



August 9, 2000

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

Attention: Lisha Cordova

RE: Applications for Permit to Drill

Gentlemen:

Enclosed, in duplicate, are Applications for Permit to Drill (Form 3) for the following wells in Emery County, Utah.

Clawson Spring State G-2  
Clawson Spring State SWD-3  
Clawson Spring State SWD-4  
Potter etal 2

Please call me at (281) 874-8766 if you require further information or have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Judy Davidson".

Judy Davidson  
Regulatory Analyst

JD/me  
enclosures

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AUG 11 2000

DIVISION OF  
OIL, GAS AND MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1 a. TYPE OF WORK DRILL  DEEPEN

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

2. NAME OF OPERATOR ANADARKO PETROLEUM CORPORATION

3. ADDRESS AND TELEPHONE NO. 17001 Northchase Drive, Houston, Texas 77060 281/875-1101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 1268 FSL 672 FEL, SE Section 6, T16S R9E  
At proposed prod. zone 1268 FSL 672 FEL, SE Section 6, T16S R9E

5. LEASE DESIGNATION AND SERIAL NO. ML-48220

6. IF INDIAN, ALLOTTEES OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO. Clawson Spring State SWD-3

9. API WELL NO. 4367445 H  
504409 E

10. FIELD AND POOL OR WILDCAT CBM

11. SEC. T,R,M, OR BLK. AND SURVEY OR AREA Section 6, T16S R9E

12. COUNTY Emery 13. STATE Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 16 miles SW of Price, Ut

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 672

16. NO. OF ACRES IN LEASE 1280

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

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4500

19. PROPOSED DEPTH 8300

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF. RT. GR. etc.) 6399'

22. APPROX. DATE WORK WILL START. 08/15/2000

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8, H-40	48#	300	420 cu. Ft.
12 1/4"	8 5/8 K-55	24	2800	1800 cu. Ft.
7 7/8"	5 1/2" N-80	17	8300	TBD

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.

Attached is the following:

1. Survey Plat
2. Drilling Plan with BOP Schematic.
3. Topo & Access Map & Area Map.
4. Pit & Pad Layout with cross sections of pit, pad, & rig layout.

*Revised per attached survey 9-21-00 rsk*

Utah Oil & Gas Lease Bond: 224351  
 ✓ Utah Bond of Lessee: 203521  
 Water Source: City of Price  
 Surface Owner: SITLA

**CONFIDENTIAL**

AUG 11 2000

DIVISION OF OIL, GAS AND MINING

24. SIGNED Judy Davidson TITLE Judy Davidson Regulatory Analyst DATE 08/09/2000

(This space State office use.)

PERMIT NO. 4301530476 APPROVAL DATE \_\_\_\_\_

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

APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL RECLAMATION SPECIALIST III DATE 8/25/00

See Instructions On Reverse Side

# T16S, R9E, S.L.B.&M.

## ANADARKO PETROLEUM CORP.

Well location, CLAWSON SPRING SWD #3, located shown in the SE 1/4 SE 1/4 of Section 6, T16S, R9E, S.L.B.&M. Emery County, Utah.

1940 Brass  
Cap 1.4' High,  
Pile of Stones

N89°01'W - 40.64 (G.L.O.) T15S S89°38'W - 39.87 (G.L.O.)

(20.378) (20.377) T16S

LOT 4 LOT 3 LOT 2 LOT 1

LOT 5

1940 Brass  
Cap 0.4' High,  
Pile of Stones

6

1940 Brass  
Cap 0.4' High,  
Pile of Stones

LOT 6

CLAWSON SPRING SWD #3  
Elev. Ungraded Ground = 6681'

672'

LOT 7

1940 Brass  
Cap 1.0' High,  
Pile of Stones

1940 Brass  
Cap 0.4' High,  
Pile of Stones

1268'

1940 Brass  
Cap 0.3' High,  
Pile of Stones

S89°31'36"W - 2652.21' (Meas.) S89°07'51"W - 2655.76' (Meas.)

R9E

### LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LATITUDE = 39°27'32"  
LONGITUDE = 110°56'56"

### BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE NORTHWEST CORNER OF SECTION 6, T16S, R9E, S.L.B.&M. TAKEN FROM THE POISON SPRING BENCH QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6859 FEET.

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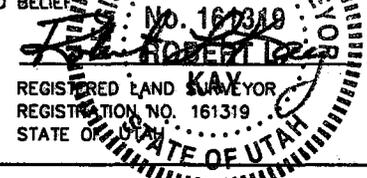
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SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAN 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.



UNTAEH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-13-00	DATE DRAWN: 7-26-00
PARTY C.T. B.H. D.COX	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: Clawson Spring State SWD-3

Location: 1268' FSL & 672' FEL  
T15S, R9E, Section 6  
Carbon County, Ut

Lease: ML-48220

Surface Elevation: 6681

A. Estimated Tops of Important Geologic Markers:

Emery	Surface	Buckhorn Cong.	4691	Carmel Anhy	6791
Bluegate Shale	2261	Morrison	4771	Carmel Lime	6966
Ferron Sand	3361	Summerville	5271	Navajo	7178
Tununk Shale	3596	Curtis	5671	Kayenta	7526
Dakota Sand	3981	Entrada	5811	Wingate	7606
Cedar Mtn	4031	Carmel	6471		

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

Gas-bearing Ferron Sandstone Member is expected to be encountered from: 3361 - 3981.

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

C. Pressure Control Equipment:

A 9" 3000 psi WP double gate hydraulic BOP with pipe rams and blind rams will be installed on the 8-5/8" casinghead. In addition to the BOP stack, a rotating head will be installed on top of the BOP to assist in safe air drilling operations. The BOP stack will be tested prior to drilling below intermediate 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: 13-3/8", 48#, H40, STC new casing will be set at approximately 300'.  
Intermediate Casing: 8-5/8" 24#, K55, LTC, new casing will be set at approximately 2800'.  
Production Casing: 5-1/2" 15.5#, K55, LTC, new casing will be set at approximately 8450

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D. Casing Program (continued)

Casing Design Factors

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

Collapse	1.0
Joint Strength	1.6
Burst	1.33

E. Cement Program

Surface - Cement will be circulated to the surface. Casing will be cemented with approximately 420 cu. ft. (350 sx, 15.6 ppg, 1.19 cf/sk) of API Class 'A' cement.

Intermediate - Cement will be raised to the surface casing using an API Class 'A' cement lead volume of approximately 1500 cu. ft. (750 sx, 12.8 ppg, 2.0 cf/sk) and an API Class 'A' tail cement volume of approximately 300 cu. ft. (250 sx, 15.6 ppg, 1.19 cf/sk). Cement will be placed 200' above shoe.

Production - Casing will be cemented back to intermediate 8-5/8" casing using API Class 'H' cement and a "DV" stage cementing collar with a two stage cement job. The actual cement volumes and DV stage cementing tool placement will be based upon actual depth and gauge determined from open hole 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.

F. Mud Program and Circulating Medium:

A truck-mounted air drilling rig will be used to drill the surface hole to 300' and to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole to TD.

An air or air/mist system will be used for drilling from below surface pipe at 300' to 2800.

An air/mist system will be used from 2800' to approximately 5000'. The hole will then be displaced with an 8.7 to 9.2 ppg Low Solids Non Dispersed mud. Bentonite gel will be the primary additive with minor additions of lime, caustic, soda ash, and polymer to control viscosity.

The mud/fluid system will be monitored visually and with a gas chromatograph detector.

G. Coring, Logging, and Testing Program:

a. The following logging program is planned:

1. SDL-GR-CAL over prospective intervals (300 to 2800' and 2800 to 6200').
2. DIL- SP-GR-CAL over prospective intervals (2800' to 6200')

b. A mud logging unit with chromatograph will be used from approximately 1000' to TD.

c. After production casing is installed, a cement bond log will be run to determine the top of cement. Productive zones will then be perforated and tested. Water produced during testing will be contained in the temporary reserve pit.

H. Abnormal Conditions and Potential Hazards:

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Potential hazards such as H<sub>2</sub>S are also not anticipated.

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**ANADARKO PETROLEUM CORP.**  
**CLAWSON SPRING SWD #3**  
 LOCATED IN EMERY COUNTY, UTAH  
 SECTION 6, T16S, R9E, S.L.B.&M.

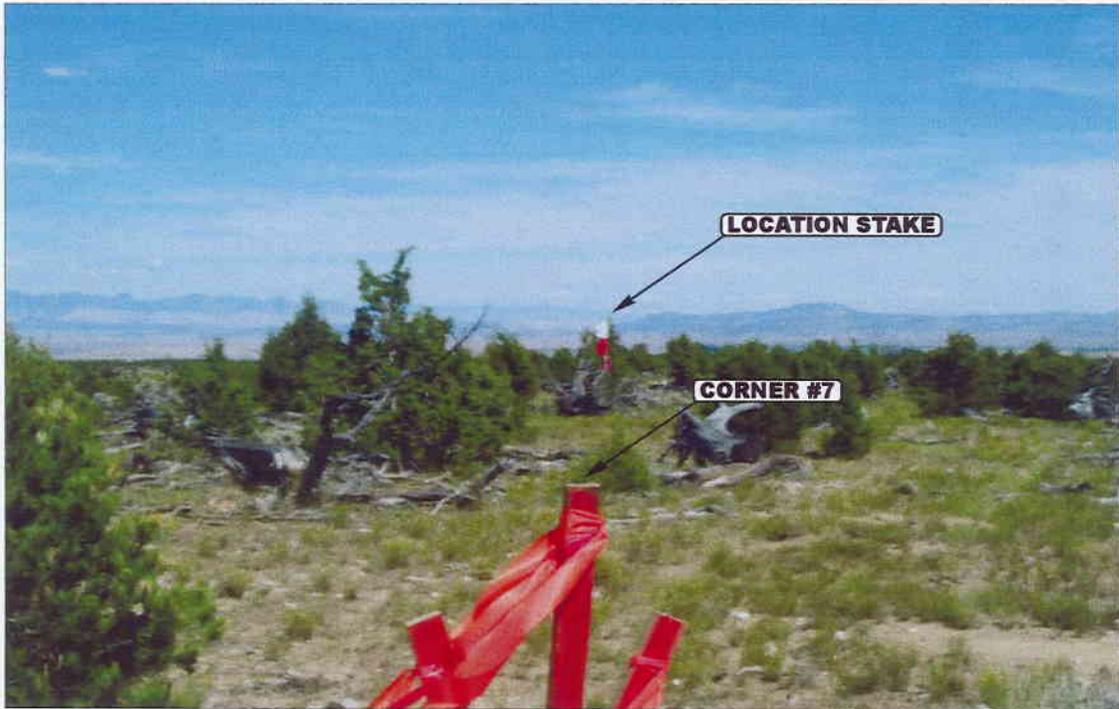


PHOTO: VIEW FROM CORNER #7 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

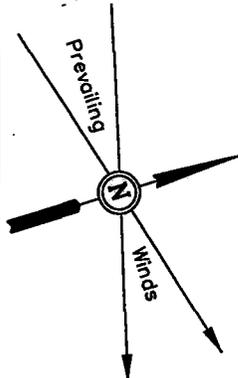
**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	7	25	00	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: J.L.G.	REVISED: 00-00-00		

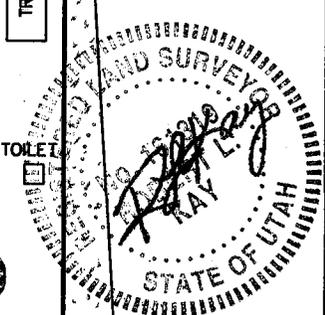
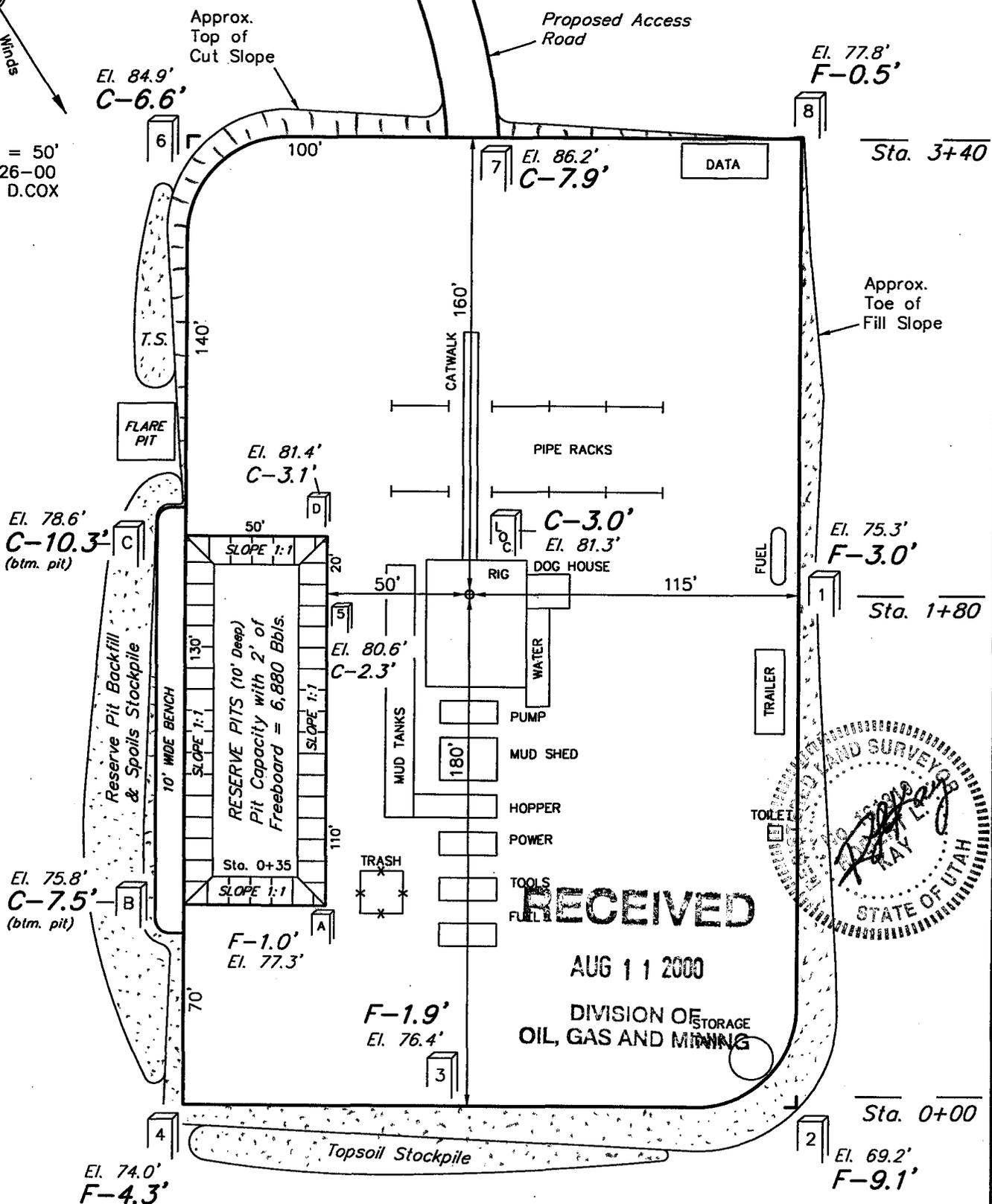
**ANADARKO PETROLEUM CORP.**

**LOCATION LAYOUT FOR**

**CLAWSON SPRING SWD #3**  
**SECTION 6, T16S, R9E, S.L.B.&M.**  
**1268' FSL 673' FEL**



SCALE: 1" = 50'  
 DATE: 7-26-00  
 Drawn By: D.COX



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 OIL, GAS AND MINING

ELEV. UNGRADED GROUND AT LOC. STAKE = 6681.3'  
 ELEV. GRADED GROUND AT LOC. STAKE = 6678.3'

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

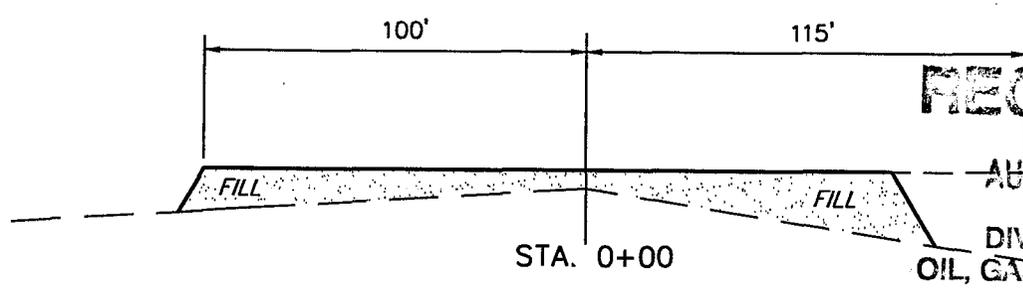
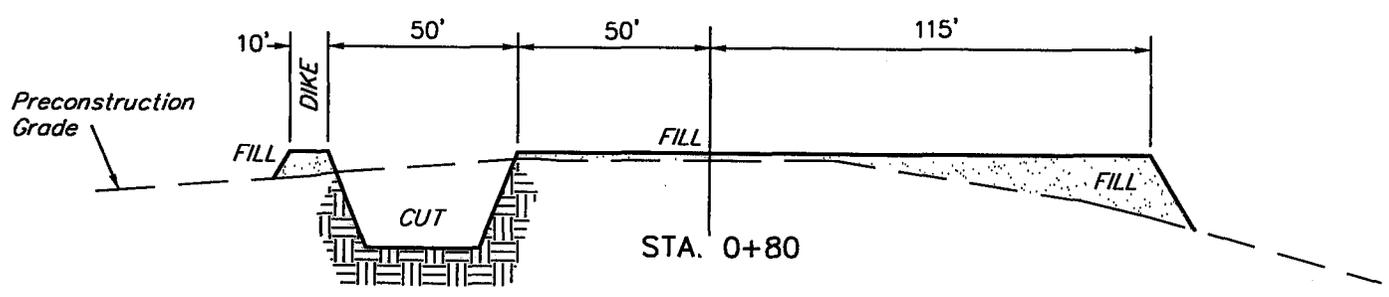
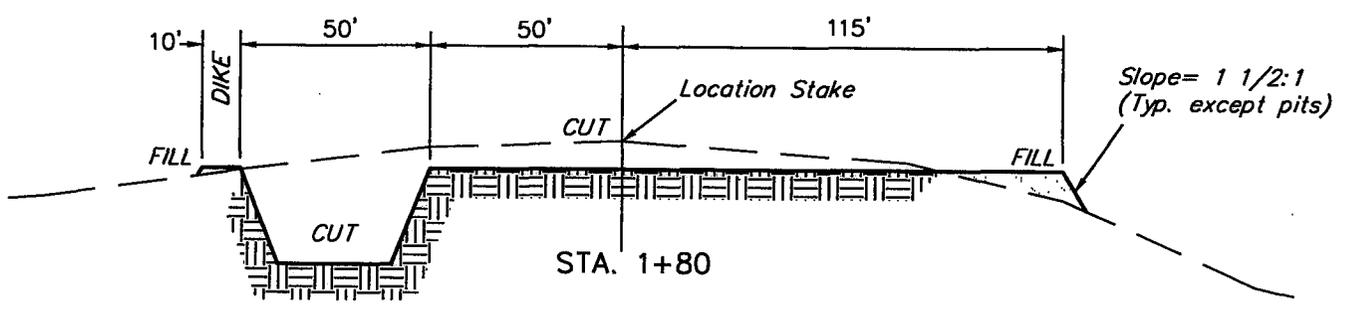
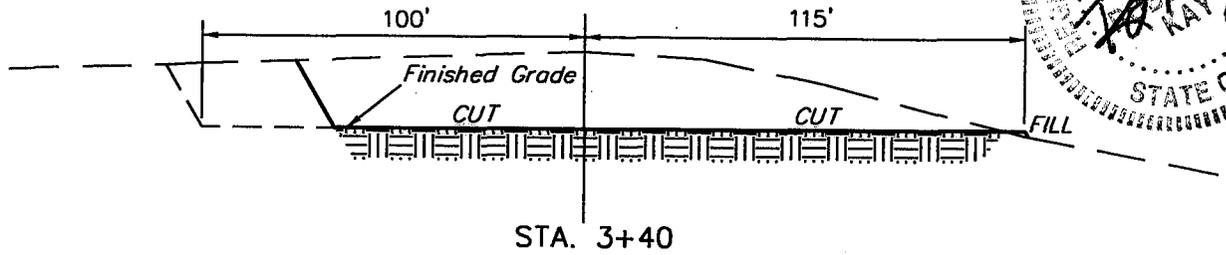
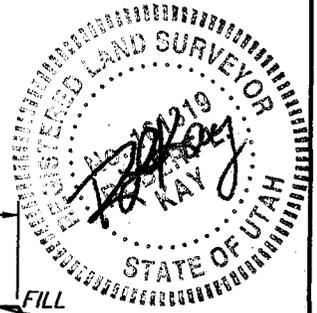
**ANADARKO PETROLEUM CORP.**

**TYPICAL CROSS SECTIONS FOR**

**CLAWSON SPRING SWD #3  
SECTION 6, T16S, R9E, S.L.B.&M.  
1268' FSL 673' FEL**

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

DATE: 7-26-00  
Drawn By: D.COX



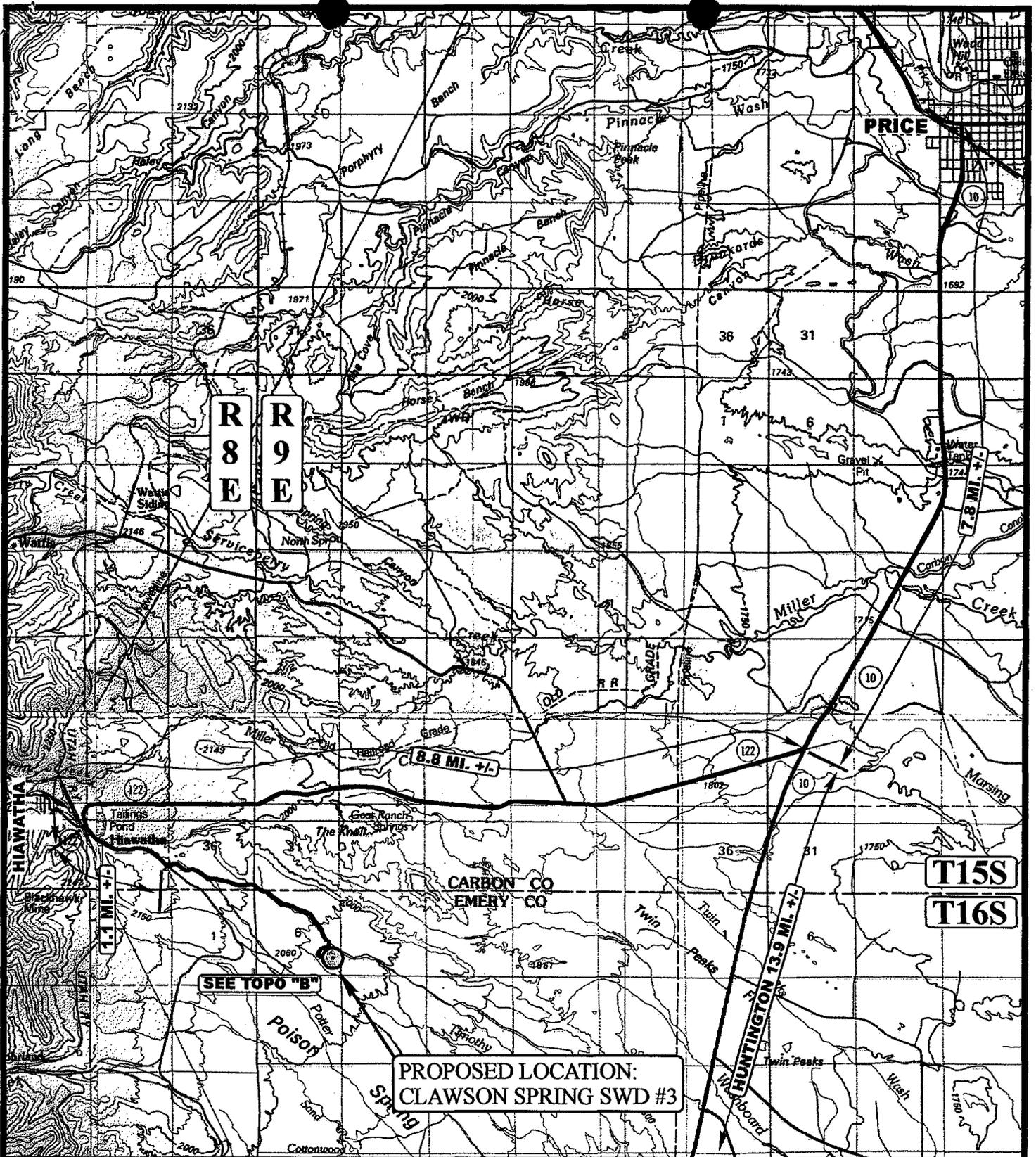
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**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,380 Cu. Yds.
Remaining Location	= 5,300 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 6,680 CU.YDS.</b>
<b>FILL</b>	<b>= 4,190 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,270 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,270 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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



**LEGEND:**

PROPOSED LOCATION



**ANADARKO PETROLEUM CORP.**

**CLAWSON SPRING SWD #3**  
**SECTION 6, T16S, R9E, S.L.B.&M.**  
**1268' FSL 672' FEL**



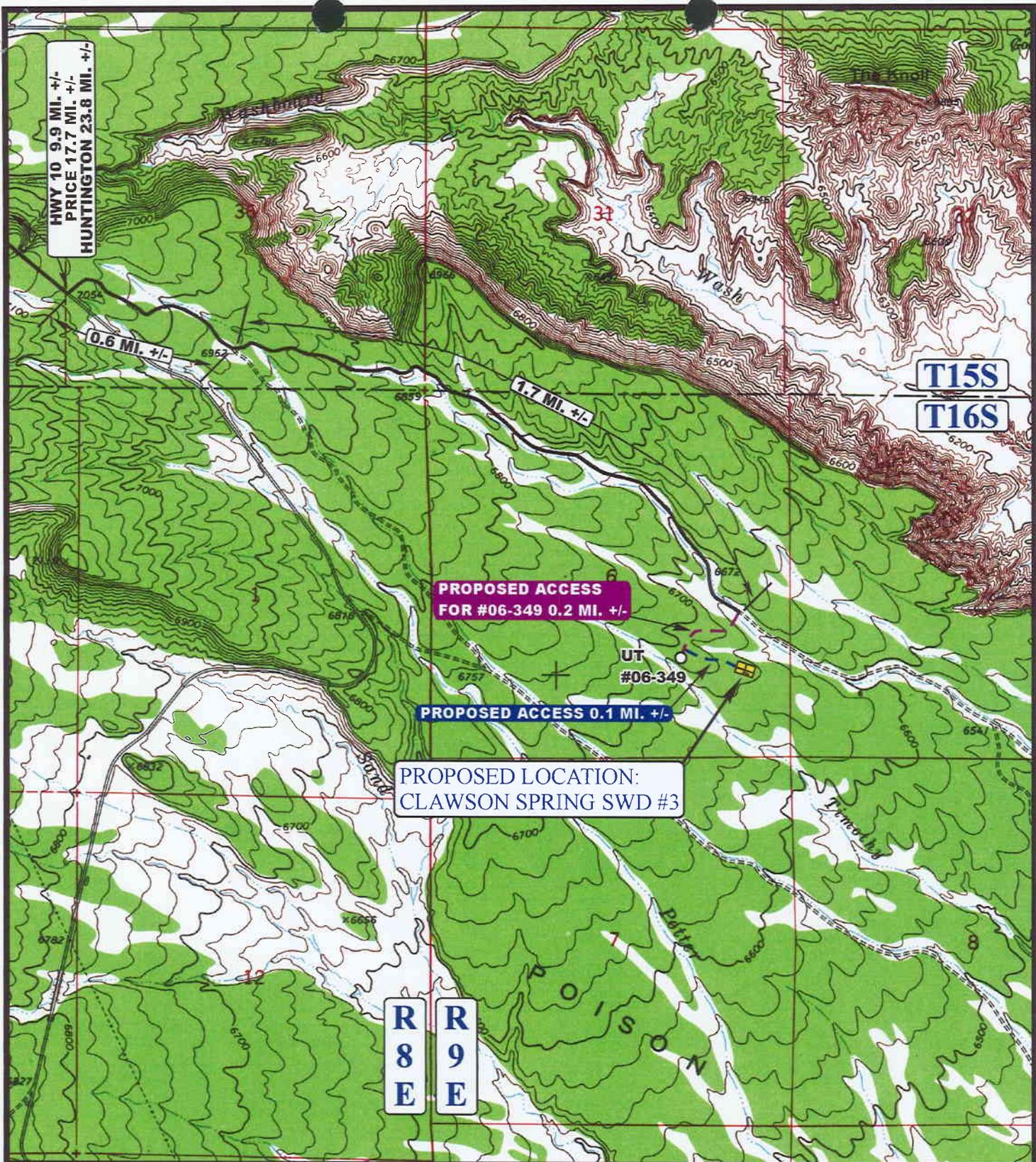
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**7 25 00**  
 MONTH DAY YEAR

SCALE: 1 : 100,000 DRAWN BY: J.L.G. REVISED: 00-00-00





HWY 10 9.9 MI. +/-  
 PRICE 17.7 MI. +/-  
 HUNTINGTON 23.8 MI. +/-

0.6 MI. +/-

1.7 MI. +/-

PROPOSED ACCESS  
 FOR #06-349 0.2 MI. +/-

PROPOSED ACCESS 0.1 MI. +/-

PROPOSED LOCATION:  
 CLAWSON SPRING SWD #3

UT  
 #06-349

R  
8  
E

R  
9  
E

T15S  
 T16S

**LEGEND:**

- - - - - PROPOSED ACCESS ROAD
- EXISTING ROAD

**ANADARKO PETROLEUM CORP.**

CLAWSON SPRING SWD #3  
 SECTION 6, T16S, R9E, S.L.B.&M.  
 1268' FSL 672' FEL



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

TOPOGRAPHIC MAP  
 7 25 00  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/11/2000

API NO. ASSIGNED: 43-015-30476

WELL NAME: CLAWSON SPRING ST SWD 3  
 OPERATOR: ANADARKO PETROLEUM CORP ( N0035 )  
 CONTACT: JUDY DAVIDSON

PHONE NUMBER: 281-875-1101

PROPOSED LOCATION:

SESE 06 160S 090E  
 SURFACE: 1268 FSL 0672 FEL  
 BOTTOM: 1268 FSL 0672 FEL  
 EMERY  
 UNDESIGNATED ( 2 )

LEASE TYPE: 3-State  
 LEASE NUMBER: ML-48220  
 SURFACE OWNER: 3-State

PROPOSED FORMATION: NAVA

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	RJK	9-21-00*
Geology		
Surface		

\* based on attached survey rec'd. by fox 9-21-00.

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Fed[] Ind[] Sta[3] Fee[]  
 (No. 203521 )  
 Potash (Y/N)  
 Oil Shale (Y/N) \*190 - 5 (B)  
 Water Permit  
 (No. PRWID )  
 RDCC Review (Y/N)  
 (Date: )  
 Fee Surf Agreement (Y/N)

LOCATION AND SITING:

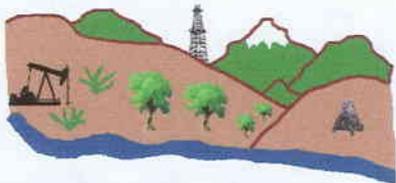
R649-2-3. Unit \_\_\_\_\_  
 R649-3-2. General  
 Siting: \*Water Dept.  
 ~~R649-3-3. Exception~~  
 Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_  
 R649-3-11. Directional Drill

COMMENTS: Need Presite. (Conducted 9-8-2000)

STIPULATIONS: ① Production casing cement shall cover the intermediate casing shoe a minimum of 200'.

② STATEMENT OF BASIS

③ INITIAL WATER CHEMISTRY AND FORMATION PRESSURE SHALL BE DETERMINED FOR THE PROPOSED INJECTION ZONE PRIOR TO COMPLETION.



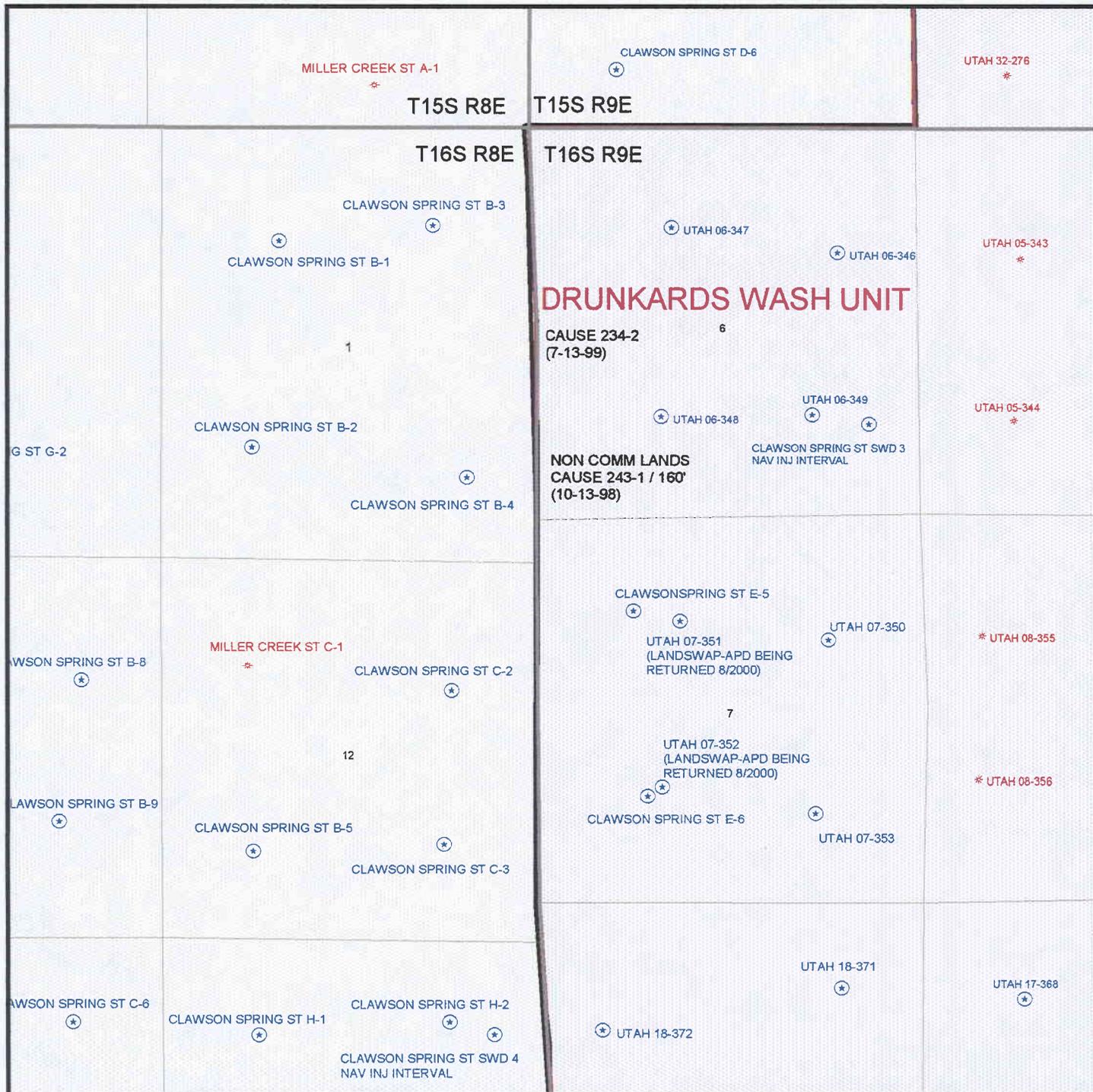
Utah Oil Gas and Mining

OPERATOR: ANADARKO PETRO CORP (N0035)

FIELD: UNDESIGNATED (002)

SEC. 6 & 7, T16S, R9E,

COUNTY: EMERY SPACING: 243-1 / 160'



ON-SITE PREDRILL EVALUATION  
Division of Oil, Gas and Mining

OPERATOR: Anadarko Petroleum Corporation  
WELL NAME & NUMBER: Clawson Springs State SWD #3  
API NUMBER: 43-015-30476  
LEASE: State FIELD/UNIT: Clawson Spring  
LOCATION: 1/4, 1/4 SE SE Sec: 6 TWP: 16S RNG: 9E 1268 FSL 672 FEL  
LEGAL WELL SITING: 460' From a Unit Boundary and/or uncommitted tracts.  
GPS COORD (UTM): X =504,409; Y =4,367,445 GPS 504,422 E 4,367,425 N  
SURFACE OWNER: SITLA

PARTICIPANTS

C. Kierst & M. Hebertson (DOGM), Jim Hartley (Anadarko) David Kaye & Brent Preece (UELS) Bryant Anderson (Emery County)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Western margin of Colorado Plateau/~3.25 miles east of the foot of the Wasatch Plateau. ~3.5 miles southeast of Hiawatha, UT and 3 3/4 miles northeast of Mohrland, UT. Location is on Poison Spring Bench ~3/4 mile southwest of the edge of 400' cliffs on the south side of the canyon which contains the Washboard Wash drainage; ~1 1/2 miles west of Coyote Spring. The pad is ~250' northeast of Timothy Wash on forested ground which generally slopes gently to the southeast. This location has been chained.

SURFACE USE PLAN

CURRENT SURFACE USE: Grazing and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 215' X 175' pad with 50' X 130' X 10' attached pit. ~528' of new access road is required.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 7 approved APD status wells and 7 CBM production locations.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Buried power line and gathering system follow approach road. Production facilities include a pumpjack, separator enclosure, casing and tubing strings, well head, telemetry equipment and transformer.

SOURCE OF CONSTRUCTION MATERIAL: Gravel location and approach road; soil stored in berm.

ANCILLARY FACILITIES: none

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. No crude oil is expected to be produced. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via a RGC-operated salt water disposal well. Used oil from drilling operations and support is hauled to a used oil re-cycler and re-used.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: None - The area is drained by Timothy Wash which eventually drains into the Price River ~15.5 miles to the east.

FLORA/FAUNA: Pinyon, juniper / birds, lizards, coyotes, rodents, raptors, elk and deer critical winter range, reptiles.

SOIL TYPE AND CHARACTERISTICS: Sandy, silty, moderately-permeable soil developed on Quaternary / Tertiary Pediment Mantle covering the Blue Gate Member of the Mancos Shale. (GP-SM-ML)

SURFACE FORMATION & CHARACTERISTICS: Quaternary / Tertiary Pediment Mantle over the upper portion of the Blue Gate Member (above the Emery Sandstone Member) of Mancos Shale, light gray, bentonitic shale and sandstone ledges.

EROSION/SEDIMENTATION/STABILITY: Stable.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Dugout, earthen pit.

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner.

SURFACE RESTORATION/RECLAMATION PLAN

See SITLA Surface Agreement.

SURFACE AGREEMENT: SITLA Surface Agreement.

CULTURAL RESOURCES/ARCHAEOLOGY: Archaeological survey completed and filed with the state.

OTHER OBSERVATIONS/COMMENTS

The placement of pipelines was discussed as Anadarko has expressed the desire to run cross country rather than follow the established road system and new access roads. Wildlife and STILA were invited to attend this on-site and elected not to or could not because of previous commitments. Several small drainages will be crossed all will be low water crossings.

ATTACHMENTS:

4 photographs taken.

K. Michael Hebertson  
DOGM REPRESENTATIVE

8/September/2000 / 11:15 AM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Scores  
For Reserve and Onsite Pit Liner Requirements**

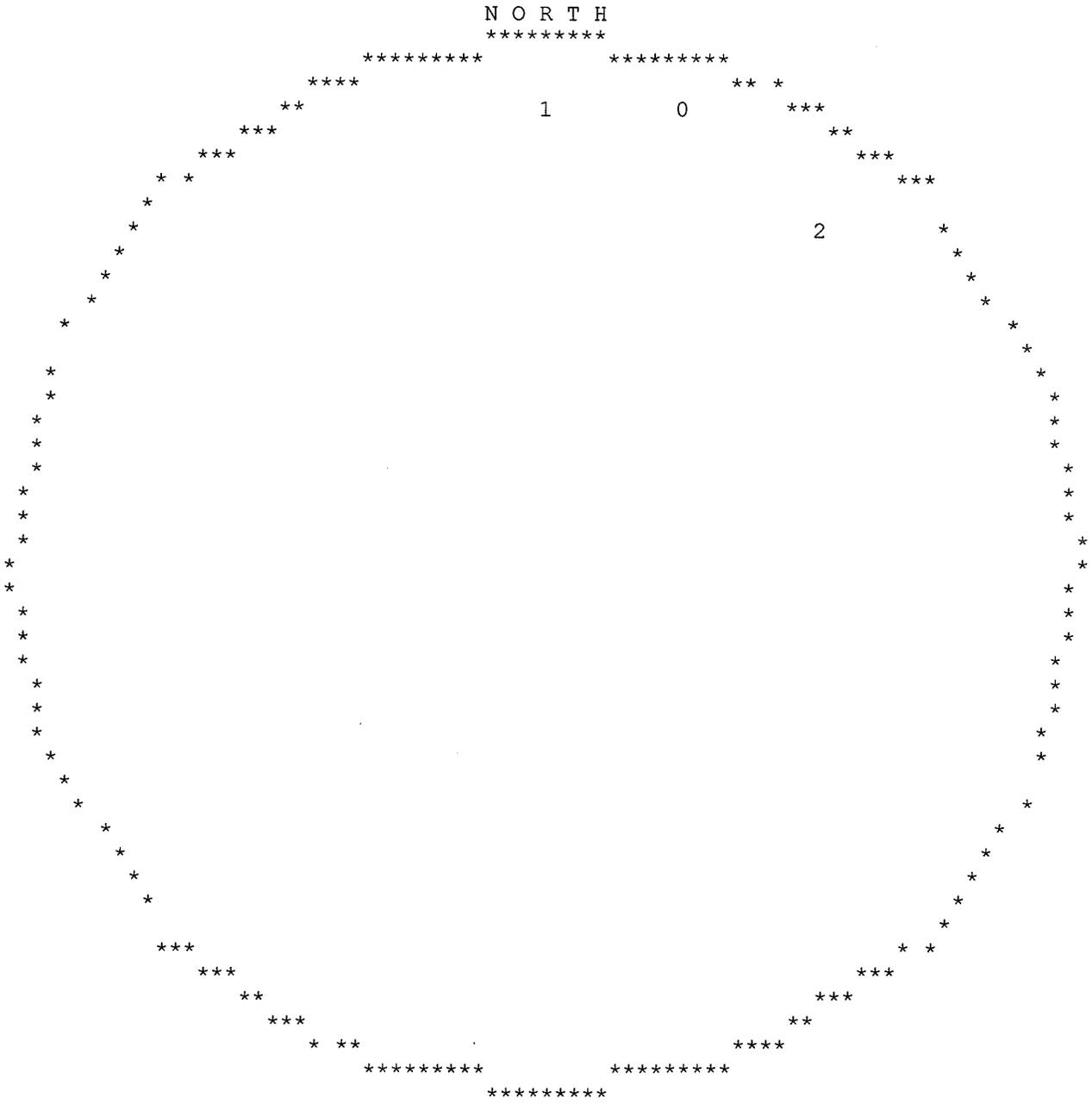
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>3</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>5</u>

**Final Score**                      23                      (Level II Sensitivity)

UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, SEP  
PLOT SHOWS LOCATION OF 3 POINTS OF DIV

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET  
N 1268 FEET, W 672 FEET OF THE SE CORNER,  
SECTION 6 TOWNSHIP 16S RANGE 9E SL BASE

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FE



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UTAH DIVISION OF WATER RIGHTS  
NWPLAT      POINT OF DIVERSION LOCATION PRO

---

MAP CHAR	WATER RIGHT	CFS	QUANTITY AND/OR	AC-FT	SOURCE DESCRIPTION DIAMETER	or WELL INFO DEPTH	POINT YEAR LOG NORTH	
0	<u>91 3164</u>	.0000		.00	Washboard Wash			
			WATER USE(S): STOCKWATERING					
			State of Utah School & Institutional Tru 675 East 500 South, 5th Floor					
1	<u>91 3764</u>	.0000		.00	Washboard Wash			
			WATER USE(S): STOCKWATERING					
			State of Utah School & Institutional Tru 675 East 500 South, Suite 500					
2	<u>91 3165</u>	.0000		.00	Washboard Wash			
			WATER USE(S): STOCKWATERING					
			State of Utah School & Institutional Tru 675 East 500 South, Suite 500					

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Anadarko Clawson Spring State SWD #3 API 43-015-30476 Sec 6, T16S, R9E, Emery, County



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WILDLIFE RESOURCES

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
John Kimball  
Division Director

Southeastern Region  
475 West Price River Drive, Suite C  
Price, Utah 84501-2860  
435-636-0260  
435-637-7361 (Fax)

9 September 2000

**Onsite Gas well Inspection - *Anadarko Corporation***

Clawson Springs State SWD#3: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed.

Clawson Springs State SWD#4: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed.

Clawson Springs State H-1: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed.

Clawson Springs State H-2: This area is within the big game winter range, therefore seasonal restrictions for construction and mitigation requirements should be followed.

Clawson Springs State E-5: The proposed well site is within ½ mile of two golden eagle nests; <1000' of #00-860 and <1600' of #00-857. These nests are within the same territory, and activity has alternated between nests, between years. It is our opinion that an exception could be granted to allow encroachment on these nests up to 1/4 mile, so long as the wells and their associated infrastructure are out of line of sight of the nest platforms. Due to the fact that these are tree nests low to the ground, we believe that they are more sensitive to disturbance than a nest high on a cliff escarpment. Therefore, we feel strongly that the wells and infrastructure not come within the 1/4 "exception" distance. Additionally, this area is within the big game winter range, therefore seasonal big game restrictions for construction and mitigation requirements should be followed.

Clawson Springs State E-6: The proposed well site is within ½ mile of two golden eagle nests; <1000' of #00-857 and <2000' of #00-860. These nests are within the same territory, and activity has alternated between nests, between years. It is our opinion that an exception could be granted to allow encroachment on these nests up to 1/4 mile, so long as the wells and their associated infrastructure are out of line of sight of the nest platforms. Due to the fact that these are tree nests low to the ground, we believe that they are more sensitive to disturbance than a nest high on a cliff escarpment. Therefore, we feel strongly that the wells and infrastructure not come within the 1/4 "exception" distance. Additionally, this area is within the big game winter range, therefore seasonal big game restrictions for construction and mitigation requirements should be followed.

Reviewer: *Chris Colt, Habitat Biologist (In office review)*  
c:DOGGM, Anadarko, USFWS, SITLA



**DIVISION OF OIL, GAS AND MINING**  
**APPLICATION FOR PERMIT TO DRILL**  
**STATEMENT OF BASIS**

**Operator Name:** Anadarko Petroleum Corporation

**Name & Number:** Clawson Spring SWD #3

**API Number:** 43-015-30476

**Location:** 1/4, 1/4 SE SE Sec. 6 T. 16S R. 9E County: Emery

**Geology/Ground Water:**

There are no aquifers with high quality ground water expected to be encountered. As a portion of the review process for this location a search of the Division of Water Rights records was conducted. The results of this search indicate that There are 6 points of diversion to the south and east of this location which may present a minor stock water resource however they will not be impacted. Coyote Spring (1 1/2 miles east) may present a minor stock water resource however it will not be impacted. A moderately - permeable soil is developed on the Quaternary / Tertiary Pediment Mantle covering the Blue Gate Member of the Mancos Shale. The Emery Sandstone Member of the Mancos Shale may be present at this location and may contain a minor water resource. The proposed surface casing and cementing program should be sufficient to ensure the protection of the ground water resources.

**Reviewer:** K. Michael Hebertson

**Date:** 13/September/2000

**Surface:**

The nearest moving surface waters are in Miller Creek and Cedar Creek (~2.25 miles north and ~2.25 miles southwest, respectively). Surface water may be found at Coyote Spring (~1 1/2 miles east) and Cottonwood Spring (~2 miles south). Precipitation will be deflected around the location with berms and culverts. There are no nearby culinary or irrigation water supply wells. The site was photographed and characterized on 1/28/2000. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway. Persons from Wildlife and SITLA were advised of this on-site review, and were invited to attend, however no one from either department was present.

**Reviewer:** K. Michael Hebertson

**Date:** 8/September/2000

**Conditions of Approval/Application for Permit to Drill:**

1. Low water crossings will be used at all the drainage crossings.
2. The location and pit are to be bermed on the top outside edge.
3. Minimum 12 mil synthetic pit liner is required.
4. Topsoil stockpiling is to be in a long low berm rather than a tall pile or heap.

FORM 9

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 purposes

5. Lease Designation and Serial Number  
**ML-48220**

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:  
**Clawson Spring  
State SWD -3**

9. API Well Number:

10. Field and Pool, or Wildcat  
**Clawson Spring CBM**

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

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

3. Address and Telephone Number.  
**17001 Northchase Dr., Houston, Texas 77060 (832) 601-3093**

4. Location of Well  
Footages: **1268 FSL & 672 FEL**  
QQ, Sec., T., R., M.: **Section 6, T16S, R9E**

County: **Emery**  
State: **UT**

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Approximate date work will start **Upon Approval**

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

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

\* Must be accompanied by a cement verification report.

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

Attached is the following:

Amended drilling plan with casing and cementing changes. Anadarko requests approval for the attached changes to the original drilling plan submitted 8/9/2000 as part of our original APD application.

Utah Oil & Gas Lease Bond 224351  
Utah Bond of Lessee 203521  
Water Source - City of Price Surface Owner: SITLA

13. Name & Signature: Joy L. Rector Title: Regulatory Coordinator Date: 09-20-00

(This space for State use only)

**APPROVED**

The Utah Division of Oil, Gas and Mining  
Robert J. Krueger, PE, Petroleum Engineer

(5/94)

Date: 9-21-00 (See Instructions on Reverse Side)



**Drilling Plan  
To Accompany Application for Permit to Drill**

**Well:** Clawson Springs State SWD-3 **Lease:** ML-48220  
**Location:** 1288' FSL & 672' FEL **Surface Elevation:** 6681'  
 T15S, R9E Section 6,  
 Carbon County, Utah

**A. Estimated Tops of Important Geologic Markers:**

Emery	Surface	Curtis	5671'
Bluegate Shale	2261'	Entrada	5811'
Ferron Sand	3361'	Carmel	6471'
Tununk Shale	3596'	Camel Anhy	6791'
Dakota Sand	3981'	Carmel Lime	69661'
Cedar Mtn.	4031'	Navajo	7178'
Buckhorn Cong.	4691'	Kayenta	7526'
Morrison	4771'	Wingate	7606'
Sumerville	5271'		

**B. Estimated Depth at which Water, Oil, Gas or other mineral bearing zones are expected to be encountered:**

Gas-bearing Ferron Sandstone Member is expected to be encountered from 3361' to 3981'.

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

**C. Pressure Control Equipment:**

An 11", 3000 psi WP double gate hydraulic BOP with pipe rams and blind rams will be installed on the 9 5/8" casinghead. In addition to the BOP stack, a rotating head will be installed on top of the BOP to assist in safe air drilling operations. The BOP stack will be tested prior to drilling below intermediate 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 on trips. A BOP schematic is shown on 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 with 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: 13 3/8", 48#, H40, STC new casing will be set at approximately 300'. (Hole size 17 1/2")  
 Intermediate Casing: 9 5/8", 40#, J-55, new casing will be set at approximately 4000' (Hole Size 12 1/4")  
 Production Casing: 7", 26#, N-80, LTC, new casing will be set at approximately 8300' (Hole size 8 3/2")

**Casing Design Factors:**

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

Collapse	1.0
Joint Strength	1.6
Burst	1.33

**E. Cement Program:**

Surface : Cement will be circulated to the surface. Casing will be cemented with approximately 420 cu. ft. (350 sxs., 15.6 ppg, 1.19 cf/sk of API Class "A" cement.

Intermediate: Cement will be raised to the surface casing using an API Class G cement lead volume of approximately 1740 c. ft. (450 sxs., 11.0 ppg, 3.84 cf/sk) and an API Class G tail cement volume of approximately 140 cu. ft. (123 sxs., 15.8 ppg, 1.15 cf/sk). Cement will be circulated to surface.

Production: Casing will be cemented back to intermediate 9 5/8" casing using API Class G cement and a DV stage cementing collar with a two stage cement job. The actual cement volumes and DV stage cementing tool placement will be based upon actual depth and gauge determined from open hole 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.

**F. Mud Program and Circulating Medium:**

A truck mounted air drilling rig will be used to drill the surface hole to 300' and to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole to TD.

An air or air/mist system will be used for drilling from below surface pipe at 300' to 4000'.

The hole will then be displaced with an 8.7 to 9.2 ppg Low Solids Non Dispersed mud. Bentonite gel will be the primary additive with minor additions of lime, caustic, soda ash, and polymer to control viscosity.

The mud/fluid system will be monitored visually and with a gas chromatograph detector.

**G. Coring, Logging and Testing Program:**

- a. The following logging program is planned:
1. SDL-GR-CAL over prospective intervals (300' to 8300')
  2. DIL-SP-GR-CAL over prospective intervals (4000' to 8300')
- b. A mud logging unit with chromatograph will be used from approximately 1000' to TD.
- c. After production casing is installed, a cement bond will be run to determine the top of cement. Productive zones will then be perforated and tested. Water produced during testing will be contained in the temporary reserve pit.

**H. Abnormal Conditions and Potential Hazards:**

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Potential hazards such as H<sub>2</sub>S are also not anticipated.

(drilling pin SWD utah.doc)

### Utah Distribution Sheet

From: Joy Rector - Rm 228 Ext. 3093

Please Copy and Distribute as indicated below:

Fed Ex = Overnite Mail

Reg = Postal Mail

IO = Inter-office Mail

Fax = Send copy via fax #

Need Completed by: 9/21

*orig + 2 copies FedEx*

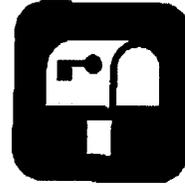
State of Utah  
Division Of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-6801  
Attn:  
Jim Thompson 801-538-5336 Office  
801-359-3940 Fax  
Lisha Cordova 801-538-5296

- Dave Kapple - Drilling
- Keith Buck - Geology
- Mike Chambers - Prod Engineering
- Lloyd Stutz - Prod Engineering
- Patrick Smith - Landman
- Jim Hartley - APC - Price Utah Office  
(435) 637-3837 Fax
- Greg Strickland - UPR-Rock Sprgs Wyo Office
- \_\_\_\_\_
- Joy Rector - Rm 228
- TRC - B-08
- Copy to Reg Well File
- \_\_\_\_\_
- River Gas Corporation

Jean Semborski  
435-613-9777 Office  
435-613-9782 Fax

Utah Distribution.xls

From the Desk of:  
Joy L. Rector  
Anadarko/UPR Petroleum Corporation  
17001 Northchase Drive  
Houston, Texas 77060



*under Repair*

Office: (832) 601-3093  
Fax #: (281) 876-8650

To: Bob Kueger

*281-874-8873*  
*↓*  
*sect'y #*

VIA: FAX #: 801-359-3940

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Well name:	<b>9-00 Anadarko SWD 3</b>	
Operator:	<b>Anadarko</b>	Project ID:
String type:	<b>Surface</b>	43-015-30476
Location:	<b>Carbon County</b>	

**Design parameters:**

**Collapse**  
Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Burst**  
Max anticipated surface pressure: 0 psi  
Internal gradient: 0.433 psi/ft  
Calculated BHP: 130 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**  
Design factor: 1.125

**Burst:**  
Design factor: 1.00

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 263 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 79 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 300 ft

Cement top: 0 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,500 ft  
Next mud weight: 8.330 ppg  
Next setting BHP: 3,245 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,865 ft  
Injection pressure: 3,865 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	300	13.375	48.00	H-40	ST&C	300	300	12.59	28.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	130	740	5.70	130	1730	13.34	13	322	25.48 J

Prepared RJK  
by: Utah Dept. of Natural Resources

Date: September 21, 2000  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Production csg. cement top shall cover int. csg. shoe a min. of 200'.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.  
Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>9-00 Anadarko SWD 3</b>	
Operator:	<b>Anadarko</b>	Project ID:
String type:	Intermediate	43-015-30476
Location:	Carbon County	

**Design parameters:**

**Collapse**  
 Mud weight: 8.330 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
 Design factor 1.125

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 131 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

**Burst**

Max anticipated surface pressure: 0 psi  
 Internal gradient: 0.433 psi/ft  
 Calculated BHP 1,731 psi

No backup mud specified.

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 3,504 ft

Cement top: Surface

Non-directional string.

**Re subsequent strings:**

Next setting depth: 8,050 ft  
 Next mud weight: 8.330 ppg  
 Next setting BHP: 3,483 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 8,050 ft  
 Injection pressure 8,050 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	4000	9.625	40.00	J-55	LT&C	4000	4000	8.75	318.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1731	2570	1.48	1731	3950	2.28	140	520	3.71 J

Prepared RJK  
 by: Utah Dept. of Natural Resources

Date: September 21,2000  
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: Production csg. cement top shall cover int. csg. shoe a min. of 200'.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 4000 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>9-00 Anadarko SWD 3</b>	
Operator:	<b>Anadarko</b>	Project ID:
String type:	<b>Production</b>	43-015-30476
Location:	<b>Carbon County</b>	

**Design parameters:**

**Collapse**  
Mud weight: 9.200 ppg  
Design is based on evacuated pipe.

**Burst**  
Max anticipated surface pressure: 0 psi  
Internal gradient: 0.478 psi/ft  
Calculated BHP: 3,967 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**  
Design factor: 1.125

**Burst:**  
Design factor: 1.00

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 7,148 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 191 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 368 ft

Cement top: 4,135 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8300	7	26.00	N-80	LT&C	8300	8300	6.151	435.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3967	5410	1.36	3967	7240	1.83	186	519	2.79 J

Prepared RJK  
by: Utah Dept. of Natural Resources

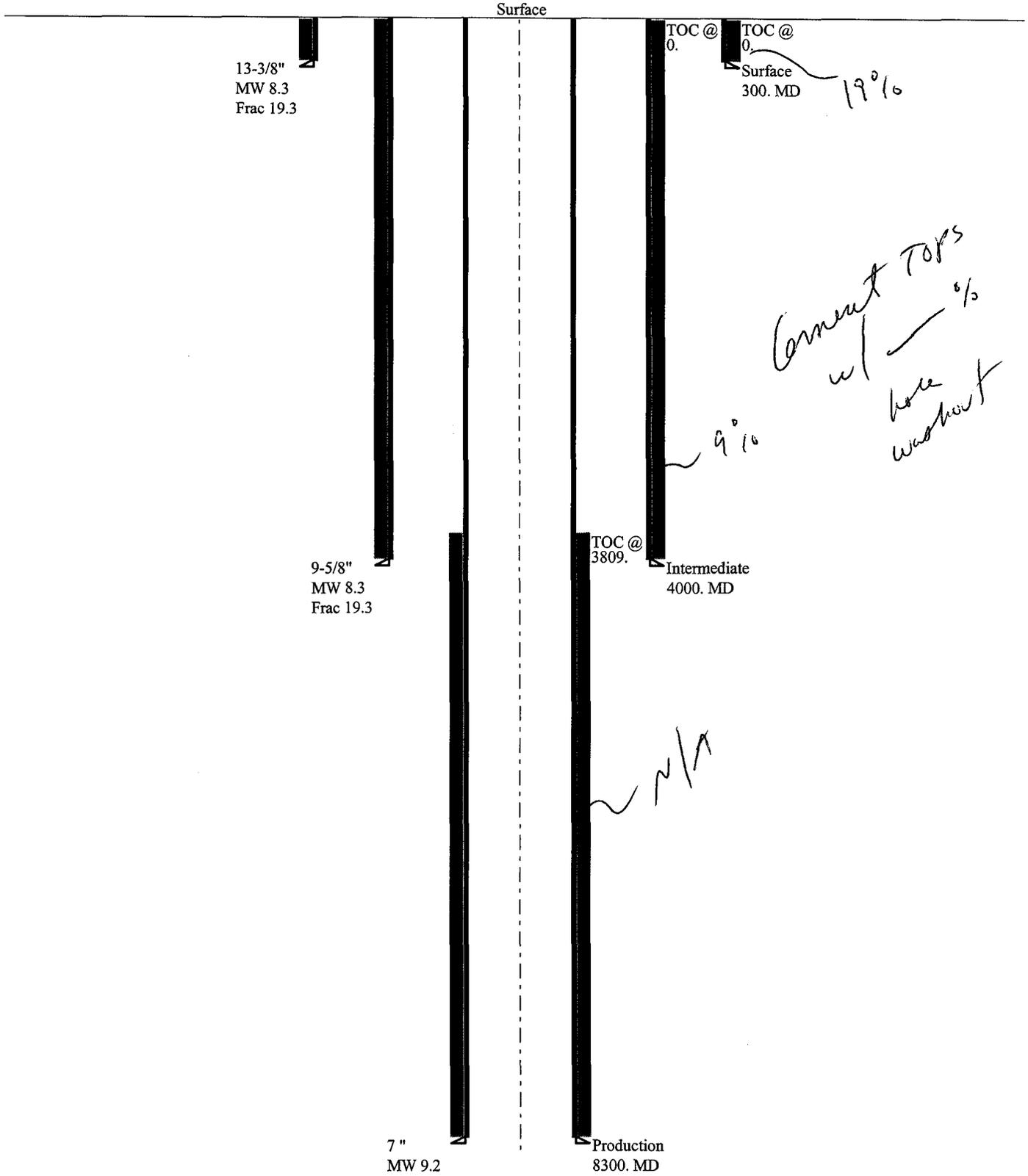
Date: September 21,2000  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Production csg. cement top shall cover int. csg. shoe a min. of 200'.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
Collapse is based on a vertical depth of 8300 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes.  
Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# 9-00 Anadarko SWD 3

## Casing Schematic





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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

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

September 25, 2000

Anadarko Petroleum Corporation  
17001 Northchase Drive  
Houston, TX 77060

Re: Clawson Spring State SWD-3 Well, 1268' FSL, 672' FEL, SE SE, Sec. 6, T. 16 South,  
R. 9 East, Emery 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 43-015-30476.

Sincerely,

John R. Baza  
Associate Director

er

Enclosures

cc: Emery County Assessor  
SITLA

**Operator:** Anadarko Petroleum Corporation

**Well Name & Number** Clawson Spring State SWD-3

**API Number:** 43-015-30476

**Lease:** ML-48220

**Location:** SE SE                      **Sec.** 6                      **T.** 16 South                      **R.** 9 East

**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**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Robert Krueger at (801) 538-5274 (plugging)
- Carol Daniels at (801) 538-5284 (spud)

**3. Reporting Requirements**

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

**4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.**

**5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

**6. Production casing cement shall cover the intermediate casing show a minimum of 200 feet.**

**7. Initial water chemistry and formation pressure shall be determined for the proposed injection zone prior to completion.**

SPUDDING INFORMATION

Name of Company: ANADARKO PETROLEUM CORP

Well Name: CLAWSON SPRING ST SWD 3

Api No. 43-015-30476 LEASE TYPE: STATE

Section 06 Township 16S Range 09E County EMERY

Drilling Contractor BOB BEAMAN DRILLING RIG # 26

SPUDDED:

Date 10/09/2000

Time 10:00 AM

How DRY

Drilling will commence \_\_\_\_\_

Reported by GARY VANCIL

Telephone # 1-435-260-2078

Date 10/10/2000 Signed: CHD

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <p align="right">FEE</p>
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 OR DEEPEN form for such purposes.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <p align="center">N/A</p>
1. TYPE OF WELL    OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: <u>Coalbed Methane</u>		7. UNIT or CA AGREEMENT NAME: <p align="center">N/A</p>
2. NAME OF OPERATOR: <u>Anadarko Petroleum Corporation</u>		8. WELL NAME and NUMBER: <u>Clawson Spring State IPA-1</u>
3. ADDRESS OF OPERATOR: <u>17001 Northchase Dr., Houston, Texas 77060</u>		9. API NUMBER: <p align="right"><u>43-015-30468</u></p>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>558' FSL &amp; 871' FEL</u> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SE Section 10 T16S R8E</u>		10. FIELD AND POOL, OR WILDCAT: <u>Clawson Spring CBM</u>  COUNTY: <u>Emery</u> STATE: <u>UTAH</u>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start:  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REFERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <u>Status 11/10/00</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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 checked="" type="checkbox"/> OTHER <u>Status Report</u>
	<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.)

Please see current Well History Report attached.

**RECEIVED**

NOV 16 2000

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>Jennifer Berlin</u>	TITLE <u>Environmental/Regulatory Analyst</u>
SIGNATURE	DATE <u>November 15, 2000</u>

(This space for State use only)

ANADARKO PETROLEUM CORPORATION  
WELL HISTORY  
ONSHORE - U.S.

CLAWSON SPRINGS IPA #1, CLAWSON SPRINGS FIELD, 558' FSL & 871' FEL, SEC 10-16S-8E, EMERY CO., UTAH, WI 1.0, NRI 0.875, AFE #20446 ETD 4321', GLE 7096', ELLENBURG RIG #15, API # 43-015-30468

**FIRST REPORT**

11/08/00 1550' (1230') **DRILLING**, MW - AIR  
DFS 01 MIRU 11/07/00, NU BOPE, TEST BOPE TO 250 LOW/ 2000 HIGH, TIH W/ BIT, DO FLOAT EQUIP, SPUD NEW HOLE @ 14:30 HRS 11/07/00, PREVIOUSLY SET 310' OF 8 5/8" 24# CSG AND CMTD W/ 126 SXS CLASS G, LAST SURVEY @ 1331' -3°  
CC: \$53,222

11/09/00 4020' (2470') **DRILLING**, MW - AIR  
DFS 02 LAST SURVEY @ 2837' -2.75°  
CC: \$86,759

11/10/00 4375' (355') **RELEASED RIG**  
DFS 03 TD @ 11:00 HRS 11/09/00, BLOW HOLE CLEAN, LOAD HOLE W/ PROD WTR, TOH LDDP RAN LOGS, RAN 103 JNTS 5 1/2" 17# N80 CSG, SET @ 4370, BLOW HOLE DRY, CMT W/ 110 SXS CLASS G RFC, MIXED @ 14.2 PPG, PLUG BMPD, FLOATS HELD, ND BOPE, SET SLIPS, CO CSG, **RELEASED RIG @ 04:00 HRS 11/10/00, TEMPORARILY DROP FROM REPORT, SI WO COMPL.**  
CC: \$135,852

**RECEIVED**

NOV 16 2000

DIVISION OF  
OIL, GAS AND MINING

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <p style="text-align: right;">ML-48220</p>
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 OR DEEPEN form for such purposes		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <p style="text-align: center;">N/A</p>
1. TYPE OF WELL    OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: <u>Coalbed Methane</u>		7. UNIT or CA AGREEMENT NAME: <p style="text-align: center;">N/A</p>
2. NAME OF OPERATOR: <u>Anadarko Petroleum Corporation</u>		8. WELL NAME and NUMBER: <u>Clawson Spring State SWD-3</u>
3. ADDRESS OF OPERATOR: <u>17001 Northchase Dr., Houston, Texas 77060</u>		9. API NUMBER: <p style="text-align: right;">43-015-30476</p>
PHONE NUMBER: <u>281-874-3441</u>		10. FIELD AND POOL, OR WILDCAT: <u>Clawson Spring CBM</u>

4. LOCATION OF WELL

FOOTAGES AT SURFACE: <u>1268' FSL &amp; 672' FEL</u>	COUNTY: <u>Emery</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SE Section 6 T16S R9E</u>	STATE: <u>UTAH</u>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start:  <hr/>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REFERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <u>Status 10/15/00</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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 checked="" type="checkbox"/> OTHER <u>Status Report</u>
	<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.)

Please see current Well History Report attached.

RECEIVED

NOV 16 2000

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>Jennifer Berlin</u>	TITLE <u>Environmental/Regulatory Analyst</u>
SIGNATURE	DATE <u>November 15, 2000</u>

(This space for State use only)

ANADARKO PETROLEUM CORPORATION  
WELL HISTORY  
ONSHORE - U.S.

CLAWSON SPRINGS SWD #3, CLAWSON SPRINGS FIELD, 1268' FSL & 673' FEL, SEC 6-16S-9E, EMERY CO., UTAH, WI 1.0, AFE #20523, ETD 8300', GLE 6681', BEEMAN, API # 43-015-30

**FIRST REPORT**

10/10/00 140' (140') TOH, MW-AIR  
DFS 01 **SPUD @ 12:00 HRS 10/09/00**, DRILL 17 1/2" HOLE TO 110', TWIST OFF DP, REC W/ OS, DRILL TO 140'  
CC: \$13,665

10/11/00 140' (140') **RUNNING COND PIPE**, MW-AIR  
DFS 02 REAMED 25" HOLE TO 80', RUNNING 20' CON PIPE  
CC: \$15,665

10/12/00 140' (0') **WOC**, MW-AIR  
DFS 03 RAN COND PIPE TO 20', SET DOWN ON BOULDER, TOH, REAMED HOLE TO TD, TOH, RAN 20" COND PIPE TO 80' AND CEMENTED.  
CC: \$52,665

10/13/00 140' (0') **WOC**, MW-AIR  
DFS 04 WOC, TIH W/ 17 1/2" BIT, PREP TO CO TO TD  
CC: \$53,710

10/14/00 240' (100') **DRILLING**, MW-AIR  
DFS 05 DO FLOAT EQUIP AND CMT, DRILL AHEAD TO 240'  
CC: \$60,210

10/15/00 330' (90') **RELEASED RIG**  
DFS 06 DRLD TO 330', RAN 7 JNTS 13 3/8" 48# N80, SET @ 330', CMTS W/ 390 SXS CLASS G, MIXED @ 15.8 PPG, CIRC TO SURF, BMPD PLUG, FLOATS HELD, **RELEASED RIG, TEMPORARILY DROP FROM REPORT, SI WO CYCLONE #7**  
CC: \$81,412

**RECEIVED**

NOV 16 2000

DIVISION OF  
OIL, GAS AND MINING

# RECEIVED

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

FORM 6

DEC 11 2000

## DIVISION OF OIL, GAS AND MINING ENTITY ACTION FORM

Operator: Anadarko Petroleum Corporation  
Address: 17001 Northchase Drive  
city Houston  
state TX zip 77060

Operator Account Number: 0035  
N 14507-0  
Phone Number: (281) 874-3441

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301530392	Clawson Springs State E-6		SENE	7	16S	9E	Emery
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	12960	11/13/00		11-13-00		
Comments: <u>11-20-00</u> <b>CONFIDENTIAL</b>							

Well 2

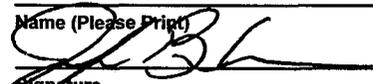
API Number	Well Name		QQ	Sec	Twp	Rng	County
43-015-30476	Clawson Springs State SWD 3		SESE	6	16S	9E	Emery
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	12978	10/9/00		10-9-00		
Comments: <u>12-11-00</u> <b>CONFIDENTIAL</b>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-015-30477	Clawson Springs State SWD 4		NENE	13	16S	8E	Emery
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	12979	9/20/00		9-20-00		
Comments: <u>12-11-00</u> <b>CONFIDENTIAL</b>							

ACTION CODES:

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

Jennifer Berlin  
Name (Please Print)  
  
Signature  
Environmental Regulatory Analyst  
Title  
12/4/2000  
Date

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-48220**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
**N/A**

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 OR DEEPEN form for such purposes

7. UNIT or CA AGREEMENT NAME:  
**N/A**

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER: **Coalbed Methane**

8. WELL NAME and NUMBER:  
**CLAWSON SPRING STATE SWD-3**

2. NAME OF OPERATOR:  
**ANADARKO PETROLEUM CORPORATION**

9. API NUMBER:  
**43-015-30476**

3. ADDRESS OF OPERATOR:  
**P.O. BOX 1330 HOUSTON, TEXAS 77251**

PHONE NUMBER:  
**832-636-4826**

10. FIELD AND POOL, OR WILDCAT:  
**CLAWSON SPRING CBM**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE:  
**1268' FSL & 672' FEL**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SE SEC 6 T16S R9E**

COUNTY:  
**EMERY**  
STATE:  
**UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <b>UPON APPROVAL</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REFERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" 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 checked="" 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.)

**ANADARKO PETROLEUM CORP. REQUESTS APPROVAL TO PLUG AND ABANDON THE CLAWSON SPRING STATE SWD-3 BY SETTING A 100' CEMENT PLUG IN THE TOP. THE WELL HAS 13 3/8 CSG SET @ 300' AND WAS NOT DRILLED TO TOTAL DEPTH.**

**RECLAIM LOCATION BACK TO NATURAL CONTOUR AND RE-SEED WITH STATE APPROVED SEED MIX.**

NAME (PLEASE PRINT) **CARI VAUGHN**

TITLE **ENV/REG ANALYST**

SIGNATURE *Cari Vaughn*

DATE **11/3/03**

**RECEIVED**

(This space for State use only)

**OCT 30 2003**

**DIV. OF OIL, GAS & MINING**

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER Water disposal

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**Fee**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**N/A**

7. UNIT or CA AGREEMENT NAME  
**N/A**

8. WELL NAME and NUMBER:  
**Clawson Springs ST SWD #3**

2. NAME OF OPERATOR:  
**Anadarko Petroleum Corporation**

9. API NUMBER:  
**4301530476**

3. ADDRESS OF OPERATOR:  
**17001 Northchase Drive CITY Houston STATE TX ZIP 77251**

PHONE NUMBER:  
**(832) 636-3315**

10 FIELD AND POOL, OR WILDCAT  
**Drunkards Wash**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **1268' FSL x 673 FEL**  
  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
  
AT TOTAL DEPTH: **Same As Above**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SESE 6 16S 9E**

12. COUNTY **Emery** 13. STATE **UTAH**

14. DATE SPUNDED: **10/9/2000** 15. DATE T.D. REACHED: \_\_\_\_\_ 16. DATE COMPLETED: **11-10-2000** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**6681 GL**

18. TOTAL DEPTH: MD **330** TVD \_\_\_\_\_

19. PLUG BACK T.D.: MD \_\_\_\_\_ TVD \_\_\_\_\_

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
**n/a**

21. DEPTH BRIDGE PLUG SET: MD \_\_\_\_\_ TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**N/A**

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4	13 3/4 N80	48#		330		Class G 390			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a								

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) n/a				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
n/a	

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

30. WELL STATUS:  
**TA**  
**RECEIVED**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

N/A

33. SUMMARY OF POROUS ZONES (include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (include plugging procedure)

This well has not been completed.

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

NAME (PLEASE PRINT) Kristina Lee TITLE Agent for Anadarko (303) 423-5749  
 SIGNATURE *Kristina Lee* DATE 10/29/03

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
 Fax: 801-359-3940

FORM 9

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

6. LEASE DESIGNATION AND SERIAL NUMBER: **ML-48220**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: **N/A**

7. UNIT or GA AGREEMENT NAME: **N/A**

8. WELL NAME and NUMBER: **CLAWSON SPRING STATE SWD-3**

9. API NUMBER: **43-015-30476**

10. FIELD AND POOL, OR WILDCAT: **CLAWSON SPRING CBM**

**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 OR DEEPEN form for such purposes.

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER: Coalbed Methane

2. NAME OF OPERATOR: **ANADARKO PETROLEUM CORPORATION** **CONFIDENTIAL**

3. ADDRESS OF OPERATOR: **P.O. BOX 1330 HOUSTON, TEXAS 77251** PHONE NUMBER: **832-636-4826**

4. LOCATION OF WELL COUNTY: **EMERY**  
 FOOTAGES AT SURFACE: **1268' FSL & 672' FEL** STATE: **UTAH**  
 QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SE SEC 6 T16S R9E**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>UPON APPROVAL</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 type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" 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 checked="" 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.)

ANADARKO PETROLEUM CORP. REQUESTS APPROVAL TO PLUG AND ABANDON THE CLAWSON SPRING STATE SWD-3 BY SETTING 100' CEMENT PLUG IN THE TOP. THE WELL HAS 13 3/8 CSG SET @ 300' AND WAS NOT DRILLED TO TOTAL DEPTH.

RECLAIM LOCATION BACK TO NATURAL CONTOUR AND RE-SEED WITH STATE APPROVED SEED MIX.

COPY SENT TO OPERATOR  
 Date: 11-4-03  
 Initials: CHO

NAME (PLEASE PRINT) CARI VAUGHN TITLE ENV/REG ANALYST  
 SIGNATURE Cari Vaughn DATE 11/3/03

(This space for State use only)

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

DATE: 11/4/03  
 BY: [Signature] (See Instructions on Reverse Side)

\* Conditions of Approval Attached

RECEIVED

NOV 04 2003

DIV. OF OIL, GAS & MINING



State of Utah

Department of  
Natural Resources

Division of  
Oil, Gas & Mining

ROBERT L. MORGAN  
*Executive Director*

LOWELL P. BRAXTON  
*Division Director*

MICHAEL O. LEAVITT  
*Governor*

OLENE S. WALKER  
*Lieutenant Governor*

## **CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL**

Well Name and Number: Clawson Spring State SWD-3  
API Number: 43-015-30476  
Operator: Anadarko Petroleum Corporation  
Reference Document: Original Sundry Notice dated November 3, 2003,  
received by DOGM on November 4, 2003

### Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Mark Jones at 435-820-8504.
2. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.
3. A Well Completion Report (Form 8) along with a Subsequent Sundry Notice (Form 9) of P&A work should be submitted upon completion of work.
4. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
5. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
6. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet  
Petroleum Engineer

November 4, 2003

Date

CONFIDENTIAL

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

AMENDED REPORT  FORM 8  
(highlight changes)

**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  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-48220**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**CLAWSON SPRING STATE SWD-3**

2. NAME OF OPERATOR  
**ANADARKO PETROLEUM CORPORATION**

9. API NUMBER:  
**43-015-30476**

3. ADDRESS OF OPERATOR  
**P.O. BOX 1330 HOUSTON, TEXAS 77251**

PHONE NUMBER:  
**832-636-4826**

10. FIELD AND POOL, OR WILDCAT

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE:  
**1268' FSL & 672' FEL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
**SAME**  
AT TOTAL DEPTH: **SAME**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SE OF SEC 6 T16S R9E**

12. COUNTY **EMERY** 13. STATE **UTAH**

14. DATE SPUNDED **10/10/00** 15. DATE T.D. REACHED **10/15/00** 16. DATE COMPLETED: **11/07/03**

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RK13, RT, GL):

18. TOTAL DEPTH: MD **330** TVD **330** 19. PLUG. BACK T.D.: MD **-** TVD **-**

20. IF MULTIPLE COMPLETIONS, HOW MANY?  
**N/A**

21. DEPTH BRIDGE MD **NONE** TVD \_\_\_\_\_  
PLUG SET: \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**NO LOGS RAN**

23. WAS WELL CORED? NO  YES  (Submit analysis)  
Drill System Test NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2	20	-	0	80		CONDUCTOR		-	-
17 1/2	13 3/8	48#	0	330		390 SXS		SURFACE	NONE

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE								

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
NONE				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

**RECEIVED**  
**NOV 12 2003**

**29. ENCLOSED ATTACHMENTS:**

**30. WELL STATUS:**

- ELECTRICAL/MECHANICAL LOGS
- SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
- GEOLOGIC REPORT
- CORE ANALYSIS
- DST REPORT
- OTHER: \_\_\_\_\_
- DIRECTIONAL SURVEY

**DIV. OF OIL, GAS & MINING**

**P&A**

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL B (As shown in item)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

NAME (PLEASE PRINT) CARI VAUGHN TITLE ENV/REGULATORY ANALYST  
 SIGNATURE *Cari Vaughn* DATE 11/10/03

This report must be submitted within 30 days of  
 ! completing or plugging a new well  
 ! drilling horizontal laterals from an existing well bore  
 ! recompleting to a different producing formation  
 ! reentering a previously plugged and abandoned well  
 ! significantly deepening an existing well bore below the previous bottom-hole depth  
 ! drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from tow or more formations.

\*\*ITEM24: Cement Top-Show how reported top(s) of cement were determined (circulated(CIR), calculated(CAL), cement bond log(CBL), temperature survey(TS))

Sent to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
 Fax: 801-359-3940

**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 OR DEEPEN form for such purposes

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: <u>Coalbed Methane</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-48220</b>
2. NAME OF OPERATOR: <b>ANADARKO PETROLEUM CORPORATION</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
3. ADDRESS OF OPERATOR: <b>P.O. BOX 1330 HOUSTON, TEXAS 77251</b>		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
PHONE NUMBER: <b>832-636-4826</b>		8. WELL NAME and NUMBER: <b>CLAWSON SPRING STATE SWD-3</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1268' FSL &amp; 672' FEL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SE SEC 6 T16S R9E</b>		9. API NUMBER: <b>43-015-30476</b>
COUNTY: <b>EMERY</b>		10. FIELD AND POOL, OR WILDCAT: <b>CLAWSON SPRING CBM</b>
STATE: <b>UTAH</b>		

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: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REFERFORATE CURRENT FORMATION
	<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 type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>11/07/03</b>	<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.)

**ANADARKO PETROLEUM CORP. PLUGGED AND ABANDONED THE CLAWSON SPRING STATE SWD-3 BY PUMPING A 100' CEMENT PLUG IN THE TOP. THE WELL HAS 13 3/8 CSG SET @ 330' AND WAS NOT DRILLED TO TOTAL DEPTH.**

*1-CHD*  
*2-STOP*  
*3-2014*

RECEIVED  
NOV 12 2003  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>CARI VAUGHN</u>	TITLE <u>ENV/REG ANALYST</u>
SIGNATURE <u><i>Cari Vaughn</i></u>	DATE <u>11/10/03</u>

(This space for State use only)

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

**ROUTING**  
 CDW

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

Operator Name Change/Merger

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

4/1/2013

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

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

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

**DATA ENTRY:**

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

**BOND VERIFICATION:**

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (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 <u>Jaime Scharnowske</u>	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 1<sup>st</sup> April-2013

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

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

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

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

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

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

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

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

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

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

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

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