

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER Coalbed Methane SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Anadarko Petroleum Corporation

3. ADDRESS AND TELEPHONE NO.
 One LSS, Ste. 1400, 211 N. Robinson, Okla. City, OK 73102-

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 7115
 1464' FSL & 2244' FWL (SW/NE)
 At proposed prod. zone
 1464' FSL & 2244' FWL (SW/NE)

5. LEASE DESIGNATION AND SERIAL NO.
 U-58434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARMOR LEASE NAME, WELL NO.
 Helper Federal

9. AP WELL NO.
 A-2

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA
 Sec. 22-13S-10E

12. COUNTY OR PARISH
 Carbon

13. STATE
 UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.6 miles north of Price, UT

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 1464' FSL

16. NO. OF ACRES IN LEASE
 1111.44

17. NO. OF ACRES ASSIGNED TO THIS WELL
 N/A

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2500.94

19. PROPOSED DEPTH
 4400'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR 6658'

22. APPROX. DATE WORK WILL START*
 07/01/94

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"	24.0	300'	200 cu.ft.
7-7/8"	5-1/2"	15.5	4400'	300 cu.ft.

Attached is the following:

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

FEB 17 1994

The Cultural Resource Study will be submitted under separate cover.

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.

SIGNED D. R. Winchester TITLE Sr. Staff Drlg. Engr. DATE 02/10/94

(This space for Federal or State office use)

PERMIT NO. 43-007-300116

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
 DATE: 9/16/94
 BY: JAY Matthews
 WELL SPACING: 649-3-3

APPROVED BY _____ TITLE _____

*See Instructions On Reverse Side

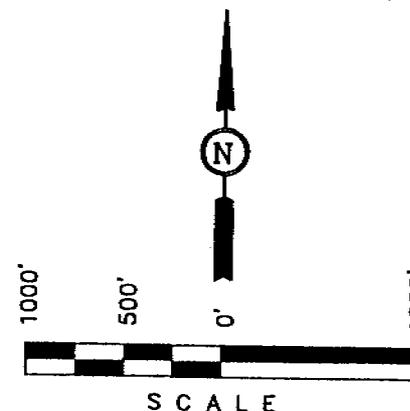
T13S, R10E, S.L.B.&M.

ANADARKO PETROLEUM CORP.

Well location, HELPER FEDERAL #A-2, located as shown in LOT 1 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

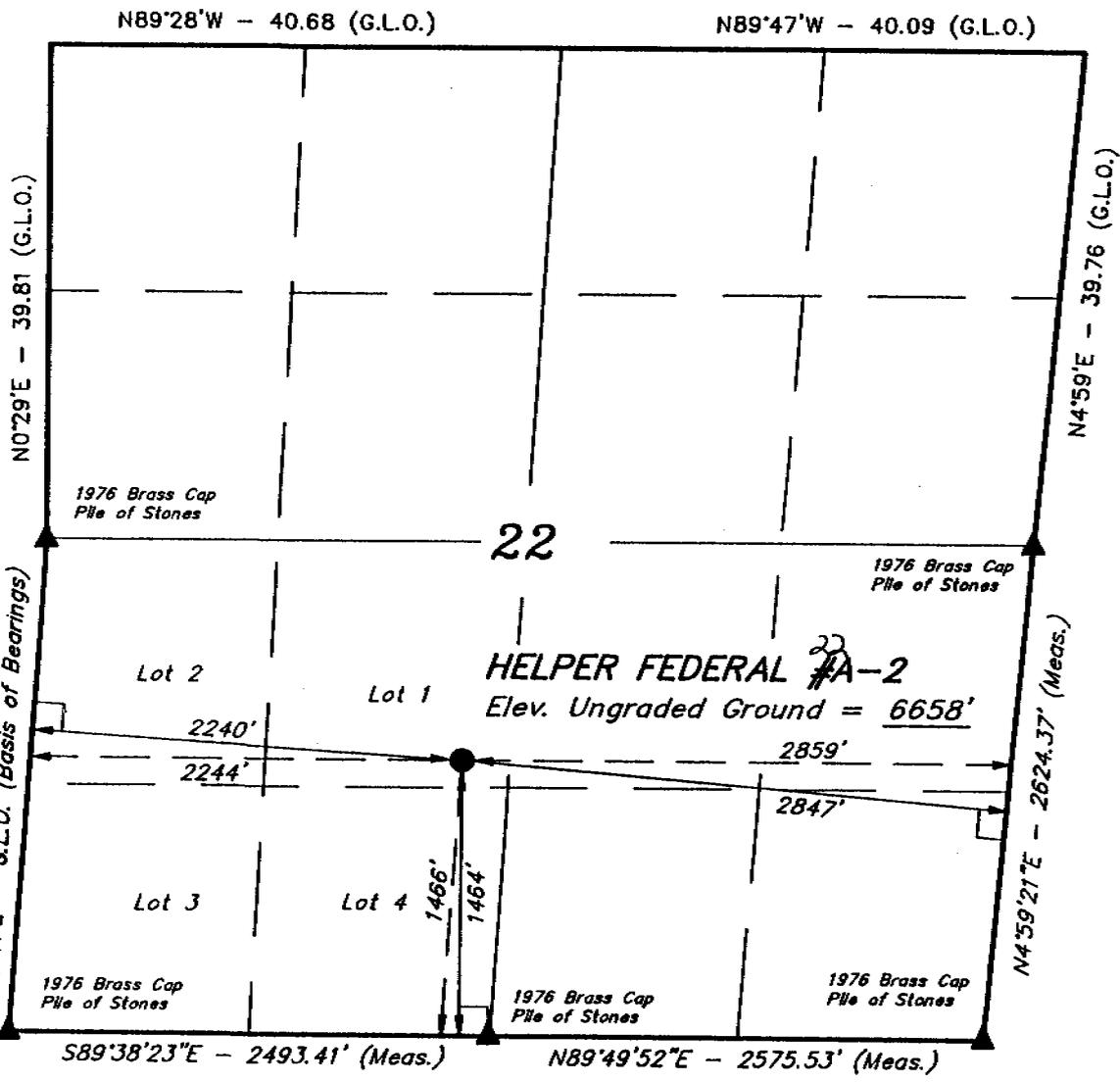
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 02-3-94 D.R.B.
REVISED: 10-29-93 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-12-93	DATE DRAWN: 10-24-93
PARTY D.A. D.G. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE ANADARKO PETROLEUM CORP.	



LEGEND:

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

FIG. 17 1994

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

Company: Anadarko Petroleum Corporation Well: Helper Federal 22A-2
Location: SW/NE Sec. 22-13S-10E Lease No: U-58434 (Federal)
1464' FSL & 2244' FWL of Section 22
Carbon County, Utah Surface Elevation: 6658'

A. Estimated Tops of Important Geologic Markers:

<u>Geologic Marker</u>	<u>Depth</u>
=====	=====
Pediment Gravels	Surface
Mancos-Bluegate Shale	300'
Ferron Sandstone	3600'
Tununk	3900'

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

Gas-bearing Ferron Sandstone is expected to be encountered from 3600-3900'.

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

C. Pressure Control Equipment:

An 11" 3000 psi WP double gate hydraulic BOP with pipe rams and blind rams will be installed on the 8-5/8" casinghead. 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 casing. 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" casing will be set at approximately 300'.

Production Casing - 5-1/2" casing will be set at approximately 4400' if well is to be completed.

	<u>Size</u>	<u>Wt./Ft.</u>	<u>Grd.</u>	<u>Thrd.</u>	<u>Condition</u>
Surface	8-5/8"	24.0	K-55	8rd	New
Production	5-1/2"	15.5	K-55	8rd	New

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

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.

E. Mud Program and Circulating Medium:

Fresh water circulated through the reserve pit will be used for drilling the 12-1/4" surface hole to 300'. A low solids, non-dispersed mud system with funnel viscosity of 35-40 seconds, API water loss of 10-20 cc/30 minutes, and 8.8-9.2 ppg mud weight will be used for drilling from below surface pipe at 300' to TD.

The mud system will be visually monitored.

A truck-mounted air drilling rig may 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.

Sufficient mud materials will be stored at the wellsite to maintain mud requirements and to control minor well control or lost circulation problems.

F. Coring, Logging, and Testing Program:

a. Rotary sidewall coring in the Ferron Sandstone interval (3600'-3900') may be performed, depending upon shows and hole conditions.

b. DSTs may be run depending upon shows.

c. The following logging program is planned:
1. DIL-ML-SP-GR-CAL over prospective intervals.
2. SDL-CNL-GR-CAL over prospective intervals.
3. CNL-CAL-GR TD to Surface (300'-4400' Est.)

d. A mud logging unit with chromatograph will be used from approximately 2000' to TD.

e. Productive zones will be swab tested. Water produced during testing will be contained in the temporary reserve pit. All produced oil will be stored and sold. Gas may be flared during testing.

G. Abnormal Conditions and Potential Hazards:

Abnormal conditions such as abnormal temperatures or pressures are noted. Potential hazards such as H₂S are also not anticipated.

Minimum 1 inches

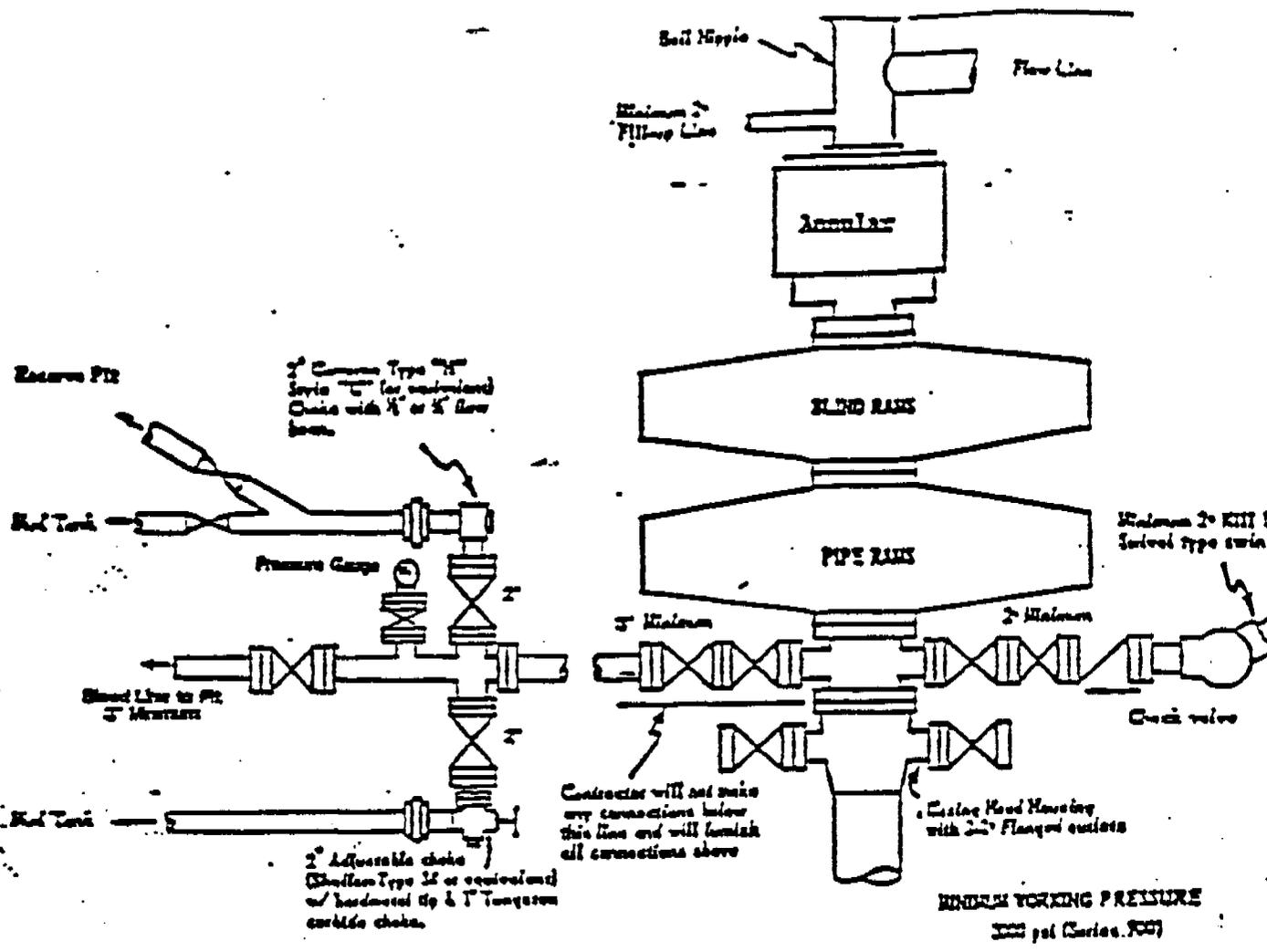


EXHIBIT A



MINIMUM SLOWOUT PREVENTER REQUIREMENTS - NORMAL PRESSURE (SHALLOW SERVICE)

**SURFACE USE PLAN
TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL**

Anadarko Petroleum Corporation
Helper Federal 22A-2
1464' FSL & 2244' FWL
Section 22-T13S-R10E
Carbon County, Utah

1. Existing Roads: See Map "A" and Map "B"
 - a. Location of proposed well in relation to town or other reference point: Location is approximately 7.6 miles north of Price, Utah.
 - b. Proposed route to location: (See Map "A" for marked access).
 - c. Location and description of roads in the area:
(See Map "A" and Map "B").
 - 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.

2. Planned Access Roads:
 - a. The existing and proposed roads will be crowned, ditched or dipped from the existing County road to the location prior to use for moving the drilling rig onto the site. The maximum disturbed width will not exceed 30' with an eighteen foot running surface. Dust will be controlled by the use of water or an approved dust retardant, as directed by the Area Manager. All roads, including access to drilling water, will be maintained in as good or better condition than existing condition.
 - b. Maximum grades: Maximum grade will be less than 10%.
 - c. Turnouts: None planned.
 - d. Location: Access to the location uses an existing road. New road that will be constructed for access off of the existing road is flagged. (See Map "B").
 - e. Drainage: The road surface will be center crowned with ditches on each side of road. Slopes will have a maximum slope of 3:1.
 - f. There will be no culverts placed in the ditchways 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.

g. Surface materials (source): Surface materials will 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. Location of Existing Wells: (2 mile radius)

No producing wells are located within a two mile radius of the proposed well.

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. 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 the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests 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 the Price River Resource 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.

Water supply will be obtained from either the City of Price or from irrigation canals 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.

7. Methods of Handling Waste Disposal:

The reserve pit will not be lined.

Produced waste water will be confined to an unlined pit for a period not to exceed 90-days after initial production.

Trash will be confined in a covered container 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:

Not applicable for drilling operations in this area.

9. Wellsite Layout:

A plat showing access to the well-pad and the location of the reserve pit are attached.

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

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 River Resource Area 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 the well is a producer:

Unneeded areas of the location will be reclaimed as soon as the reserve pit has dried. Upgrade and maintain the access roads 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 below. 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 location will be painted to blend with the natural environment.

If the well is abandoned/dryhole:

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 location and seed using a seed mixture approved by the Area Office. The access road and location 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:

United State 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.

"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 surface use plan.

An archaeology inspection will be performed by an authorized contractor. Their report on this inspection will be sent directly to the Price River Resource Area 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 River Resource Area

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 Area 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 Area Manager from a Federal Agency insofar as practical. When not practical, the Operator will follow the mitigation requirements set forth by the Area Manager concerning protection, preservation, or disposition of any sites or material discovered. Within five working days the Area Manager will inform the Operator as to:

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 Area Manager to complete an expedited review under 36 CFR 800.11 to conform, through the State Historic Preservation Officer, that the findings of the Area 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 Area Manager will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, in those situations where the Area Manager determines that mitigation, data recovery and/or salvage excavations are necessary, the Operator will bear the cost. The Area Manager will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Area 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: D. W. Ault *415-7022*
Phone: (405) 236-2821 or (405) 552-6222
Address: Anadarko Petroleum Corporation
One Leadership Square, Suite 1400
211 N. Robinson
Oklahoma City, Oklahoma 73102-7115

Certification

=====

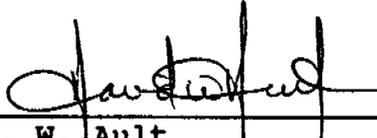
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated 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.

2-14-94

Date



D. W. Ault

Division Drilling Engineer

utah-drilling.plan.
pah-02/10/94

Be advised that Anadarko Petroleum Corporation is considered to be the Operator of the HELPER FEDERAL 22-A2, (SW/NE) Sec. 22-T13S-R10E, Lease No. U-58434, Carbon County, Utah, 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 Bond No. 153571.
(Principal: Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR 3104.2. (Surety - Seaboard Surety) 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. U-58434	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coalbed Methane <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Anadarko Petroleum Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. One LSS, Ste. 1400, 211 N. Robinson, Okla. City, OK 73102-		8. FARM OR LEASE NAME, WELL NO. Helper Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1464' FSL & 2244' FWL (SW/NE) At proposed prod. zone		9. AP WELL NO. 22A-2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.6 miles north of Price, UT		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1464' FSL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-13S-10E	
16. NO. OF ACRES IN LEASE 1111.44		12. COUNTY OR PARISH Carbon	
17. NO. OF ACRES ASSIGNED TO THIS WELL N/A		13. STATE UT	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500.94		20. ROTARY OR CABLE TOOLS Rotary	

BLM Bond No. ES0128
Surety ID: 153571
Nationwide: \$150,000
Principal: Anadarko Petroleum Corp.
Bond Filed / Accepted: 4/1/88

SIGNED D. R. Winchester TITLE D. R. Winchester Sr. Staff Drlg. Engr. DATE 02/10/94

(This space for Federal or State office use)

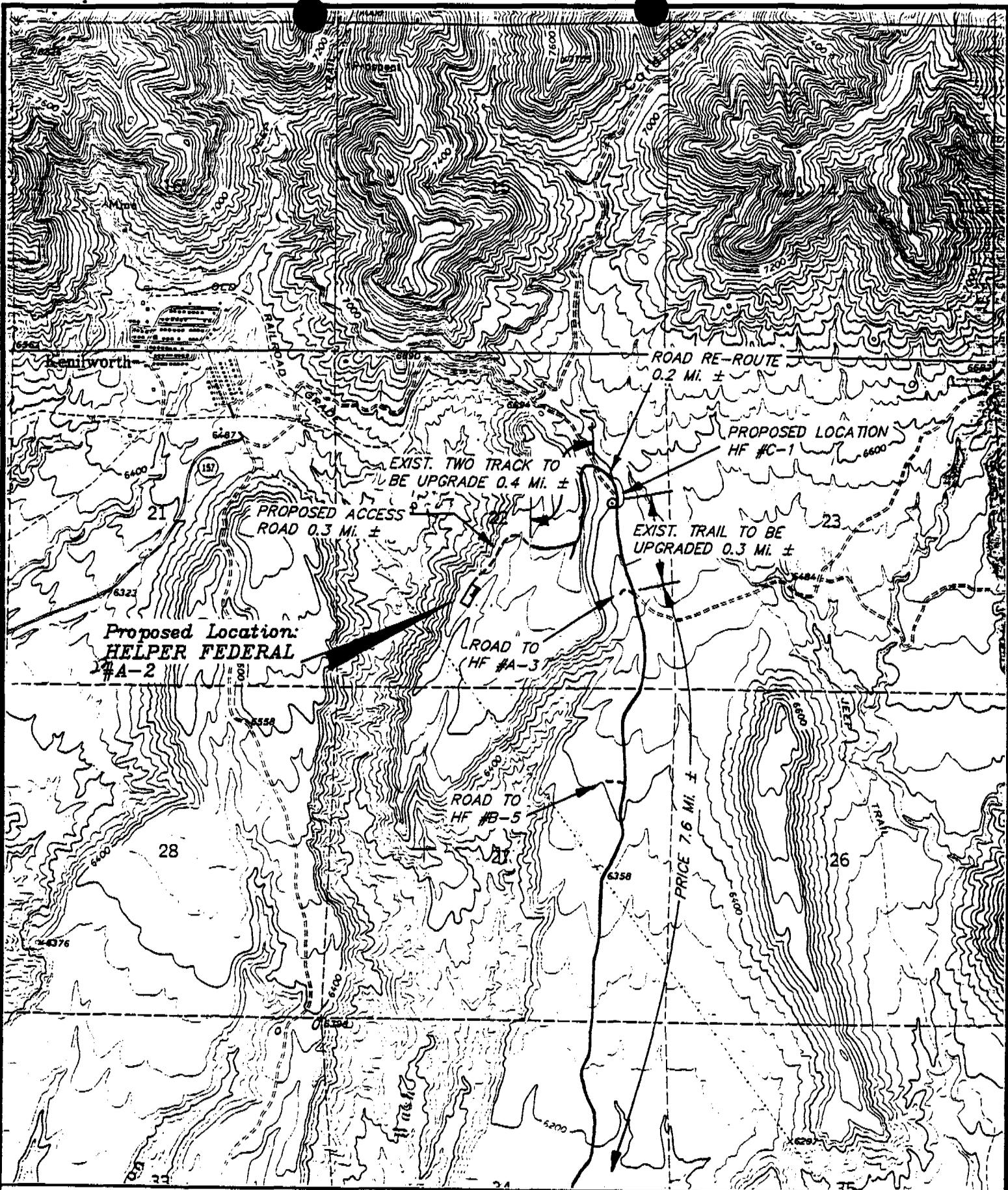
PERMIT NO. _____ APPROVAL DATE _____

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:

Associate District Manager

APPROVED BY _____ TITLE _____ DATE _____

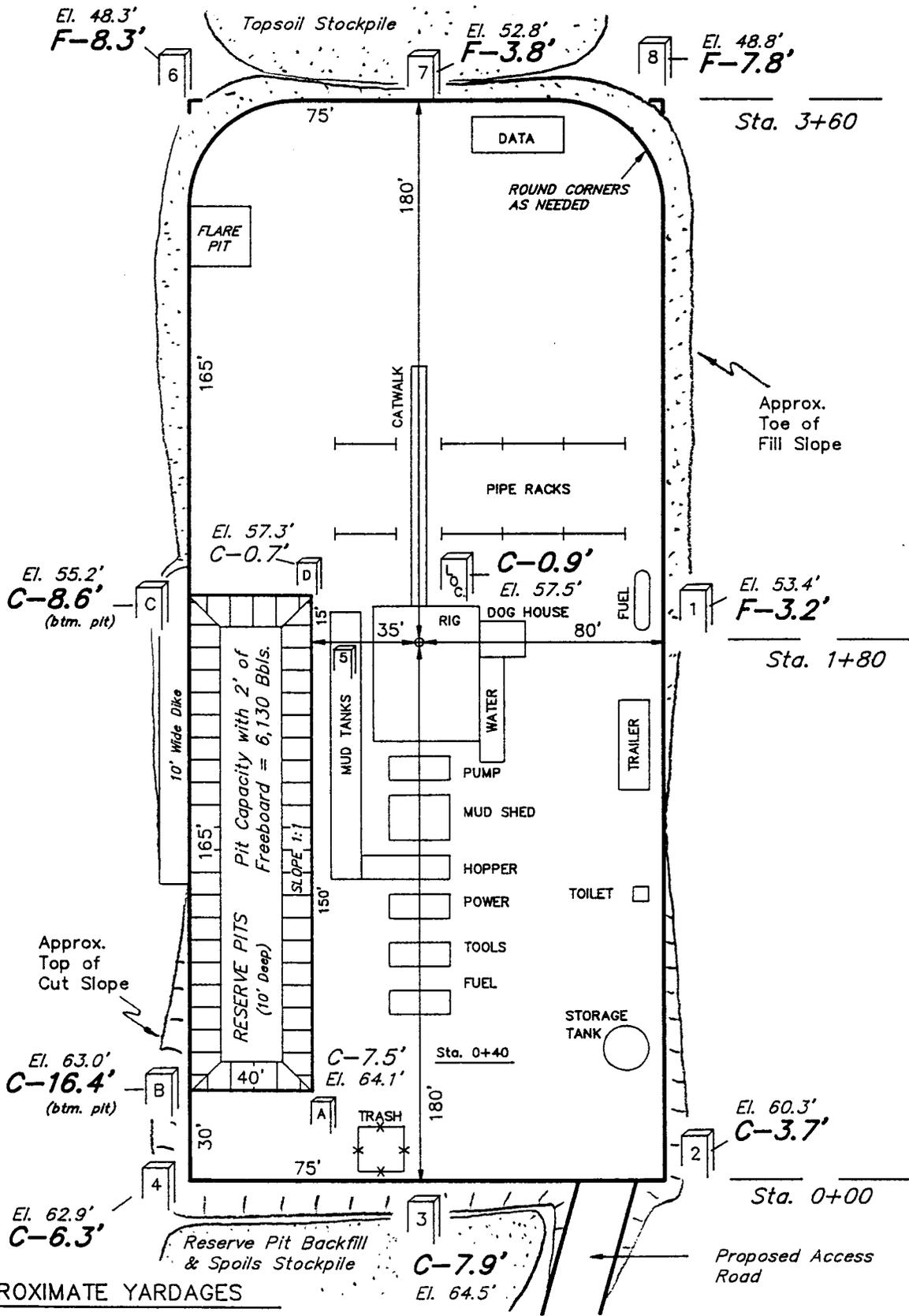
*See Instructions On Reverse Side



TOPOGRAPHIC FEB 17 1941
 MAP "B"
 SCALE: 1" = 2000'
 DATE: 2-2-94 D.R.B.



ANADARKO PETROLEUM CORP.
 HELPER FEDERAL #A-2
 SECTION 22, T13S, R10E, S.L.B.&M.



APPROXIMATE YARDAGES

CUT		EXCESS MATERIAL AFTER	
(6") Topsoil Stripping	= 1,030 Cu. Yds.	5% COMPACTION	= 1,900 Cu. Yds.
Remaining Location	= 5,570 Cu. Yds.	Topsoil & Pit Backfill	= 1,900 Cu. Yds.
		(1/2 Pit Vol.)	
TOTAL CUT	= 6,600 CU.YDS.	EXCESS UNBALANCE	= 0 Cu. Yds.
FILL	= 4,460 CU.YDS.	(After Rehabilitation)	

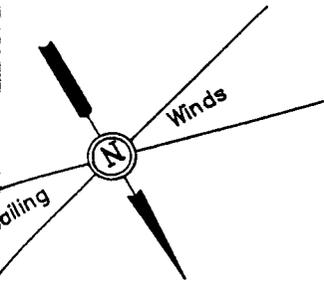
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ANADARKO PETROLEUM CORP.

LOCATION LAYOUT FOR

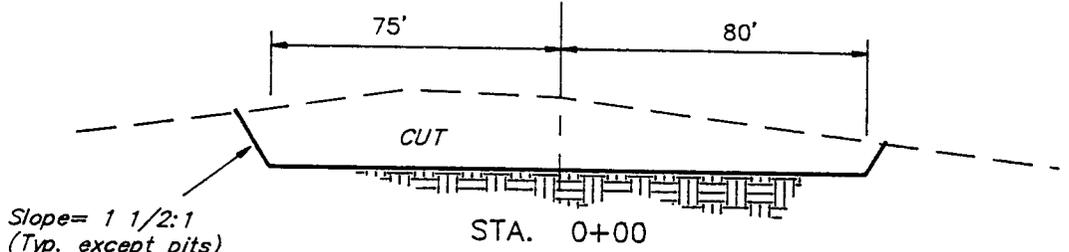
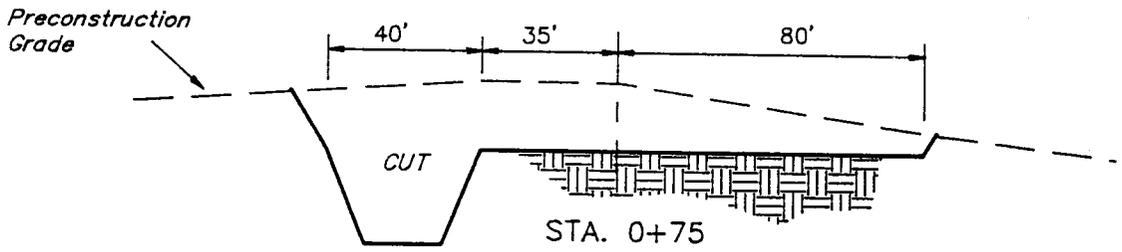
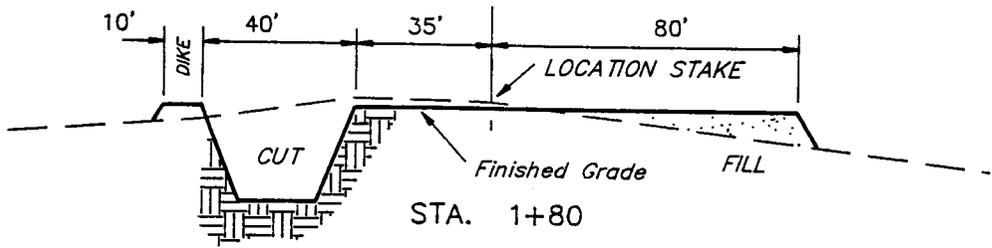
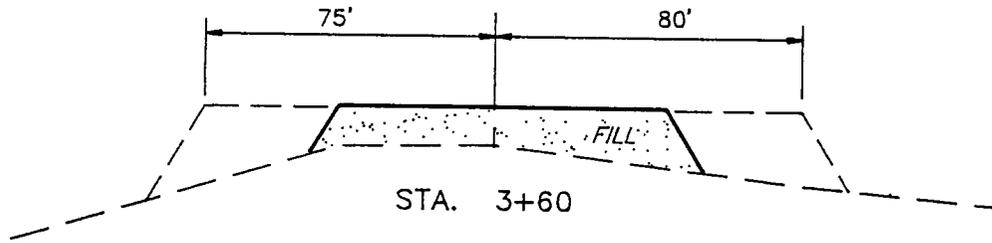
HELPER FEDERAL #A-2

SECTION 22, T13S, R10E, S.L.B.&M.



T.D.H.

SCALE: 1" = 50'
DATE: 2-4-94
Drawn By: T.D.H.



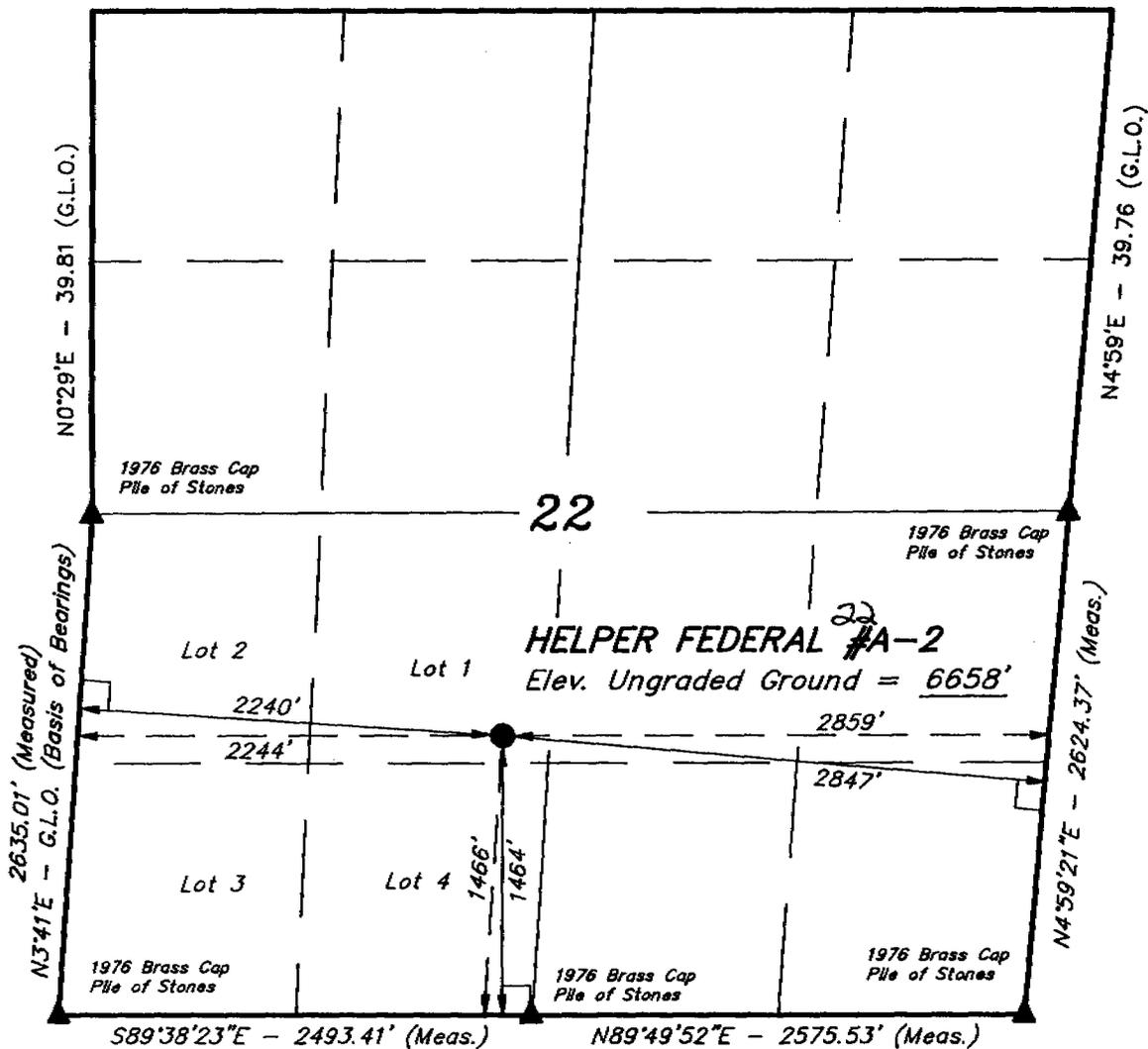
TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

UNGRADED GROUND AT LOC. STAKE = 6657.5'
GRADED GROUND AT LOC. STAKE = 6656.6'

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

N89°28'W - 40.68 (G.L.O.)

N89°47'W - 40.09 (G.L.O.)



LEGEND:

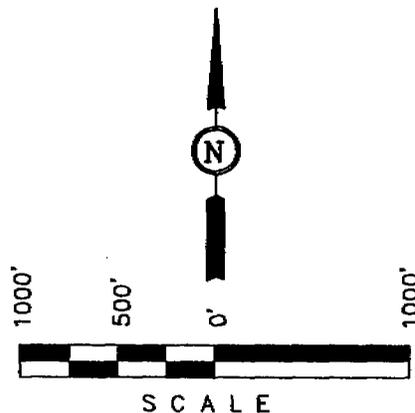
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

ANADARKO PETROLEUM CORP.

Well location, HELPER FEDERAL #A-2, located as shown in LOT 1 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

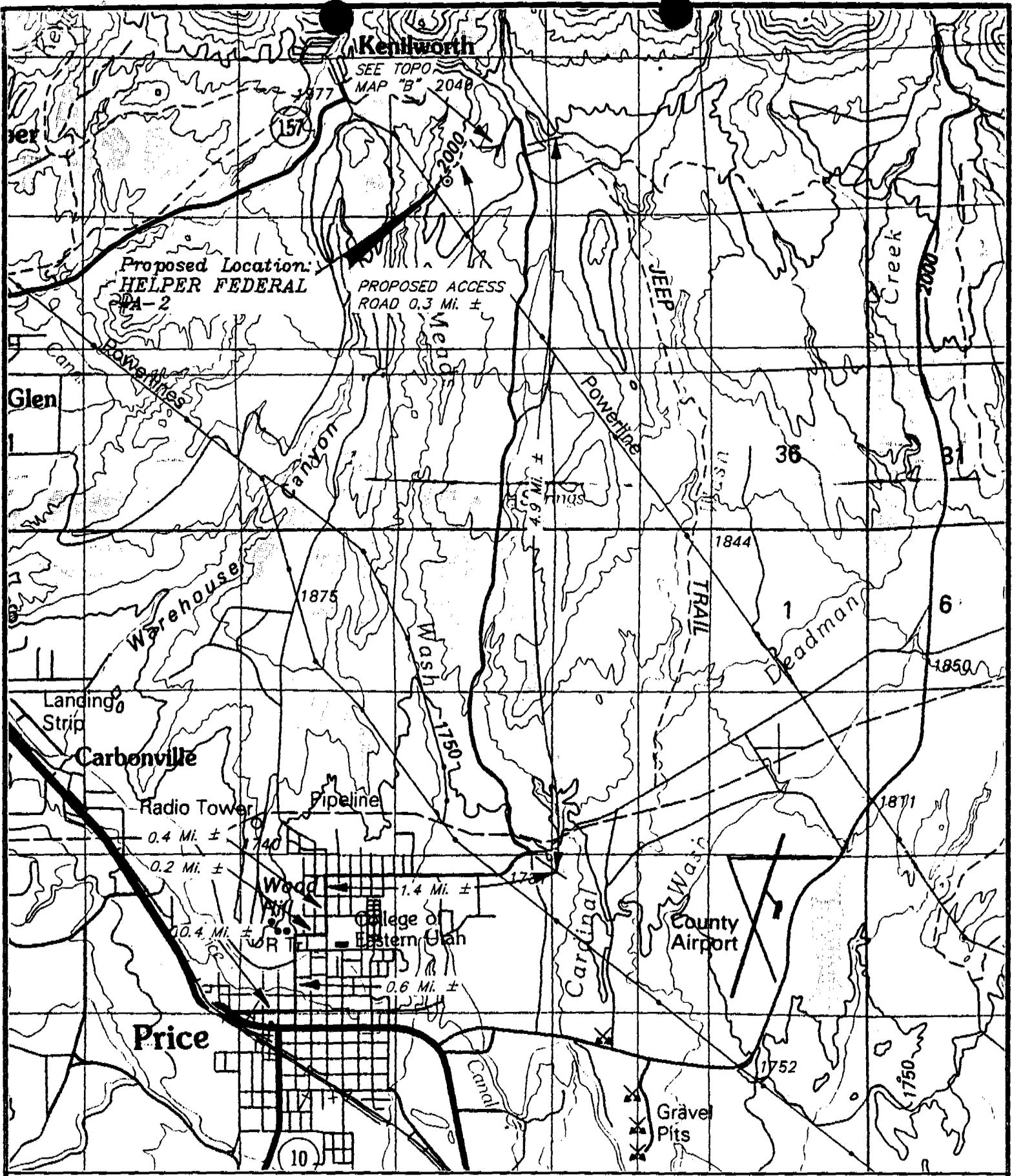
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 02-3-94 D.R.B.
REVISED: 10-29-93 R.E.H.

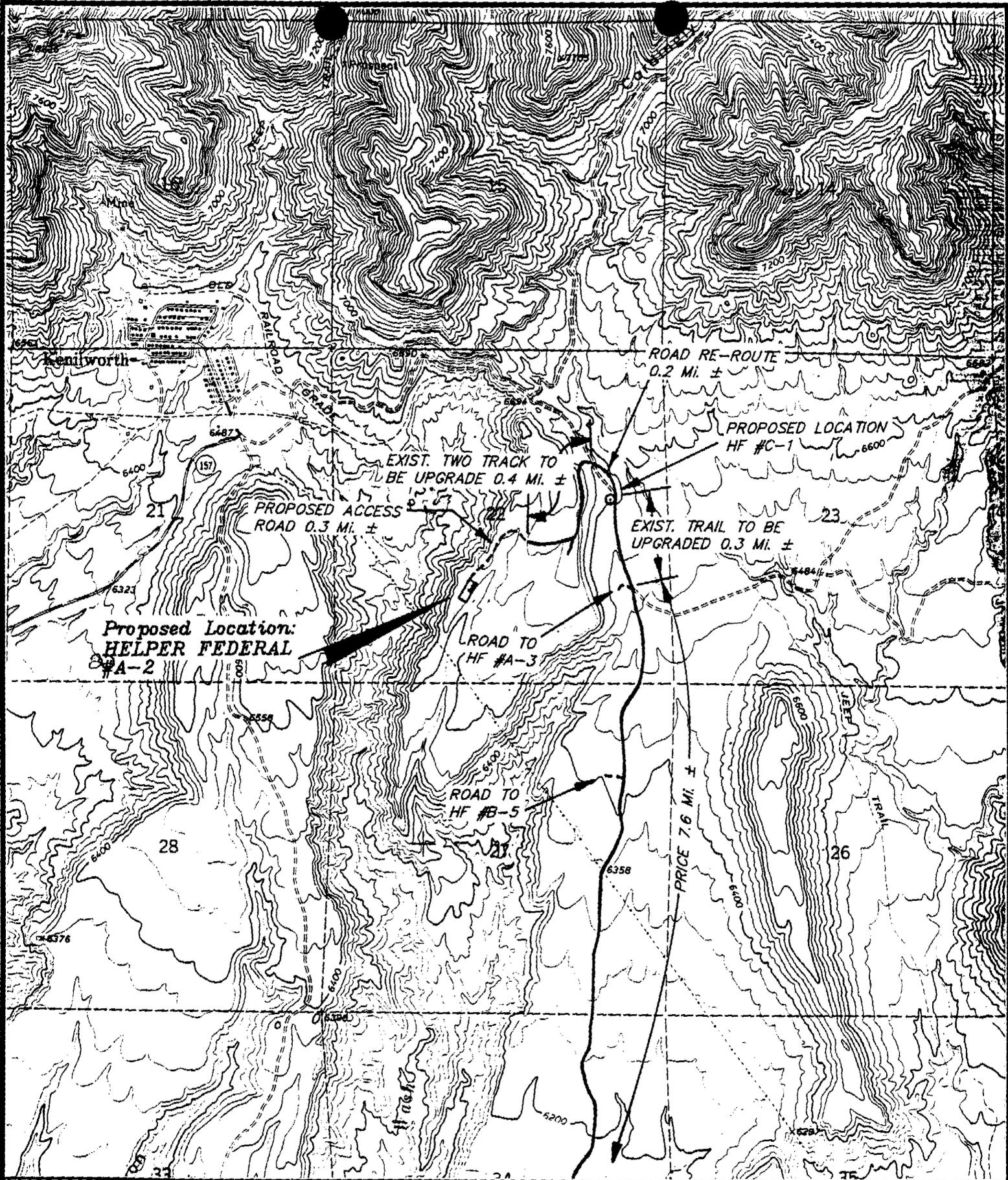
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-12-93	DATE DRAWN: 10-24-93
PARTY D.A. D.G. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE ANADARKO PETROLEUM CORP.	



TOPOGRAPHIC FEB 17 1995
 MAP "A"
 DATE: 2-2-94 D.R.B.

ANADARKO PETROLEUM CORP.
 HELPER FEDERAL #A-2
 SECTION 22, T13S, R10E, S.L.B.&M.



TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

DATE: 2-2-94 D.R.B.

FEB 17 1994



ANADARKO PETROLEUM CORP.

HELPER FEDERAL #A-2

SECTION 22, T13S, R10E, S.L.B.&M.



February 10, 1994

Bureau of Land Management
Moab District Office
PO Box 970
Moab, UT 84532

FEB 17 1994

RE: Helper Federal 22A-2
Section 22-13S-10E
Carbon County, UT

Gentlemen:

Attached, in triplicate, is Form 3160-3 (Application for Permit to Drill) for the referenced well.

If you have any questions or require additional information, please contact P. A. (Trish) Hambright at (405) 552-6226.

Very truly yours

ANADARKO PETROLEUM CORPORATION

A handwritten signature in cursive script that reads "D. R. Winchester".

D. R. Winchester
Sr. Staff Drilling Engineer

DRW/pah:eic

Attachment

cc: ~~State of Utah~~
Dept. of Natural Resources
Div. of Oil & Gas & Mining
355 West North Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203
(w/attachments)

Bureau of Land Management
Attn: Don Stephens
Price River Resource Area
900 North, 700 East
Price, Utah 84501
(w/attachments)

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/17/94

API NO. ASSIGNED: 43-007-30216

WELL NAME: HELPER FEDERAL A-2
OPERATOR: ANADARKO PETROLEUM CORP

(N0035)
(153571)

PROPOSED LOCATION:
SWNE 22 - T13S - R10E
SURFACE: 1464-FSL-2244-FWL
BOTTOM: 1464-FSL-2244-FWL
CARBON COUNTY
WILDCAT FIELD (001)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED
LEASE NUMBER: U-58434

FRSD

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal State Fee
(Number 153571)
N Potash (Y/N)
N Oil shale (Y/N)
N Water permit
(Number _____)
N RDCC Review (Y/N)
(Date: NOT NEEDED)

LOCATION AND SITING:

___ R649-2-3. Unit: _____
___ R649-3-2. General.
 R649-3-3. Exception.
___ Drilling Unit.
___ Board Cause no: _____
___ Date: _____

COMMENTS:

CONFIDENTIAL

PERIOD

EXPIRED

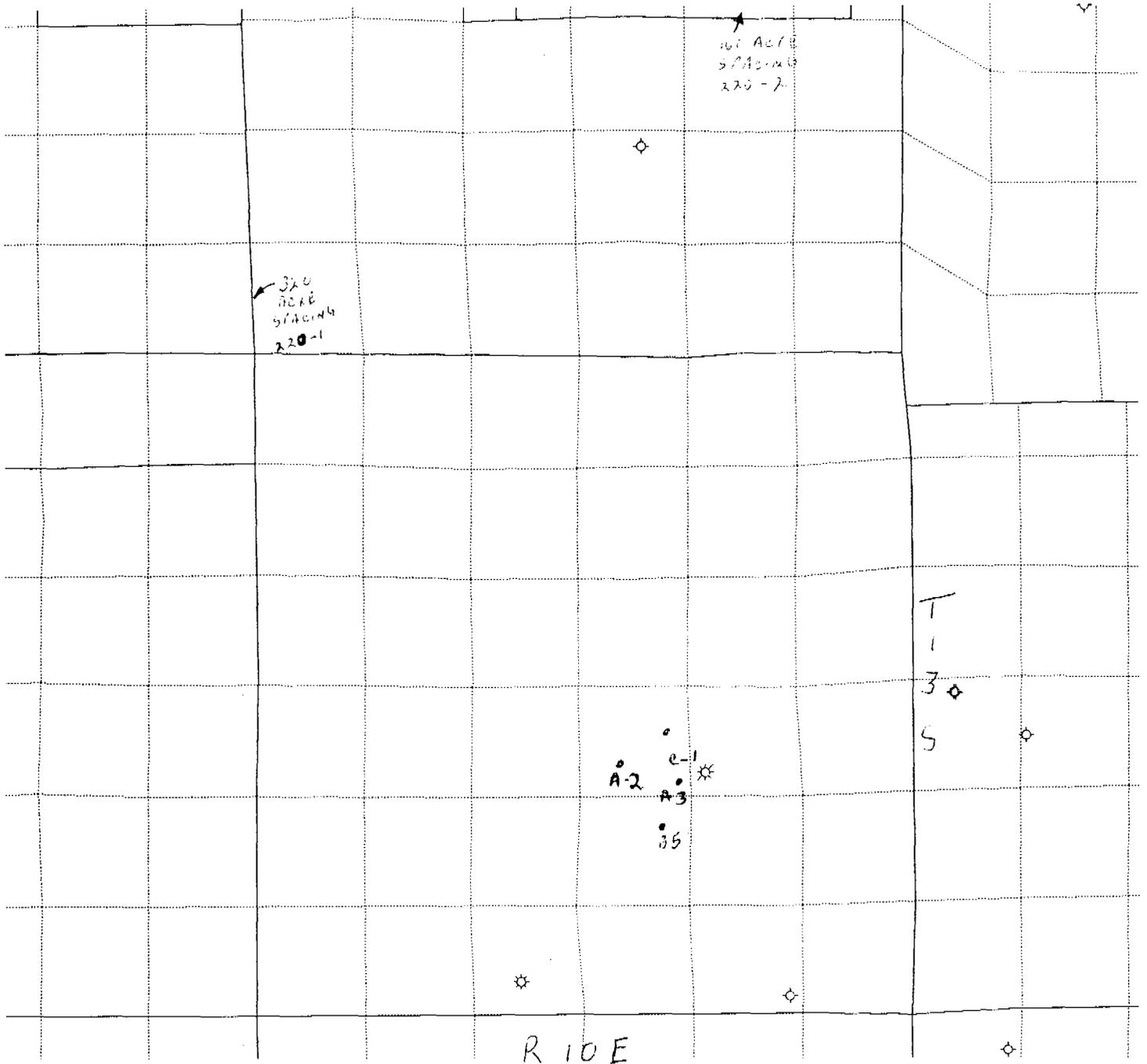
ON 12-3-95

STIPULATIONS:

~~1. WATER SUPPLY & PERMIT WILL BE FILED BY~~

~~SUNDRY PAID TO SPUD~~

ANADARKO, CARBON COUNTY
COAL GAS PROJECT
HELPER FED. B-5, A-3, 22-C1, 22-A2



Anadarko

February 15, 1994

FEB 18 1994

Bureau of Land Management
Moab District Office
PO Box 970
Moab, UT 84532

RE: Cultural Resource Study
Helper Federal 22A-2
Section 22-13S-10E
Carbon County, UT

Gentlemen:

Attached is the Cultural Resource Inventory Study for the referenced well.

If you have any questions, please contact P. A. (Trish) Hambright at (405) 552-6226.

475-7026

Very truly yours

ANADARKO PETROLEUM CORPORATION



D. R. Winchester
Sr. Staff Drilling Engineer

DRW/pah:eic
helper.22a2-cultural.

Attachment

cc: State of Utah
Dept. of Natural Resources
Div. of Oil & Gas & Mining
355 West North Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Bureau of Land Management
Attn: Don Stephens
Price River Resource Area
900 North, 700 East
Price, UT 84501

**CULTURAL RESOURCE INVENTORY OF
HELPER FEDERAL #A-2 WELL PAD
AND ASSOCIATED ACCESS ROAD
CARBON COUNTY, UTAH**

By

M. Clark Pope
Staff Archaeologist

Alpine Archaeological Consultants, Inc.
P.O. Box 2075
Montrose, CO 81402-2075
(303) 249-6761

Prepared for
Anadarko Petroleum Corporation
211 North Robinson
Oklahoma City, Oklahoma 73102

Under the Provisions of
BLM Cultural Resource Permit 93UT62700
Utah State Permit U-93-A1
Project Authorization No. U-94-A1-041b

February 1994

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Figure 2.	Detail map showing location of planned well pad and associated access road	3

MANAGEMENT SUMMARY

Anadarko Petroleum Corporation (Anadarko) of Houston, Texas, plans to construct one well pad and associated access road in Carbon County, Utah. The well, known as Helper Federal #A-2, is located Section 22, T13S, R10E on land administered by the Bureau of Land Management, Moab District, Price Resource Area, Price, Utah. This well pad was resurveyed because it was moved from the original planned location.

The project will require the construction of and upgrading of 2,000 ft (609 m) of access road and the construction of one well pad area. At the well pad location, a 10 acre parcel was surveyed. The access road right-of-way was surveyed to a width of 23 m (75 ft). A total of 13.44 acres, all on land administered by the Bureau of Land Management, were intensively examined by M. Clark Pope, Staff Archaeologist, of Alpine Archaeological Consultants, Inc. in February 1994. No cultural resources were recorded in the project area. No further archaeological work is recommended prior to the planned development.

INTRODUCTION

Anadarko Petroleum Corporation (Anadarko) of Houston, Texas, is planning to construct one well pad and associated access road in Carbon County, Utah. The planned well pad has been designated Helper Federal #A-2. This well pad had to be resurveyed because it was moved. Construction will require the preparation of one earthen pad, covering approximately 3 acres, and the construction of and upgrading of a total of 2,000 ft (609 m) of access road. The planned well pad and access road are located on lands administered by the Bureau of Land Management (BLM), Moab District, Price Resource Area, Price, Utah. As the work is to be conducted on federal lands, various historic preservation laws and regulations must be addressed, including the National Historic Preservation Act of 1966 (as amended), The Archaeological Preservation Act of 1974, the Archaeological Resources Protection Act of 1979 (as amended), and the Utah Code Annotated 63-18. These laws are intended to ensure the identification and preservation of significant cultural resources. To comply with these laws, Anadarko contracted with Alpine Archaeological Consultants, Inc. (Alpine) to conduct a literature search and intensive pedestrian inventory of the planned ground disturbance areas.

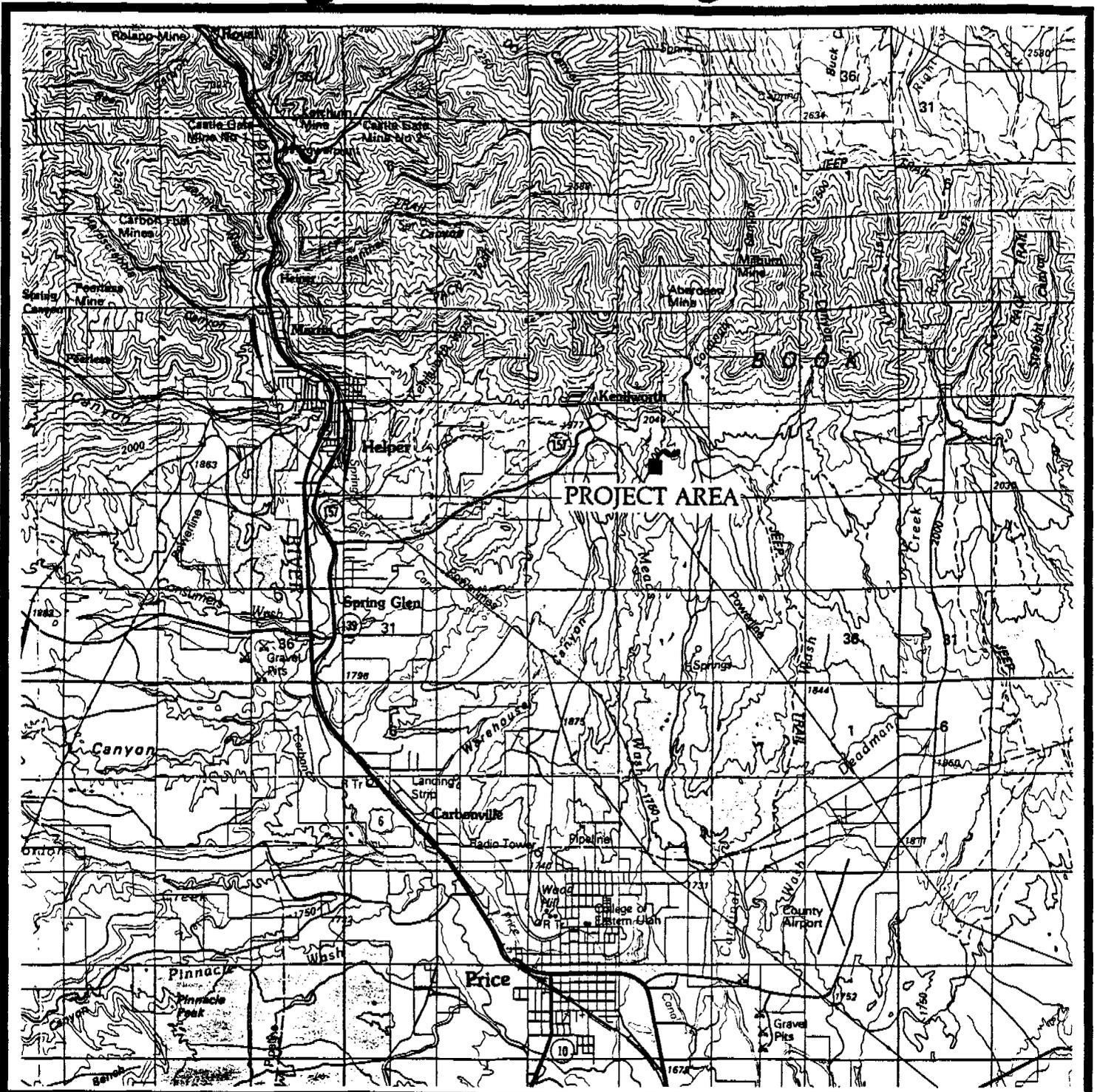
The field work was conducted on February 2, 1993, by M. Clark Pope, Staff Archaeologist at Alpine. A total of 13.44 acres, all located on BLM land, was intensively examined for cultural resources. The field work was conducted under the provisions of BLM - Utah Cultural Resources Use Permit 93UT62700 (expires 3/94), and Project Authorization No. U-94-A1-041b. No cultural resources were found. Field notes resulting from this project are on file at Alpine in Montrose, Colorado.

LOCATION AND ENVIRONMENTAL BACKGROUND

The planned well pad is located directly north of Price, Utah (Figures 1 and 2). Specifically, the pad is located SE $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$, the E $\frac{1}{2}$, SW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$, the NE $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$ and the N $\frac{1}{2}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 22, T13S, R10E, S.L.C. PM. The access road is located NE $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, the NW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$ and the E $\frac{1}{2}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 22, T13S, R10E, S.L.C. PM.

The project area is situated in the Upper Sonoran life zone with elevations ranging between 2,011 m and 2,036 m (6,600 and 6,680 ft) above mean sea level. Vegetation consists primarily of pinyon and juniper, low sagebrush, and grasses. Forbs, cactus, and saltbush were also observed.

The project area is in the Mancos Shale lowlands subdivision of the Northern Colorado Plateau physiographic province. Local geology consists of formations of Quaternary and Cretaceous ages.



BLM Price, Utah 1981
 T12/13/14 S, R10/11 E
 Carbon County

ANADARKO PETROLEUM
 Helper Federal Well Pad A2
 and access road

Alpine Archaeological
 Consultants Inc.

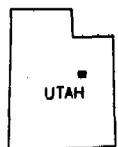
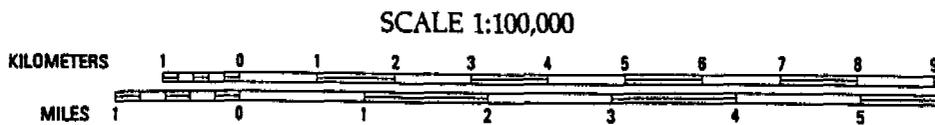


Figure 1. Location of project area.

STATEMENT OF OBJECTIVES

The primary objective of the archaeological survey was to locate significant cultural resources in the immediate vicinity of the planned well pad and access road to aid in the preservation of those cultural resources or to facilitate the formulation of appropriate mitigative strategies. This was accomplished, first, by conducting site file searches at the Utah State Historical Society in Salt Lake City, and the Bureau of Land Management's Price Resource Area; and, second, by conducting an intensive pedestrian survey of the project area. For the purposes of this study, cultural resources were defined as areas containing evidence of patterned human activity, in excess of 50 years antiquity. Locations of artifacts evincing greater than 50 years of age not meeting the criteria for site definition were classified as isolated finds. Recommendations regarding the significance of the cultural resources located during this project are assessed using the criteria for determining eligibility for nomination to the National Register of Historic Places. The historic preservation laws mandating this cultural resource study specifically identify eligibility to the National Register of Historic Places as the key factor in determining preservation needs. The criteria for assessing site significance, as published in the U.S. Government Code of Federal Regulations (36FR60) read as follows:

National Register criteria for evaluation: The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, and association and

- (a) that are associated with events that have made a significant contribution to the broad patterns of our history;
- (b) that are associated with the lives of persons significant in our past; or
- (c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- (d) that have yielded, or may be likely to yield, information important in prehistory or history.

Identification and evaluation of cultural resources in the project area permits formulation of management recommendations. Isolated finds do not meet the criteria for inclusion on the National Register and are not recommended for further archaeological treatment. For significant sites, management options include site avoidance and data recovery.

LITERATURE REVIEW

On February 1, 1994, site file searches were conducted at the Utah State Historical Society in Salt Lake City. On February 2, 1994, site file searches were conducted at the

Bureau of Land Management's Price Resource Area office, in Price, Utah. Previous research in the area is minimal. Eight cultural resource inventories, five for seismic lines (Cook 1981; Robinson 1981; Biggs 1984; Talbot 1985a, 1985b), two for well pads and associated access roads (Pope 1993a, 1993b), and one other survey (Hauck 1979), have been conducted in or near the project area. Ten non-significant cultural resources, four lithic scatters and six historic trash scatters, have been recorded near the project area. The Utah State Historical Society informed Alpine that, while no significant cultural resources exist within the project area, the Black Hawk formation, a formation that contains significant dinosaur tracks and vertebrate fossils, is exposed within the project area (Evelyn Seelinger, personal communication 1993).

Based on the literature review, low historic site densities and low prehistoric site densities were expected. Expected historic sites types include historic artifacts scatters, roads, and historic structures. Expected prehistoric site types include lithic scatters and open camp sites.

FIELD METHODS

The cultural resource inventory was conducted by one archaeologist. At the well pad area, a 10-acre square parcel was defined, laid out on the cardinal directions and centered on the well pad's center stake. The interior of the parcel was intensively examined for artifacts, cultural features, and paleontological resources with a series of parallel sweeps, spaced at 15 m intervals, and oriented by use of a hand-held compass. The access road was surveyed along the centerline and to 23 m (75 feet) at 15 m intervals each side of the centerline to allow for the placement of a pipeline.

RESULTS

The inspection of 13.44 acres, all of which are located on lands administered by the Bureau of Land Management, resulted in the finding of no cultural resources. No paleontological resources were found. Because of this, no further archaeological or paleontological work is recommended.

SUMMARY AND RECOMMENDATIONS

A site file search and intensive pedestrian inventory were conducted for one planned well pad (Helper #A-2) and associated and access road. The site file search revealed that four lithic scatters and six historic trash scatters have been recorded in the vicinity of the project area. The examination of the project area yielded no cultural resources. Although it was expected that prehistoric site density would be low, the environmental setting of the project area suggested that prehistoric sites would likely be located within the project area. The lack of prehistoric sites may have been due, in part, to the small size of the project area, as well as the fact that the access road location in particular did not encompass favorable locales for prehistoric sites. Even though sites

were not found in the project area, areas near the project area would seem to have been favorable for at least seasonal prehistoric occupation.

It was expected that historic sites, if found, would consist of historic artifact scatters located in close proximity to roads. The lack of historic sites is probably due to the small size of the project area and the general lack of roads in the project area.

Because no cultural resources were located in the project area, no additional archaeological work is recommended.

REFERENCES CITED

Biggs, Robert W.

- 1984 *Survey of Cultural Resources for Frontier Exploration, Incorporated's 1984 Seismic Testing Program Carbon County, Utah: Lines CBN-5 and CBN-2.* Archaeological Consultants, Durango, Colorado. On file at Colorado State Historic Preservation Office, Denver.

Cook, Clayton W.

- 1981 *Archaeological Reconnaissance of 37 Miles of Seismic Line In the Wellington Area of Carbon County, Utah.* Utah Archaeological Research, Spanish Fork. Submitted to Sefel Geophysical. On file at Bureau of Land Management, Moab, Utah.

Hauck, F. R.

- 1979 *Cultural Resource Evaluation in Central Utah, 1977.* Cultural Resource Series No. 3. Bureau of Land Management, Utah.

Pope, M. Clark

- 1993a *Cultural Resource Inventory of Helper Federal #A-1, #B-1 Well Pads and Associated Access Roads Carbon County, Utah.* Alpine Archaeological Consultants, Inc., Montrose, Colorado. Submitted to Anadarko Petroleum, Houston. On file at Bureau of Land Management, Price, Utah.
- 1993b *Cultural Resource Inventory of Helper Federal #A-2, #A-3, #B-2, #B-3, #B-4, #B-5, #C-1 Well Pads and Associated Access Roads and Pipelines Carbon County, Utah.* Alpine Archaeological Consultants, Inc., Montrose, Colorado. Submitted to Anadarko Petroleum, Houston. On file Bureau of Land Management, Price, Utah.

Robinson, David G.

- 1981 *Archaeological Survey Geophysical Exploration Lines Near the Book Cliffs Carbon County, Utah.* Northland Research. Submitted to Mile-Hi Exploration. On file at Bureau of Land Management, Moab, Utah.

Talbot, Richard K.

- 1985a *A Cultural Resource Inventory of Six Seismic Lines in Southeastern Utah and Western Carbon Counties, Utah.* Technical Series No. 85-81. Brigham Young University Museum of Peoples and Cultures, Provo, Utah.
- 1985b *A Cultural Resource Survey of Three Seismic Lines in the Book Cliffs Area near Price, Carbon County, Utah.* Technical Series No. 85-78. Brigham Young University Museum of Peoples and Cultures, Provo, Utah.

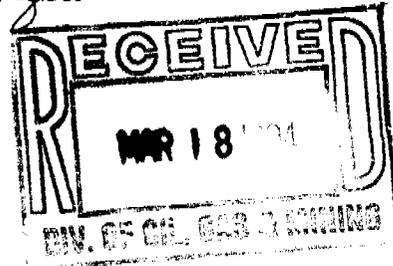
HEITZMAN DRILL-SITE SERVICES

DALE HEITZMAN

ROBERT M. ANDERSON

March 14, 1994

*cc: Jwe
JPS
orig to: R.J. for file
3-18-94*



Ms. Dianne R. Nielsen, Director
State of Utah
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Anadarko Petroleum Corporation
Helper Coalbed Methane Project
Carbon County, Utah

Dear Ms. Nielsen;

Heitzman Drill-Site Services is currently in the process of preparing an Environmental Assessment of four (4) coalbed methane wells, one (1) water injection well, and approximately four (4) miles of buried natural gas pipeline as proposed by Anadarko Petroleum Corporation in Carbon County, Utah. These five (5) total wells represent a pilot program for coalbed methane in the Price/Helper area and, if successful, could result in full field development of the coalbed methane resource within the leasehold/unit area. Full field development would be analyzed under a separate document to be prepared at a later date and would be contingent upon methane production resulting from this pilot program.

The five (5) well locations to be included in this pilot program would be located as follows:

1. Coalbed Methane Well Location : Helper Federal A-2 Lot 1, Section 22, T13S, R10E; Carbon County, Utah
2. Coalbed Methane Well Location : Helper Federal A-3 NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 22, T13S, R10E; Carbon County, Utah
3. Coalbed Methane Well Location : Helper Federal B-5 SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 27, T13S, R10E; Carbon County, Utah
4. Coalbed Methane Well location : Helper Federal C-1 S $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 22, T13S, R10E; Carbon County, Utah

Ms. Dianne R. Nielsen
Division of Oil, Gas and Mining
March 14, 1994
Page 2

5. Water Disposal Well location : Well NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 32, T11S, R9E; Carbon County, Utah

For your convenience, I have included a map showing the location for each of these proposed well locations, as well as the proposed pipeline route for gas sales from the project area.

As stated above, this environmental assessment will only address the initial exploration phase of the Helper Coalbed Methane Project and will be prepared under guidance provided by the Price River Resource Area Office, Bureau of Land Management.

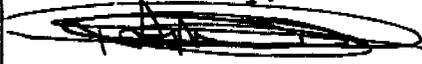
At this time, I would like to ask that your office review this exploration proposal and provide any comments/concerns which you or your staff may have regarding the merits of this project and the potential impacts (both positive and negative) to the State of Utah and/or Carbon County which may result from project approval.

As usual, we are on somewhat of a short time frame; consequently, I would appreciate your expeditious review of and response to this request for an informal consultation.

Should you have any questions or require any additional information in this regard, please do not hesitate to give me a call at either 307-266-4840 (office) or 307-473-1268 (home).

Your kind attention to this matter will be most appreciated.

Sincerely,


Robert M. Anderson
Project Manager and ID Team Leader

RMA/ibm
Enclosure

HEITZMAN DRILL-SITE SERVICES

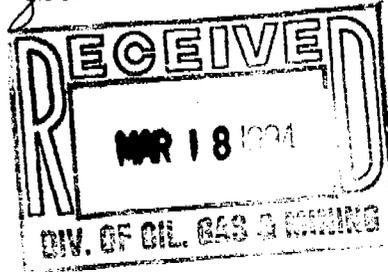
DALE HEITZMAN

COPY

ROBERT M. ANDERSON

*cc: Jwe
JAB
orig to: RQ for file*

March 14, 1994



Ms. Dianne R. Nielsen, Director
State of Utah
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Anadarko Petroleum Corporation
Helper Coalbed Methane Project
Carbon County, Utah

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The five (5) well locations to be included in this pilot program would be located as follows:

1. Coalbed Methane Well Location : Helper Federal A-2
Lot 1, Section 22, T13S, R10E; Carbon County, Utah
2. Coalbed Methane Well Location : Helper Federal A-3
NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 22, T13S, R10E; Carbon County, Utah
3. Coalbed Methane Well Location : Helper Federal B-5
SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 27, T13S, R10E; Carbon County, Utah
4. Coalbed Methane Well location : Helper Federal C-1
S $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 22, T13S, R10E; Carbon County, Utah

Ms. Dianne R. Nielsen
Division of Oil, Gas and Mining
March 14, 1994
Page 2

5. Water Disposal Well location : Well NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 32, T11S, R9E; Carbon County, Utah

For your convenience, I have included a map showing the location for each of these proposed well locations, as well as the proposed pipeline route for gas sales from the project area.

As stated above, this environmental assessment will only address the initial exploration phase of the Helper Coalbed Methane Project and will be prepared under guidance provided by the Price River Resource Area Office, Bureau of Land Management.

At this time, I would like to ask that your office review this exploration proposal and provide any comments/concerns which you or your staff may have regarding the merits of this project and the potential impacts (both positive and negative) to the State of Utah and/or Carbon County which may result from project approval.

As usual, we are on somewhat of a short time frame; consequently, I would appreciate your expeditious review of and response to this request for an informal consultation.

Should you have any questions or require any additional information in this regard, please do not hesitate to give me a call at either 307-266-4840 (office) or 307-473-1268 (home).

Your kind attention to this matter will be most appreciated.

Sincerely,


Robert M. Anderson
Project Manager and ID Team Leader

RMA/ibm
Enclosure

HEITZMAN DRILL-SITE SERVICES

*cc Dale J. H. 3-21-94
GAB
orig to RJ for file*

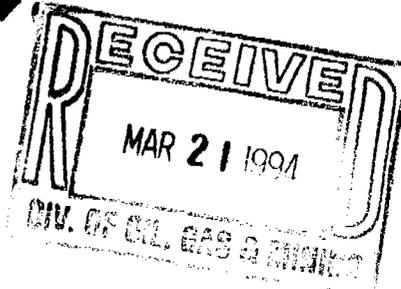
DALE HEITZMAN

COPY

ROBERT M. ANDERSON

March 15, 1994

Ms. Dianne R. Nielsen, Director
State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203



RE: Anadarko Petroleum Corporation
Helper Coalbed Methane Project
Carbon County, Utah

Dear Ms. Nielsen;

In my letter dated March 14, 1994 I inadvertently provided an incorrect legal description for Anadarko's proposed water disposal well, which was referenced on page two of said letter. Although the map attached to this letter depicted the correct location of the disposal well, I felt it necessary to point out the error and to clarify the proposed location in order to avoid any additional confusion. Consequently, I would appreciate your noting that the correct location of the subject water disposal well is as follows:

5. Water Disposal Well Location : Helper State A-1 S.W.D.
W $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 3, T14S, R10E; Carbon County, Utah

I apologize for any inconvenience this error may have caused you or your staff.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert M. Anderson", written over a horizontal line.

Robert M. Anderson
Project Manager and ID Team Leader

RMA/ibm

RECEIVED
 SUBMIT IN TRIPlicate
 SEP 9 1994
 (reverse side)

**UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT DIV. OF OIL, GAS & MINING**

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN			LEASE DESIGNATION AND SERIAL NO. U-58434
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coalbed Methane <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Anadarko Petroleum Corporation			8. FARM OR LEASE NAME WELL NO. Helper Federal
3. ADDRESS AND TELEPHONE NO. One LSS, Ste. 1400, 211 N. Robinson, Okla. City, OK 73102-			9. AP WELL NO. A-2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1464' FSL & 2244' FWL (SW/NE) At proposed prod. zone 1464' FSL & 2244' FWL (SW/NE)			10. FIELD AND POOL, OR WILDCAT Wildcat
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.6 miles north of Price, UT			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-13S-10E
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1464' FSL	16. NO. OF ACRES IN LEASE 1111.44	17. NO. OF ACRES ASSIGNED TO THIS WELL N/A	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500.94	19. PROPOSED DEPTH 4400'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6658'			22. APPROX. DATE WORK WILL START* 07/01/94

CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A

24. Dated 1/1/80

SIGNED *D. R. Winchester* TITLE Sr. Staff Drlg. Engr. DATE 02/10/94

(This space for Federal or State office use)

PERMIT NO. 43-007-30216 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:

ACTING
Associate District Manager

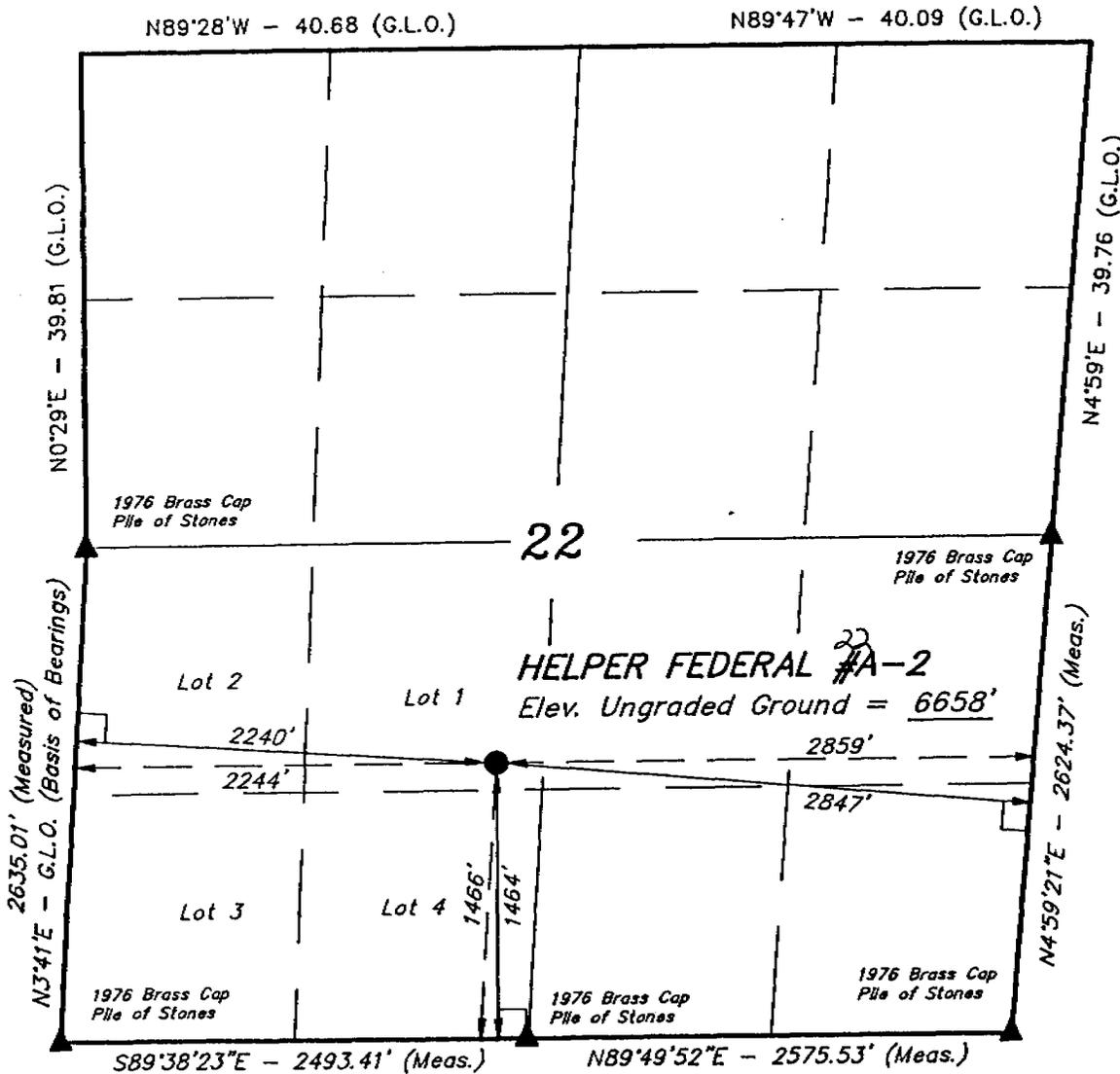
APPROVED BY *H. C. Deland Backus* TITLE _____ DATE SEP - 7 1994

*See Instructions On Reverse Side

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

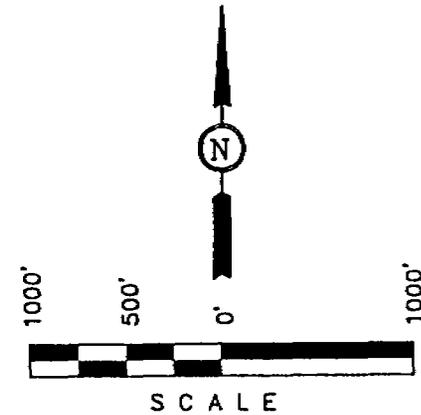
ANADARKO PETROLEUM CORP.

Well location, HELPER FEDERAL #A-2, located as shown in LOT 1 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 L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 02-3-94 D.R.B.
REVISED: 10-29-93 R.E.H.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

LEGEND:

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

SCALE 1" = 1000'	DATE SURVEYED: 10-12-93	DATE DRAWN: 10-24-93
PARTY D.A. D.G. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE ANADARKO PETROLEUM CORP.	

Anadarko Petroleum Corporation
Helper Federal 22A-2
Lease U-71392
SW/NE Section 22, 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 surface location of this well does not fall within a spacing "window" as prescribed by the State of Utah, Division of Oil, Gas and Mining (DOGM). This location must have approval from DOGM before dirt work can begin.
2. The surface casing must be set at least 50 feet into the Mancos-Bluegate Shale.
3. The production casing shall be cemented to a minimum of 500 feet above the Ferron Sandstone. Your proposal appears adequate to accomplish this.
4. The BOP system shall be rated to 3M as proposed. Since a 3M system will exceed what is required for anticipated pressures, testing the system to 2M standards is acceptable.
5. If the surface hole is drilled with air, a mist system will be used to minimize airborne cuttings dust. All other air drilling requirements specified in Onshore Order No. 2 will apply.
6. Centralizers shall be run, at a minimum, on the bottom three joints of each casing string.
7. When running DSTs, the initial opening of the test tool shall occur during daylight hours.
8. If a gas meter run is constructed, it will be located on lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR § 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

B. SURFACE STIPULATIONS

1. The existing cattleguard in the SW/4SW/4 of section 34, will be replaced with a minimum fourteen (14) foot cattleguard which either meets or exceeds BLM H-20 specifications, with the final design dependent upon the actual load capacity required to handle the trucks and heavy equipment to be associated with the Proposed Action. This cattle guard will be routinely maintained by Anadarko for the duration of the project in order to minimize the potential for any livestock migration to occur.

2. Employees and contract personnel will be informed about the large number of recreational users on and along the primary access route into the project area.

3. Pump jack and compressor engines will be muffled in order to achieve a noise emission of 65 decibels (db) or less at a distance of one hundred (100) feet.

4. The main access route will be watered and compacted to reduce fugitive dust and eliminate the soft powder sections.

5. To maintain the cross-country skiing opportunity within the specific project area, pipeline ROWs will be cleared of rocks larger than ten (10) inches in diameter prior to final reclamation. The disturbed area of the ROW will then be groomed during final reclamation and reseeded with grasses and low growing forbs and shrubs suitable for a cross-country ski trail.

6. Routine maintenance activities associated with evaluation operations will be restricted to those daylight hours from 9:00 A.M. to 4:00 P.M. (except during emergencies) between December 1st and April 15th in order to reduce impacts to big game animals wintering in the project area.

7. The loss of forty-two (42) acres of big game winter range will be mitigated through completion of a project designed to enhance one (1) acre of big game habitat for each acre of surface disturbance associated with the Proposed Action.

The BLM, in consultation with both UDWR and Anadarko, will identify a cost effective proposal designed to mitigate these habitat losses. Upon final acceptance of a mitigation proposal which is mutually acceptable to all parties, both the BLM and Anadarko will execute a Memorandum of Understanding, which will set forth the responsibilities of both parties prior to the commencement of any mitigation project.

8. In order to protect deer winter range, exploration, drilling and other development activity will be allowed only during the period between May 16th and October 31st of any given year. This limitation does not apply to producing wells. An exception to this limitation in any year may be specifically approved in writing by the Authorized Officer, Bureau of Land Management.

9. Anadarko shall mitigate project impacts to big game winter range when total cumulative surface disturbance reaches ten (10) acres or more in size, as determined by the Authorized Officer of the Bureau of Land Management. Cumulative surface disturbance shall take into consideration actual impact from the Proposed Action and any surface disturbance from subsequent development occurring on winter range in this herd unit.

Mitigation shall include one (1) acre of enhanced habitat for every acre of surface-disturbed habitat. Project design for enhancement work will be developed by the Authorized Officer in coordination with the operator.

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

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

Spud- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District 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 District 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 for approval for all changes of plans and other 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 Authorized Officer. 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 Resource Area 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 Area Manager is to be notified.

First Production- Should the well be successfully completed for production, the District 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 (5) 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 Resource Area Office. The Resource Area 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 District Office not later than thirty (30) 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 District 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 authorized officer. 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- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the District Office for approval pursuant to Onshore Oil and Gas Order No. 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the District 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 District Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Office within thirty (30) 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 Area Manager or his representative, or the appropriate surface managing agency.

NOTIFICATIONS

Notify Don Stephens or Dean Nyffeler of the Price River Resource Area in Price, Utah, at (801) 637-4584 for the following:

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

1 day prior to spudding;

50 feet prior to reaching surface casing depth;

3 hours prior to testing BOPE

If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. 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 District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer

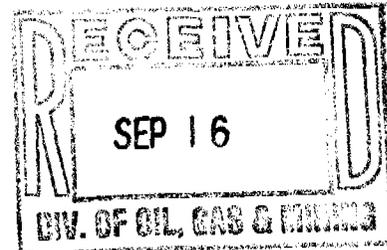
Office: (801) 259-6111
Home: (801) 259-2214



September 12, 1994

State of Utah
Department of Natural Resources
Division of Oil Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: Frank Mathews



RE: Helper Federal A-2
Helper Federal A-3
Helper Federal B-5
Helper Federal C-1

Gentlemen:

Attached is revised Form 3160-3 (Application for Permit to Drill)
for the referenced wells.

If you have any questions, please contact me @ 405/475-7023.

Very truly yours,

ANADARKO PETROLEUM CORPORATION

A handwritten signature in cursive script that reads "D.R. Winchester".

D.R. Winchester
Sr. Staff Drilling Engineer

DRW/PAH:tlc

Attachments

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Anadarko Petroleum Corporation Phone: (405) 475-7013

3. ADDRESS AND TELEPHONE NO.
9400 North Broadway, Suite 700; Oklahoma City, Oklahoma 73114

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
1464' FSL, 2244' FWL (Lot 1) Section 22, T13S, R10E
 At proposed prod. zone
Same as above.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately five (5) miles north of Price, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1464'

16. NO. OF ACRES IN LEASE 1111.44

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500.94' ±

19. PROPOSED DEPTH 4400'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6658'

22. APPROX. DATE WORK WILL START*
September 5, 1994

5. LEASE DESIGNATION AND SERIAL NO.
UTU-58434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
Not Applicable

8. FARM OR LEASE NAME, WELL NO.
Helper Federal A-2

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R. M., OR BLM. AND SURVEY OR AREA
Section 22, T13S, R10E

12. COUNTY OR PARISH **13. STATE**
Carbon Utah

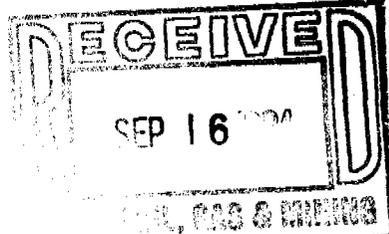
PROPOSED CASING AND CEMENTING PROGRAM (All New)

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" K-55	24.0#	0-300'	230 sx circulated to surface *
7-7/8"	5-1/2" K-55	15.5#	0-4400'	330 sx circulated to surface *

* Cement volumes may change due to hole size. Calculate from Caliper Log.

EIGHT-POINT RESOURCE PROTECTION PLAN ATTACHED.

I hereby certify that Anadarko Petroleum Corporation is authorized by the proper Lease Interest Owners to conduct lease operations associated with this Application for Permit to Drill the Helper Federal A-2, Federal Lease #UTU-58434. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Anadarko Petroleum Corporation, Nationwide Bond #ES-0128, who will be responsible for compliance with all the terms and conditions of that portion of the lease associated with this Application.



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 *D.R. Winchester* TITLE D.R. Winchester, Senior Staff Drilling Engineer DATE July 27, 1994

(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 16, 1994

Anadarko Petroleum Corporation
211 N. Robinson, One LSS, Suite 1400
Oklahoma City, OK 73102-7115

Re: Helper Federal A-2 Well, 1464' FSL, 2244' FWL, ^{NE SW}SW-NE, Sec. 22, T. 13 S., R. 10
E., Carbon County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-3, Exception to Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.



Page 2

Anadarko Petroleum Corporation
Helper Federal A-2 Well
September 16, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-007-30216.

Sincerely,



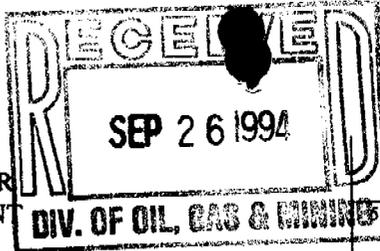
R.J. Firth
Associate Director

ldc

Enclosures

cc: Carbon County Assessor
Bureau of Land Management, Moab District Office
WO11

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.
UTU-58434

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other (Coalbed Methane)

2. Name of Operator
Anadarko Petroleum Corporation (405) 475-7000

3. Address and Telephone No.
9400 N. Broadway, Suite 700; Oklahoma City, Oklahoma 73114

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1464' FSL & 2244' FWL (Lot 1)
 Section 22-T13S-R10E**

6. If Indian, Allottee or Tribe Name
Not Applicable

7. If Unit or CA, Agreement Designation
Not Applicable

8. Well Name and No.
Helper Federal A-2

9. API Well No.
47-007-30216

10. Field and Pool, or Exploratory Area
Wildcat

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

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Spud notice
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well was spud @ 3:00 P.M. on 09/20/94 with Veco Rig #15.

14. I hereby certify that the foregoing is true and correct

Signed *Shawn D. Young* Title Shawn D. Young, Drilling Eng. Date 09/21/94
 (This space for Federal or State office use)

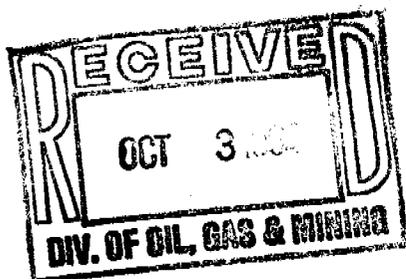
Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

ANADARKO PETROLEUM CORPORATION

9400 NORTH BROADWAY
SUITE 700
14051 475-7000
FAX (405) 475-6355 OR 6356

OKLAHOMA CITY, OKLAHOMA 73114

Anadarko 



September 30, 1994

CONFIDENTIAL

Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, UT 84532

RE: Helper Federal A-3
Helper Federal B-5 *See 22 TIPS RIDE*
Helper Federal C-1 *43-007-30214*
Carbon County, Utah

Gentlemen:

Please find enclosed a chronological recap for the past week of the daily drilling reports for the referenced wells.

If you have any questions or require additional information, please contact Ginni McDonald at (405) 475-7043.

Very truly yours,

ANADARKO PETROLEUM CORPORATION

Ginni S. McDonald
for Shawn D. Young
Drilling Engineer

SDY/gam

Enclosure

cc: State of Utah
Dept. of Natural Resources
Div. of Oil & Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Bureau of Land Management
Attn: Don Stephens
Price River Resource Area
900 North, 700 East
Price, UT 84501

WELL HISTORY
ONSHORE U.S.

UNCONVENTIONAL RESERVOIRS - DEVELOPMENT

FIRST REPORT

HELPER FEDERAL C-1, HELPER PROSPECT, 2169 FNL & 697 FEL, SEC. 22-13S-10E,
CARBON CO. UT, AFE 1407, WI 1.000, NRI 0.875, ETD 4600 (FERRON COALS), VECO
DRLG RIG #15

09/24/94 186 (86), DRLG, MW AIR, SPUD @ 1130 HRS ON 09/24/94, CC \$5,200.

09/25 258 (172), DRLG, MW AIR, CC \$7,200.

09/26 300 (42), WORT, MW AIR, DRLG, RU CSG CREW & RN 7 JTS 9-5/8" 36# J-55,
SET @ 298', CMT W/180 SX PREM & ADDS, CMT CIRC, CUT OFF CSG, WELD ON
HEAD, CC \$16,300.

09/27 300 (0), WORT MW NR, CC \$16,300.

09/28 300 (0), TST BOPE, MW NR MIRU RT, NU BOPS, CC \$23,200.

09/29 668 (368), DRLG, MW MIST, FIN TESTING BOPE, RU BLOOIE LINE & AIR
EQUIP, PU BHA & TIH, CC \$37,400. REP #1

09/30 2542 (1874), DRLG, MW AIR, CC \$60,882. REP #2

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: ANADARKO

WELL NAME: HELPER FEDERAL 22A-2

API NO. 43-007-30216

Section 22 Township 13S Range 10E County CARBON

Drilling Contractor VECO

Rig # 15

SPUDDED: Date 10/7/94

Time 4:15 PM

How ROTARY

Drilling will commence _____

Reported by SHAWN YOUNG

Telephone # _____

Date 10/7/94 SIGNED FRM

CONFIDENTIAL STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

OCT 17

5. Lease Designation and Serial Number:

U-58434

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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 proposals.

7. Unit Agreement Name:

Helper

1. Type of Well: OIL GAS OTHER: Coalbed

8. Well Name and Number:

Helper Fed. A-2

2. Name of Operator:
Anadarko Petroleum Corporation

9. API Well Number:

43-007-30216

3. Address and Telephone Number: (405) 475-7000
9400 N. Broadway, Ste. 700/ Oklahoma City, OK 73114-7403

10. Field and Pool, or Wildcat:

Wildcat

4. Location of Well
Footages: 1464' FSL & 2240' FWL, Sec 22-13S-10E
OO, Sec., T., R., M.: SW NE

County: Carbon

State: Utah

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

NOTICE OF INTENT
(Submit in Duplicates)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start N/A

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- 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 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.)

The proposed location layout for the subject well is attached. Distances and scales are approximate. The reclaimed area boundary is a conservative estimate. The actual reclaimed area will be as large as possible and most likely cover more than the area indicated on the diagram.

Accepted by the
State Division of
Oil and Gas and Mining
FOR RECORD ONLY

13.

Name & Signature: Bill Savage Bill Savage

Title: Senior Prod. Engr.

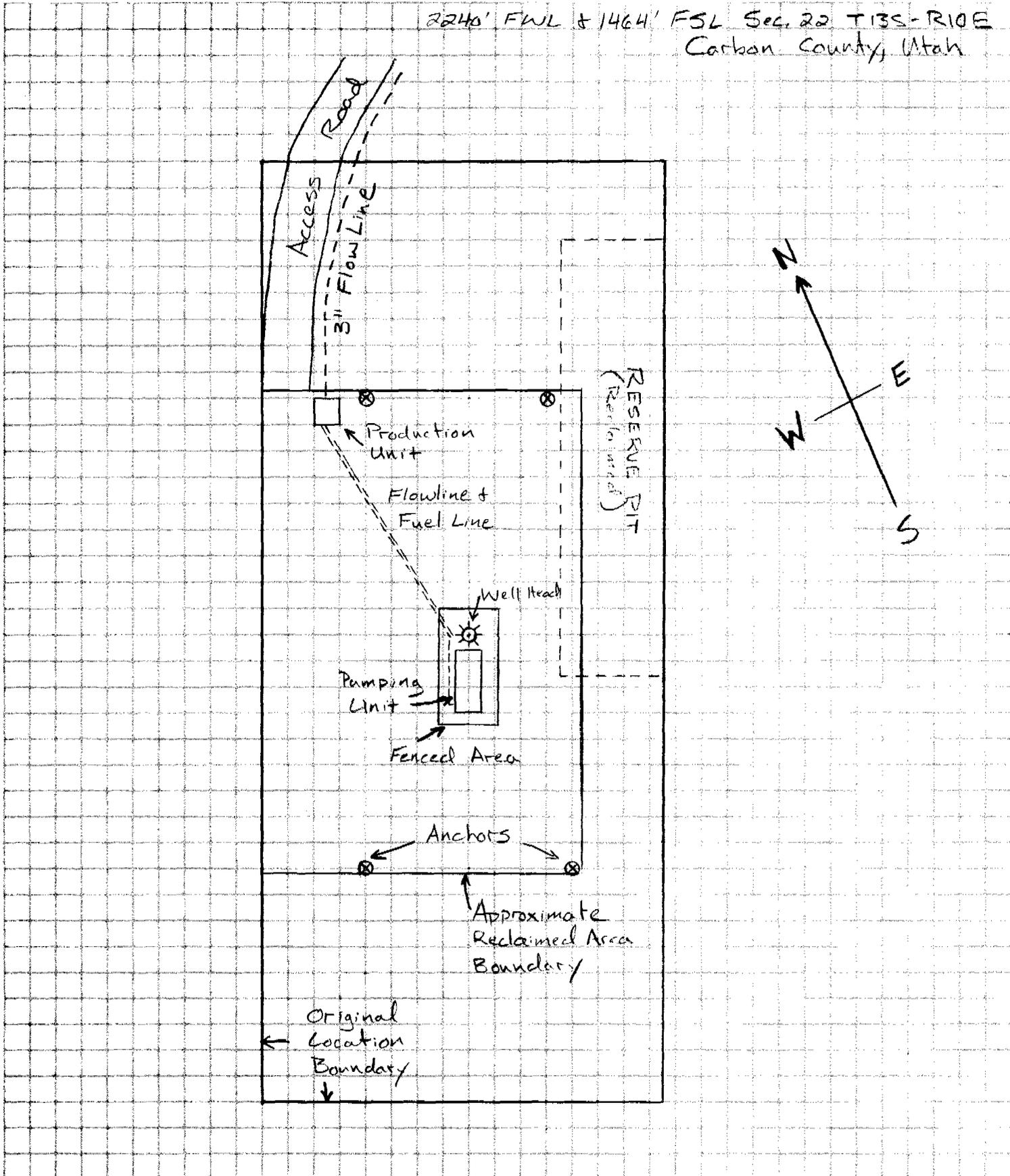
Date: 10-12-94

(This space for State use only)

DATE 10/10/94 PROJECT Helper Pilot JOB NO. _____

BY WAS CHK.: _____ SUBJECT Helper Federal A-2

2240' FWL & 1464' FSL Sec. 22 T13S-R10E
Carbon County, Utah



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



5. Lease Designation and Serial Number:

U-58434

6. If Indian, Altonse or Tribe Name:

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 proposals.

7. Unit Agreement Name:

HELPER

1. Type of Well: OIL GAS OTHER: COALBED METHANE

8. Well Name and Number:

HELPER FEDERAL A-2

2. Name of Operator:
ANADARKO PETROLEUM CORPORATION

9. API Well Number:

43-007-30216

3. Address and Telephone Number:
9400 N. BROADWAY, STE. 700 OKLAHOMA CITY, OK 73114 (405) 475-7000

10. Field and Pool, or Wildcat:

WILDCAT

4. Location of Well
Footages: 1464' FSL & 2244' FWL, SEC. 22-13S-10E
QQ, Sec., T., R., M.: SW NE

County: CARBON

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other COMMINGLE WATER
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- 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 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.)

Tests of produced water from the Helper Federal Field (Ferron Coal) and the Castlegate Field (Blackhawk Coal) and the Shimmin 10-11 disposal well (Price River Formation) indicate that the waters are compatible. As a result, permission to commingle produced water from the Helper Federal Field with the Castlegate Field is requested in order to allow for the disposal of water from both fields into the Shimmin Trust 10-11 in Section 11-T12S-R10E, Carbon County, Utah (UIC No. 146). Compatibility test results and recommendations from the Exxon Chemical Company's representative, Creg Wilkins, are attached.

Compatibility will be confirmed for each well individually before the water is commingled for disposal. The Shimmin Trust 10-11 is currently disposing 6500 BWPD at 1100 psi.

13. Name & Signature: BILL SAVAGE Title: SENIOR PROD. ENGR. Date: 11-4-94

(This space for State use only)

Federal Approval of this
Action is Necessary

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 11-8-94
BY: [Signature]

FROM NALCO-EXXON (RS)

EXXON CHEMICAL COMPANY
 P.O. Box 4321, Houston, Texas 77210-4321
 Tel. (713) 460-6800 Telex: 4942275 ENCEHOJ



TEST REPORT

		SHEET NUMBER	
COMPANY Anadarko Petroleum		DATE 10/20/94	
FIELD OR PLANT Helper/Castlegate		COUNTY OR PARISH Carbon	STATE Utah
LEASE OR UNIT	WELL(S) NAME & NO.	SAMPLE SOURCE Well	
TYPE SAMPLE		TYPE TEST	
REASON FOR TEST Water Compatibility			

RESULTS:

Gentlemen:

I have analyzed the produced water at the Helper B1, Helper A1 and the water from the Price River formation in the Castlegate field. It is my recommendation that the water from either of the Helper wells could be commingled with the water of the Price River formation and no problems should occur. As the attached 01/16/94, 03/01/94 (Price River formation), 09/09/93 (Helper A1), and 06/20/94 (Helper B1) water analysis, the make up of the Helper B1 and Helper A1 water is such that no foreign or contaminating properties are present in regard to compatibility with the Castlegate field.

REMARKS & RECOMMENDATIONS:

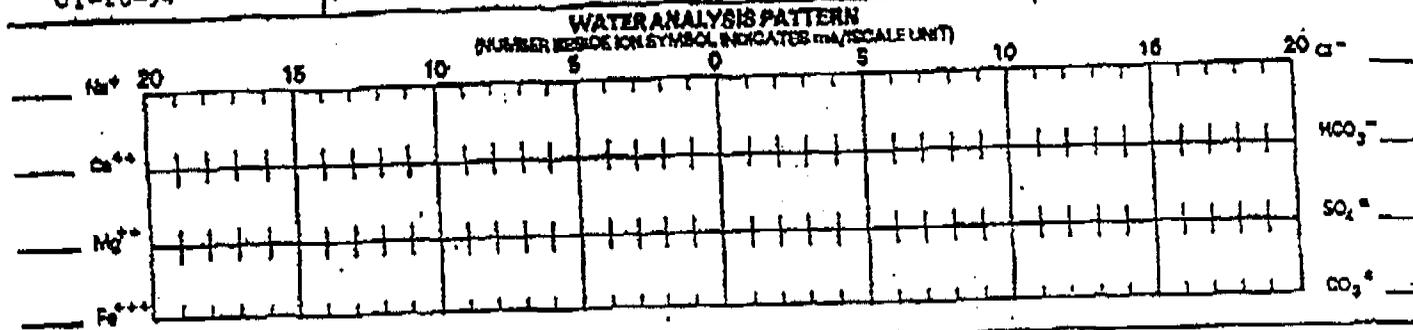
EC ENGINEER Creg Wilkins	DIST. NO. 20	ADDRESS Vernal, UT	OFFICE PHONE 789-2069	HOME PHONE 828-7331
ANALYZED BY	DATE	DISTRIBUTION	<input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION <input type="checkbox"/> DISTRICT



EXXON CHEMICAL COMPANY
 P.O. Box 4321 Houston, Texas 77210-4321
 Tel. (713) 460-8500 Telex: 4942225 EXCHEOU

134-0122
WATER ANALYSIS REPORT

COMPANY PG&E		COUNTY OR PARISH CARBON		WELL NUMBER
FIELD CASTLEGATE		STATE UTAH		DATE 01-16-94
LEASE OR UNIT 10-11 SHIMMIN	SAMPLE SOURCE ---			WATER SOURCE FORMATION Price River Formation
DEPT.	WELL #	SAMPLE SOURCE	TEMP. °F	WATER, BBL/DAY
DATE SAMPLED 01-16-94		TYPE OF WATER: <input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL		
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAM FLOOD		



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	mg/l	mg/l		mg/l
TOTAL HARDNESS	2.6		HYDROGEN SULFIDE, H ₂ S	
CALCIUM, Ca ⁺⁺	1.4	28	CARBON DIOXIDE, CO ₂	
MAGNESIUM, Mg ⁺⁺	1.2	14.64	OXYGEN, O ₂	
IRON (TOTAL), Fe ⁺⁺⁺	.035	.65	PHYSICAL PROPERTIES	
BARIUM, Ba ⁺⁺	.23	16	pH	10.5
SODIUM, Na ⁺ (CALC.)	302	11,555	EN (REDOX POTENTIAL)	m
			SPECIFIC GRAVITY	
			TURBIDITY, FTU UNITS	
ANIONS	mg/l	mg/l	TOTAL DISSOLVED SOLIDS (CALC.)	29,484 mg
CHLORIDE, Cl ⁻	479	17,000	STABILITY INDEX	☉ ☐ ☑
SULFATE, SO ₄ ⁼	6.25	300		
CARBONATE, CO ₃ ⁼	16	480		
BICARBONATE, HCO ₃ ⁼	0	0		
HYDROXYL, OH ⁻	4	68	CaSO ₄ SOLUBILITY	☉ ☑
SULFIDE, S ⁼	1.4	22		
PF/RF	.6/1.0		MAX. CaSO ₄ POSSIBLE (CALC.)	
			MAX. BaSO ₄ POSSIBLE (CALC.)	
			RESIDUAL HYDROCARBONS	ppm (Vol)

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS

ANALYZED BY Greg Wiklins	WELL NO. 832	ADDRESS 1299 E. 1500 S.	OFFICE PHONE 789-2069	HOME PHONE
ANALYZED BY	DATE	DISTRIBUTION	<input type="checkbox"/> CUSTOMER <input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT <input type="checkbox"/>

FORD ANALYTICAL LABORATORIES

CHEMICAL AND BACTERIOLOGICAL ANALYSIS

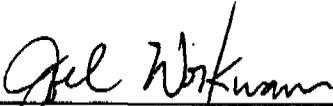
DATE: 03/01/94 CERTIFICATE OF ANALYSIS

PG & E RESOURCES
% JEFF DUNCAN
P.O. BOX 300
HELPER, UT 84526

94-006090

SAMPLE: WATER SAMPLE FROM CASTLEGATE INJECTION 10-11 (SHIMMIN 10-11)
COLLECTED 1-16-94, 5:00 P.M. RECEIVED 1-17-94 FOR ANALYSIS.

	Results	Method Detection Limit.
Barium Ba mg/l EPA 200.7	.965	.010
Bicarb. HCO3 mg/l SM4500-CO2D	971	.1
Calcium Ca mg/l EPA 200.7	40.3	.100
Carbonate CO3 mg/l SM4500-CO2D	152	.10
Chloride Cl mg/l EPA 300	16300	250
Hydrox. as OH mg/l SM4500-CO2D	.6	.10
Iron Fe mg/l EPA 200.7	26.6	.003
Magnesium Mg mg/l EPA 200.7	8.1	.100
Sodium Na mg/l EPA 200.7	10900	.500
Specific Gravity ASTM D-891	1.01	
Sulfate SO4 mg/l EPA 300	302	5
Sulfur as S mg/l EPA 6010	129	.01
Tot.Dis.Solids mg/l EPA 160.1	26600	10.0
pH Units EPA 150.1	9.42	
Temp. deg C at Receipt	25	
pH at Receipt	7	


FORD ANALYTICAL LABORATORIES

Sulfur and metal Analysis performed by Chemtech.
Sample preserved upon arrival for metals with HNO3.

* ND - INDICATES NONE DETECTED *

** < - INDICATES THE SMALLEST QUANTITY DETECTABLE DUE TO REQUIRED DILUTION **

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them, is reserved pending our written approval as a mutual protection to clients, the public and ourselves.



EXXON CHEMICAL COMPANY
 P.O. Box 4321, Houston, Texas 77210-4321
 Tel. (713) 460-6800 Telex: 4942225 ENCEMCU

TEST REPORT

		SHEET NUMBER	
COMPANY Anadarko Petroleum		DATE 8/19/94	
FIELD OR PLANT Helper/Castlegate	COUNTY OR PARISH Carbon	STATE Utah	
LEASE OR UNIT	WELL(S) NAME & NO.	SAMPLE SOURCE Well	
TYPE SAMPLE		TYPE TEST	
REASON FOR TEST Water Compatibility			

RESULTS:

Gentlemen:

I have analyzed produced water at the Helper B1, Helper A1 and Castle-gate field. It would be my recommendation that the water from Helper B1 and Helper A1 could be comingled with the water at the Castlegate field, and no problems should occur. As of the attached 9/93, 3/94, and 6/94 analysis', the makeup of the Helper B1 and Helper A1 water is such that no foreign or contaminating properties are present in regards to compatibility with the Castlegate field.

REMARKS & RECOMMENDATIONS:

EC ENGINEER Creg Wilkins	DIST. NO. 403	ADDRESS Vernal, UT	OFFICE PHONE 789-2069	HOME PHONE 828-7331
ANALYZED BY Creg Wilkins	DATE 8/19	DISTRIBUTION	<input checked="" type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input checked="" type="checkbox"/> REGION <input type="checkbox"/> DISTRICT

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

DISTRICT LAB

ANALYSIS #:

GENERAL INFORMATION

OPERATOR: ANADARKO.
WELL: HELPER A-1
FIELD:
FORMATION: FERREN COAL
COUNTY: RIO BLANCO
STATE: CO

DEPTH: 3800
DATE SAMPLED: 9-9-93
DATE RECEIVED: 9-13-93
SUBMITTED BY:
WORKED BY: CARLOS GRAHAM
PHONE #:

SAMPLE DESCRIPTION: PEACHY COLOR

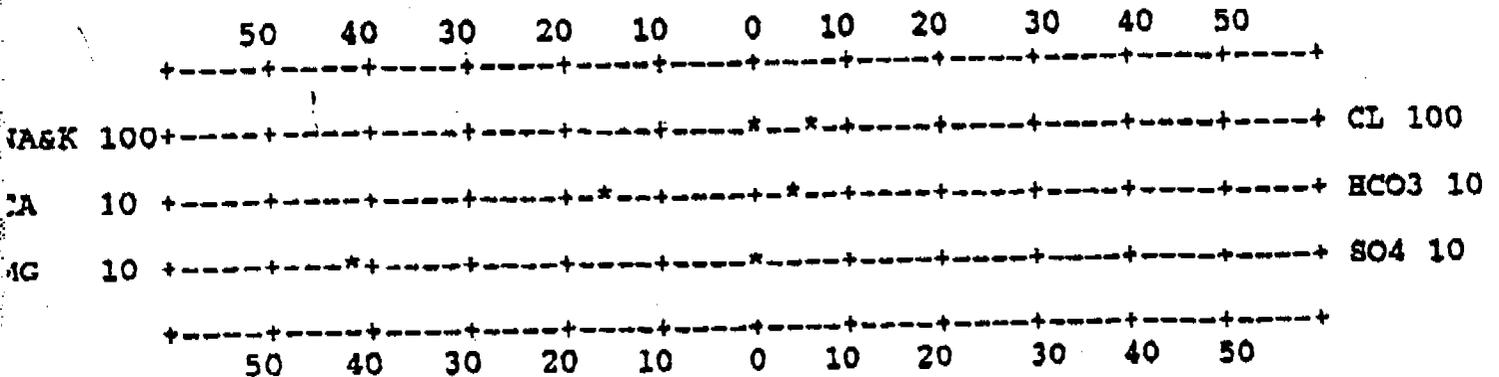
PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.025 @ 66 °F	PH:	7
RESISTIVITY (MEASURED):	OHM/METER @ °F		
IRON (FE++):	0 PPM	SULFATE:	0 PPM
CALCIUM:	3122 PPM	TOT. HARDNESS (HCO):	29268 PPM
MAGNESIUM:	5216 PPM	BICARBONATE:	2142 PPM
CHLORIDE:	21459 PPM	SODIUM CHLORIDE (CALC):	35377 PPM
SODIUM+POTASS:	1729 PPM	TOT. DISSOLVED SOLIDS:	54598 PPM
IODINE:		POTASSIUM CHLORIDE:	

REMARKS: 11:00AM SAMPLE

FX 806-878-3628

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

CARLOS GRAHAM

834-0122
WATER ANALYSIS REPORT

EXXON CHEMICAL COMPANY
P.O. Box 4321 Houston, Texas 77210-4321
Tel. (713) 460-8800 Telex: 4942225 ENCEHO



SHEET NUMBER

COMPANY: **Anadarko Petroleum** DATE: **6/20/94**

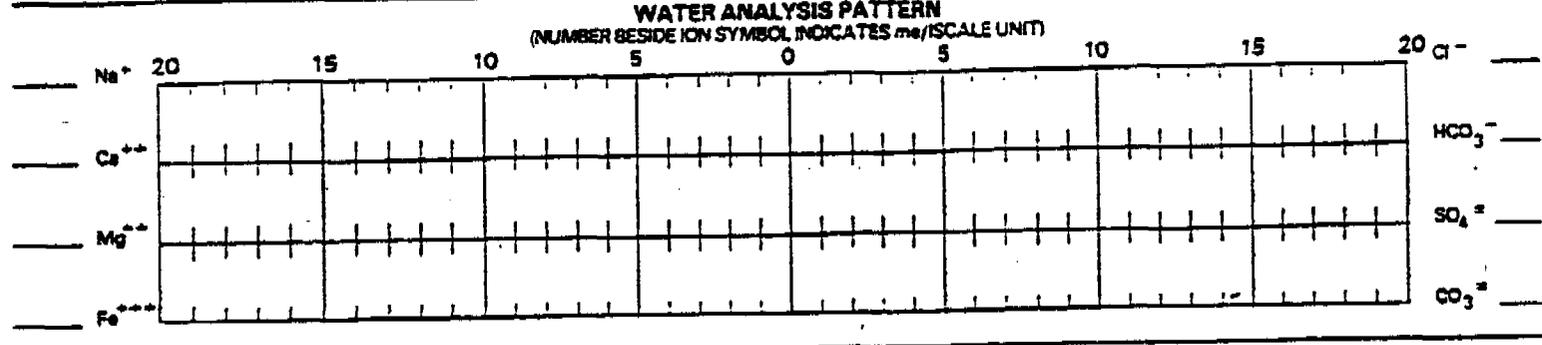
FIELD: **Helper** COUNTY OR PARISH: **Carbon** STATE: **Utah**

LEASE OR UNIT: **B 1** SAMPLE SOURCE: **Well Head** WATER SOURCE (FORMATION):

DEPTH FT.: **95°F** SAMPLE SOURCE: TEMP. °F: WATER, BBL/DAY: OIL, BBL/DAY: GAS, MMCF/DAY:

DATE SAMPLED: **6/16/94** TYPE OF WATER: PRODUCED SUPPLY WATERFLOOD SALT WATER DISPOSAL

TYPE OF PRODUCTION: PRIMARY WATERFLOOD CO₂ FLOOD POLYMER FLOOD STEAMFLOOD



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l	mg/l		
TOTAL HARDNESS	52	—	HYDROGEN SULFIDE, H ₂ S	0 mg/l
CALCIUM, Ca ⁺⁺	34	680	CARBON DIOXIDE, CO ₂	mg/l
MAGNESIUM, Mg ⁺⁺	18	220	OXYGEN, O ₂	mg/l
IRON (TOTAL) Fe ⁺⁺⁺	1.6	31	PHYSICAL PROPERTIES	
BARIUM, Ba ⁺⁺	0	0	pH	7.4
SODIUM, Na ⁺ (CALC.)	605	13,924	Eh (REDOX POTENTIAL)	mV
			SPECIFIC GRAVITY	
ANIONS	me/l	mg/l	TURBIDITY, FTU UNITS	
CHLORIDE, Cl ⁻	617	21,900	TOTAL DISSOLVED SOLIDS (CALC.)	39,321 mg/l
SULFATE, SO ₄ ⁼	.08	4	STABILITY INDEX	0 F
CARBONATE, CO ₃ ⁼	0	0		0 F
BICARBONATE, HCO ₃ ⁻	42	2,562		0 F
HYDROXYL, OH ⁻	0	0	CaSO ₄ SOLUBILITY	0 F mg/
SULFIDE, S ⁼	0	0		0 F mg/
DF/mF	0/2.1		MAX. CaSO ₄ POSSIBLE (CALC.)	mg/
			MAX. BaSO ₄ POSSIBLE (CALC.)	mg/
			RESIDUAL HYDROCARBONS	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS:

EC ENGINEER: **Creg Wilkins** DIST. NO.: **832** ADDRESS: **Vernal, UT** OFFICE PHONE: **(801) 789-2069** HOME PHONE: **828-7331**

ANALYZED BY: **Creg Wilkins** DATE: **6/20/94** DISTRIBUTION: CUSTOMER EC ENGINEER REGION DISTRICT

Water Analysis

Sample Description: Water Analysis

Company: P.G. & E.

Field: Fed 4-13

Date: 3/18/1994

Name	mg/l	meq/l
Sodium	4036.0	175.55
Calcium	72.0	3.59
Magnesium	126.9	10.44
Chloride	3700.0	104.36
Bicarbonate	5020.3	82.27
Carbonate	54.0	1.80
Sulfate	25.0	0.52
Barium	25.0	0.36
Sulfide	16.0	1.00
Iron	0.1	0.00
Total Dissolved Solids	13075.2	

Density: 1.0095 g/cc
Ionic Strength: 0.1988 moles/l
pH: 7.4

Form 3160-4
(November 1983)
(formerly 9-330)

CONFIDENTIAL
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT IN DUPLICATE*
NOV 25 1994
Other instructions on reverse side

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.
U-58434
7. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1A. TYPE OF WELL: OIL WELL GAS WELL DRY Other COALBED METHANE

1B. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RENVR. Other _____

2. NAME OF OPERATOR
ANADARKO PETROLEUM CORP.

3. ADDRESS OF OPERATOR
9400 N. BROADWAY, STE. 700 OKLAHOMA CITY, OK 73114

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1464' FSL & 2244' FWL (LOT1)
At top prod. interval reported below SAME
At total depth SAME

7. UNIT AGREEMENT NAME
HELPER

8. FARM OR LEASE NAME
HELPER FEDERAL

9. WELL NO.
A-2

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T. R. N., OR BLOCK AND SURVEY OR AREA
SEC. 22-T13S-R10E

12. COUNTY OR PARISH
CARBON

13. STATE
UTAH

14. PERMIT NO. 43-007-30216 DATE ISSUED 9-7-94

15. DATE SPUNDED 9-20-94 16. DATE T.D. REACHED 10-12-94 17. DATE COMPL. (Ready to prod.) 11-3-94 18. ELEVATIONS (DP, RKB, ST, GR, ETC.)* 6658 GL 19. ELEV. CASINGHEAD 6668 KB

20. TOTAL DEPTH, MD & TVD 4400 21. PLUG BACK T.D., MD & TVD 4148 22. IF MULTIPLE COMPL. HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
FERRON COALS 3830-4125

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
LITHO-DEN, TEMP, CBL, GR

27. WAS WELL CORRED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	310	12-1/4	220SX CL "C"	NONE
5-1/2	17	4319	7-7/8	210 SX THIXOTROPIC	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
NONE				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	4085	NONE

31. PERFORATION RECORD (Interval, size and number)

3933-37, 3948, 3959-65, 3996-98, 4007, 4015-17, 4035-40, 0.4" EHD, 4SPF 104 HOLES.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3933-4040	ACID-W/8000 GALS 15% HCL FRAC 4821 BSW + 25900# 100 MESH SD @1 PPG + 60000 #20/40 SD @ 1-3 PPG

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
11-3-94	PUMPING	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
11-7-94	24			0	0	136	-

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)
N/A	60		0	0	136	-

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
VENTED/ USED FOR FUEL

TEST WITNESSED BY
JEFF DUNCAN

35. LIST OF ATTACHMENTS
LITHO-DEN, TEMP LOGS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED BILL SAVAGE TITLE SENIOR PRODUCTION ENGINEER DATE 11-17-94

* (See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (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):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
BLUEGATE SH	1600	3830				
FERRON SH SD	3830	4125				
MASUK SH	4125					

WELL HISTORY
ONSHORE U.S.

UNCONVENTIONAL RESERVOIRS - DEVELOPMENT

FIRST REPORT

HELPER FEDERAL A-2, HELPER PROSPECT, 1464 FSL & 2244 FWL, SEC. 22-13S-10E, CARBON CO. UT, AFE 1404, WI 1.000, NRI 0.825, ETD 4400 (FERRON COALS), VECO DRLG RIG #15

09/21/94 120 (120), DRLG, MW AIR, SPUD @ 1500 HRS ON 09/20/94, CC \$4,200.

09/22 300 (180), DRLG, MW AIR, CC \$5,700.

09/23 310 (10), WORT, MW AIR, DRLG, TOH, RU CSG CREW & RAN 7 JTS 8-5/8" 24# J-55 CSG, SET @ 310', CMT W/220 SX CL "G" CMT, CMT CIRC, BMPD PG, FLOAT HELD, WOC, WELD ON HEAD & TST, CC \$12,400.

9/24-10/6 310 (0), WORT.

10/07 310 (0), TST BOPE, MW AIR, MIRU RT, NU BOPE, CC \$63,400. REP #1

10/08 310 (0), PU DC'S, MW AIR, TST BOPE, RU & DRILL RAT HOLE & MOUSE HOLE, CC \$72,600. REP #2

10/09 1070 (760), DRLG, MW AIR, RU ROTATING HD & AIR EQUIP, DRLG CMT & FE, CC \$80,300. REP #3

10/10 3017 (1947), DRLG, MW AIR, CC \$89,000. REP #4

10/11 4400 (1383), TOH FOR LOGS, MW AIR, DRLG TO 4400, CC \$98,300. REP #5

10/12 4400 (0), ND BOPE, MW AIR, TOH, RU & RUN OH LOGS, TIH, W & R 78' TO BTM, CIRC, TOH & LDDP & DC'S, RU CSG CREW & RAN 102 JTS 5-1/2 17# J-55 CSG, SET @ 4391, CIRC, CMT W/210 SX THIXOTROPIC CMT, BMPD PG, FLOAT HELD, CC \$168,000. REP #6

10/13 4400 (0), WOCU, MW NR, SET SLIPS, RIG RELEASED @ 0700 HRS ON 10/12/94, CC \$171,300. --DROP FROM REPORT-- REP #6

FIRST DROPPED 10/13/94, DATA LAST RPT'D 10/13/94 (10/13/94 DR)

10/15 TD 4400 (FERRON COALS), TSTD CSG TO 4500, RU WL, RAN GR/CCL, SET DWN @ 4184, RAN 4.625" GR TO 4100, PERF 3933-4040 OA, SI, SDFWE, CC \$190,000.

10/16-17 SI.

10/18 PBTD 4184 (FERRON COALS), ACIDIZED W/5000 GALS 15% HCL, AR 10 BPM, FRAC W/1220 BSW, SD, CHEM PMP FAILED, ISDP 1640, RPR PMP, PMP 320 BSW + 10000# 100 MESH SD, SAND MASTER FAILED, SD, AR 80, AP 3300, ISDP 1650, 2100 BLWIR, RESUME FRAC 10/18, CC \$192,000.

10/19 PBTD 4184 (FERRON COALS), ACIDIZE W/3000 GALS 15% HCL & BS, MODERATE BALL ACTION, AR 90, AP 1600, SURGE BALLS, FRAC W/1351 BSW + 15900# 100 MESH SD & 66000# 20/40 SD, SCREENED OUT W/60000# 20/40 IN FORMATION, AR 50, AP 3500, MP 4500, FLWD BACK 75 BLW, SDFN, 4744 BLWIR, CC \$258,000.

10/20 PBTD 4184 (FERRON COALS), SICP 100, BD IN 1 HR, OPN TO TANK ALL DAY, REC 8 BLW, 4756 BLWIR, SI WO RIG, CC \$258,700. --DROP FROM REPORT--

FIRST DROPPED 10/13/94, DATA LAST RPT'D 10/20/94 (10/20/94 DR)

10/23 PBTD 4184 (FERRON COALS), MIRUPU, TIH W/NOTCHED COLLAR & 2-3/8" TBG, TAG FILL @ 3661', CO TO 4226', LOST 200 BLW, TOH TO 3800', 4956 BLWIR, CC \$274,800.

10/24 PBTD 4226 (FERRON COALS), RIH W/GR, LOGGED FROM 4220'-3650', RU TO SWB, SWBD 172 BLW IN 6 HRS, FFL 800', TAG FILL @ 4136' (90' FILL), TOH TO 3800', 4784 BLWIR, CC \$278,600.

10/25 PBTD 4226 (FERRON COALS) TIH TAG FILL @ 4136, CO SAND TO 4226, LOST 55 BW, TIH W/2-3/8" TBG, SN & TA, SN @ 4085, TA @ 3894, TIH W/2 X 1-1/2 X 16 PUMP, 6 WT BARS, 157 3/4" RODS & HUNG OFF, WO PU & FACILITY, 5011 BLWIR, CC \$296,700. --DROP FROM REPORT--

FIRST DROPPED 10/13/94, DATA LAST RPT'D 10/20/94 (10/20/94 DR)

11/01/94 PBTD 4226 (FERRON COALS), SI, WO CENTRAL FACILITIES, 5011 BLWIR, CC \$296,700. --DROP FROM REPORT--

FIRST DROPPED 10/13/94, DATA LAST RPT'D 10/28/94 (10/28/94 DR)

11/03 PBTD 4226 (FERRON COALS), SET PU & SEPARATOR, PMP TO TST TANK, PMPD 70 BLWPD, CP 0, FL 660, 4941 BLWIR, CC \$336,700.

11/04 PBTD 4226 (FERRON COALS), PMPD 126 BLWPD, CP 0, FL 820, 4815 BLWIR, CC \$336,700.

11/05 PBTD 4226 (FERRON COALS), PMPD 130 BLWPD, CP 10, FL 787, 4685 BLWIR, CC \$336,700.

11/06 PBTD 4226 (FERRON COALS), PMPD 133 BLWPD, 0 MCF, CP 10, FL 850, 4552 BLWIR, CC \$336,700.

11/07 PBTD 4226 (FERRON COALS), PMPD 136 BLWPD, 0 MCF, CP 60, FL 1040, 4416 BLWIR, CC \$336,700.

11/08 PBTD 4226 (FERRON COALS), PMPD 137 BLWPD, 0 MCF, CP 50, FL 1100, 4279 BLWIR, CC \$336,700.

11/09 PBTD 4226 (FERRON COALS), PMPD 151 BLWPD, 0 MCF, CP 50, FL 1102, 4128 BLWIR, CC \$336,700.

11/10 PBTD 4226 (FERRON COALS), PMPD 25 BLWPD, 30 MCF, CP 55, FL 693, 4103 BLWIR, CC \$336,700.

11/11 PBTD 4226 (FERRON COALS), PMPD 150 BLWPD, 38 MCF, CP 56, FL 988, 3953 BLWIR, CC \$336,700.

11/12 PBTD 4226 (FERRON COALS), PMPD 152 BLWPD, 53 MCF, CP 60, FL 1140, 3801 BLWIR, CC \$336,700.

11/13 PBTD 4226 (FERRON COALS), PMPD 149 BLWPD, 62 MCF, CP 60, FL 1289, 3652 BLWIR, CC \$336,700.

11/14 PBTD 4226 (FERRON COALS), PMPD 90 BLWPD, 77 MCF, CP 58, FL 280, 3562 BLWIR, CC \$336,700.

11/15 PBTD 4226 (FERRON COALS), PMPD 85 BLWPD, 76 MCF, CP 60, FL 190, 3477 BLWIR, CC \$336,700.

11/16 PBTD 4226 (FERRON COALS), PMPD 149 BLWPD, 89 MCF, CP 54, FL 95, 3328 BLWIR, CC \$336,700.

11/17 PBTD 4226 (FERRON COALS), HOOKUP GAS GATHERING SYSTEM, PURGE & PACK LINE, PMPD 114 BLWPD, 107 MCF, CP 60, FL 0, 3214 BLWIR, CC \$336,700.

11/18 PBTD 4226 (FERRON COALS), HOOKUP GAS GATHERING SYSTEM, PURGE & PACK LINE, PMPD 148 BLWPD, 111 MCF, CP 100, FL 190, 3066 BLWIR, CC \$336,700.

11/19 PBTD 4226 (FERRON COALS), **FIRST GAS SALES 1730 HRS, 11/17/94**, PMPD 138 BLWPD, 102 MCF, CP 100, FL 724, 2928 BLWIR, CC \$336,700.

11/20 PBTD 4226 (FERRON COALS), PMPD 140 BLWPD, 122 MCF, CP 40, FL 252, 2788 BLWIR, CC \$336,700.

11/21 PBTD 4226 (FERRON COALS), PMPD 143 BLWPD, 125 MCF, CP 33, FL 378, 2645 BLWIR, CC \$336,700.

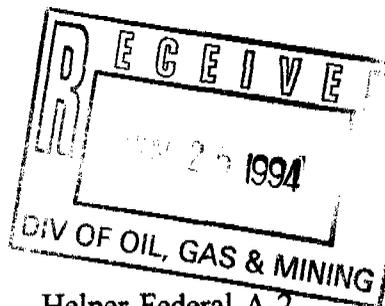
11/22 PBTD 4226 (FERRON COALS), PMPD 120 BLWPD, 138 MCF, CP 32, FL 587, 2525 BLWIR, CC \$336,700.

11/23 PBTD 4226 (FERRON COALS), PMPD 155 BLWPD, 147 MCF, CP 70, FL 315, 2370 BLWIR, CC \$336,700.



November 17, 1994

Bureau of Land Management
Moab District Office
P. O. Box 970
Moab, Utah 84532



RE" Helper Federal A-2
Section 22-T13S-R10E
Carbon County, Utah

Gentlemen:

Please find attached in triplicate the required Well Completion Report (Form 3160-4) for the referenced well. A copy of the Litho Density and Temp Logs are also enclosed.

Please hold all logs confidential for a two year period.

If you have any questions, please contact me at (405) 475-7019.

Very truly yours,
Anadarko Petroleum Corporation

A handwritten signature in cursive script that reads "Trina Talmadge".

Trina Talmadge
Technical Assistant

TET/cdp
helpera2.blm

attachments

cc: State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Ste. 350
Salt Lake City, Utah 84180-1203

Bureau of Land Management
Price River Resources Area
900 North, 700 East
Price, Utah 84501

WF

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	11699	43-007-30216	Helper Federal A-2	NE SW	22	13S	10E	Carbon	9/20/94	9/20/94
WELL 1 COMMENTS: <i>Entities added 12-2-94. Jec</i>											
A	99999	11700	43-007-30213	Helper Federal A-3	SE SE	22	13S	10E	Carbon	9/14/94	9/14/94
WELL 2 COMMENTS:											
A	99999	11701	43-007-30215	Helper Federal B-5	NE NE	27	13S	10E	Carbon	9/15/94	9/15/94
WELL 3 COMMENTS:											
A	99999	11702	43-007-30214	Helper Federal C-1	SE NE	22	13S	10E	Carbon	9/24/94	9/24/94
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)

Daniel Winchester
 Signature D.R. Winchester

Sr. Staff Drlg. Eng. 12/01/94
 Title Date

Phone No. (405) 475-7023

FROM: ANADARKO PETROLEUM CORPORATION TO: 801 359 3940 DEC 2, 1994 12:26PM P.02

OPERATOR Anadarko Petroleum Corporation
 ADDRESS 9400 N. Broadway, Suite 700
Oklahoma City, OK 73114

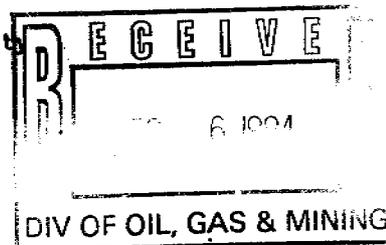
OPERATOR ACCT. NO. 11 0035

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	11699		43-007-30216	Helper Federal A-2	NE SW	22	13S	10E	Carbon	9/20/94	9/20/94
WELL 1 COMMENTS: <i>Entity previously added 12-2-94. Jue</i>											
A	11700		43-007-30213	Helper Federal A-3	SE SE	22	13S	10E	Carbon	9/14/94	9/14/94
WELL 2 COMMENTS: <i>Entity previously added 12-2-94.</i>											
A	11701		43-007-30215	Helper Federal B-5	NE NE	27	13S	10E	Carbon	9/15/94	9/15/94
WELL 3 COMMENTS: <i>Entity previously added 12-2-94.</i>											
A	11702		43-007-30214	Helper Federal C-1	SE NE	22	13S	10E	Carbon	9/24/94	9/24/94
WELL 4 COMMENTS: <i>Entity previously added 12-2-94.</i>											
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)



D. Winchester
 Signature D. Winchester
 Title Sr. Staff Drlg. Eng. Date 12/01/94
 Phone No. (405) 475-7023



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

RECEIVE

1994

November 30, 1994

Mr. Bill Savage
Anadarko Petroleum Corporation
9400 North Broadway Suite 700
Oklahoma City, Oklahoma 73114

Re: Helper Federal A-2, API No. 43-007-30216
Submittal of Electric and Radioactivity Logs

Dear Mr. Savage:

135 10E 22

We have received the Litho-Density, Temperature and Gamma Ray-CCL after Frac Logs for the referenced well. The Well Completion Report indicates that a CBL log was run. Please submit a copy of that log to this office as soon as possible.

Your help in this matter will be greatly appreciated. If you have questions regarding this request, please contact me at (801) 538-5340.

Sincerely,

Vicky Carney

Vicky Carney
Production Group Supervisor

cc: R. J. Firth
D. T. Staley
L. D. Clement
Log File

*The CBL log was included on 3160-4
by mistake there was not one run.
Please correct your original*

*Trina Talmadge
Anadarko Petroleum
Engineering Tech
405 475-7019*

UNITED STATES
DEPARTMENT OF THE INTERIOR OF OIL, GAS & MINING
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

MINERAL DESIGNATION AND SERIAL NO.
U-58434

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

HELPER

8. FARM OR LEASE NAME

HELPER FEDERAL

9. WELL NO.

A-2

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SEC. 22-T13S-R10E

12. COUNTY OR PARISH

CARBON

13. STATE

UTAH

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 DEEP-EN PLUG BACK DIFF. SERV. Other

2. NAME OF OPERATOR
ANADARKO PETROLEUM CORP.

3. ADDRESS OF OPERATOR
9400 N. BROADWAY, STE. 700 OKLAHOMA CITY, OK 73114

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1464' FSL & 2244' FWL (LOT1)
At top prod. interval reported below
SAME
At total depth
SAME

14. PERMIT NO. 43-007-30216
DATE ISSUED 9-7-94

15. DATE SPUDDED 9-20-94
16. DATE T.D. REACHED 10-12-94
17. DATE COMPL. (Reply to prod.) 11-3-94
18. ELEVATIONS (DF, RNR, AT, GR, ETC.)* 6658 GL
19. SLEV. CASINGHEAD 6668 KB

20. TOTAL DEPTH, MD & TVD 4400
21. PLUG BACK T.D., MD & TVD 4148
22. IF MULTIPLE COMPL. HOW MANY*
23. INTERVALS DRILLED BY
24. PRODUING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
25. WAS DIRECTIONAL SURVEY MADE

FERRON COALS 3830-4125
LITHO-DEN, TEMP, GR

26. TYPE ELECTRIC AND OTHER LOGS RUN
LITHO-DEN, TEMP, GR

27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	310	12-1/4	220SX CL "C"	NONE
5-1/2	17	4319	7-7/8	210 SX THIXOTROPIC	NONE

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE					2-3/8	4085	NONE

31. PERFORATION RECORD (Interval, size and number)

3933-37, 3948, 3959-65, 3996-98, 4007
4015-17, 4035-40, 0.4" EHD, 4SPF 104 HOLES.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3933-4040	ACID-W/8000 GALS 15% HCL FRAC 4821 BSW + 25900# 100 MESH SD @1 PPG + 60000 #20/40 SD @ 1-3 PPG

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
11-3-94	PUMPING	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
11-7-94	24			0	0	136	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
N/A	60		0	0	136	-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

VENTED/ USED FOR FUEL
TEST WITNESSED BY JEFF DUNCAN

35. LIST OF ATTACHMENTS

LITHO-DEN, TEMP LOGS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED BILL SAVAGE BILL SAVAGE TITLE SENIOR PRODUCTION ENGINEER DATE 11-17-94

CONFIDENTIAL

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

R E C E I V E D
JAN 5 1995
DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <u>COALBED METHANE</u>	6. If Indian, Allottee or Tribe Name
2. Name of Operator <u>ANADARKO PETROLEUM CORPORATION</u>	7. If Unit or CA, Agreement Designation <u>HELPER</u>
3. Address and Telephone No. <u>9400 N. BROADWAY, STE. 700, OKLAHOMA CITY, OK 73114</u>	8. Well Name and No. <u>HELPER FEDERAL A-2</u>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>1464' FSL & 2244' FWL (LOT 1) SEC. 22-T13S-R10E</u>	9. API Well No. <u>43-007-30216</u>
	10. Field and Pool, or Exploratory Area <u>WILDCAT</u>
	11. County or Parish, State <u>CARBON, UTAH</u>

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>FIRST SALE</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

FIRST SALE TO QUESTAR @ 1730 HRS 11-17-94.

14. I hereby certify that the foregoing is true and correct

Signed BILL SAVAGE Title SENIOR PRODUCTION ENGINEER Date 01-18-95

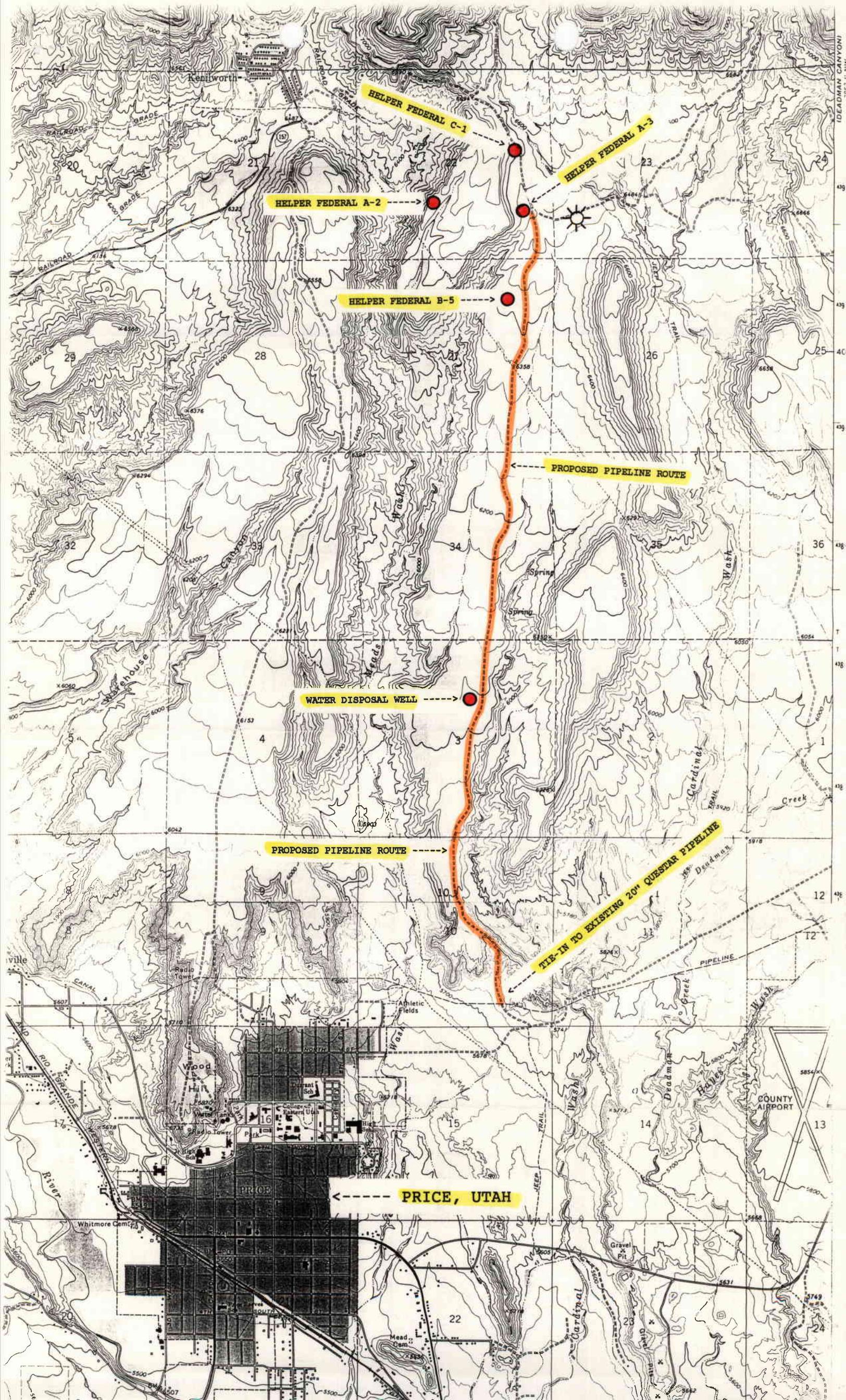
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

Title 18 U.S.C. Section 1001, 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 statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



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

FROM: (Old Operator):

N0035-Anadarko Petroleum Corporation
 PO Box 173779
 Denver, CO, 80214

Phone: 1 (720) 929-6000

TO: (New Operator):

N3940- Anadarko E&P Onshore LLC
 PO Box 173779
 Denver, CO 802014

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
- a. (R649-9-2)Waste Management Plan has been received on: Yes
- b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- c. 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 OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CBM Wells</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: See Wells
2. NAME OF OPERATOR: Anadarko Petroleum Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80217</u>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		8. WELL NAME and NUMBER:
		9. API NUMBER: See Wells
		10. FIELD AND POOL, OR WILDCAT:
		COUNTY: _____ STATE: UTAH

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 (Submit in Duplicate) Approximate date work will start: <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 (Submit Original Form Only) 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

Jaime Scharnowske
Jaime Scharnowske
Regulatory Analyst

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

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 <i>Jaime Scharnowske</i>	DATE <u>4/8/2013</u>

(This space for State use only)
APPROVED
APR 11 2013
DIV. OIL GAS & MINING
Rachel Medina

(See Instructions on Reverse Side)

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