 27      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 17 | 4300730536      | HELPER FED B-9  | SENE    | 34      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 18 | 4300730537      | HELPER FED B-10 | NWNE    | 34      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 19 | 4300730538      | HELPER FED B-11 | SESW    | 34      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 20 | 4300730539      | HELPER FED B-12 | NESE    | 34      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 21 | 4300730540      | HELPER FED B-13 | SWSE    | 28      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 22 | 4300730541      | HELPER FED B-14 | SWSW    | 28      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 23 | 4300730542      | HELPER FED D-2  | SWNW    | 26      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 24 | 4300730543      | HELPER FED D-3  | SESW    | 26      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 25 | 4300730544      | HELPER FED D-4  | NWNW    | 35      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 26 | 4300730545      | HELPER FED D-5  | SESW    | 35      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 27 | 4300730546      | HELPER FED D-6  | NWSE    | 35      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 28 | 4300730547      | HELPER FED E-1  | NESE    | 29      | 13S      | 10E   | Federal            | USA UTU 71675        | Producing   |
| 29 | 4300730548      | HELPER FED E-2  | SESW    | 29      | 13S      | 10E   | Federal            | USA UTU 71675        | Producing   |
| 30 | 4300730549      | HELPER FED H-1  | NENW    | 1       | 14S      | 10E   | Federal            | USA UTU 72352        | Producing   |
| 31 | 4300730550      | HELPER FED H-2  | SESW    | 1       | 14S      | 10E   | Federal            | USA UTU 72352        | Producing   |
| 32 | 4300730556      | OLIVETO FED A-2 | NESW    | 8       | 14S      | 10E   | Federal            | USA UTU 65762        | Producing   |
| 33 | 4300730557      | HELPER FED F-1  | SESE    | 8       | 14S      | 10E   | Federal            | USA UTU 65762        | Producing   |
| 34 | 4300730558      | SMITH FED A-1   | NWSW    | 9       | 14S      | 10E   | Federal            | USA UTU 65762        | Producing   |
| 35 | 4300730593      | HELPER FED A-6  | SESE    | 23      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 36 | 4300730594      | HELPER FED D-7  | C-SE    | 26      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 37 | 4300730595      | HELPER FED D-8  | NENE    | 35      | 13S      | 10E   | Federal            | USA UTU 68315        | Producing   |
| 38 | 4300730677      | HELPER FED A-5  | NENE    | 23      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 39 | 4300730678      | HELPER FED A-7  | SENE    | 22      | 13S      | 10E   | Federal            | USA UTU 58434        | Producing   |
| 40 | 4300730679      | HELPER FED B-15 | SENE    | 28      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 41 | 4300730680      | HELPER FED B-16 | SWNW    | 28      | 13S      | 10E   | Federal            | USA UTU 71392        | Producing   |
| 42 | 4300730681      | HELPER FED C-2  | NENW    | 24      | 13S      | 10E   | Federal            | USA UTU 71391        | Producing   |

| API Well Number | Well Name  | Qtr/Qtr                | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status   |                       |
|-----------------|------------|------------------------|---------|----------|-------|--------------------|----------------------|---------------|-----------------------|
| 43              | 4300730682 | HELPER FED C-4         | NWSW    | 24       | 13S   | 10E                | Federal              | USA UTU 71391 | Producing             |
| 44              | 4300730683 | HELPER FED C-6         | SWSE    | 21       | 13S   | 10E                | Federal              | USA UTU 71391 | Shut-In               |
| 45              | 4300730684 | HELPER FED C-7         | SESW    | 21       | 13S   | 10E                | Federal              | USA UTU 71391 | Producing             |
| 46              | 4300730685 | HELPER FED D-9         | NWNW    | 25       | 13S   | 10E                | Federal              | USA UTU 68315 | Producing             |
| 47              | 4300730686 | HELPER FED D-10        | SENE    | 25       | 13S   | 10E                | Federal              | USA UTU 68315 | Producing             |
| 48              | 4300730687 | HELPER FED D-11        | SESW    | 25       | 13S   | 10E                | Federal              | USA UTU 68315 | Producing             |
| 49              | 4300730688 | HELPER FED D-12        | SESE    | 25       | 13S   | 10E                | Federal              | USA UTU 68315 | Producing             |
| 50              | 4300730689 | HELPER FED E-4         | NWNE    | 29       | 13S   | 10E                | Federal              | USA UTU 71675 | Producing             |
| 51              | 4300730692 | HELPER FED A-4         | SWNW    | 23       | 13S   | 10E                | Federal              | USA UTU 58434 | Producing             |
| 52              | 4300730693 | HELPER FED C-5         | SWNE    | 24       | 13S   | 10E                | Federal              | USA UTU 71391 | Producing             |
| 53              | 4300730694 | HELPER FED G-1         | C-NW    | 30       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 54              | 4300730695 | HELPER FED G-2         | SWSW    | 30       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 55              | 4300730696 | HELPER FED G-3         | SENE    | 31       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 56              | 4300730697 | HELPER FED G-4         | SESW    | 31       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 57              | 4300730698 | HELPER FED H-3         | SWNE    | 1        | 14S   | 10E                | Federal              | USA UTU 72352 | Producing             |
| 58              | 4300730699 | HELPER FED H-4         | NESE    | 1        | 14S   | 10E                | Federal              | USA UTU 72352 | Producing             |
| 59              | 4300730702 | HELPER FED C-3         | SESW    | 24       | 13S   | 10E                | Federal              | USA UTU 71391 | Producing             |
| 60              | 4300730770 | HELPER FED G-5         | SWNE    | 30       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 61              | 4300730771 | HELPER FED G-6         | SWSE    | 30       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 62              | 4300730772 | HELPER FED G-7         | NWNE    | 31       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 63              | 4300730773 | HELPER FED G-8         | NESE    | 31       | 13S   | 11E                | Federal              | USA UTU 71677 | Producing             |
| 64              | 4300730776 | HELPER FED E-8         | SENE    | 19       | 13S   | 10E                | Federal              | USA UTU 77980 | Producing             |
| 65              | 4300730868 | HELPER FED E-9         | SESW    | 19       | 13S   | 10E                | Federal              | USA UTU 77980 | Producing             |
| 66              | 4300730869 | HELPER FED E-5         | SWSW    | 20       | 13S   | 10E                | Federal              | USA UTU 71675 | Producing             |
| 67              | 4300730870 | HELPER FED E-6         | SWNW    | 20       | 13S   | 10E                | Federal              | USA UTU 71675 | Producing             |
| 68              | 4300730871 | HELPER FED E-10        | NENW    | 30       | 13S   | 10E                | Federal              | USA UTU 71675 | Producing             |
| 69              | 4300730873 | HELPER FED E-11        | NWNE    | 30       | 13S   | 10E                | Federal              | USA UTU 71675 | Producing             |
| 70              | 4300730119 | SHIMMIN TRUST 3        | SENE    | 14       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 71              | 4300730120 | SHIMMIN TRUST 1        | SESE    | 11       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 72              | 4300730121 | SHIMMIN TRUST 2        | SENE    | 14       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 73              | 4300730123 | SHIMMIN TRUST 4        | SESW    | 11       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 74              | 4300730158 | SLEMAKER A-1           | SWNE    | 5        | 12S   | 12E                | Fee (Private)        |               | Plugged and Abandoned |
| 75              | 4300730161 | JENSEN 16-10           | SESE    | 10       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 76              | 4300730165 | JENSEN 7-15            | SWNE    | 15       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 77              | 4300730168 | SHIMMIN TRUST 12-12    | NWSW    | 12       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 78              | 4300730175 | JENSEN 11-15           | NESW    | 15       | 12S   | 10E                | Fee (Private)        |               | Plugged and Abandoned |
| 79              | 4300730188 | BRYNER A-1             | NESE    | 11       | 12S   | 12E                | Fee (Private)        |               | Plugged and Abandoned |
| 80              | 4300730209 | BRYNER A-1X (RIG SKID) | NESE    | 11       | 12S   | 12E                | Fee (Private)        |               | Plugged and Abandoned |
| 81              | 4300730348 | BIRCH A-1              | NWSW    | 5        | 14S   | 10E                | Fee (Private)        |               | Producing             |
| 82              | 4300730352 | CHUBBUCK A-1           | NESE    | 31       | 13S   | 10E                | Fee (Private)        |               | Producing             |
| 83              | 4300730353 | VEA A-1                | SWNW    | 32       | 13S   | 10E                | Fee (Private)        |               | Producing             |
| 84              | 4300730354 | VEA A-2                | NENE    | 32       | 13S   | 10E                | Fee (Private)        |               | Producing             |

|     | API Well Number | Well Name               | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status           |
|-----|-----------------|-------------------------|---------|---------|----------|-------|--------------------|----------------------|-----------------------|
| 85  | 4300730355      | VEA A-3                 | SESW    | 32      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 86  | 4300730356      | VEA A-4                 | NWSE    | 32      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 87  | 4300730372      | BIRCH A-2               | NWNW    | 8       | 14S      | 10E   | Fee (Private)      |                      | Producing             |
| 88  | 4300730570      | SE INVESTMENTS A-1      | NESE    | 6       | 14S      | 10E   | Fee (Private)      |                      | Producing             |
| 89  | 4300730586      | HARMOND A-1             | SENE    | 7       | 14S      | 10E   | Fee (Private)      |                      | Producing             |
| 90  | 4300730604      | CHUBBUCK A-2            | SESW    | 6       | 14S      | 10E   | Fee (Private)      |                      | Producing             |
| 91  | 4300730726      | CLAWSON SPRING ST J-1   | SESW    | 35      | 15S      | 8E    | Fee (Private)      |                      | Producing             |
| 92  | 4300730727      | PIERUCCI 1              | SESW    | 35      | 15S      | 8E    | Fee (Private)      |                      | Producing             |
| 93  | 4300730728      | POTTER ETAL 1           | SWNE    | 35      | 15S      | 8E    | Fee (Private)      |                      | Producing             |
| 94  | 4300730737      | POTTER ETAL 2           | NESE    | 35      | 15S      | 8E    | Fee (Private)      |                      | Producing             |
| 95  | 4300730774      | GOODALL A-1             | NWSW    | 6       | 14S      | 11E   | Fee (Private)      |                      | Producing             |
| 96  | 4300730781      | HAUSKNECHT A-1          | SWNW    | 21      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 97  | 4300730872      | SACCOMANNO A-1          | NESE    | 30      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 98  | 4300730885      | BLACKHAWK A-1           | SESE    | 20      | 13S      | 10E   | Fee (Private)      |                      | Plugged and Abandoned |
| 99  | 4300730886      | BLACKHAWK A-2           | NWNW    | 29      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 100 | 4300730914      | BLACKHAWK A-3           | SENE    | 20      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 101 | 4300730915      | BLACKHAWK A-4           | NENE    | 21      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 102 | 4300730923      | BLACKHAWK A-1X          | SESE    | 20      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 103 | 4300731402      | BLACKHAWK A-5H          | NENE    | 20      | 13S      | 10E   | Fee (Private)      |                      | Plugged and Abandoned |
| 104 | 4300750075      | VEA 32-32               | SWNE    | 32      | 13S      | 10E   | Fee (Private)      |                      | Producing             |
| 105 | 4301530468      | CLAWSON SPRING ST IPA-1 | SESE    | 10      | 16S      | 8E    | Fee (Private)      |                      | Producing             |
| 106 | 4301530469      | CLAWSON SPRING ST IPA-2 | NENE    | 15      | 16S      | 8E    | Fee (Private)      |                      | Producing             |
| 107 | 4300730132      | ST 9-16                 | NESE    | 16      | 12S      | 10E   | State              | ML-44443             | Plugged and Abandoned |
| 108 | 4300730133      | ST 2-16                 | NWNE    | 16      | 12S      | 10E   | State              | ML-44443             | Plugged and Abandoned |
| 109 | 4300730141      | MATTS SUMMIT ST A-1     | NWNW    | 14      | 12S      | 9E    | State              | ML-44496             | Plugged and Abandoned |
| 110 | 4300730349      | HELPER ST A-1           | SESW    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 111 | 4300730350      | HELPER ST D-7           | NWSW    | 4       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 112 | 4300730357      | HELPER ST A-8           | NWSE    | 2       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 113 | 4300730358      | HELPER ST A-3           | NWNW    | 2       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 114 | 4300730359      | HELPER ST A-4           | NWNE    | 2       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 115 | 4300730360      | HELPER ST A-7           | NESW    | 2       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 116 | 4300730362      | HELPER ST A-2           | NENE    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 117 | 4300730363      | HELPER ST A-5           | NESW    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 118 | 4300730364      | HELPER ST A-6           | NESE    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 119 | 4300730365      | HELPER ST D-4           | SWNW    | 4       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 120 | 4300730366      | HELPER ST D-3           | NENE    | 5       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 121 | 4300730367      | HELPER ST D-5           | NWNE    | 4       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 122 | 4300730368      | HELPER ST D-8           | SESE    | 4       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 123 | 4300730369      | HELPER ST D-2           | NENW    | 5       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 124 | 4300730370      | HELPER ST D-6           | SESE    | 5       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 125 | 4300730371      | HELPER ST D-1           | NENE    | 6       | 14S      | 10E   | State              | ST UT ML 45804       | Producing             |
| 126 | 4300730373      | HELPER ST A-9           | SESW    | 10      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |

|     | API Well Number | Well Name             | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status           |
|-----|-----------------|-----------------------|---------|---------|----------|-------|--------------------|----------------------|-----------------------|
| 127 | 4300730376      | HELPER ST B-1         | SWNE    | 9       | 14S      | 10E   | State              | ST UT ML 47556       | Producing             |
| 128 | 4300730433      | HELPER ST A-10        | NWNE    | 10      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 129 | 4300730434      | HELPER ST A-11        | SWNW    | 11      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 130 | 4300730435      | HELPER ST A-12        | NWSW    | 10      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 131 | 4300730436      | HELPER ST A-13        | NESE    | 10      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 132 | 4300730437      | HELPER ST B-2         | NESE    | 9       | 14S      | 10E   | State              | ST UT ML 47556       | Producing             |
| 133 | 4300730571      | HELPER ST A-14        | SESW    | 11      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 134 | 4300730572      | HELPER ST A-15        | SENE    | 11      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 135 | 4300730573      | HELPER ST E-1         | SESW    | 36      | 13S      | 10E   | State              | ST UT ML 45802       | Producing             |
| 136 | 4300730574      | HELPER ST E-2         | SWNW    | 36      | 13S      | 10E   | State              | ST UT ML 45802       | Producing             |
| 137 | 4300730592      | HELPER ST E-3         | NENE    | 36      | 13S      | 10E   | State              | ST UT ML 45802       | Producing             |
| 138 | 4300730597      | CLAWSON SPRING ST A-1 | SWSE    | 36      | 15S      | 8E    | State              | ST UT ML 46106       | Producing             |
| 139 | 4300730598      | HELPER ST E-4         | SWSE    | 36      | 13S      | 10E   | State              | ST UT ML 45802       | Producing             |
| 140 | 4300730603      | HELPER ST A-16        | SWSE    | 11      | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 141 | 4300730635      | CLAWSON SPRING ST A-2 | NWNW    | 36      | 15S      | 8E    | State              | ST UT ML 46106       | Producing             |
| 142 | 4300730636      | CLAWSON SPRING ST A-3 | NESW    | 36      | 15S      | 8E    | State              | ST UT ML 46106       | Producing             |
| 143 | 4300730637      | CLAWSON SPRING ST A-4 | NWNE    | 36      | 15S      | 8E    | State              | ST UT ML 46106       | Producing             |
| 144 | 4300730642      | CLAWSON SPRING ST D-5 | NENW    | 31      | 15S      | 9E    | State              | ML-48226             | Producing             |
| 145 | 4300730643      | CLAWSON SPRING ST D-6 | SWSW    | 31      | 15S      | 9E    | State              | ML-48226             | Producing             |
| 146 | 4300730644      | CLAWSON SPRING ST D-7 | NWNE    | 31      | 15S      | 9E    | State              | ML-48226             | Producing             |
| 147 | 4300730701      | CLAWSON SPRING ST D-8 | NWSE    | 31      | 15S      | 9E    | State              | ML-48226             | Producing             |
| 148 | 4300750070      | HELPER STATE 12-3     | SWNW    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 149 | 4300750071      | HELPER STATE 32-3     | SWNE    | 3       | 14S      | 10E   | State              | ST UT ML 45805       | Producing             |
| 150 | 4300750072      | HELPER STATE 32-36    | SWNE    | 36      | 13S      | 10E   | State              | ST UT ML 45802       | Producing             |
| 151 | 4301530391      | UTAH 10-415           | NENE    | 10      | 16S      | 8E    | State              | ST UT ML 48189       | Temporarily-Abandoned |
| 152 | 4301530392      | CLAWSON SPRING ST E-7 | SENE    | 7       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 153 | 4301530394      | CLAWSON SPRING ST E-8 | SWSE    | 7       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 154 | 4301530403      | CLAWSON SPRING ST E-3 | SENE    | 6       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 155 | 4301530404      | CLAWSON SPRING ST E-1 | SENE    | 6       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 156 | 4301530405      | CLAWSON SPRING ST E-2 | NESW    | 6       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 157 | 4301530406      | CLAWSON SPRING ST E-4 | NWSE    | 6       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing             |
| 158 | 4301530410      | CLAWSON SPRING ST C-1 | SWNW    | 12      | 16S      | 8E    | State              | ST UT UO 48209       | Producing             |
| 159 | 4301530427      | CLAWSON SPRING ST B-1 | NENW    | 1       | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 160 | 4301530428      | CLAWSON SPRING ST B-2 | NWSW    | 1       | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 161 | 4301530429      | CLAWSON SPRING ST B-3 | NWNE    | 1       | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 162 | 4301530430      | CLAWSON SPRING ST B-4 | SESE    | 1       | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 163 | 4301530431      | CLAWSON SPRING ST B-5 | SWSW    | 12      | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 164 | 4301530432      | CLAWSON SPRING ST B-8 | SENE    | 11      | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 165 | 4301530433      | CLAWSON SPRING ST B-9 | NWSE    | 11      | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |
| 166 | 4301530434      | CLAWSON SPRING ST C-2 | SENE    | 12      | 16S      | 8E    | State              | ST UT UO 48209       | Producing             |
| 167 | 4301530435      | CLAWSON SPRING ST C-4 | SWNW    | 14      | 16S      | 8E    | State              | ST UT UO 48209       | Producing             |
| 168 | 4301530460      | CLAWSON SPRING ST B-7 | NWSW    | 11      | 16S      | 8E    | State              | ST UT ML 48216       | Producing             |

|     | API Well Number | Well Name             | Qtr/Qtr | Section | Township | Range | Mineral Lease Type | Mineral Lease Number | Well Status |
|-----|-----------------|-----------------------|---------|---------|----------|-------|--------------------|----------------------|-------------|
| 169 | 4301530461      | CLAWSON SPRING ST C-6 | SENE    | 14      | 16S      | 8E    | State              | ST UT UO 48209       | Producing   |
| 170 | 4301530463      | CLAWSON SPRING ST C-3 | C-SE    | 12      | 16S      | 8E    | State              | ST UT UO 48209       | Producing   |
| 171 | 4301530465      | CLAWSON SPRING ST B-6 | NENW    | 11      | 16S      | 8E    | State              | ST UT ML 48216       | Producing   |
| 172 | 4301530466      | CLAWSON SPRING ST H-1 | NENW    | 13      | 16S      | 8E    | State              | ST UT ML 48217-A     | Producing   |
| 173 | 4301530467      | CLAWSON SPRING ST H-2 | NENE    | 13      | 16S      | 8E    | State              | ST UT ML 48217-A     | Producing   |
| 174 | 4301530470      | CLAWSON SPRING ST E-5 | NENW    | 7       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing   |
| 175 | 4301530471      | CLAWSON SPRING ST G-1 | NWNW    | 2       | 16S      | 8E    | State              | ST UT ML 46314       | Producing   |
| 176 | 4301530472      | CLAWSON SPRING ST F-2 | NESE    | 3       | 16S      | 8E    | State              | ST UT ML 48515       | Producing   |
| 177 | 4301530473      | CLAWSON SPRING ST F-1 | SENE    | 3       | 16S      | 8E    | State              | ST UT ML 48514       | Producing   |
| 178 | 4301530474      | CLAWSON SPRING ST E-6 | SESW    | 7       | 16S      | 9E    | State              | ST UT ML 48220-A     | Producing   |
| 179 | 4301530475      | CLAWSON SPRING ST G-2 | NESW    | 2       | 16S      | 8E    | State              | ST UT ML 46314       | Producing   |
| 180 | 4301530488      | CLAWSON SPRING ST M-1 | NWNE    | 2       | 16S      | 8E    | State              | ST UT ML 47561       | Producing   |
| 181 | 4301530489      | CLAWSON SPRING ST K-1 | SESE    | 2       | 16S      | 8E    | State              | ST UT ML 46043       | Producing   |