

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 14 1995

5. LEASE DESIGNATION AND SERIAL NO.
GPO-68315

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

3. ADDRESS AND TELEPHONE NO.
9400 N. Broadway, Suite 700, OKC, OK 73114 405/475-7000

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1413 1567 5W
2213' FNL & 1016' FEL (SE/NE), Sec. 26-13S-10E
At proposed prod. zone 1576 5W
1413 2213' FNL & 1016' FEL (SE/NE), Sec. 26-13S-10E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8.6 miles NE of Price, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any.)
1800' FNL
1200' FEL

16. NO. OF ACRES IN LEASE
2057.55

17. NO. OF ACRES ASSIGNED TO THIS WELL
Anticipate 160 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
N/A

19. PROPOSED DEPTH
4000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, BT, GR, etc.)
6326' GR

22. APPROX. DATE WORK WILL START*
7-15-96

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT/AGREEMENT NAME

8. FARMOR LEASE NAME WELL NO.
Helper Federal D-1

9. AN WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
26-13S-10E

12. COUNTY OR PARISH
Carbon

13. STATE
Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24.0	300'	200 cu. ft.
7-7/8"	5-1/2"	15.5	4000'	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.

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.

24. SIGNED D.R. Winchester TITLE D.R. Winchester Sr. Staff Drilling Eng. DATE 8-11-95

(This space for Federal or State office use)

PERMIT NO. 43-007-30286 APPROVAL DATE _____

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

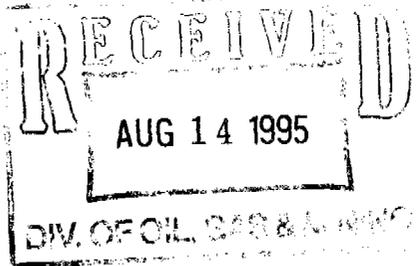
APPROVED BY [Signature] TITLE Petroleum Engineer DATE 5/15/96

*See Instructions On Reverse Side



August 11, 1995

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



Attn: Kate Kitchel

RE: Helper Federal D-1
Sec. 26-13S-10E
Carbon Co., Utah

Dear Ms. Kitchel:

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 @ 405/475-7026.

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
Attachment

c:\drilling\helperd1\drilperm.

cc: 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

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/14/95

API NO. ASSIGNED: 43-007-30286

WELL NAME: HELPER FEDERAL D-1
 OPERATOR: ANADARKO PETROLEUM CORP (N0035)

PROPOSED LOCATION:
 SENE 26 - T13S - R10E
 SURFACE: 1413-FNL-1567-FEL
 BOTTOM: 1413-FNL-1567-FEL
 CARBON COUNTY
 WILDCAT FIELD (001)

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

LEASE TYPE: FED
 LEASE NUMBER: UTU - 68315

PROPOSED PRODUCING FORMATION: FRSD

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal State Fee
 (Number UNKN)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit
 (Number CITY OF PRICE)
- RDCC Review (Y/N)
 (Date: _____)

LOCATION AND SITING:

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

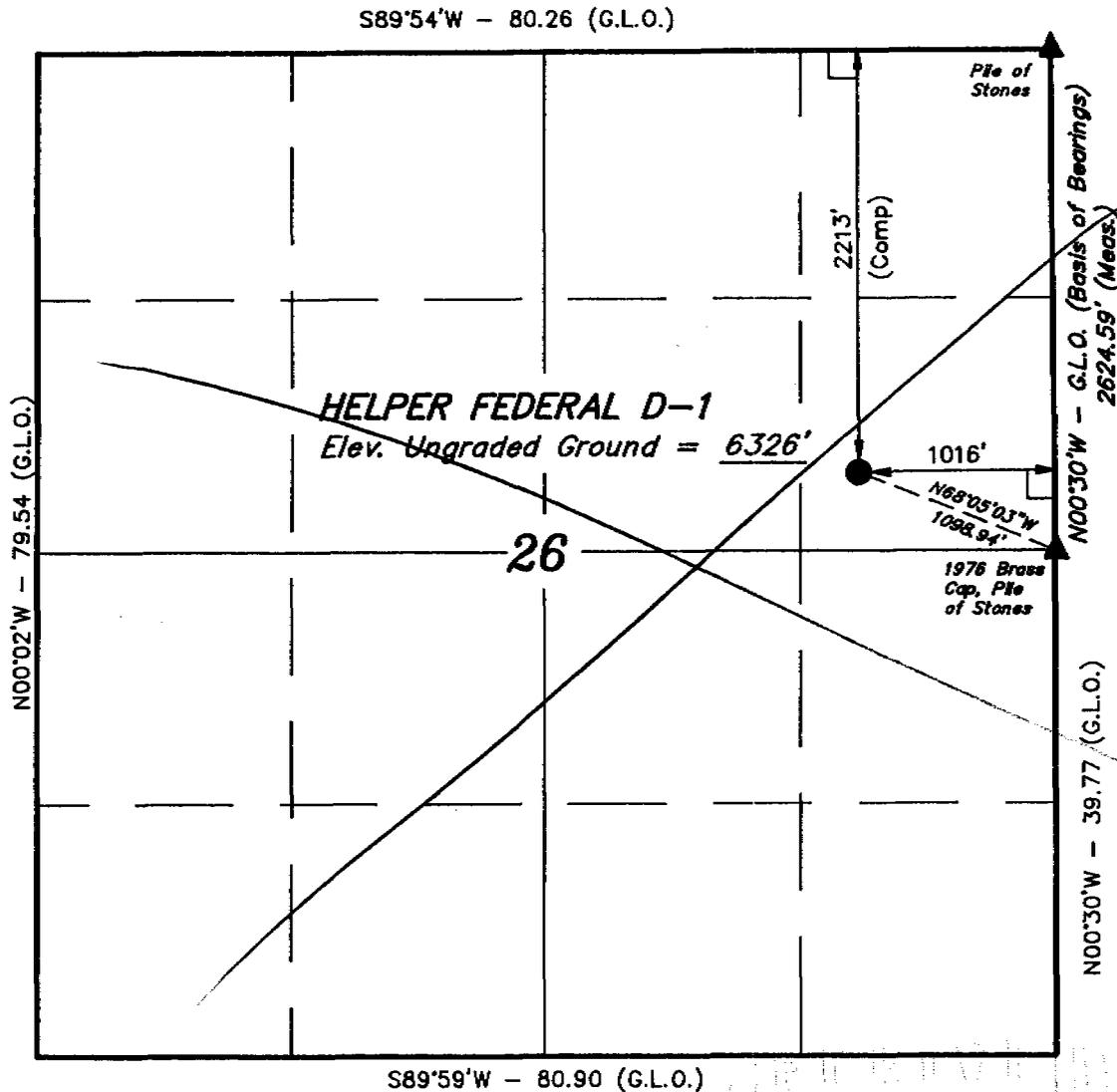
COMMENTS: _____

STIPULATIONS: _____

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

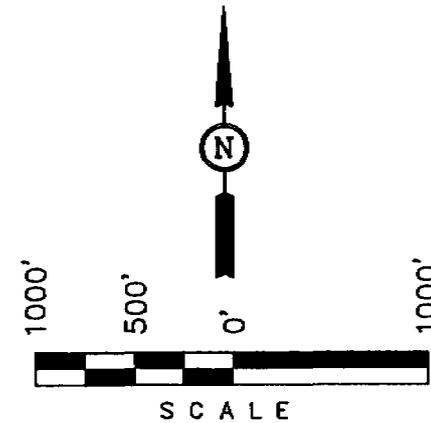
ANADARKO PETROLEUM CORP.

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



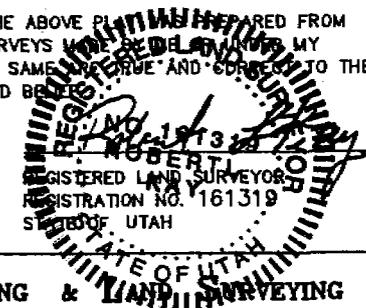
BASIS OF ELEVATION

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



CERTIFICATE

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



LEGEND:

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

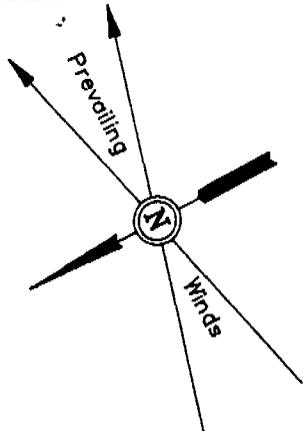
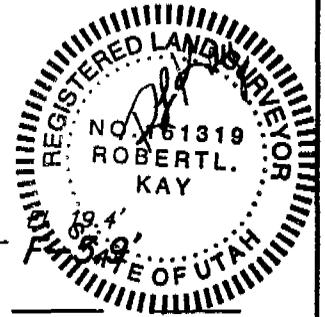
AUG 21 1995

UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 6-2-95	DATE DRAWN: 6-5-95
PARTY G.S. D.G. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ANADARKO PETROLEUM CORP.	

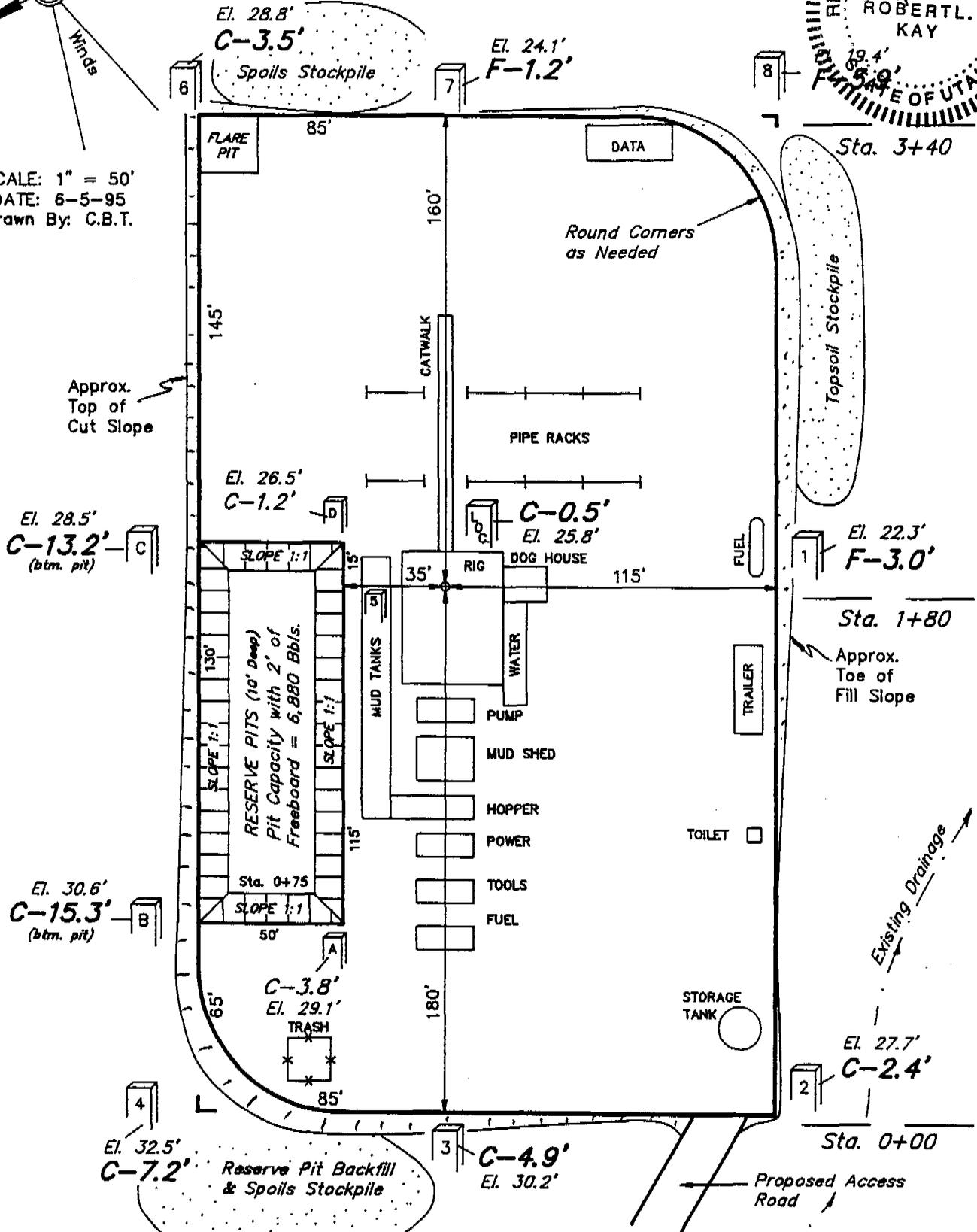
ANADARKO PETROLEUM CORP.

LOCATION LAYOUT FOR

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
2213' FNL 1016' FEL



SCALE: 1" = 50'
DATE: 6-5-95
Drawn By: C.B.T.



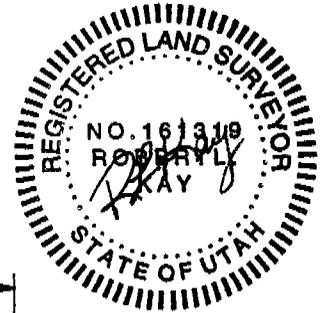
ELEV. UNGRADED GROUND AT LOC. STAKE = 6325.8'
ELEV. GRADED GROUND AT LOC. STAKE = 6325.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

ANADARKO PETROLEUM CORP.

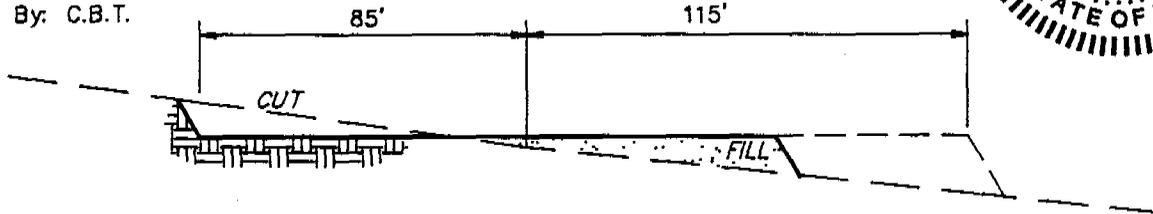
TYPICAL CROSS SECTIONS FOR

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
2213' FNL 1016' FEL

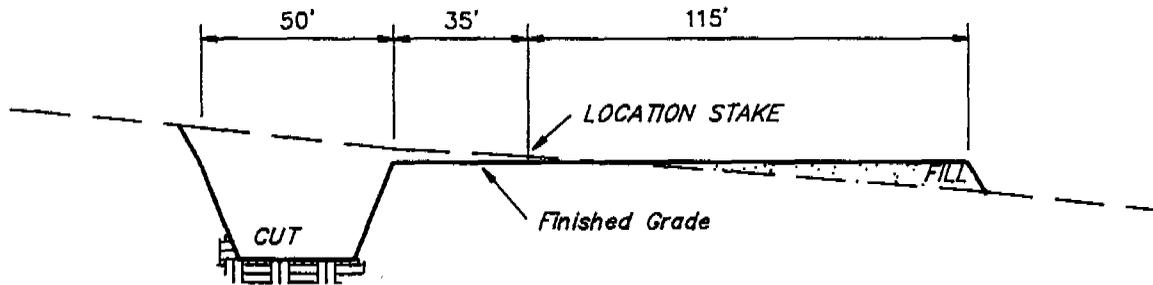


1" = 20'
X-Section
Scale
1" = 50'

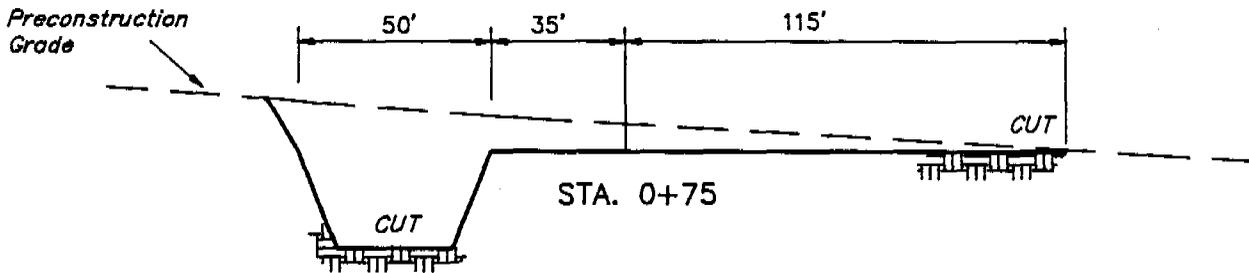
DATE: 6-5-95
Drawn By: C.B.T.



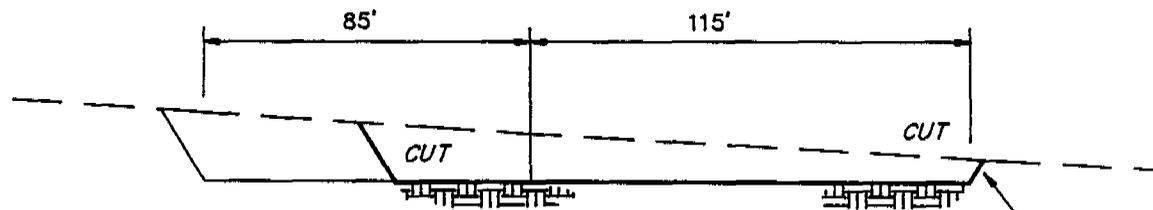
STA. 3+40



STA. 1+80



STA. 0+75



STA. 0+00

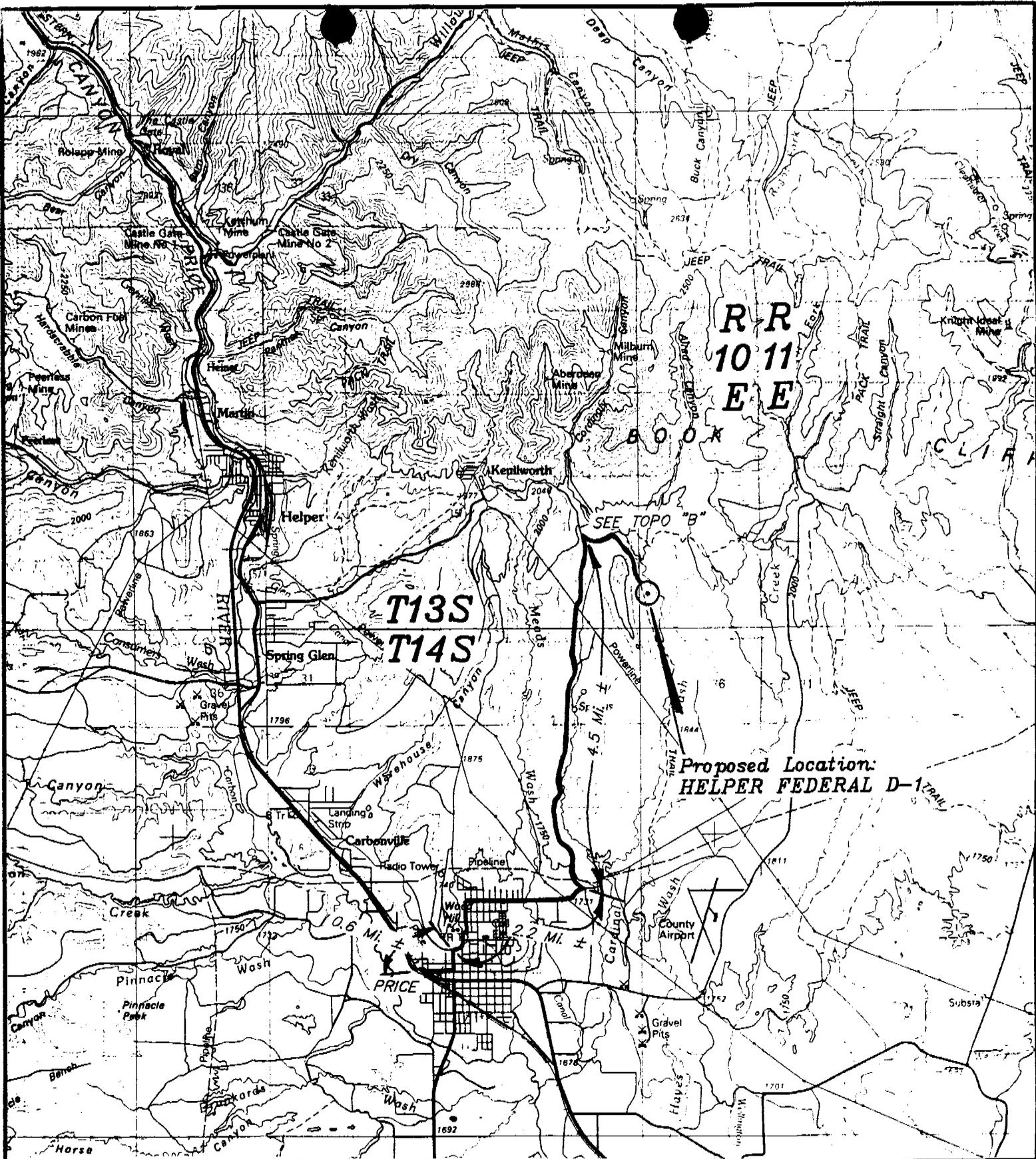
Slope = 1 1/2:1
(Typ. except pits)

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,300 Cu. Yds.
Remaining Location	= 5,110 Cu. Yds.
TOTAL CUT	= 6,410 CU.YDS.
FILL	= 2,510 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 3,770 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,190 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,580 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah



TOPOGRAPHIC
MAP "A"

ANADARKO PETROLEUM CORP.

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
2213' FNL 1016' FEL

DATE: 6/5/95 D.COX

Anadarko 

December 18, 1995

26 1995

Bureau of Land Management
125 S. 600 East
Price, Utah 84501

RE: Helper Federal D-1
Sec. 26-13S-10E
Carbon Co., Utah

Gentlemen:

Please find enclosed the revised plats for the Helper Federal D-1. At the request of the Price Area BLM office, the location has been moved. It is our understanding that these plat revisions are all that will be required to process the APD.

If you have questions, or require further information, please contact P. A. (Trish) Hambright at (405) 475-7026.

Very truly yours,

ANADARKO PETROLEUM CORPORATION



D. R. Winchester
Sr. Staff Drilling Engineer

DRW:pah
attachment

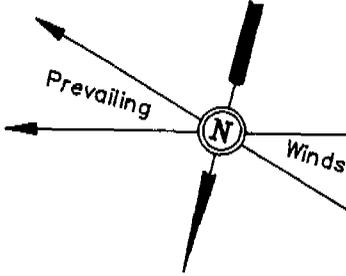
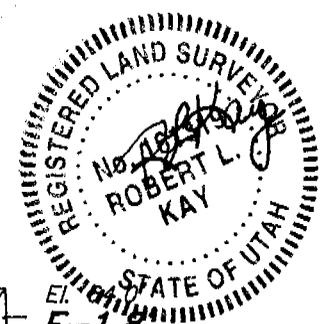
cc: State of Utah
Department of Natural Resources
Division of Oil & Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

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

ANADARKO PETROLEUM CORP. 26 1995

LOCATION LAYOUT FOR

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
1413' FNL 1567' FEL



SCALE: 1" = 50'
DATE: 12-4-95
Drawn By: C.B.T.

Approx. Tree Line

Approx. Toe of Fill Slope

Sta. 3+40

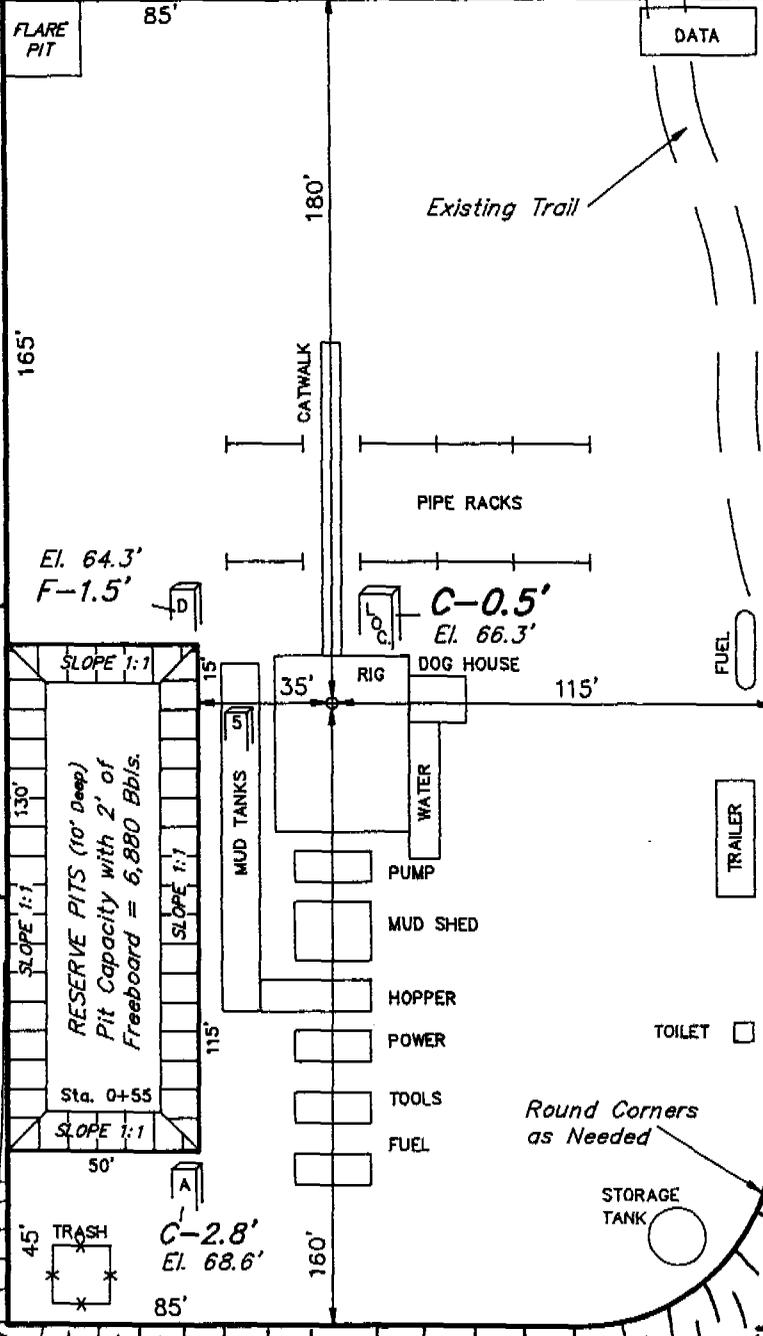
Approx. Top of Cut Slope

El. 63.0'
C-7.2'
(btm. pit)

El. 56.3'
F-9.5'

El. 58.4'
F-7.4' Topsoil Stockpile

El. 61.8'
F-1.8'



Sta. 1+60

El. 71.2'
C-5.4'

Sta. 0+00

El. 67.5'
C-11.7'
(btm. pit)

El. 69.3'
C-3.5'

C-2.8'
El. 68.6'

C-5.7'
El. 71.5'

NOTE:
Do Not Disturb Trees

10' WIDE DIKE
Reserve Pit Backfill & Spoils Stockpile

RESERVE PITS (10' deep)
Pit Capacity with 2' of Freeboard = 6,880 Bbls.

Round Corners as Needed

ELEV. UNGRADED GROUND AT LOC. STAKE = **6366.3'**
ELEV. GRADED GROUND AT LOC. STAKE = **6365.8'**

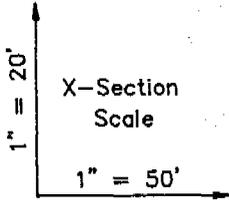
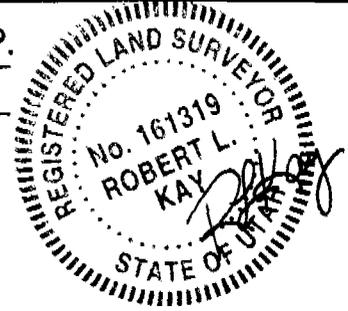
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

ANADARKO PETROLEUM CORP.

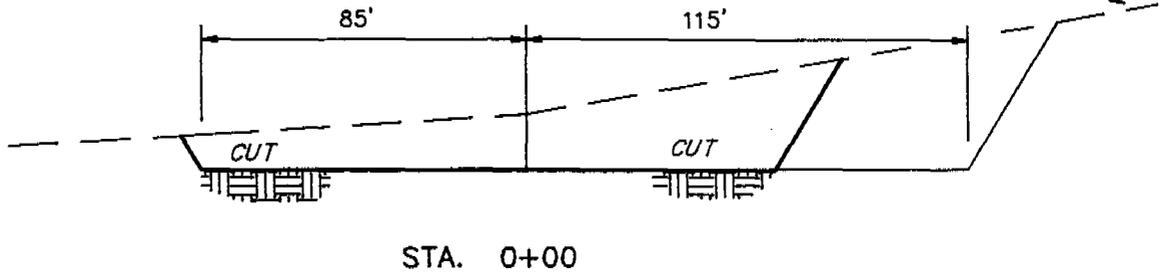
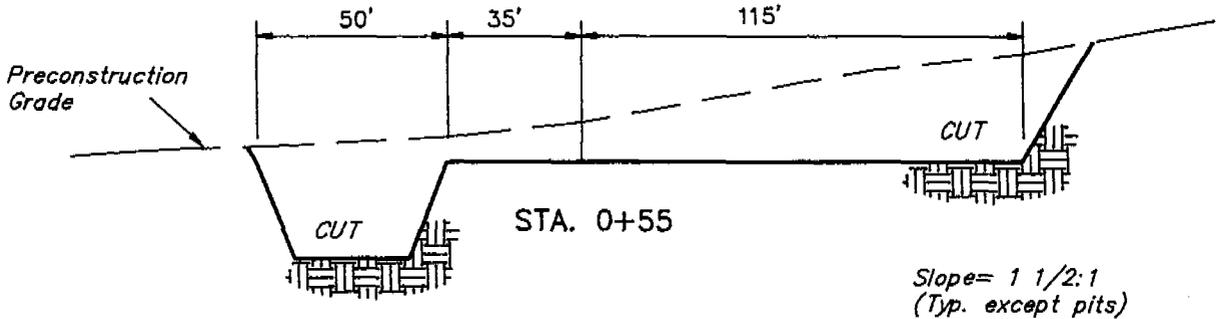
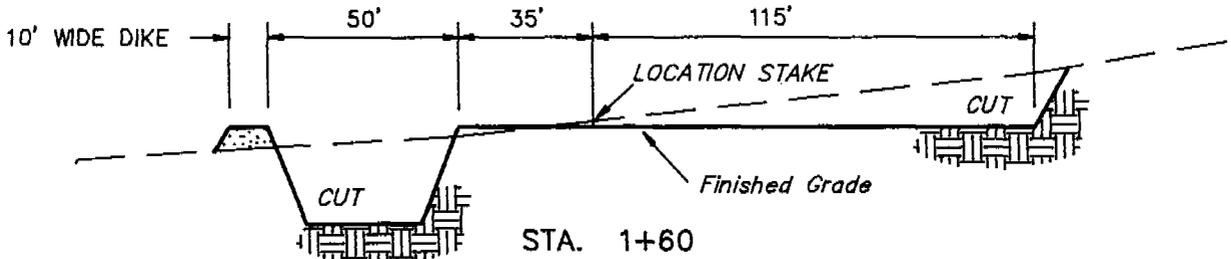
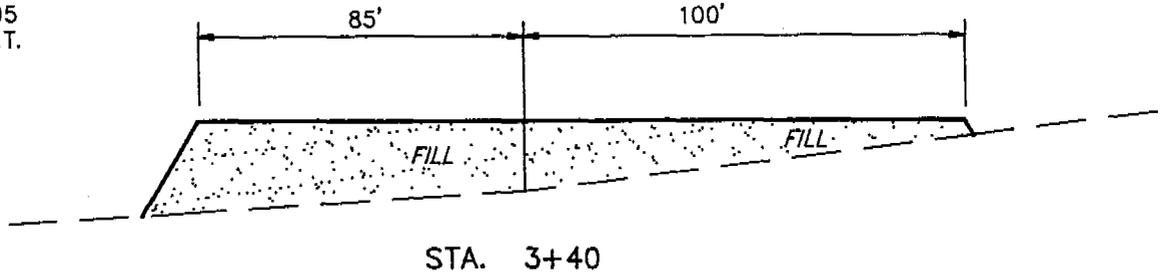
26 1995

TYPICAL CROSS SECTIONS FOR

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
1413' FNL 1567' FEL



DATE: 12-4-95
Drawn By: C.B.T.



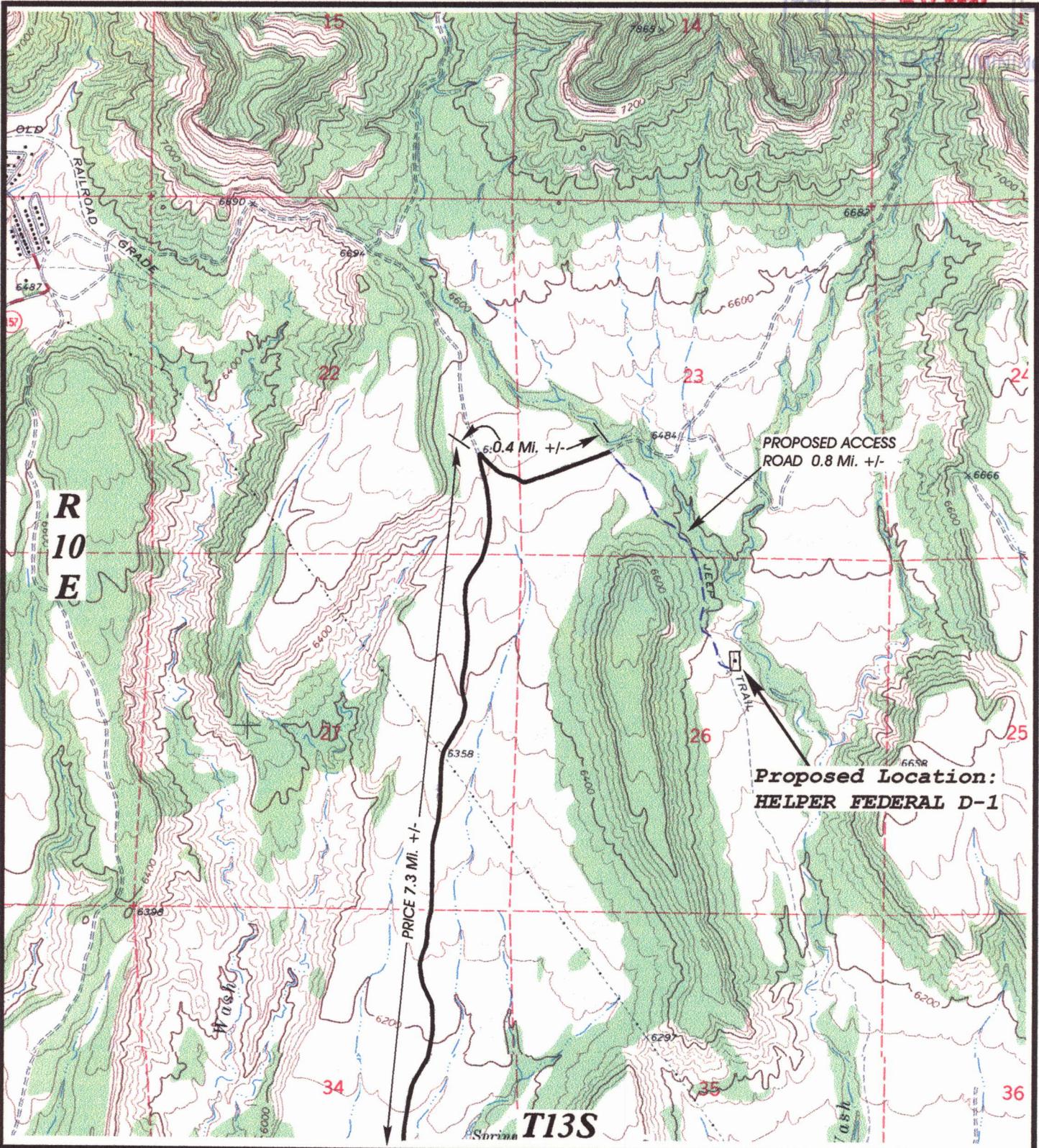
APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,300 Cu. Yds.
Remaining Location	= 7,630 Cu. Yds.
TOTAL CUT	= 8,930 CU.YDS.
FILL	= 4,850 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 3,820 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,190 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,630 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

DEC 26 1995



UELS

**TOPOGRAPHIC
MAP "B"**

**DATE: 12-4-95
Drawn by: C.B.T.**

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

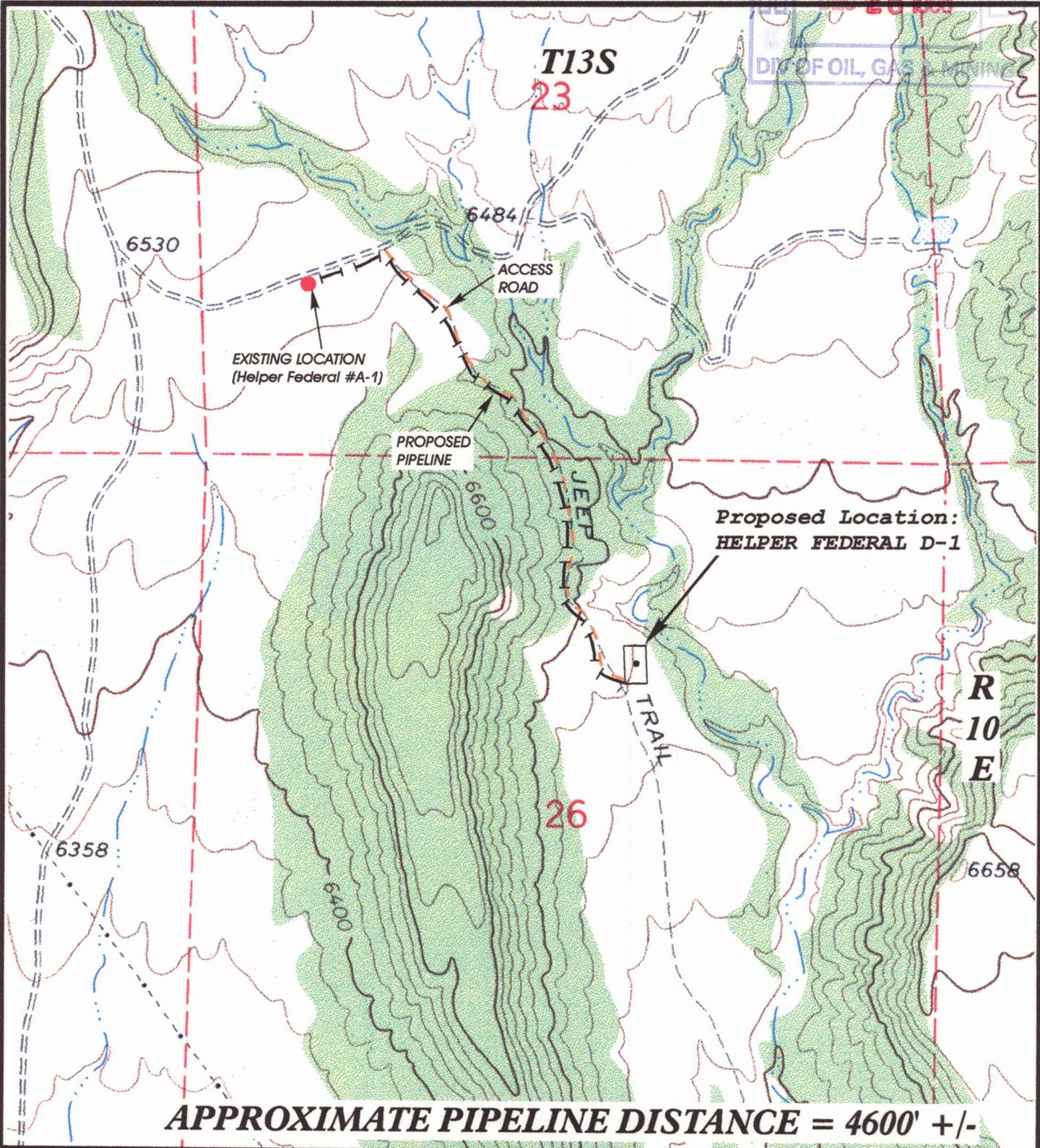


ANADARKO PETROLEUM CORP.

**HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.
1413' FNL 1567' FEL**

SCALE: 1" = 2000'

RECEIVED
DEC 26 1995
DIV OF OIL, GAS & MINING



APPROXIMATE PIPELINE DISTANCE = 4600' +/-

TOPOGRAPHIC
MAP "C"



----- Existing Pipeline
HHHHHHHH Proposed Pipeline



ANADARKO PETROLEUM CORP.

HELPER FEDERAL D-1
SECTION 26, T13S, R10E, S.L.B.&M.

DATE: 12-4-95
Drawn by: C.B.T.

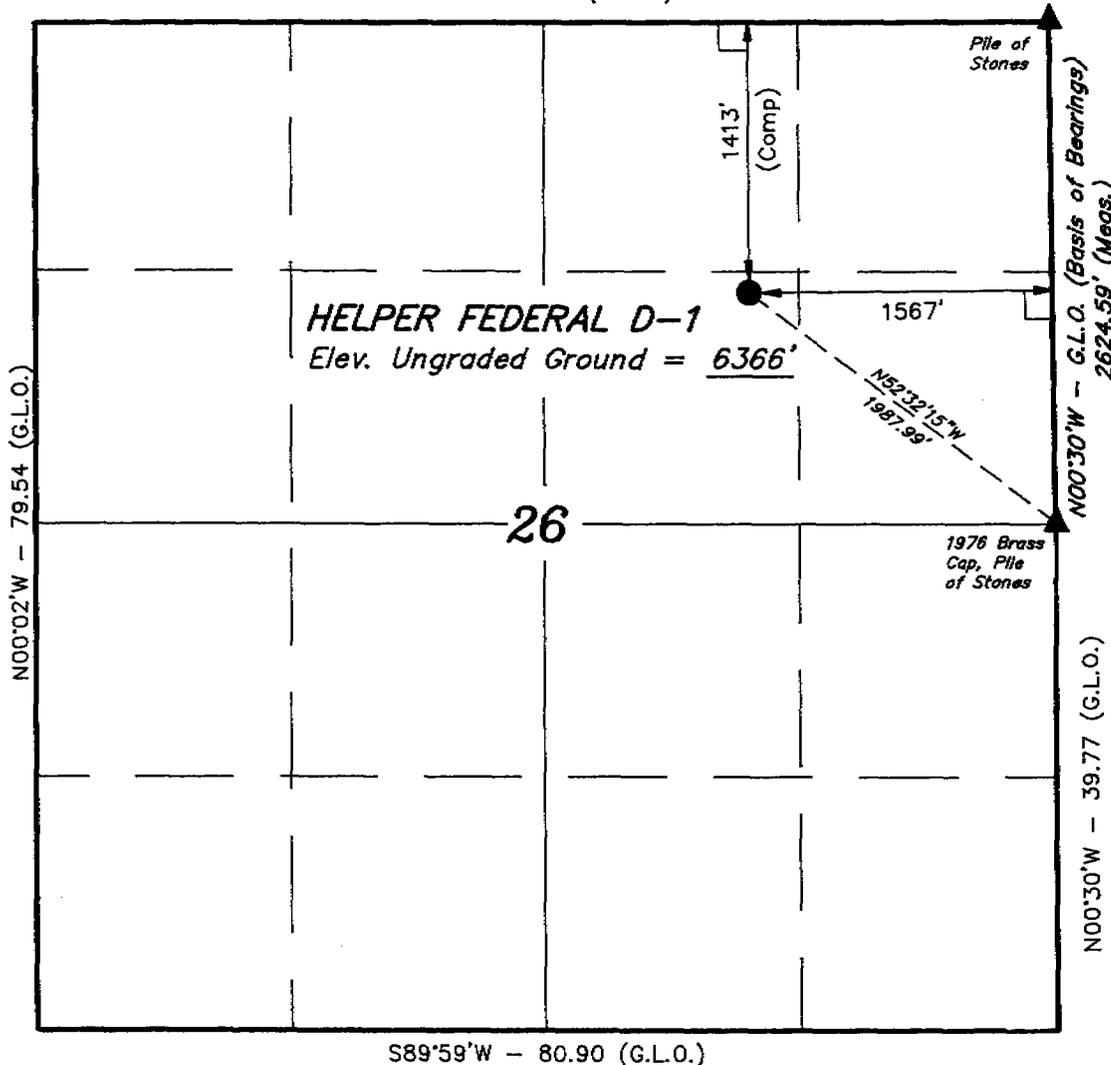
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

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

ANADARKO PETROLEUM CORP.

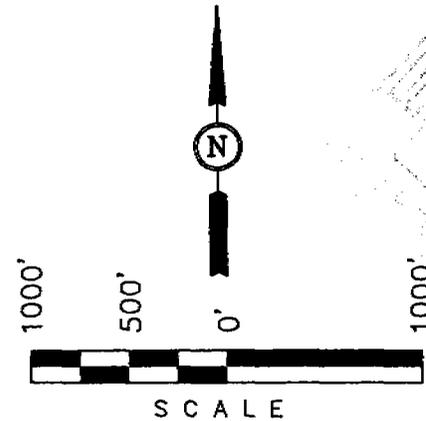
Well location, HELPER FEDERAL D-1, located as shown in the SW 1/4 NE 1/4 of Section 26, T13S, R10E, S.L.B.&M. Carbon County, Utah

S89°54'W - 80.26 (G.L.O.)



BASIS OF ELEVATION

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



CERTIFICATE

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

RE: No. 161319
ROBERT L. Gray
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 16131
 STATE OF UTAH

REVISED: 12-4-95 C.B.T.

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: 6-2-95	DATE DRAWN: 6-5-95
PARTY G.S. D.G. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ANADARKO PETROLEUM CORP.	

DRILLING PLAN
TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL

Company: Anadarko Petroleum Corporation

Well: Helper Federal D-1

Location: SE/NE Sec. 26-13S-10E

Lease No: UTU-68315(Federal)

2213' FNL & 1016' FEL, Sec. 26

Carbon County, Utah

Surface Elevation: 6326'

A. Estimated Tops of Important Geologic Markers:

<u>GEOLOGIC MARKER</u>	<u>DEPTH</u>
Pediment Gravels	Surface
Mancos-Bluegate Shale	300'
Ferron Coal	3200'
Ferron Sandstone	3400'
Tununk	4000'

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 3400'-4000'.

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 casinghead. The annular will be tested to 50% of its working pressure. Operational checks will be made daily or on trips. A BOP schematic is shown on attached Exhibit "A".

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

doghouse on the rig floor and one set will be remote on the drilling pad.

D. Casing Program

- Surface Casing - 8-5/8" casing will be set at approximately 300'.
- Production Casing - 5-1/2" casing will be set at approximately 4000' 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 (3400'-4000') may be performed, depending upon shows and hole conditions.
- b. DST's may be run depending upon shows.
- c. The following logging program is planned:
 1. DIL-ML-SP-GR-CAL over prospective intervals.
 2. SDL-CNL-GR-CAL over prospective intervals.
 3. CNL-CAL-GR TD to Surface (300'-4000' Est.).
- d. A mud logging unit with chromatograph will be used from approximately 3000' 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 will be flared during testing.

G. Abnormal Conditions and Potential Hazards:

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

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

Anadarko Petroleum Corporation
Helper Federal D-1
2213' FNL & 1016' FEL of Section 26-13S-10E
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 8.6 miles N/E 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 up to the location. 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)

The following producing wells are located within a two mile radius: Helper Federal A-1 (Sec. 23-13S-10E), Helper Federal A-2 (Sec. 22-13S-10E), Helper Federal A-3 (Sec. 22-13S-10E), Helper Federal B-5 (Sec. 27-13S-10E), Helper Federal C-1 (Sec. 22-13S-10E).

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. 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 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 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 to 8 inches and stockpiled by wind-row on the northeast edge of the location. No topsoil stripping will be allowed when soils are moisture saturated to a depth of 3 inches, or frozen below the stripping depth.

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

10. Plans for Restoration of Surface:

The Price 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/dry hole:

Restore the access road and location to blend with the natural topography. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location and seed according to the above seed mixture. 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

Phone: (405)475-7000

Address: Anadarko Petroleum Corporation

9400 N. Broadway, Suite 700

Oklahoma City, Oklahoma 73114

CERTIFICATION

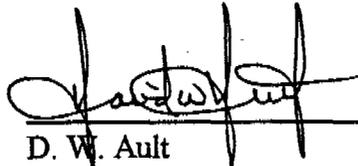
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated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

8-11-95

Date



D. W. Ault

Division Drilling Engineer

Be advised that Anadarko Petroleum Corporation is considered to be the Operator of the Helper Federal D-1, (SE/NE) Sec. 26-13S-10E, Lease No. UTU-68315, 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"/>			5. LEASE DESIGNATION AND SERIAL NO. UTU-68315	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <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. 9400 N. Broadway, Suite 700, OKC, OK 73114 405/475-7000			8. FARM OR LEASE NAME WELL NO. Helper Federal D-1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1413' 1S67' SW 2213' FNL & 1016' FEL (SE/NE), Sec. 26-13S-10E At proposed prod. zone 1413' 1S67' SW 1413' 2213' FNL & 1016' FEL (SE/NE), Sec. 26-13S-10E			9. AN WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8.6 miles NE of Price, Utah			10. FIELD AND POOL, OR WILDCAT Wildcat	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE FT (Also to nearest drilg. unit line, if any) 1800' FNL 1200' FEL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 26-13S-10E	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A			12. COUNTY OR PARISH Carbon	
16. NO. OF ACRES IN LEASE 2057.55			13. STATE Utah	
17. NO. OF ACRES ASSIGNED TO THIS WELL Anticipate 160 acres			20. ROTARY OR CABLE TOOLS Rotary	

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A Dated 1/1/80

CONDITIONS OF APPROVAL ATTACHED

SIGNED D.R. Winchester TITLE D.R. Winchester Sr. Staff Drilling Eng. DATE 8-11-95

(This space for Federal or State office use)

PERMIT NO. 43-007-30286 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 Brad D. Palmer TITLE Assistant District Manager Resource Management DATE MAY 11 1996

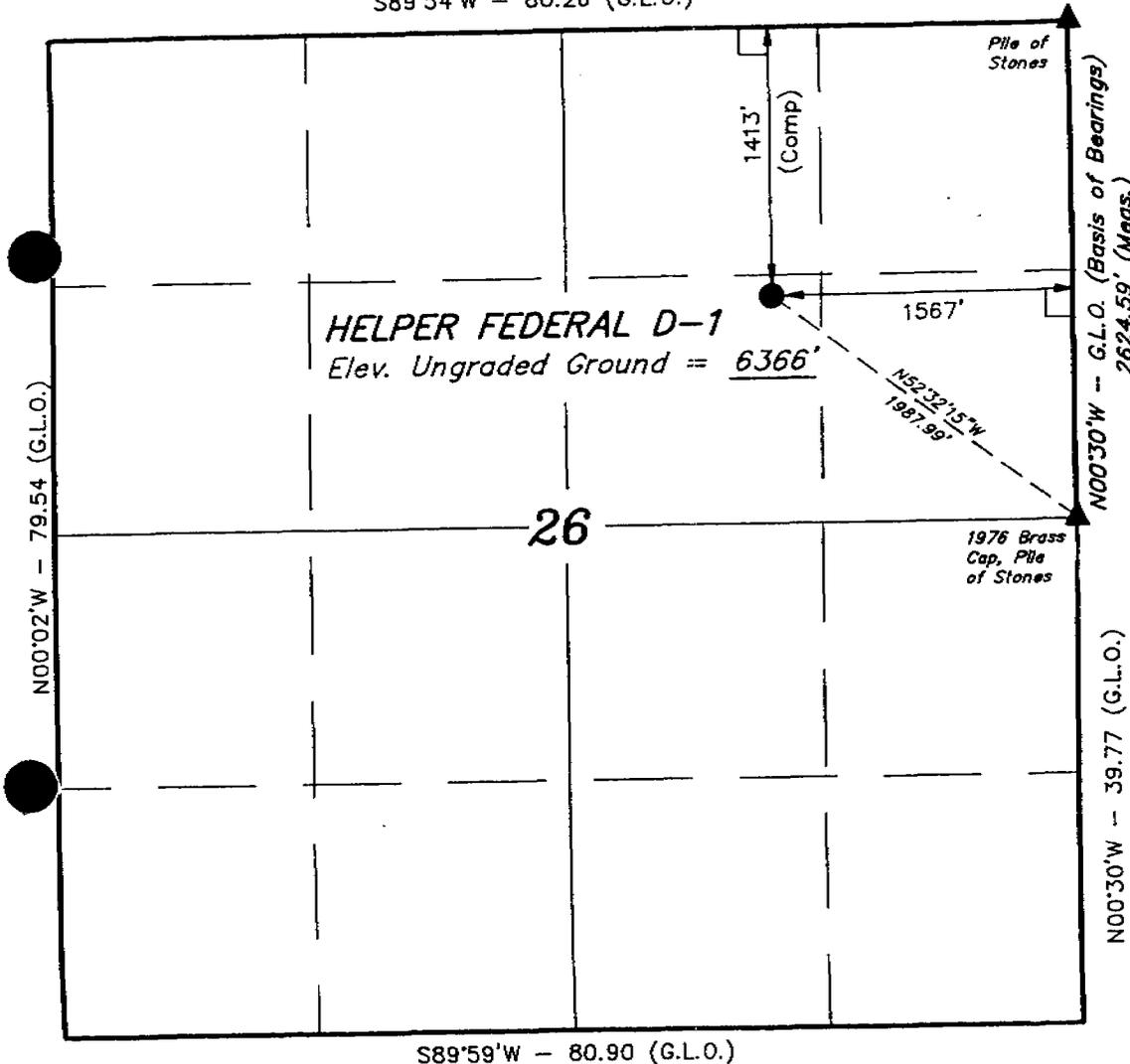
*See Instructions On Reverse Side

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

ANADARKO PETROLEUM CORP.

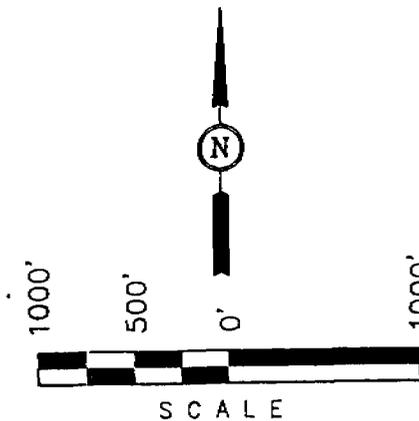
Well location, HELPER FEDERAL D-1, located as shown in the SW 1/4 NE 1/4 of Section 26, T13S, R10E, S.L.B.&M. Carbon County, Utah

S89°54'W - 80.26 (G.L.O.)



BASIS OF ELEVATION

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



CERTIFICATE

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

Robert L. Gray

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 12-4-95 C.B.T.

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

LEGEND:

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

388 / PROPOSED JAN 9 1996

SCALE 1" = 1000'	DATE SURVEYED: 6-2-95	DATE DRAWN: 6-5-95
PARTY G.S. D.G. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ANADARKO PETROLEUM CORP.	

Anadarko Petroleum Corporation
Helper Federal D-1
Lease U-68315
SE/NE Section 26, T13S, R10E
Carbon County, Utah

CONDITIONS OF APPROVAL

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

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

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

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

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

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

A. DRILLING PROGRAM

1. The proposed 3M BOP system is adequate for this location and depth. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.

2. In the application it is estimated that pediment surface gravels extend down to 300 feet. The proposal also calls for only 300 feet of surface casing. The surface casing must extend at least 50 feet below the gravel, into the Bluegate shale.

3. As with the other wells in this field, the operator shall attempt to circulate the cement behind the production casing to surface.

4. This well is not located in a "spacing window" as described by the State of Utah, Board of Oil, Gas and Mining. Concurrent approval from the Division of Oil, Gas and Mining is required.

5. 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

A. Site Preparation

1. The entire roadbed and drill site shall be obliterated and brought back to the approximate original contour. Drainage control shall be reestablished as necessary.
2. All areas impacted by road construction shall be recontoured to blend in with the existing topography. All berms shall be removed. In recontouring the disturbed areas, care shall be taken to not disturb additional vegetation.
3. Erosion-control structures such as water bars, diversion channels, and terraces shall be constructed to divert water and reduce soil erosion of the disturbed area. Water bars shall be spaced on road grades greater than 4 percent (i.e., 4 to 8 percent grade on 200-foot intervals and greater than 8 percent on 100-foot intervals). In addition, water bars shall be installed at all alignment changes (curves), significant grade changes, as determined by a qualified engineer. Water bars shall be sloped with the grade and cut to a minimum 12-inch depth below the surface. The grade of the water bar shall be 2 percent greater than the grade of the road.

B. Seedbed Preparation

1. An adequate seedbed shall be prepared for all sites to be seeded. Areas to be revegetated shall be chiselled or disked to a depth of at least 12 inches.
2. Ripping of fill materials shall be completed by a bulldozer equipped with single or a twin set of ripper shanks. Ripping shall be done on 4-foot centers to a depth of 12 inches and shall follow final grading and precede seedbed material application. Ripping shall be completed at a speed which maximizes ripper shank action and promotes soil material disruption to the specified depth. Ripping shall be repeated until the compacted area is loose and friable.
3. Seedbed preparation shall be considered to be complete when the soil surface is completely roughened and the number of rocks on the site is sufficient to cause the site to match the surrounding terrain.

C. Fertilization

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

D. Mulching

1. Mulching shall be conducted as directed by the authorized officer.
2. The type of mulch shall meet the following requirements:

Wood cellulose fiber shall be natural or cooked, shall disperse readily in water, and shall be nontoxic. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A colored dye that is noninjurious to plant growth may be used when specified. Wood cellulose fiber shall be packaged in new, labeled containers. A minimum application of 1500 pounds per acre shall be applied. A suitable tackifier shall be applied with the mulch at a rate of 60 to 80 pounds per acre.

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

E. Reseeding

All disturbed areas shall be seeded with the seed mixture required by the Authorized Officer. The seed mixture(s) shall be planted in the amounts specified in pound of pure live seed (PLS)/acre. There shall be no primary or secondary noxious weed seed in the seed mixture. Seed shall be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to purchase. Commercial seed shall be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds have a tendency to drip to the bottom of the drill and are planted first. The holder shall take appropriate measures to ensure this does not occur.) Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. Woody species with seeds that are too large for the drill shall be broadcast. When broadcasting the seed, the pounds per acre noted below are to be increased by 50 percent. The seeding will be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of the second growing season after seeding. The Authorized Officer is to be notified a minimum of seven (7) days prior to seeding of the project.

SEED MIXTURE ON NEXT PAGE

The disturbed areas for the drill site and road must be seeded with the following seed mix immediately after the topsoil is replaced:

SEED MIXTURE

<u>Common Name</u>	<u>Scientific Name</u>	Pounds per acre / PLS*
Shrubs		
Rubber rabbitbrush	<u>Chrysothamnus nauseosus</u>	1.0
Big Wyoming Sagebrush	<u>Artemesia tridentata wyomingensis</u>	1.0
True Mountain Mahogany	<u>Cerrcocarpus montanus</u>	1.0
Forbes		
Yellow sweetclover	<u>Melilotus offiginalis</u>	1.0
Lewis Flax	<u>Linum perenne lewisii</u>	1.0
Ladac alfalfa	<u>Medicago sativa "iadic"</u>	1.0
Grasses		
Indian ricegrass	<u>Oryzopsis hymenoides</u>	1.5
Bluebunch Wheatgrass	<u>Agropyron spicatum</u>	1.5
Salina wildrye	<u>Elymus salinas</u>	1.5
Needle & Thread	<u>Stipe comata</u>	1.5
Intermediate wheatgrass	<u>Agropyron intermedium</u>	1.5
Pounds	TOTAL	13.5

*Rate is pounds per acre pure live seed drilled. Rate is increased by 50 percent if seed is broadcast. Pure Live Seed (PLS) formula: % of purity of seed mixture times % germination of seed mixture = portion of seed mixture that is PLS.

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 BLM, Price Area Office in Price, Utah, at (801) 636-3600 for the following:

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

1 day prior to spudding;

50 feet prior to reaching each casing setting 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 one of the people 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) 259-2117
	Home: (801) 259-2214

Gary Torres, Petroleum Engineer	Office: (801) 587-2141
	Home: (801) 587-2705

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: ANADARKO PETROLEUM COR	Well Name: HELPER FED D-1
Project ID: 43-007-30286	Location: SEC. 26 - T13S- R10E

Design Parameters:

Mud weight (9.20 ppg) : 0.478 psi/ft
 Shut in surface pressure : 1732 psi
 Internal gradient (burst) : 0.045 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	4,000	5.500	14.00	K-55	ST&C	4,000	4.887		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	1912	3120	1.632	1912	4270	2.23	56.00	189	3.38 J

Prepared by : MATTHEWS, Salt Lake City, Utah
 Date : 05-15-1996
 Remarks :

Minimum segment length for the 4,000 foot well is 1,500 feet.
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 102°F (Surface 74°F , BHT 130°F & temp. gradient 1.400°/100 ft.)
 String type: Production
 The mud gradient and bottom hole pressures (for burst) are 0.478 psi/ft and 1,912 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
 Costs for this design are based on a 1987 pricing model. (Version 1.07)



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)

May 15, 1996

Anadarko Petroleum Corporation
9400 North Broadway, Suite 700
Oklahoma City, Oklahoma 73114-7403

Re: Helper Federal D-1 Well, 1413' ENL, 1567' FEL, SE^N NE,
Sec. 26, T. 13 S., R. 10 E., Carbon County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30286.

Sincerely,

R. J. Firth
Associate Director

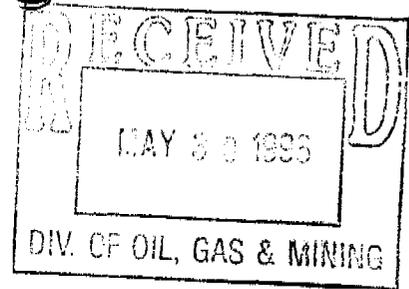
lwp
Enclosures
cc: Carbon County Assessor
Bureau of Land Management, Moab District Office
WAPD

Operator: Anadarko Petroleum Corporation
Well Name & Number: Helper Federal D-1
API Number: 43-007-30286
Lease: UTU-68315
Location: SE NE Sec. 26 T. 13 S. R. 10 E.

Conditions of Approval

1. General
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.
2. Notification Requirements
Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.
3. Reporting Requirements
All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.



Moab District
82 East Dogwood
Moab, Utah 84532

3162
U-68315
(UT-065)

Anadarko Petroleum Corporation
9400 North Broadway, Suite 700
Oklahoma City, Oklahoma 73114

MAY 28 1996

Re: Application for Permit to Drill
Well No. Helper Federal D-1
SWNE Sec. 26, T. 13 S., R. 10 E.
Lease U-68315
Carbon County, Utah

Gentlemen:

The above referenced Application for Permit to Drill (APD) was approved May 10, 1996. Stipulations contained in the Environmental Assessment for this well were inadvertently omitted from the Surface Stipulation portion of the APD package.

Enclosed please find a complete list of conditions of approval for this APD. Please discard the conditions of approval received in the approved APD package and replace them with the corrected list.

If you have any questions, please contact Marie Ramstetter at (801) 259-2135. Thank you for your cooperation.

Sincerely,

/s/ BRAD D. PALMER

Assistant District Manager
Resource Management

Enclosure
Conditions of Approval (8pp)

cc: UT-066, Price River Resource Area (w/Enclosure)
✓ State of Utah (w/Enclosure)
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

MRamstetter:mr:5/20/96

Anadarko Petroleum Corporation
Helper Federal D-1
Lease U-68315
SE/NE Section 26, T13S, R10E
Carbon County, Utah

CONDITIONS OF APPROVAL

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

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

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

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

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

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

A. DRILLING PROGRAM

1. The proposed 3M BOP system is adequate for this location and depth. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. In the application it is estimated that pediment surface gravels extend down to 300 feet. The proposal also calls for only 300 feet of surface casing. The surface casing must extend at least 50 feet below the gravel, into the Bluegate shale.
3. As with the other wells in this field, the operator shall attempt to circulate the cement behind the production casing to surface.
4. This well is not located in a "spacing window" as described by the State of Utah, Board of Oil, Gas and Mining. Concurrent approval from the Division of Oil, Gas and Mining is required.
5. 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 holder shall install engineered low-water crossings on two locations, specified by the BLM, within one year of the completion of drilling operations.
2. Anadarko shall line the mud pit to prevent the leaching of water into Cardinal Wash.
3. Anadarko shall gate the access road to restrict unauthorized vehicular access between December 1 and April 15.
4. Anadarko shall, to the extent practical, schedule all routine maintenance work requiring heavy equipment operation (such as road maintenance, workover operations etc.) to be completed outside the period of November 1 to May 15.
5. Anadarko shall mitigate unavoidable wildlife displacement impacts resulting from maintenance and operation of existing wells and facilities. Anadarko shall enter into a Cooperative Agreement with the BLM and Utah Division of Wildlife Resources to participate in a fish and wildlife habitat enhancement program.
6. 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 BLM. Cumulative surface disturbance shall include impacts 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 shall be developed by the Authorized Officer in coordination with the operator.
7. Anadarko shall inform employees and contract personnel as to the large number of recreational users on and along travel routes and advise them to reduce speed to 20 miles per hour in the presence of recreation users.
8. Anadarko shall muffle pump jack and compressor engines in order to achieve a noise emission of 65 decibels (dBA) or less at a distance of 100 feet.
9. Anadarko shall water and compact access roads to reduce fugitive dust and eliminate the soft powder sections, other dust suppressants shall be used if deemed necessary by the Authorized Officer.
10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the company, or any person working on the company's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The company shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values.
11. A. Site Preparation
 1. The entire roadbed and drill site shall be obliterated and brought back to the approximate original contour. Drainage control shall be reestablished as necessary.

2. All areas impacted by road construction shall be recontoured to blend in with the existing topography. All berms shall be removed. In recontouring the disturbed areas, care shall be taken to not disturb additional vegetation.

3. Erosion-control structures such as water bars, diversion channels, and terraces shall be constructed to divert water and reduce soil erosion on the disturbed area. Water bars shall be spaced on road grades greater than 4 percent (i.e., 4 to 8 percent grade on 200-foot intervals and greater than 8 percent on 100-foot intervals). In addition, water bars shall be installed at all alignment changes (curves), significant grade changes, and as determined by a qualified engineer. Water bars shall be sloped with the grade and cut to a minimum 12-inch depth below the surface. The grade of the water bar shall be 2 percent greater than the grade of the road.

B. Seedbed Preparation

1. An adequate seedbed shall be prepared for all sites to be seeded. Areas to be revegetated shall be chiselled or disked to a depth of at least 12 inches.

2. Ripping of fill materials shall be completed by a bulldozer equipped with single or a twin set of ripper shanks. Ripping shall be done on 4-foot centers to a depth of 12 inches and shall follow final grading and precede seedbed material application. Ripping shall be completed at a speed which maximizes ripper shank action and promotes soil material disruption to the specified depth. Ripping shall be repeated until the compacted area is loose and friable.

3. Seedbed preparation shall be considered to be complete when the soil surface is completely roughened and the number of rocks on the site is sufficient to cause the site to match the surrounding terrain.

C. Fertilization

1. Commercial fertilizer with a formula of 16-16-8 shall be applied at a rate of 200 pounds per acre to the site.

2. Fertilizer shall be applied not more than 48 hours prior to seeding and cultivating into the upper 3 inches of soil.

3. Fertilizer shall be broadcast over the soil using hand-operated "cyclone-type" seeders or rotary broadcast equipment attached to construction or revegetation machinery as appropriate to slope. All equipment shall be equipped with a metering device. Fertilizer application shall take place prior to the final seedbed preparation treatment. Fertilizer broadcasting operations shall not be conducted when wind velocities would interfere with even distribution of the material.

D. Mulching

1. Mulching shall be conducted as directed by the Authorized Officer.

2. The type of mulch shall meet the following requirements:

Wood cellulose fiber shall be natural or cooked, shall disperse readily in water, and shall be nontoxic. The homogenous slurry or mixture shall be capable of application with power spray equipment. A colored dye that is noninjurious to plant growth may be used when specified. Wood cellulose fiber shall be packaged in new, labeled containers. A minimum application of 1500 pounds per acre shall be applied. A suitable tackifier shall be applied with the mulch at a rate of 60 to 80 pounds per acre.

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

E. Reseeding

All disturbed areas shall be seeded with the seed mixture required by the Authorized Officer. The seed mixture(s) shall be planted in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no primary or secondary noxious weed seed in the seed mixture. Seed shall be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to purchase. Commercial seed shall be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds have a tendency to drop to the bottom of the drill and are planted first. The holder shall take appropriate measures to ensure this does not occur.) Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. Woody species with seeds that are too large for the drill shall be broadcast. When broadcasting the seed, the pounds per acre noted below are to be increased by 50 percent. The seeding will be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of the second growing season after seeding. The Authorized Officer is to be notified a minimum of seven (7) days prior to seeding of the project.

The disturbed areas for the drill site and road must be seeded with the following seed mix immediately after the topsoil is replaced:

SEED MIXTURE ON NEXT PAGE

SEED MIXTURE

<u>Common Name</u>	<u>Scientific Name</u>	<u>Pounds per acre / PLS*</u>
Shrubs		
Rubber rabbitbrush	<u>Chrysothamnus nauseosus</u>	1.0
Big Wyoming Sagebrush	<u>Artemesia tridentata wyomingensis</u>	1.0
True Mountain Mahogany	<u>Cercocarpus montanus</u>	1.0
Forbs		
Yellow sweetclover	<u>Melilotus officinalis</u>	1.0
Lewis Flax	<u>Linum perenne lewisii</u>	1.0
Ladac alfalfa	<u>Medicago sativa "ladac"</u>	1.0
Grasses		
Indian ricegrass	<u>Oryzopsis hymenoides</u>	1.5
Bluebunch Wheatgrass	<u>Agropyron spicatum</u>	1.5
Salina wildrye	<u>Elymus salinas</u>	1.5
Needle & Thread	<u>Stipa comata</u>	1.5
Intermediate wheatgrass	<u>Agropyron intermedium</u>	<u>1.5</u>
Pounds	TOTAL	13.5

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 BLM, Price Area Office in Price, Utah, at (801) 636-3600 for the following:

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

1 day prior to spudding;

50 feet prior to reaching each casing setting 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 one of the people 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) 259-2117
	Home: (801) 259-2214
Gary Torres, Petroleum Engineer	Office: (801) 587-2141
	Home: (801) 587-2705



August 29, 1996

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

Attention: Mike Hebertson

RE: Location Exception Request
Helper Federal D-1
Sec. 26 - 13S - 10E
Carbon County, Utah

Dear Mr. Hebertson:

Pursuant to our earlier conversation, please be informed that the surface location of the subject well was moved out of the "spacing window" at the request of the BLM wildlife group due to terrain and wildlife considerations. We complied with their request since subsurface geology was not adversely effected.

Please grant the requested location exception for the above reason. We plan to spud the well on or about September 4, 1996.

Should there be any complications, or if you need any additional information, please contact me at (713)873-1280. Your assistance is greatly appreciated.

Very truly yours,

ANADARKO PETROLEUM CORPORATION

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

David R. Winchester
Division Drilling Engineer



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

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

January 6, 1997

Mr. David Winchester
Anadarko Petroleum Corporation
9400 North Broadway, Suite 700
Oklahoma City, Oklahoma 73114-7403

Re: Required Reporting for New Well - Helper Federal D-1 Well, 1413' FNL, 1567' FEL, SWNE, Sec. 26, T. 13 S., R. 10 E., Carbon County, Utah; API No. 43-007-30286

Dear Mr. Winchester:

It has come to our attention through a telephone conversation on December 17, 1997, between Mr. Frank Matthews of our office, and Mr. Steve Ruhl of Anadarko, that the subject well has been completed. As of this time, no reports have been submitted to this office since the Application for Permit to Drill. The Conditions of Approval sent to you with our APD approval state:

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

The Conditions also require that the Division be notified within 24 hours following spudding the well or commencing drilling operations, and that the Division be notified prior to commencing operations to plug and abandon the well.

In light of the fact that the well has been drilled and the required reports have not been sent to the Division, we request that Anadarko submit the following reports immediately:

Entity Action Form
Spud Notice (sundry)
Drilling Summary
Report of Water Encountered During Drilling
Well Completion Report
Current Well Status (sundry)

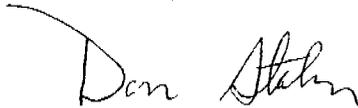
Page 2
Mr. David Winchester
Reporting - Helper Federal D-1
January 6, 1996

If the well is currently producing or has produced, you are also required to submit

Monthly Oil and Gas Production Report (Form 10)
Monthly Oil and Gas Disposition Report (Form 11)

If you have questions regarding this matter, please feel free to contact Mr. Frank Matthews (801-538-5334), or me (801-538-5275). Your cooperation in this matter will be appreciated.

Sincerely,

A handwritten signature in black ink that reads "Don Staley". The signature is written in a cursive style with a large, sweeping initial "D".

Don Staley
Administrative Manager
Oil and Gas

cc: R.J. Firth
F.R. Matthews
Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
UTU 68315

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:

1. Type of Well: OIL GAS OTHER: Coalbed Methane

8. Well Name and Number:
Helper Federal D-1

2. Name of Operator:
Anadarko Petroleum Corporation

9. API Well Number:
43-007-30286

3. Address and Telephone Number:
17001 Northchase Dr. Houston, TX 77060 (281) 875-1101

10. Field and Pool, or Wildcat:
Wildcat

4. Location of Well
Footages: 1413' FNL & 1567' FEL (SW NE)
QQ, Sec., T., R., M.: SW NE Sec. 26-13S-10E

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 _____
- 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 First Sales
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

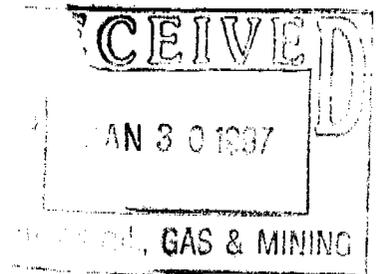
Date of work completion _____

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.)

First Sales 11/15/96 to Questar



13. Name & Signature: Craig R. Walters Title: Production Engineer Date: 1/24/97

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

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. RENVR. Other _____

2. NAME OF OPERATOR
Anadarko Petroleum Corporation

3. ADDRESS OF OPERATOR
17001 Northchase Drive, Houston, TX 77060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1413' FNL & 1567' FEL (SWNE) Sec. 26-13S-10E
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. 43-007-30286 DATE ISSUED 5/15/96

5. LEASE DESIGNATION AND SERIAL NO.
UTU-68315

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Helper Federal

9. WELL NO.
D-1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 26-13S-10E

12. COUNTY OR PARISH
Carbon

13. STATE
UT

15. DATE SPUDDED 9/4/96 18. DATE T.D. REACHED 9/14/96 17. DATE COMPL. (Ready to prod.) 11/9/96 19. ELEVATIONS (OF, RKB, RT, OR, ETC.)* 6326' GR 19. ELEV. CASINGHEAD 6378' KB

20. TOTAL DEPTH, MD & TVD 3926' 21. PLUG, BACK T.D., MD & TVD 3770' 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS 0 - 3926 CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Ferron Coals 3390-3518' (MD & TVD)

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
SDL/DSNL/DIL MUD LOG 2-3-97

27. WAS WELL CORED
Yes

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	325'	12 1/4"	230 sx Perm Plus	None
5 1/2"	15.5	3848'	7 7/8"	200 SX 50/50 POZ & 330 SX HLC	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	3379'	N/A

31. PERFORATION RECORD (Interval, size and number)
3390-96', 3410-20', 3452-58', 3500-18'
2 SPF w/ 0.6" EHD

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3390-3458'	Frac w/ 49000 Gal XL Gel & 100600# SD
3500-3518'	Frac w/ 47000 gal XL Gel & 102000# SD

33. PRODUCTION

DATE FIRST PRODUCTION 11/9/96 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/24/96	24			0	69	138	—

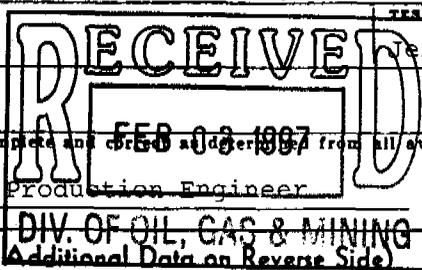
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
N/A	70		0	69	138	—

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

35. LIST OF ATTACHMENTS _____

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

SIGNED Craig R. Walters TITLE Production Engineer DATE 1/17/97



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

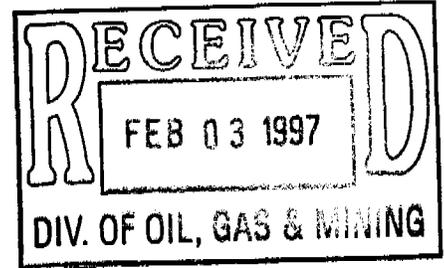
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Core #1	3323	3348	SH	Bluegate SH	1360'	1360'
2	3348	3379	SH/SLTST	Ferron SS	3370'	3370'
3	3379	3386	SS/SLTST	Ferron Coal	3388'	3388'
4	3386	3409	SS/SH/COAL	Tununk SH	3580'	3580'
5	3409	3426	SS/COAL/SLTST/SH			
6	3426	3443	SS/COAL/SLTST/SH			
7	3443	3471	SS			
8	3471	3491	SS			
9	3491	3504	COAL/SLTST/SH			
10	3504	3526	SS/COAL/SLTST/SH			
11	3526	3553	SS/SH			
Bluegate SH	1360'	3370'				
Ferron SS	3370'	3388'				
Ferron Coal	3388'	3580'				
Tununk SH	3580'					



January 24, 1997



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

RE: Helper Federal D-1
Sec. 26-13S-10E
Carbon County, UT

Gentlemen:

Please find enclosed, in triplicate, the Well Completion Report (Form 3160-4) for the referenced well. Also enclosed are copies of the mud log, core log, open hole logs, and a chronological drilling report from date of spud through final report.

Please hold the open hole logs confidential for a two year period. Should you require any additional information, please contact the undersigned at (281)873-1256.

Very truly yours,

ANADARKO PETROLUEM CORP.

Ginni A. Winchester
Sr. Operations Analyst

Enclosures

cc: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

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

TRC
GAW



ROCKY MOUNTAIN GEO-ENGINEERING CORP.

2450 Industrial Boulevard
 Grand Junction, CO 81505 U.S.A.
 (970) 243-3044

OPERATOR: ANADARKO PETROLEUM CO.
 WELL: HELPER FEDERAL D-1
 LOCATION: SW-NE SEC. 26, T13S, R10E
 COUNTY: CARBON
 STATE: UTAH
 SPOT: 1413' FNL - 1567' FEL
 ELEVATION: GL:6366' KB:6378'
 FIELD: WILDCAT

SPUD DATE: 9/4/95
 TD DATE: 9/13/96
 DATES LOGGED: 9/5/96 TO 9/14/96
 DEPTHS LOGGED: 1000' TO 3926'
 LOGGERS: DAVE MEADE, ANDY CHOUQUETTE
 DRILLING FLUID: 335'-3323' AIR; 3323'-TD AIRMIST
 DRILLING RIG: CHANDLER DRILLING - RIG #7

LOG TYPE: CORE LOG

SCALE: 1:100 (10.0 INCH/100 FT)

REMARKS:

8 5/8" CASING SET @ 335'

CANISTERS MARKER W/ASTRIC (*) WERE SENT TO STEM LAB

CONFIDENTIAL

LITHOLOGIES

	ALLUVIUM		ANHYDRITE		BENTONITE		BRECCIA		CHALK
	CHERT		DARK CHERT		CLAYSTONE		COLORED CLAYSTONE		GRAY CLAYSTONE
	COAL		BRIGHT COAL		DULL COAL		INTERMEDIATE COAL		NON COAL
	CONGLOMERATE		DOLOMITE		ARGILLACEOUS DOLOMITE		CALCAREOUS DOLOMITE		CRYSTALLINE DOLOMITE
	DOLOMITIC BOUNDSTONE		DOLOMITIC GRAINSTONE		DOLOMITIC MUDSTONE		DOLOMITIC PACKSTONE		DOLOMITIC WACKSTONE
	GLACIAL TILL		GRANITE		GYPSUM		LIME BOUNDSTONE		LIME GRAINSTONE
	LIME MUDSTONE		LIME PACKSTONE		LIME WACKSTONE		LIMESTONE		ARGILLACEOUS LIMESTONE
	CRYSTALLINE LIMESTONE		DOLOMITIC LIMESTONE		MARL		DOLOMITIC MARL		METAMORPHIC
	SALT		SANDSTONE		SHALY SANDSTONE		SHALE		BLACK SHALE
	CARBONACEOUS SHALE		COALY SHALE		COLORED SHALE		GRAY SHALE		SILTY SHALE
	SILTSTONE		SHALEY SILTSTONE		TUFF		WELDED TUFF		VOLCANICS
	UNABLE TO INTERPRET		NO SAMPLE						

MODIFIERS

ANHYDRITE

AIR GEL

AIR GEL

ALGAE

ALGAE

ANHYDRITIC	ARGILLACEOUS	ARGILLITE GRAIN	BELEMNITE	BENTONITE	BIOCLAST/FRAGMENTAL
BRACHIOPOD	BRECCIA	BRYOZOA	CALCAREOUS	CARBONACEOUS FLAKES	CEMENTING BITUMENOUS
CEPHALOPOD	CHERT, DARK	CHERT, LIGHT	CHERT, TRIPOLITIC	COAL	CORAL
CRINOID	CRYSTALS	DOLOMITE STRINGERS	DOLOMITIC	ECHINOID	FELDSPAR
FERRUGINOUS	FERRUGINOUS GRAINS	FERRUGINOUS STRINGERS	FISH REMAINS	FORAMINIFERA	FOSSILS
FRACTURES	GASTROPOD	GLAUCONITE	GYPSIFEROUS	GYPSUM STRINGERS	HEAVY/DARK MINERALS
INTRACLASTS	KAOLIN	LIMESTONE STRINGERS	LIMONITE	MARLSTONE, CALCAREOUS	MARLSTONE, DOLOMITIC
MICACEOUS	NODULES	OOLITES	OSTRACOD	PEBBLES	PELECYPOD
PELLETS	PHOSPHATE PELLETS	PISOLITE	PLANT REMAINS	PYRITE	SALT CAST/INFILL
SAND GRAINS	SANDSTONE STRINGERS	SANDY	SCAPHOPOD	SHALE LAMINAE	SILICEOUS
SILTSTONE STRINGERS	SILTY	SLICKENSLIDE	SPORES	STROMATOPOROID	STYLOLITE
TUFFACEOUS					

POROSITY/SORTING/ROUNDNESS SYMBOLS

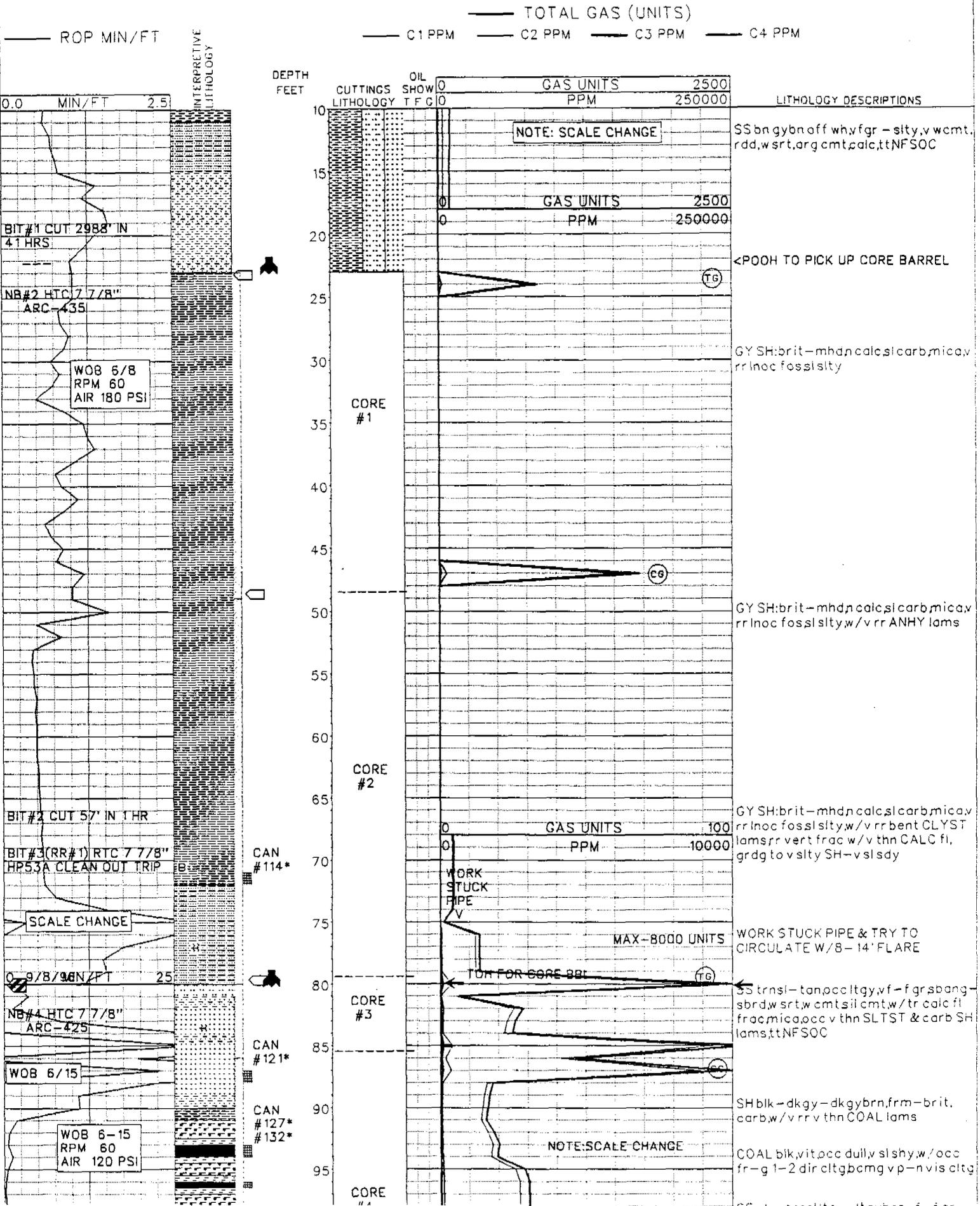
INTERCRYSTALLINE INTERGRANULAR	VUGGY	FRACTURE	INTEROOLITIC	PINPOINT	ORGANIC
MOLDIC	EARTHY	FENESTRAL			
ANGULAR	SUBANGULAR	ROUNDED	SUBROUNDED		
WELL	MEDIUM	POOR			

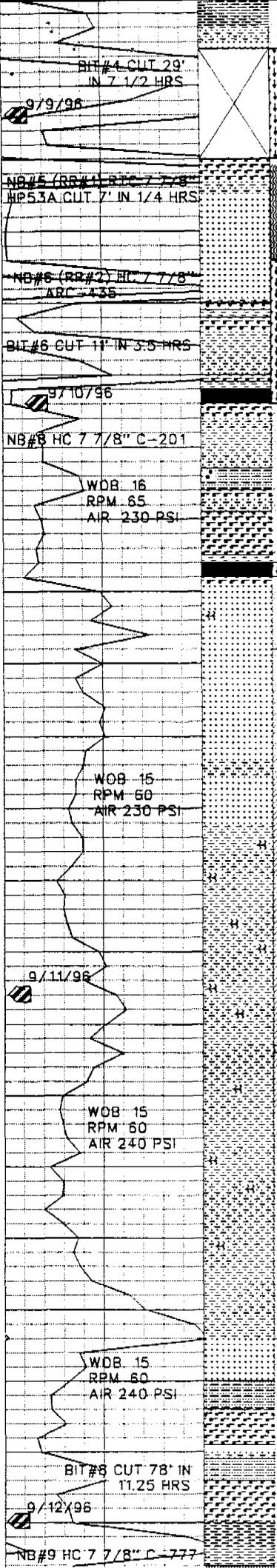
ENGINEERING SYMBOLS

BIT CHANGE	LOST CIRCULATION	CASING	CASING	SIDEWALL CORE	SIDEWALL CORE
WIRELINE TEST	WIRELINE TEST	GAS TO SURFACE	OIL TO SURFACE	WATER TO SURFACE	EVEN STAINING
SPOTTED STAINING	DEAD OIL	QUESTIONABLE	OIL SHOW	GAS SHOW	OIL AND GAS SHOW
CONNECTION GAS	TRIP GAS	MIDNIGHT DEPTH	MIDNIGHT DEPTH	CONNECTION	OFF BOTTOM
NORMAL FAULT	REVERSE FAULT	OVERTURNED STRATA			
CORE RECOVERED	CORE LOST	DST INTERVAL	ROTATING	SLIDING	CANISTER

ABBREVIATIONS

CB - CORE BIT	DST - DRILL STEM TEST	NR - NO RETURNS	RPM - REVOLUTIONS/MIN
CG - CONNECTION GAS	DTG - DOWNTIME GAS	NS - NO SAMPLE	RR - RE-RUN
CO - CIRCULATE OUT	LAT - LOGGED AFTER TRIP	PP - PUMP PRESSURE	SLM - STEEL LINE MEASURE
SPM - STROKES/MIN	TG - TRIP GAS	WOB - WEIGHT ON BIT	



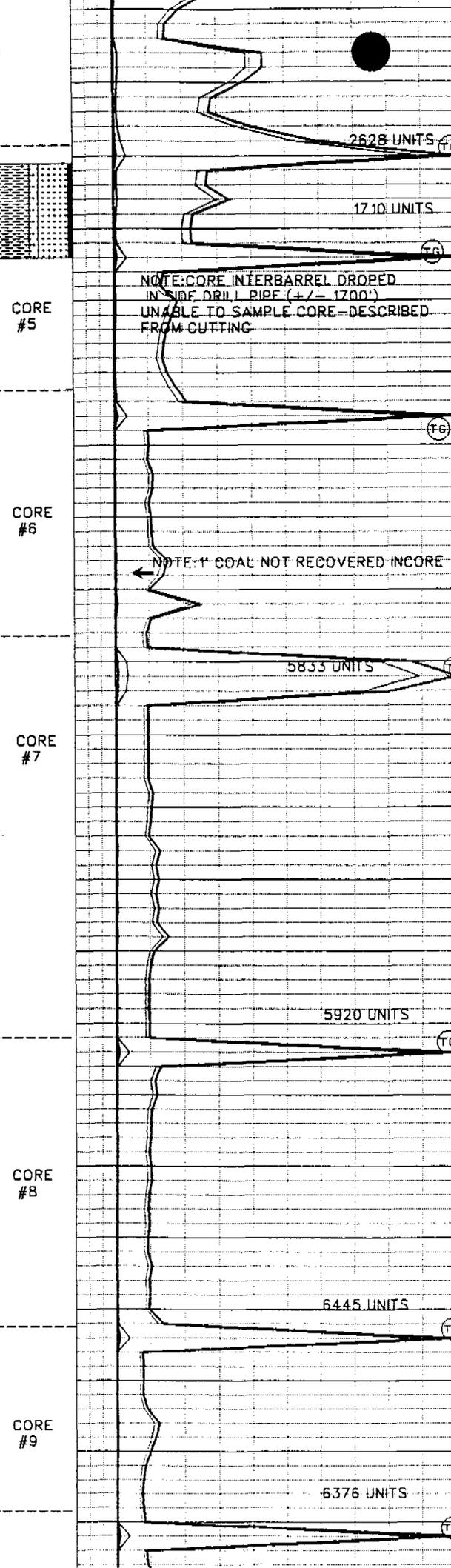


3400
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75
80
85
90
95
3500
5

CAN #113*

CAN #122*

CAN #191 #318 4197



lam,tt,NFSOC

TOH FOR JUNK BSKT RUN & DRILL W/ ROTARY BIT

2628 UNITS (TG)

1710 UNITS (TG)

NOTE: CORE INTERBARREL DROPPED IN SIDE DRILL PIPE (+/- 1700') UNABLE TO SAMPLE CORE - DESCRIBED FROM CUTTING

SH dkgy-blk pty carb n calc sdy-v sdy grdg to v shy SS

COAL blk, vit, occ dull, tr-fr 1 dir cltg

SS ltgy-gybrn, vf gr, bnd, tt, NFSOC

SH ltgybrn-blk, carb, slty, v sdy, grdg to v shy SS, vrr COAL incl

SH dkgy-blk, carb, vrr COAL incl

BRICOAL: blk, vit, occ dull, tr SH lams

SS ltgy-tan, trnslyf-f gr, dns, tt, vrr carb mat NFSOC

5833 UNITS (TG)

SS bf-trnslyf-f gr, sbang-sbrd, w srt, w cmt, sil-n calc, cly cmt, sl arg, vrr mica, vrr carb spec, tt NFSOC

SS bf-trns, occ gybrn, vf-f gr, bcmg mgr w/ depth, sbang-sbrd, w srt, w cmt, sil cmt, bnd w/m-dkgy-dkgybrn carb SH lams, vrr COAL-coaly SH lams, scat vert-diag frac, w/occ carb SH in fract, tt NFSOC

5920 UNITS (TG)

SS off wh gy, vf gr, w cmt, rdd, sbrd, w srt, arg & carb lam, mic frac, tt, NFSOC

6445 UNITS (TG)

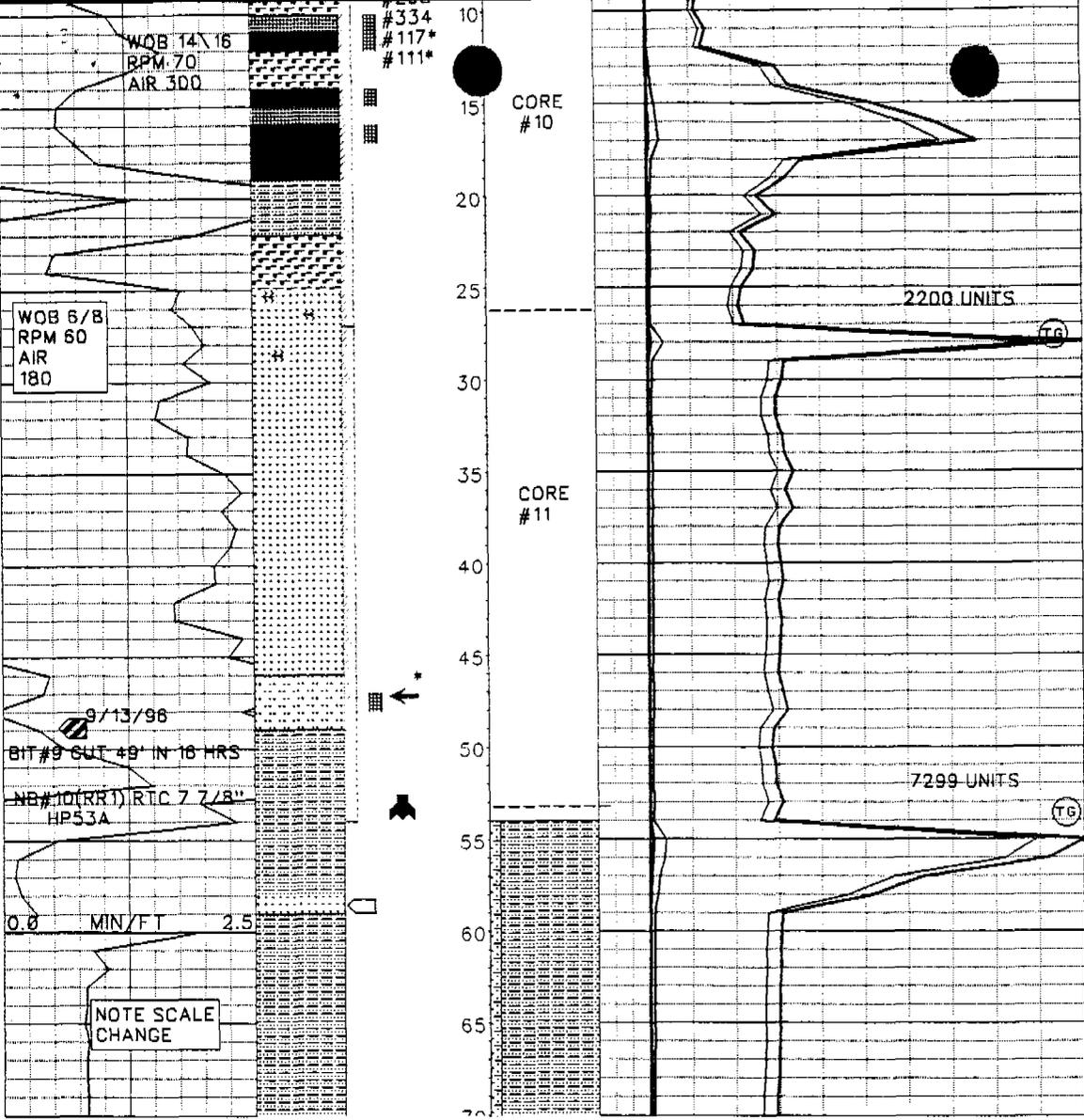
SS: tan-ltgy, trnslyf-f gr, sbang-sbrd, w srt, w-m cmt, sil cmt, vrr mica, vrr fld, w/occ scat v thn carb SH lams, tt-vrr intxlPORNFSOC

CORE #9

CARB SH: dkgy-blk n calc, vsl slty, w/occ vit COAL incl

6376 UNITS (TG)

SH bn, pty, hd, mic mica, n calc



COAL pred bri, vit, g cleat, bn soot, hv
 bleeding gas f mic frags, grd g to
 carb SH ip

CARB SH: dk bnbkly, sft, pcc vit incl &
 lam

SS: ltgy clr, vfg, w cmt, rdd, wsr, t arg
 cmt, slc, calc, hd, t, sm, lt, bn, arg, gr in mt, x,
 rr carb flks HVY FRACS 27' - 30',
 NFSOC

SLTST: gy, blkly - sbplty, hd, calc, arg
 cmt, rr carb mat & flks NFSOC

SLTY SH: gy, bnplty, hd, pp wh calc incl

SLTY SH: dkgy, gy, blkly, sbplty, hd, mic
 mica, carb incl, wh pp calc fos frags,
 INOC, calc

**WELL HISTORY
U.S. - ONSHORE**

UNCONVENTIONAL RESERVOIRS

EXPLORATORY

FIRST REPORT

HELPER FEDERAL D-1, HELPER PROSPECT, 1413' FNL & 1567' FWL, SEC 26-13S-10E, CARBON CO, UT, AFE 13509, WI 1.000, APC RI 0.875, ETD 4000 (CAMEO COALS), CHANDLER DRILLING RIG #7

STATUS CODE: EG

- 09/05 325 (0), DRLG CMT & FE, MW WTR, 8 5/8" 24# K-55 CSG PRE-SET @ 325, CMT TO SURFACE, SPUD @ 1500 HRS 09/04/96, NU AND TEST BOPE, TIH, TAG TOC @ 295, CC 27,000. REP #1
- 09/06 1445 (1120), DRLG 713-1495, MW AIR, DRLG SURF SHOE, DRY UP HOLE, DRLG 347-713, LD DP & PU DC, CC 51,300. REP #2
- 09/07 3165 (1720), DRILL 1445-3165, MW AIR, CC 92,300. RPT #2
- 09/08 3380 (215), TIH, MW AIR, DRILL 3165-3283, TOOH, PU CONTINUOUS CORING TOOLS, CUT CORE #1 FROM 3323-3349, RECOVERED 26.5', CUT CORE #2 FROM 3349-3380, STUCK CORE BBL, WORKED FREE, RECOVERED 30.0', CC 146,500. RPT #3
- 09/09 3409 (29), TIH, MW AIR, TIH W/ CORING TOOLS, CUT CORE #3 FROM 3380-3386, RECOVERED 5.5', CUT CORE #4 FROM 3386-3409, RECOVERED 16', HIT HARD STREAK @ 3409, COULD NOT CORE, TOOH, LD CORING TOOLS, PU BIT TO DRILL HARD STREAK, CC 155,200. RPT #4
- 09/10 3427 (18), TOH W/ JUNK SUB, MW AIR, TIH, C&C, DRLG 3409-3416, TOH, PU & TIH W/ CORE BBL, WRTB, CUT CORE #5 FROM 3416-3427, RETR INNER BBL ON WL, DROPPED INNER BBL 1700', TOH W/ CORE BBL, PU MAGNET & TIH, TOH W/ MAGNET & 2 METAL PIECES, TIH W/ BIT & JUNK SUB, CC 171,900. RPT #5
- 09/11 3472 (45), TIH W/ CORE BBL, MW AIR, TOH W/ BIT & JUNK SUB, TIH, CUT CORE #6 FROM 3427-3445, REC 18', TOH, LD CORE, TIH, C&C, CUT CORE #7 FROM 3445-3472, REC 27', TOH, LD CORE, CC 183,800. RPT #6
- 09/12 3509 (37), CTG CORE #10, MW AIR, TIH, WRTB, CUT CORE #8 FROM 3472-3492, TOH, REC 20', CDL, TIH, C&C, CUT CORE #9 FROM 3492-3505, TOH, REC 13.5', TIH, W&R THRU BRIDGE @ 3480, CC 210,300. RPT #7
- 09/13 3556 (47), LD CORE #11, MW AIR, CUT CORE #10 FROM 3509-3527, TOH, REC 21.5', TIN, C&C, CUT CORE #11 FROM 3527-3556, TOH, CC 220,900. RPT #8
- 09/14 3926 (370), TIH, MW AIR, LD CORE #11, REC 29', TIH, DRLG 3556-3926, TOH, RN OH LOGS, CC 276,600. RPT #9
- 09/15 3926 (0), WOCU, MW AIR, TIH TO 3743, W&R 3743-3976, C&C, TOH, LDDP, RN 91 JTS 5-1/2" 15.5# J-55 LT&C CSG, SET @ 3848, CMT STG #1 W/ 200 SX 50/50 POZ, CMT STG #2 W/ 330 SX HLC, NO RET, ND BOPE, SET SLIPS, CAP WELL, RIG REL @ 0300 HRS ON 09/15/96, CC 321,600. RPT #10 --DROP FROM REPORT--
- 09/24 TD 3926, SET DEADMEN & TEST, MIRU PU, SI, CC 324,000.
- 09/25 PBTD 3728, TIH W/ BIT, 6 DC & 2-7/8" WS, TAG CMT @ 2768, DO CMT & DV TOOL 2768-820, CIRC HOLE CLEAN, TIH & TAG CMT @ 3728, TOH TO 3518, SI, PREP TO DO TO 3760, CC 327,600.
- 09/26 PBTD 3770, TIH W/ TBG, DO CMT 3728-38, BIT PLGD, TOH W/ TBG, TIH W/ BIT & TBG, DO CMT 3728-70, CIRC HOLE CLEAN & DISPLACE W/ FILTERED PROD WATER, TOH & LD 67 JTS WS, SI, CC 329,900.
- 09/27 PBTD 3770, FIN TOH & LD 2-7/8" WORKSTRING, MIRU WL, RUN GR/CCL/CBL FROM 3770-1790 W/ 1000 PSI ON CSG, TOC-1ST STAGE 3150, TOC-2ND STAGE 2000, RDMO WL, ND BOP, NUWH, RDMO PU, CC 334,400.
- 09/28 PBTD 3770, SI, EVAL CMT SQZ, CC 334,400.
- 10/01 PBTD 3770, SI, EVAL CMT SQZ, CC 334,400. --DROP FROM REPORT--

- 10/27 PBDT 3780 (FERRON COAL), ND WH, NU BOPE, PRESS TST CSG TO 2500 PSI-OK, MIRU WL, TIH W/ GR TO 3780', TOH, PERF LWR FERRON COAL 3500-18' @ 2 SPF W/ 0.6" EHD, SI, CC 337,000. --DROP FROM REPORT--
- 10/30 PBDT 3780 (FERRON COAL) MIRU PU, TIH W/ PKR, SN & 3 1/2 TBG TO 3212, SDFN, CC 441,000.
- 10/31 PBDT 3780 (FERRON COAL), MIRU WL, TIE IN PKR, SET @ 3340, RDMO WL, RU HES, TEST TBG, TEST CSG TO 1800 & HOLD, FRAC FERRON COALS (3500-18) W/ 47000 GALS XL GEL + 102000# SD, AR 41.5, AP 4850, MR 43.5, MP 5050, ISDP 1820, 5-1525, 10-1331, 15-1138, FLOW BACK WELL, 1120 BLWTR, CC 496,000
- 11/01 PBDT 3480 (FERRON COAL) REL PKR, TOH W/ TBG & PKR, RU WL, RIH W/ JB/GR TO 3540, POH, LEFT JB/GR IN HOLE, RIH W/ WL, TAG FISH @ 3685, RIH & SET RBP @ 3480, TEST TO 1000#-OK, PERF 3390-96, 3410-20, 3452-58, RDWL, TIH W/ 3 1/2 PKR & TBG TO 3340, SDFN, CC 514,000.
- 11/02 PBDT 3480 (FERRON COAL), SIT & CP 0, PRESS TST TBG TO 5000 PSI-OK, PULL SV, SET PKR, PRESS TST ANNULUS TO 2500 PSI-OK, HOLD 1800 PSI ON ANNULUS, FRAC FERRON COAL (3390-458 OA) W/ 49000 GAL XL GEL + 100600# SD, AIR 42.7, MIR 44, AIP 4950, MIP 5080, ISDP 1800-1489-1359-1244, FLOW BACK WELL, 2290 BLWTR, CC 553,300.
- 11/03 PBDT 3685 (FERRON COAL), FTP 0, REL PKR, TOH & LD WS & PKR, TIH W/ RETR TOOL & TBG, CO SND 3380-480, LATCH ONTO RBP & TOH, SI, 2340 BLWTR, CC 556,000.
- 11/04 PBDT 3685 (FERRON COAL), SICP 0, TIH W/ OS, BS & TBG, CO SAND 3630-85, LATCH ONTO FISH @ 3685, TOH W/ FISH, RU WL, RAN RA TRACER LOG, SI, 2500 BLWTR, CC 560,700.
- 11/05 PBDT 3480 (FERRON COAL), SICP 0, MIRU WL, RUN RA TRACER LOG FROM 3618-3290, SI, 2500 BLWTR, CC 568,100.
- 11/06 PBDT 3480 (FERRON COAL), SICP 0, TIH W/ NC, SN & TBG TO 3365, IFL 300, SWBD 236 BLW, TRACE SAND & COAL FINES, FFL 700, SI, 2264 BLWTR, CC 574,300.
- 11/07 PBDT 3770 (FERRON COAL), SITP 25, SICP 15, IFL 600, SWBD 119 BLW, FFL 700, TIH W/ 10 JTS TBG, TAG FILL @ 3680, CO SND TO 3770, LD 16 JTS, TOH W/ TBG, LOST 250 BW DURING CO, 2395 BLWTR, CC 578,100.
- 11/08 PBDT 3770 (FERRON COAL), SIT & CP 0, TIH W/ BP, 1 JT TBG, PS, SN, 1 JT TBG, TA, 104 JTS 2-3/8" TBG, ND BOPE, SET TA IN 16000# TEN, EOT @ 3379, SN @ 3341, NU WH, TIH W/ 80 RING 1.5" BHP, 8-SB, 80-3/4" GR, 44-7/8" GR & 20' PONIES, SI, 2395 BLWTR, CC 583,400
- 11/09 PBDT 3770 (FERRON COAL), PUT WELL ON PROD, 2395 BLWTR, CC 603,800.
- 11/10 PBDT 3770 (FERRON COAL), PMPD 20 HRS, 170 BW, CP 0, FL 598, 2225 BLWTR, CC 603,800.
- 11/11 PBDT 3770 (FERRON COAL), PMPD 20 HRS, 170 BW, CP 0, FL 630, 2055 BLWTR, CC 603,800.
- 11/12 PBDT 3770 (FERRON COAL), PMPD 20 HRS, 170 BW, CP 0, FL 661, 1885 BLWTR, CC 603,800.
- 11/13 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 183 BW, SICP 250, FL 693, OPN CSG, CC 603,800.
- 11/14 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 176 BW, CP 95, FL 756, 1526 BLWTR, CC 603,800.
- 11/15 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 191 BLW, FCP 95, FL 787, 1335 BLWTR, CC 603,800.
- 11/16 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 173 BLW, 10 MCF, CP 130, FL 818, 1162 BLWTR, CC 633,800.
- 11/17 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 148 BLW, 20 MCF, CP 170, FL 976, 1014 BLWTR, CC 633,800.
- 11/18 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 145 BW, 25 MCF, CP 150, FL 1006, 869 BLWTR, CC 633,800.
- 11/19 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 144 BW, 31 MCF, FCP 160, FL 850, 725 BLWTR, CC 633,800.
- 11/20 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 140 BW, 38 MCF, CP 95, FL 850, 585 BLWTR, CC 633,800.
- 11/21 PBDT 3770 (FERRON COAL), PMPD 24 HRS, 140 BW, 44 MCF, CP 95, FL 598, 814 BLWTR, CC 633,800.

- 11/22 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 140 BW, 50 MCF, CP 95, FL 661, 674 BLWTR, CC 633,800.
- 11/23 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 138 BLW, 55 MCF, FCP 95, FL 693, 536 BLWTR, CC 633,800.
- 11/24 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 150 BLW, 64 MCF, FCP 95, FL 724, 386 BLWTR, CC 633,800.
- 11/25 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 138 BLW, 69 MCF, FCP 95, FL 630, 248 BLWTR, CC 633,800.
- 11/26 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 132 BLW, 65 MCF, CP 95, FL 630, 116 BLWTR, CC 633,800.
- 11/27 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 126 BLW, 70 MCF, CP 95, FL 661, CC 633,800.
- 11/28 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 131 BW, 70 MCF, FCP 95, FL 630, CC 633,800.
- 11/29 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 130 BW, 71 MCF, FCP 90, FL 630, CC 633,800.
- 11/30 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 130 BW, 73 MCF, FCP 80, FL 598, CC 633,800.
- 12/01 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 124 BW, 76 MCF, FCP 55, FL 630, CC 633,800.
- 12/02 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 126 BW, 74 MCF, FCP 55, FL 630, CC 633,800.
- 12/03 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 118 BW, 76 MCF, FCP 55, FL 661, CC 633,800.

FINAL REPORT

STATUS CODE 20301

- 12/04 PBTD 3770 (FERRON COAL), PMPD 24 HRS, 116 BW, 81 MCF, FCP 55, FL 693; PERFS: 3390-96, 3410-20, 3452-58, 3500-18; CC 633,800.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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

3. Address and Telephone No.

17001 Northchase Dr. Houston, TX 77060 (281) 875-1101

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1413' FNL & 1567' FEL (SWNE)
Sec. 26-13S-10E

5. Lease Designation and Serial No.

UTU-68315

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Helper Federal D-1

9. API Well No.

43-007-30286

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon County, UT

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

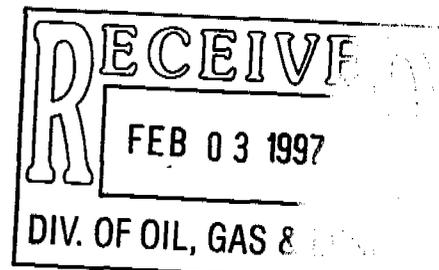
TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other _____
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- 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 Sales 11/15/96 to Questar



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

Signed Craig R. Walters Craig R. Walters

Title Production Engineer

Date 1/17/97

(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 statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
UTU-68315

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:

1. Type of Well: OIL GAS OTHER: Coalbed Methane

8. Well Name and Number:
Helper Federal D-1

2. Name of Operator:
Anadarko Petroleum Corporation

9. API Well Number:
43-007-30286

3. Address and Telephone Number:
P.O. Box 1330 Houston, TX 77251-1330 (281) 875-1101

10. Field and Pool, or Wildcat:
Wildcat

4. Location of Well
Footages: 1413' FNL & 1567' FEL
QQ, Sec., T., R., M.: SW NE Sec. 26-13S-10E

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 Commingled 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 Re Completions 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 Trust 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 3500 BWPD at 1050 psi.

13. Name & Signature: Craig R. Waters

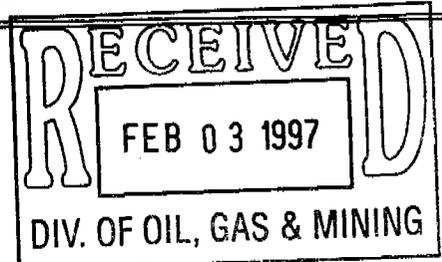
Accepted by the State _____ Date: 1/24/97

of Utah Division of Oil, Gas and Mining

Date: 2-5-97

By: [Signature]

(This space for State use only)





TEST REPORT

COMPANY ANADARKO PETROLEUM		SHEET NUMBER	
FIELD OR PLANT HELPER/CASTLE GATE		COUNTY OR PARISH CARBON	DATE 1/20/97
LEASE OR UNIT	WELL(S) NAME & NO.	STATE UTAH	
TYPE SAMPLE PRODUCED WATER		SAMPLE SOURCE WELL HEAD	
REASON FOR TEST COMPATIBILITY		TYPE TEST	

RESULTS:

Gentlemen:

I have analyzed the produced water from the Helper D-1 and the Castle Gate field. It would be my recommendation that the water from the Helper D-1 could be commingled with the water at the Castle Gate field, and no problems should occur. As of the attached 3/25/96 (Castle Gate), and 1/8/97 (Helper D-1) water analysis. The makeup of the Helper D-1 water is such that No foreign or contaminating properties are present in regards to compatibility with the Castle Gate Field.

REMARKS & RECOMMENDATIONS:

EC ENGINEER Creg Wilkins	DIST. NO 20	ADDRESS Vernal, Utah	OFFICE PHONE 801-789-2069	HOME PHONE
ANALYZED BY Creg Wilkins	DATE 1/20	DISTRIBUTION	<input type="checkbox"/> CUSTOMER	<input type="checkbox"/> REGION
		<input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> DISTRICT	



NALCO/EXXON
ENERGY CHEMICALS, L.P.

Downhole Water Analysis 1/8/97
Copyright 1991-1995, Nalco Chemical Company Creg Wilkins

CLIENT NAME : ANADARKO PETROLEUM CORP.
CLIENT LOCATION: CARBON CO. UTAH

Well Number : HELPER LEASE
Water Source : HELPER D-1 WELL HEAD 12-13-96

DISSOLVED SOLIDS

Cations	mg/l	meq/l	mg/l
Sodium Na+	9620.9	418.3	as NaCL 730.8
Calcium Ca++	440.0	22.0	as CaCO3 1098.8
Magnesium Mg++	122.0	10.0	as CaCO3 502.4
Barium Ba++	200.0	2.9	as CaCO3 339.8
Strontium Sr++	0.0	0.0	as CaCO3 0.0

Total Cations 10382.9 453.2

Anions	mg/l	meq/l	mg/l
Chloride Cl-	14500.0	409.0	as NaCL 23902.7
Sulfate SO4=	10.0	0.2	as Na2SO4 14.8
Carbonate CO3=	0.0	0.0	as CaCO3 0.0
Bicarb. HCO3-	2684.0	44.0	as CaCO3 4403.4

Total Anions 17194.0 453.2

Total Solids 27576.9

METALS

Total Iron,Fe	44.0	as Fe	44.0
Acid to Phen,CO2	0.4	as CaCO3	1.0

OTHER PROPERTIES

pH	7.2
Specific Gravity	1.0
Turbidity jtu	20.0
Oxygen, as O2 ppm	0.0
Sulfide as H2S ppm	0.0
Temperature F	100.0



NALCO/EXXON
ENERGY CHEMICALS, L.P.

>>> Scaling Indices <<<

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60.0	0.42	-63.25	NA	NA
80.0	0.62	-63.53	0.20	NA
100.0	0.86	-63.74	0.20	NA
120.0	1.14	-63.74	0.19	NA
140.0	1.47	-63.05	0.19	NA
160.0	1.84	-61.61	0.18	NA
180.0	2.26	-60.47	0.18	NA
200.0	2.72	NA	0.17	NA
220.0	NA	NA	NA	NA
240.0	NA	NA	NA	NA
260.0	NA	NA	NA	NA
280.0	NA	NA	NA	NA
300.0	NA	NA	NA	NA
320.0	NA	NA	NA	NA

Positive values indicate scaling tendencies



NALCO/EXXON
ENERGY CHEMICALS, L.A.

Downhole Water Analysis 3/25/96
Copyright 1991-1995, Nalco Chemical Company Creg Wilkins

CLIENT NAME : ANADARKO PETROLEUM
CLIENT LOCATION: CASTLEGATE LEASE CARBON CO. UTAH

Well Number : PRODUCTION WATER
Water Source : DATE: 3/23/96

DISSOLVED SOLIDS

Cations	mg/l	meq/l	mg/l
Sodium Na+	2944.1	128.0	as NaCL 67.1
Calcium Ca++	120.0	6.0	as CaCO3 299.7
Magnesium Mg++	48.0	3.9	as CaCO3 197.7
Barium Ba++	45.0	0.7	as CaCO3 76.5
Strontium Sr++	0.0	0.0	as CaCO3 0.0

Total Cations 3157.1 138.6

Anions	mg/l	meq/l	mg/l
Chloride Cl-	2750.0	77.6	as NaCL 4533.3
Sulfate SO4=	145.0	3.0	as Na2SO4 214.4
Carbonate CO3=	0.0	0.0	as CaCO3 0.0
Bicarb. HCO3-	3538.0	58.0	as CaCO3 5804.5

Total Anions 6433.0 138.6

Total Solids 9590.1

METALS

Total Iron, Fe	8.6	as Fe	8.6
Acid to Phen, CO2	0.4	as CaCO3	1.0

OTHER PROPERTIES

pH	8.5
Specific Gravity	1.0
Turbidity jtu	20.0
Oxygen, as O2 ppm	0.0
Sulfide as H2S ppm	7.0
Temperature F	100.0

>>> Scaling Indices <<<

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60.0	2.02	-33.66	NA	NA
80.0	2.21	-34.27	0.65	NA
100.0	2.43	-34.75	0.65	NA
120.0	2.66	-34.85	0.65	NA
140.0	2.90	-34.50	0.65	NA
160.0	3.17	-32.83	0.65	NA
180.0	3.44	-31.71	0.65	NA
200.0	3.74	NA	0.65	NA
220.0	NA	NA	NA	NA
240.0	NA	NA	NA	NA
260.0	NA	NA	NA	NA
280.0	NA	NA	NA	NA
300.0	NA	NA	NA	NA
320.0	NA	NA	NA	NA

Positive values indicate scaling tendencies

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

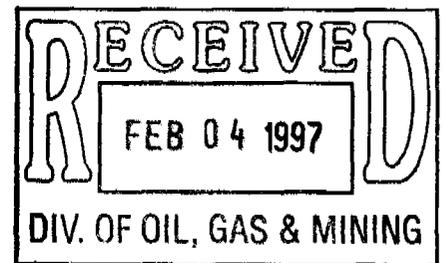
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: COALBED METHANE		5. Lease Designation and Serial Number: UTU-68315
2. Name of Operator: Anadarko Petroleum Corporation		6. # Indian, Allottee or Tribe Name:
3. Address and Telephone Number: P.O. Box 1330, Houston, Texas 77251-1330 (281) 875-1101		7. Unit Agreement Name:
4. Location of Well Footages: 1413' FNL & 1567' FEL QQ. Sec., T., R., M.: SW NE Sec 26-13S-10E		8. Well Name and Number: HELPER FEDERAL D-1
		9. API Well Number: 43-007-30286
		10. Field and Pool, or Wildcat: Wildcat
		County: Carbon State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Spud Notification</u>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start <u>SPUD 09/04/96, 1500 Hrs</u>	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.)



13. Name & Signature: Craig R. Walters Title: Production Engineer Date: 1/27/97

(This space for State use only)



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

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

Ginni - Please handle.

HOU - DIV.

FEB 17 1997

RECEIVED

RECEIVED
FEB 24 1997

February 10, 1997

Mr. Craig R. Walters
Anadarko Petroleum Corporation
17001 Northchase Drive
Houston, Texas 77060

CONFIDENTIAL
7135 RIOE 26

Re: Helper Federal D-1, API No. 43-007-30286
Submittal of Electric and Radioactivity Logs

Dear Mr. Walters:

We have received the Spectral Density Dual Spaced Neutron and Mud logs for the above referenced well. However, the Well Completion Report indicates that a DIL Log was also run. Please submit a copy of that log to our 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) 538-5279.

Sincerely,

Vicky Dyson
Production Group Supervisor

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

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
- 5a. (R649-9-2)Waste Management Plan has been received on: Yes
- 5b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- 5c. Reports current for Production/Disposition & Sundries on: 4/10/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL 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 Denver STATE CO ZIP 80217		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (720) 929-6000		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: See Wells
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<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

D.V. OF OIL GAS & MINING
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

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