



COCKRELL OIL
CORPORATION

1600 SMITH • SUITE 4600 • HOUSTON, TEXAS 77002-7348
TELEPHONE 713/651-1271

May 31, 1991

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

Re: Application for Permit to Drill
1210-0806 Well No. 1
Carbon County, Utah

Gentlemen:

Enclosed please find two copies of the Application for Permit to Drill
for the above referenced well in Carbon County, Utah.

If you have any questions regarding the above, please call me at
(713) 750-9309.

Very truly yours,


B. E. Weichman
Geologist

BEW:ys
Enclosures

RECEIVED

JUN 03 1991

DIVISION OF
OIL GAS & MINING

001

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Cockrell Oil Corporation

3. ADDRESS OF OPERATOR
 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1769
 2400' FNL, 1169' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Section 8, T12S, R10E
 At proposed prod. zone
 Same As Above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately Eight (8) Miles North/Northeast of Helper, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1169'

16. NO. OF ACRES IN LEASE
 2473.31

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2559.66'

19. PROPOSED DEPTH
 5400'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7378' GR

22. APPROX. DATE WORK WILL START*
 September 15, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" WC-50	23.0#	0- 400'	320 sx Circulated to Surface *
7-7/8"	5-1/2" WC-70	17.0#	0-5400'	460 sx Cement

RECEIVED

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

JUN 03 1991

EIGHT-POINT RESOURCE PROTECTION PLAN ATTACHED.

DIVISION OF
OIL GAS & MINING

I hereby certify that Cockrell Oil Corporation is authorized by the proper Lease Interest Owners to conduct lease operations associated with this Application for Permit to Drill the 1210-0806 #1, Federal Lease # UTU-65948. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Cockrell Oil Corporation, Statewide Bond # UT-0794, who will be responsible for compliance with all the terms and conditions of that portion of the lease associated with this Application for Permit to Drill.

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

24. SIGNED Felder Hollenshead TITLE Vice-President DATE May 14, 1991
 (This space for Federal or State office use)

PERMIT NO. 43 007-30140 APPROVAL DATE _____
 APPROVED BY _____ TITLE _____

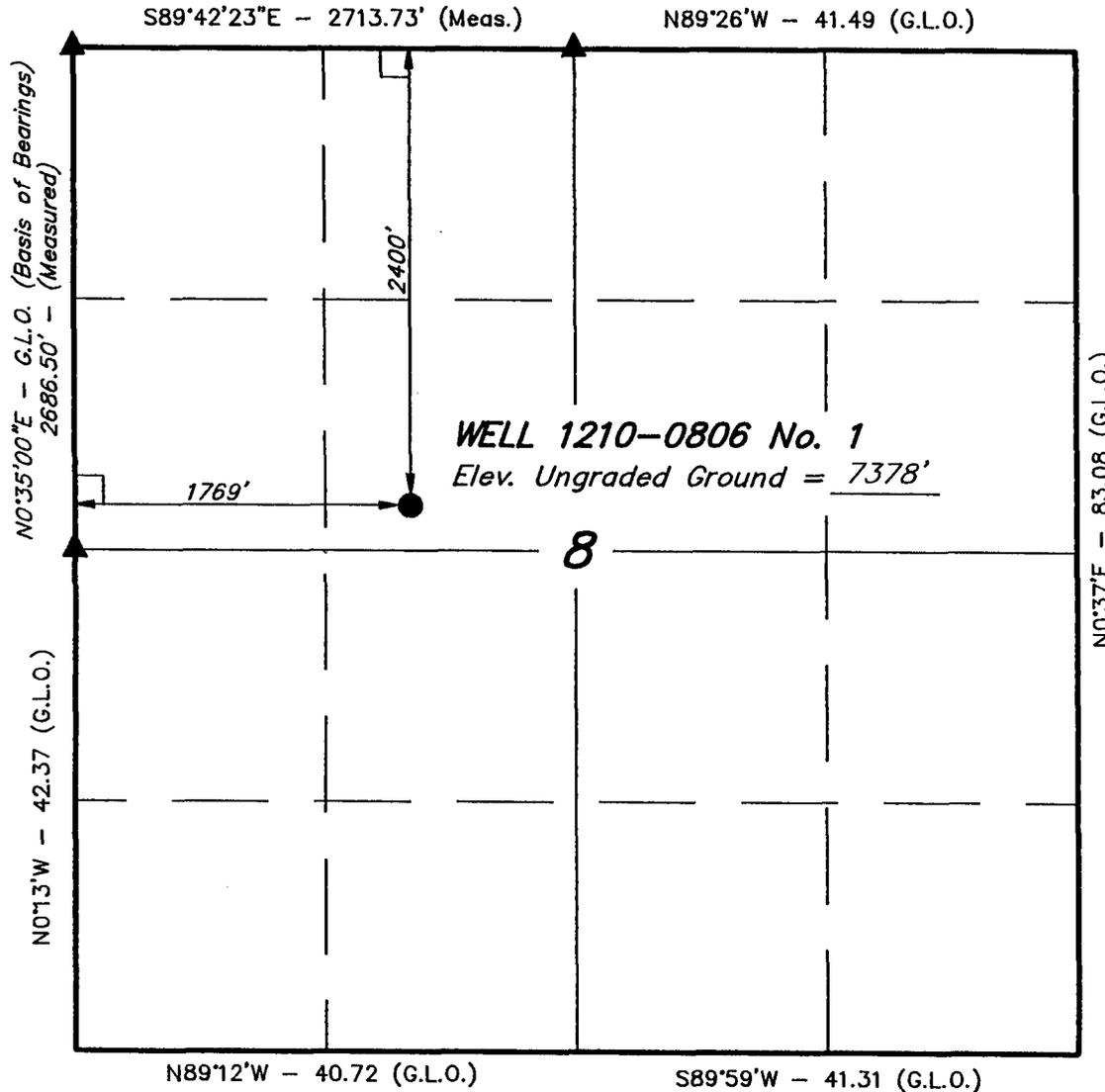
APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 7-19-91
 BY: JBY Matthews
 WELL SPACING: 615-3-3

*See Instructions On Reverse Side

T12S, R10E, S.L.B.&M.

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7367 FEET.



CERTIFICATE

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

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

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX 1758 - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE COCKRELL OIL CORP.

▲ = SECTION CORNERS LOCATED. (Brass Caps)

COCKRELL OIL CORPORATION
 Lease #UTU-65948, 1210-0806 #1
 SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 8, T12S, R10E
 Carbon County, Utah

Drilling Prognosis

1. Estimated Tops of Important Geologic Markers:

Flagstaff	Surface	Blackhawk	4150'
North Horn	300'	Starpoint	4850'
Price River	3350'	Total Depth	5400'
Castlegate	3850'		

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

Blackhawk	4150'	Gas (Primary Objective)
Starpoint	4850'	Gas (Primary Objective)

Any shallow water zones encountered will be adequately protected and reported; none anticipated. All potentially productive hydrocarbon zones will be cemented off.

3. Pressure Control Equipment: (Schematic Attached)

A. Type: 9-10" Double Gate Hydraulic.

The Blow-Out Preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Kill line (2-inch minimum).
4. One (1) kill line valve (2-inch minimum).
5. One (1) choke line valve.
6. Two (2) adjustable chokes.
7. Upper kelly cock valve with handle available.
8. Safety valve & subs to fit all drill strings in use.
9. 2-inch (minimum) choke line.
10. Fill-up line above the uppermost preventer.

B. Pressure Rating: 2000 psi

C. Testing Procedure:

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug).

3. Pressure Control Equipment:

C. Testing Procedure: Continued

Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day.

All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to close all BOP's and retain 200 psi above precharge. Nitrogen bottles which meet the manufacturer's specifications will be used as the backup to the required independent power source. The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in Onshore Operating Order #2.

F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of Onshore Operating Order #2.

3. Pressure Control Equipment:

F. Miscellaneous Information: Continued

The choke manifold and BOP extension rods with hand wheels will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

4. The Proposed Casing and Cementing Program: (All New)

A. Casing Program:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>
12-1/4"	8-5/8"	23.0#	WC-50	ST&C	0- 400'
7-7/8"	5-1/2"	17.0#	WC-70	LT&C	0-5400'

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

B. Cementing Program:

Surface Casing : Lead with approximately 25 sx Pozmix "A" as scavenger. Tail with approximately 295 sx Premium cement with 2% CaCl₂ + 0.25 #/sx Flocele, circulated to surface with 100% excess.

Production Casing : First Stage, 25 sx Silica HiFill as scavenger followed by 275 sx 50/50 Pozmix with 2% gel, 0.6% Halad 322 + 0.25 #/sx Flocele.

Production Casing : Second Stage, 160 sx Silica HiFill cement circulated to surface.

4. The Proposed Casing and Cementing Program:

B. Cementing Program: Continued

A greater amount of cement will be used if necessary to ensure that all potentially productive hydrocarbon zones are cemented off. Fill-up to be determined from logs.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. Mud Program: (Visual Monitoring)

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0- 400'	FW/Gel/Caustic	8.3-8.7	40-45	No Control
400-5400'	FW/Gel/Caustic	8.7-9.1	38-45	10-20 cc's

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. Evaluation Program:

Logs

Dual Induction Guard : 5400' - 400'
Spectral Density/Dual Spaced Neutron : 5400' - 400'
High Resolution Spectral Density : 5400' - 400'
Microlog : 5400' - 400'

DST's

None Anticipated.

Cores

None anticipated.

Evaluation Program may change at the discretion of the well-site geologist, with prior approval from the Authorized Officer, Moab District Office, Bureau of Land Management, P.O. Box 970, Moab, Utah 84532-0970.

6. Evaluation Program: Continued

Stimulation

No stimulation or frac treatment has been formulated for this test at this time. The drill site, as approved, will be of sufficient size to accommodate all completion activities.

Whether the well is completed as a dry hole or as a producer, Well Completion and Recompletion Report and Log (Form 3160-4) will be submitted to the Moab District Office not later than thirty (30) days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164.

Two (2) copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager, Moab District Office, Bureau of Land Management.

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H₂S has been reported or is known to exist from previous drilling in this area at this depth.

Maximum anticipated bottom hole pressure equals approximately 2,344 psi (calculated at 0.434 psi/foot) and maximum anticipated surface pressure equals approximately 1,156 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates and Notification of Operations:

A. Anticipated Starting Dates:

Anticipated Commencement Date	:	September 15, 1991
Drilling Days	:	Approximately 14 Days
Completion Days	:	Approximately 5 days

B. Notification of Operations:

The spud date will be reported orally to the Moab District Office, Bureau of Land Management WITHIN 48 HOURS FOLLOWING SPUDDING, unless otherwise required.

8. Anticipated Starting Dates and Notification of Operations:

B. Notification of Operations: Continued

A follow-up report on Form 3160-5 confirming the date of spud will be promptly submitted to the Moab District Office.

All wells, whether drilling, producing, or abandoned shall be identified in accordance with 43 CFR 3162.6. This requires the name of the operator, the lease number, the well number and the location of the well.

In accordance with Onshore Operating Order #1, this well will be reported on MMS Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with the Royalty Management Program, Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217.

Spills, blowouts, fires, leaks, accidents, theft, or any other unusual occurrences will be promptly reported to the Moab District Office in accordance with NTL-3A.

No well abandonment operations will be commenced without the prior approval of the District Manager or his authorized representative. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Notice of Intention to Abandon" (Form 3160-5) will be filed with the District Manager within fifteen (15) days following the granting of oral approval to abandon.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: "Fed" or "Ind", as applicable; Company Name, Well Name and Number, Location by Quarter/Quarter, Section, Township, Range, and Federal or Indian Lease Number.

A "Subsequent Report of Abandonment" (Form 3160-5) will be submitted within thirty (30) days following the actual plugging of the well bore.

8. Anticipated Starting Dates and Notification of Operations:

B. Notification of Operations: Continued

This report will indicate where plugs were placed and the current status of surface restoration operations. If surface restoration has not been completed at that time, a follow-up report on Form 3160-5 will be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

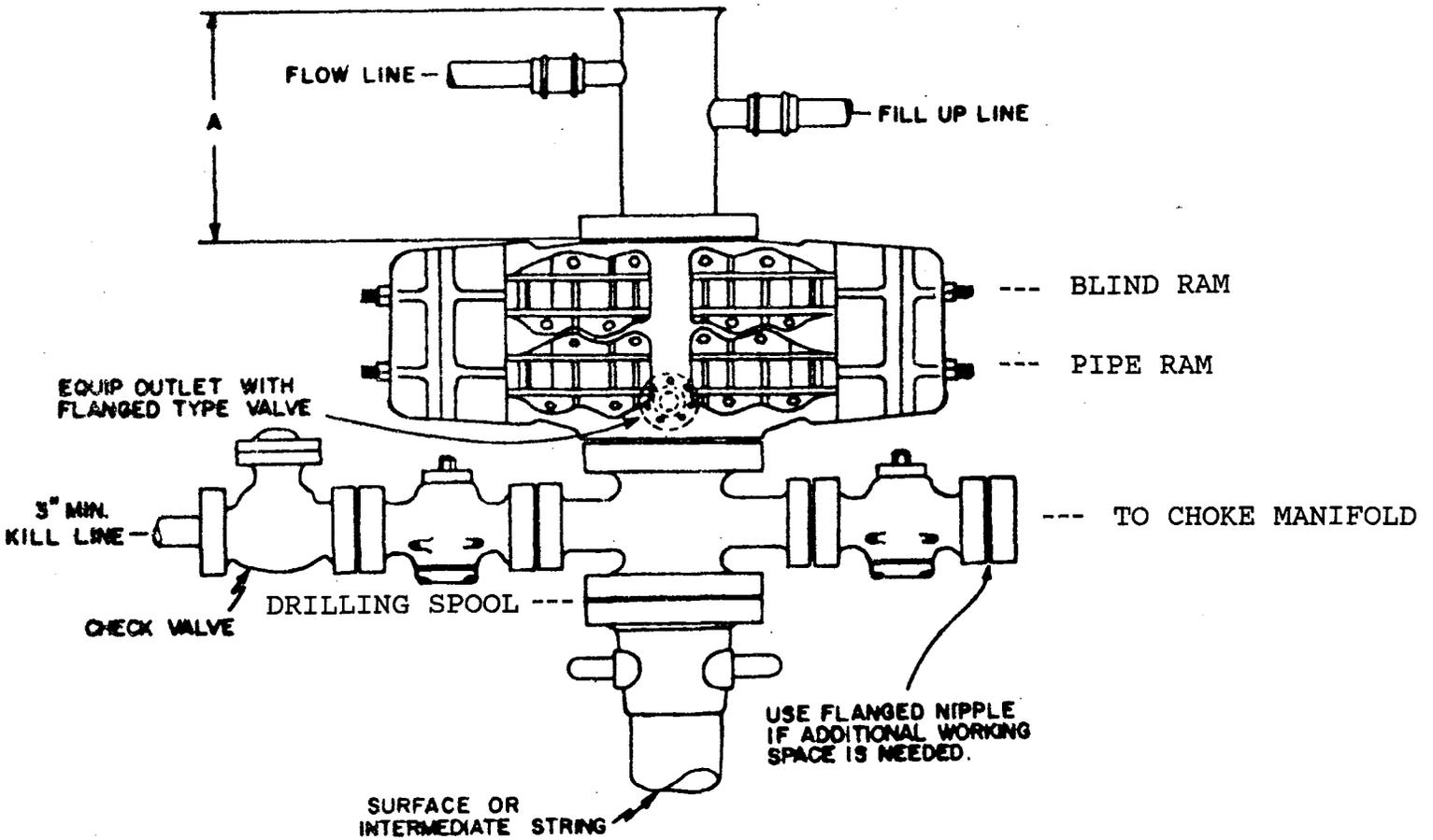
Approval to vent/flare gas during initial well evaluation will be obtained from the Moab District Office. This preliminary approval will not exceed thirty (30) days or fifty (50) MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to the guidelines contained in NTL-4A.

Not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than ninety (90) days, the operator shall notify the Authorized Officer by letter or "Sundry Notice", of the date on which such production has begun or resumed. The notification shall provide as a minimum, the following informational items:

- a. Operator name, address, and telephone number
- b. Well name and number
- c. Well location " $\frac{1}{4}$, $\frac{1}{4}$, Section, Township, Range, P.M."
- d. Date well was placed in a producing status
- e. The nature of the wells production, i.e.: crude oil casing gas, or natural gas and entrained liquid hydrocarbons.
- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, ie.: state or private.
- g. As appropriate, the communitization agreement number, the unit agreement name, number and participating area name.

COCKRELL OIL CORPORATION
Lease #UTU-65948, 1210-0806 #1
SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 8, T12S, R10E
Carbon County, Utah

TYPICAL 2,000 psi WORKING PRESSURE BOP STACK



BOP ACTUATING SYSTEM

- 1) Accumulator capacity will supply $1\frac{1}{2}$ times volume necessary to close all BOP equipment units with a minimum pressure of 203 psi above pre-charge pressure.
- 2) Accumulator back up system, supplied by a secondary power source independent of primary power source, will be provided with sufficient capacity to close all blowout preventers.
- 3) Locking devices will be provided on ram type preventers.
- 4) Primary BOP actuating control will be hydraulic and located either in the dog house or on the rig floor. Back up control will be provided by hand-wheel manual operation of BOP.

CHOKE MANIFOLD

All valves & fittings will be rated at 2000# working pressure.

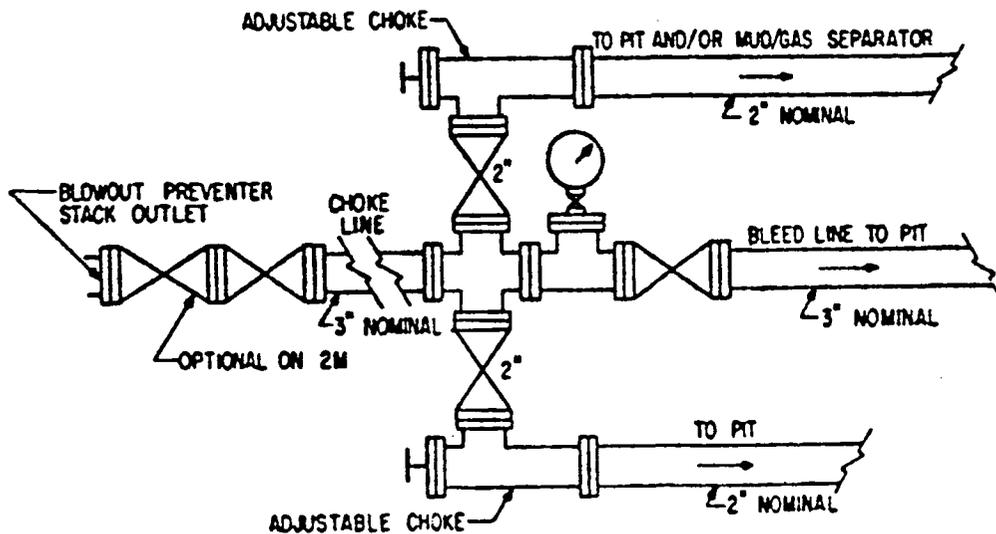


FIG. 3.A.1
TYPICAL CHOKE MANIFOLD ASSEMBLY

COCKRELL OIL CORPORATION
Lease #UTU-65948, 1210-0806 #1
SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 8, T12S, R10E
Carbon County, Utah

Multi-Point Surface Use and Operations Plan

1. Existing Roads: Refer to Maps "A" and "B" (shown in ORANGE)

- A. The proposed well site is staked and two 200-foot reference stakes are present.
- B. To reach the location from the town of Price, Utah; proceed generally north approximately 9.0 miles on U.S. Highway 191, thence generally northeast approximately 6.3 miles on U.S. Highway 191, thence generally west approximately 2.7 miles on an existing Carbon County road (a paved highway), thence generally southeast approximately 600 feet to the proposed 1210-0806 #1 well location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one (1) mile radius - refer to Map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

2. Planned Access Roads: Refer to Map "B" (shown in GREEN)

Approximately 600 feet of new road construction will be required for access to the proposed 1210-0806 #1 well location.

- A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched.
- B. Construction standard - the access road will be constructed in accordance with Bureau of Land Management Rooding Guidelines established for oil and gas exploration and development activities as referenced in the BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition.

The access road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed and safe road.

2. Planned Access Roads:

B. Construction standard - Continued

Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely.

Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at a frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - 6%.
- D. Turnouts - turnouts will be constructed along the access route as necessary or required to allow for the safe passage of traffic. None anticipated at this time.
- E. Drainage design - the access road will be crowned, ditched, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Gates, cattleguards or fence cuts - one (1) cattleguard will be required in an east/west trending fenceline along the county road right-of-way: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 8, Township 12 South, Range 10 East.
- H. Surface materials - any construction materials which may be required for surfacing of the access road will be purchased from a local contractor having a permitted source of materials in the area, if required by the Authorized Officer, Bureau of Land Management. None anticipated at this time.

2. Planned Access Roads: Continued

- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and will be maintained in accordance with the original construction standards.

All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards.

The access road right-of-way will be kept free of trash during operations.

- J. The proposed road route has been centerline staked.

3. Location of Existing Wells Within a One-Mile Radius:

- A. Water wells - none known.
- B. Abandoned wells - none known.
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - none known.
- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

4. Location of Existing and/or Proposed Facilities Owned By Cockrell Oil Corporation Within a One-Mile Radius:

A. Existing

- 1. Tank batteries - none.
- 2. Production facilities - none.
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - none.

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty (20) feet from the toe of the backcut or top of the fill slope.
- 2. Production facilities will require an area approximately 250' X 125'.

4. Location of Existing and/or Proposed Facilities Owned By
Cockrell Oil Corporation Within a One-Mile Radius:

B. New Facilities Contemplated - Continued

2. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval prior to commencement of installation operations.
3. Production facilities will be accommodated on the well pad. Construction materials needed for installation of the production facilities will be obtained from the site; any additional materials which may be needed will be purchased from a local supplier as required.

A dike will be constructed completely around any production facilities containing liquid hydrocarbons (i.e., production tanks, produced water tanks and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 1.5 times the capacity of the largest tank, and be independent of the back cut.

4. All permanent above-the-ground structures, tank batteries, etc. that will remain longer than six months will be painted Carlsbad Canyon (Munsell standard color 2.5Y 6/2). The exception being that Occupation Health and Safety Act Rules and Regulations will be complied with where special safety colors are required.
- C. The production pit will be fenced sheep-tight with woven wire mesh topped with two (2) strands of barbed wire held in place by side posts and wooden corner "H" braces in order to protect livestock and wildlife. Please refer to Item #9E (page #8) for additional information regarding these fencing specifications.
- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road and any additional areas specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer, Bureau of Land Management.

5. Location and Type of Water Supply:

- A. Produced water from existing coal bed methane wells owned by Cockrell Oil Corporation will be utilized for drilling operations.

Fresh water which may be required for drilling and/or completion operations will be obtained from Willow Creek at a point located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 10, T12S, R10E. Approval of an Application for Permit to Appropriate Surface Water will be obtained from the office of the Utah State Engineer prior to diversion of any water from Willow Creek.

- B. Water will be transported over existing roads via tank truck from the point of diversion to the proposed 1210-0806 #1 well location. No new road construction will be required on/along the proposed water haul route. No off-lease federal lands will be crossed on/along the proposed water haul route.
- C. No water well will be drilled on this location.

6. Source of Construction Materials:

- A. No construction materials will be needed for well pad construction; surface and subsurface soils will be sufficient. Refer to Item #2H (page #2) for additional information regarding any construction materials which may be required on the access road.
- B. No construction materials will be taken from Federal and/or Indian lands without prior approval from the appropriate Surface Management Agency.
- C. If production is established, any construction materials required for surfacing of the access road and installation of production facilities will be purchased from a local supplier having a previously approved (permitted) source of materials in the area.
- D. No new access roads for construction materials will be required.

7. Methods of Handling Waste Materials:

- A. Cuttings - the cuttings will be deposited in the reserve pit.
- B. Drilling fluids - including salts and chemicals will be contained in the reserve pit and allowed to evaporate.

7. Methods of Handling Waste Materials: Continued

- B. Drilling fluids - the reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of one-half (1/2) the total depth below the original ground level at the lowest point in the pit.
- C. Produced fluids - hydrocarbons produced during completion operations will be placed in test tanks on the location. Water produced during completion operations will be put into the reserve pit according to the provisions of Onshore Operating Order #7 (formerly NTL-2B). Any spills of potentially hazardous materials will be cleaned up and immediately removed to an approved waste disposal site.
- D. Sewage - portable, self-contained chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped as necessary, and the contents thereof disposed of at an approved sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during drilling operations and the fencing will be maintained until such time as the pits are backfilled.

8. Ancillary Facilities:

None anticipated.

9. Wellsite Layout:

- A. Figure #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. A minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site.

9. Wellsite Layout: Continued

- A. Refer to Figure #1 for the location of the topsoil stockpiles.
- B. Figure #1 is a diagram showing the rig layout. No permanent living facilities are planned. There will be four trailers on location: one each for the drilling engineer, geologist, mud logger, and toolpusher.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval prior to the commencement of installation operations. Please refer to Item #4B2 (page #3) for additional information in this regard.
- D. We do not anticipate the need for a reserve pit liner at this time. However, if porous subsoil materials (i.e., gravel, sand, fractured rock structures, etc.) are encountered during the course of reserve pit construction, an impervious liner will be installed in order to prevent drilling water loss through seepage.

10. Plans for Reclamation of the Surface:

- A. Backfilling, leveling and re-contouring are planned as soon as the reserve pit has dried. All waste materials will be disposed of immediately upon termination of drilling and completion activities. If production is established, the unneeded areas of the location will be reclaimed as soon as the reserve pit has dried. For production, the fill slopes will be reduced from a 1.5:1 slope to a 3:1 slope and the cut slopes will be reduced from a 2:1 slope to a 3:1 slope by pushing the fill material back up into the cut.
- B. Upon completion of backfilling, leveling and recontouring, all disturbed surfaces (including the access road and well pad areas) will be scarified (ripped) and the stockpiled topsoil will be evenly spread over the reclaimed area(s). The seedbed will be prepared by disking on the contour to an approximate depth of four (4) to six (6) inches, leaving no depressions that would trap water or form ponds.
- C. All disturbed surfaces (including the access road and well pad areas) will be reseeded using a seed mixture to be recommended by the Authorized Officer, Bureau of Land Management. Seed will be drilled on the contour (or at right angles to the prevailing wind on level areas) with the seed drill set at a depth of one-half (1/2) inch.

10. Plans for Reclamation of the Surface: Continued

- C. Fall seeding will be completed after September 1 and prior to ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to June 1.
- D. Three sides of the reserve pit will be fenced during drilling operations and the fourth side will be fenced immediately upon rig removal. Said fencing will consist of woven wire mesh with two (2) top strands of barbed wire held in place with side posts and wooden corner "H" braces in order to protect livestock and wildlife.
- E. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substance(s) will be flagged overhead or covered with wire mesh in order to protect migrating shorebirds and waterfowl.
- F. Reclamation operations will begin after the drilling rig has been removed. Removal of oil or other adverse substances will begin immediately or the affected area(s) will be flagged and/or fenced. Other clean-up will be done as needed. Re-seeding activities are considered best in the Fall, 1992, unless requested otherwise.

11. Surface Ownership:

The proposed access road route and well location are situated on surface estate owned by the United States of America and administered by:

Area Manager
Price River Resource Area Office
Bureau of Land Management
900 North 7th East
Price, Utah 84501
Phone: (801) 637-4584

12. Other Information:

- A. General Description of the Project Area: The project area is situated in east central Utah in an area locally known as Emma Park. This area is classified as a "high plains steppe" (cold desert) and is bounded by the Roan Cliffs to the north, the Book Cliffs to the south, Price Canyon to the west, and the Badland Cliffs to the north-east.

12. Other Information:

A. General Description of the Project Area: Continued

The well location is situated in the uplands west of both Summit and Willow Creeks, west of Antoine Creek, and north of Deep Canyon. This area is generally characterized by moderately to severely undulating upland areas which are dissected by numerous, dendritically-patterned ephemeral drainages of Willow Creek and the Price River.

This area exhibits a sparse to moderate vegetation density which is typical of semi-arid areas at elevations above 7,000 feet. Local flora consists of western wheatgrass, mountain brome, prairie junegrass, threadleaf sedge, prickly pear cactus, sagebrush, rabbitbrush, snakeweed, and serviceberry at the lower elevations with oakbrush, mountain mahogany, aspen, juniper, fir and pine trees at the higher elevations and on protected slopes. Local fauna consists of elk, mule deer, antelope, coyotes, rabbits, raptors, and various smaller vertebrate and invertebrate species.

There are no known threatened or endangered species (currently listed) that would be potentially impacted by construction, drilling and/or production operations on the proposed 1210-0806 #1 well location.

B. Surface Use Activities: The primary surface use is for grazing.

C. Proximity of Water, Occupied Dwellings, Archaeological, Historical or Cultural Sites:

1. The closest source of permanent water is Willow Creek, located approximately two (2) miles to the east.
2. The closest occupied dwellings are located in the town of Helper, located approximately ten (10) miles to the southwest.
3. If historic or archaeological materials are uncovered, Cockrell Oil Corporation will suspend all operations that might further disturb such materials and immediately contact the Authorized Officer.

12. Other Information:

C. Proximity of Water, Occupied Dwellings, Archaeological, Historical or Cultural Sites: Continued

3. Within five (5) working days the Authorized Officer will inform Cockrell Oil Corporation as to:
 - whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
 - a time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

If Cockrell Oil Corporation wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, Cockrell Oil Corporation will be responsible for mitigation costs.

The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that the required mitigation has been completed, Cockrell Oil Corporation will then be allowed to resume construction.

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

Representative

Cockrell Oil Corporation
Feldor Hollenshead, Vice President/Drilling & Production
1600 Smith Street, Suite 4600
Houston, Texas 77002-7348
Phone: (713) 651-1271

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

Representative - Continued

Heitzman Drill-Site Services*
Dale Heitzman and/or Robert M. Anderson
P.O. Drawer 3579
Casper, Wyoming 82602
Phone: (307) 266-4840

* Contact for any additional information which may be required for approval of this Application for Permit to Drill.

Certification

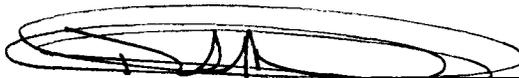
All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

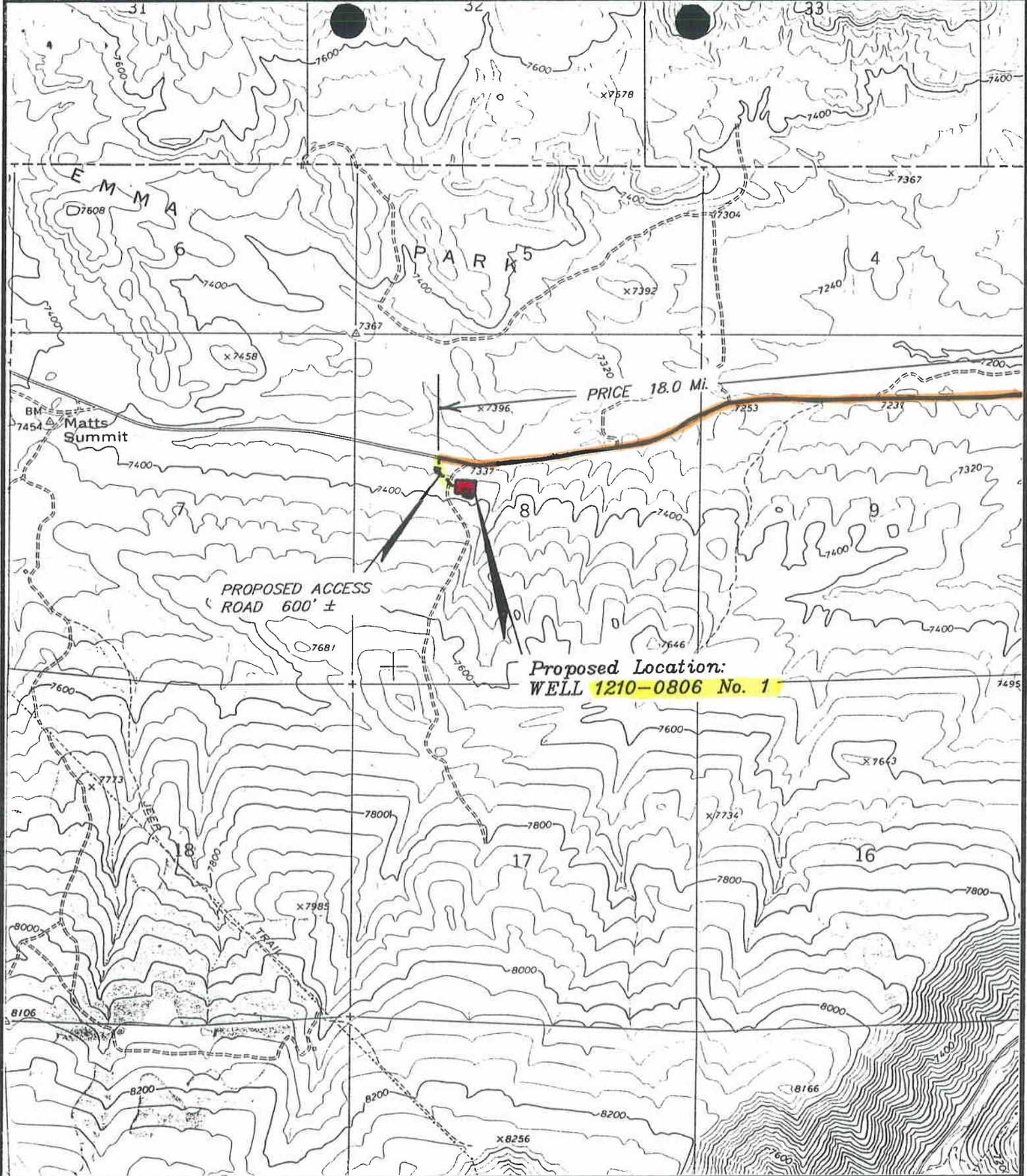
Cockrell Oil Corporation will be fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative(s) to ensure compliance.

The dirt contractor will be provided with a copy of the Surface Use Plan from the approved Application for Permit to Drill.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cockrell Oil Corporation, their contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

17 May 1991
Date


Robert M. Anderson/Authorized Agent



TOPOGRAPHIC
MAP "B"
SCALE 1" = 2000'
DATE: 3-20-91



COCKRELL OIL CORP.

WELL 1210-0806 No. 1
SECTION 8, T12S, R10E, S.L.B.&M.

RECEIVED

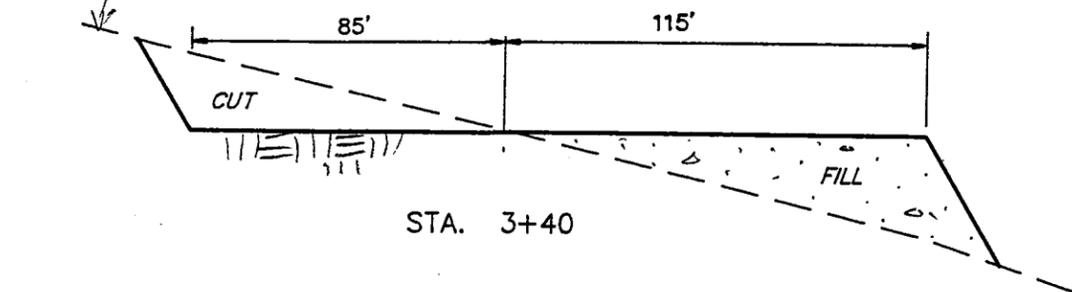
COCKRELL OIL CORP.

LOCATION LAYOUT FOR

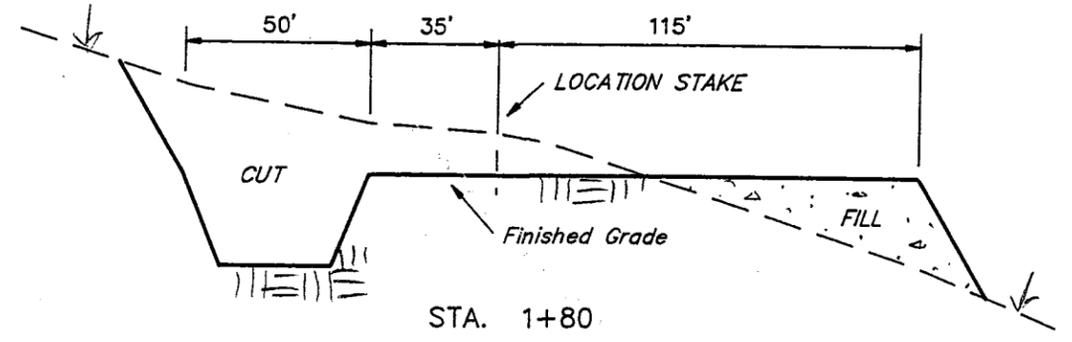
WELL 1210-0806 NO. 1
SECTION 8, T12S, R10E, S.L.B.&M.

JUN 03 1991

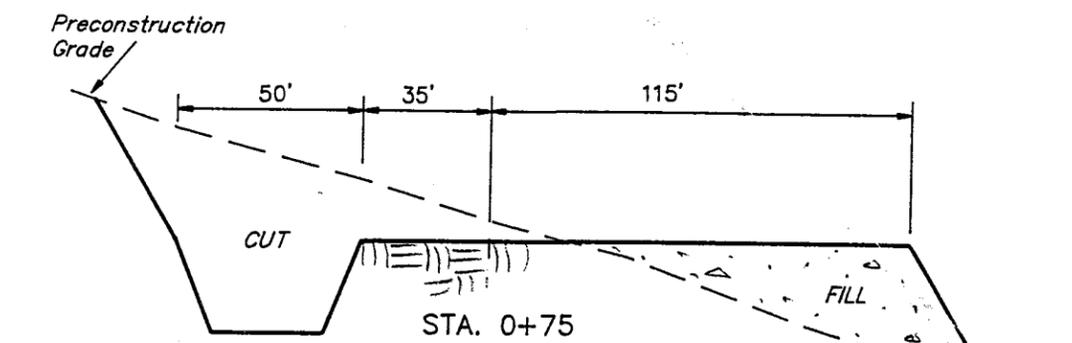
DIVISION OF
OIL GAS & MINING



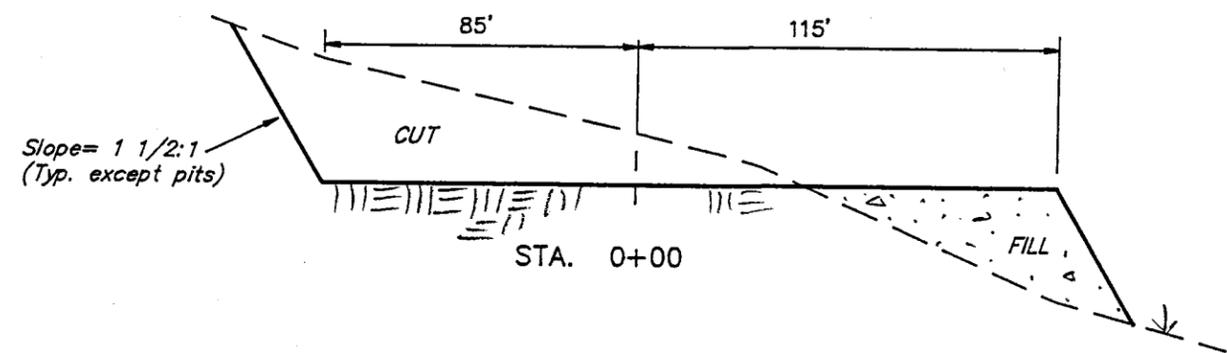
STA. 3+40



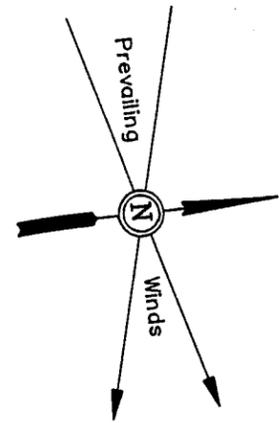
STA. 1+80



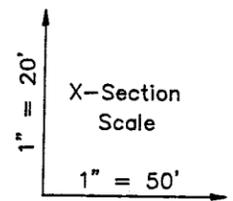
STA. 0+75



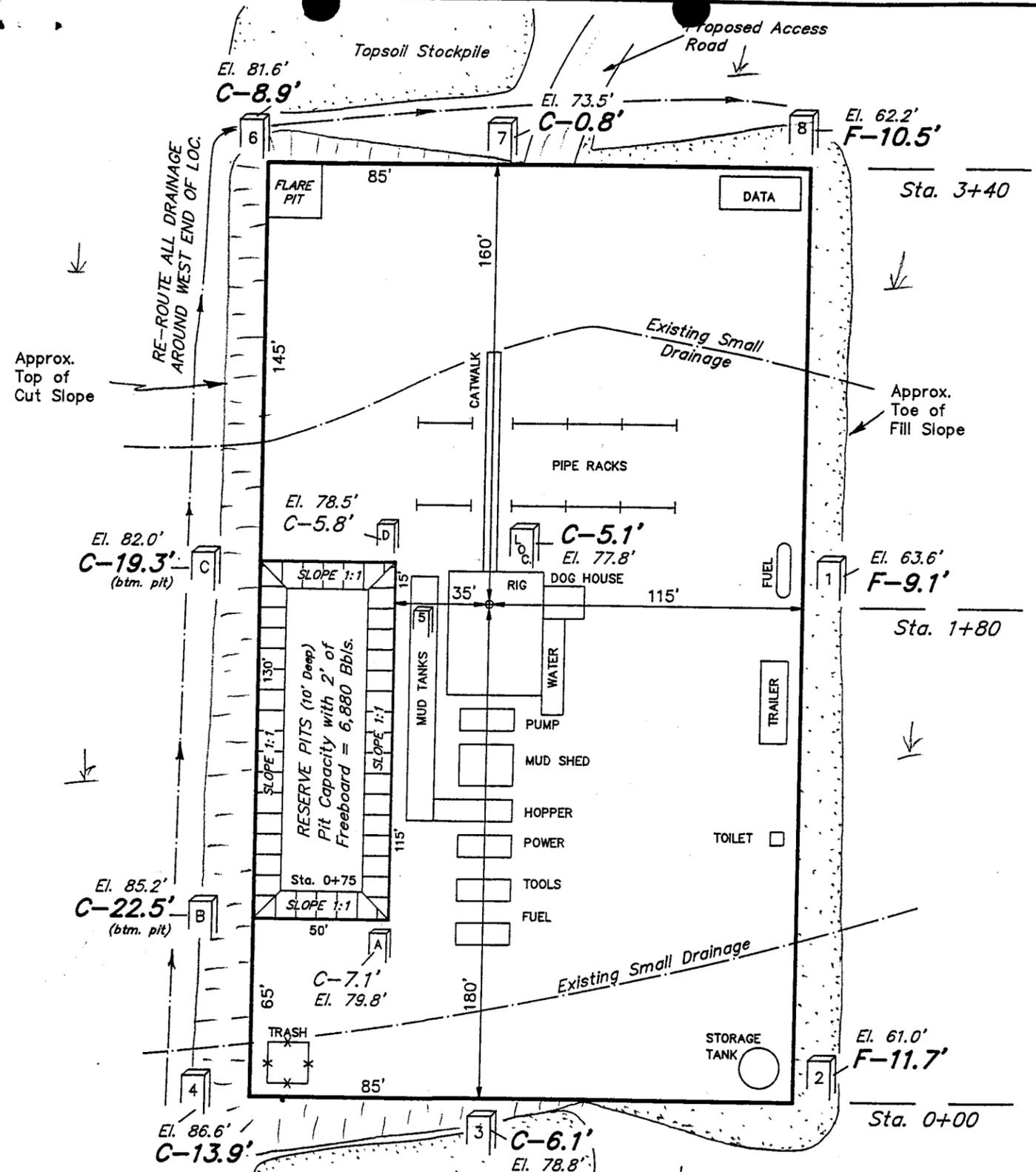
STA. 0+00



SCALE: 1" = 50'
DATE: 3-21-91
Drawn By: J.R.S.



TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS



APPROXIMATE YARDAGES

CUT (6") Topsoil Stripping	= 1,300 Cu. Yds.
Remaining Location	= 10,040 Cu. Yds.
TOTAL CUT	= 11,340 CU.YDS.
FILL	= 8,690 CU.YDS.

Reserve Pit Backfill & Spoils Stockpile

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,190 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,190 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

ELEV. UNGRADED GROUND AT LOC. STAKE = 7377.8'
ELEV. GRADED GROUND AT LOC. STAKE = 7372.7'

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/03/1991

API NO. ASSIGNED: 43-007-30140

WELL NAME: HUBER-FED 6-8 RE ENTRY
OPERATOR: J M HUBER CORPORATION (N2380)
CONTACT: BRIAN WOOD, AGENT

PHONE NUMBER: 505-466-8120

PROPOSED LOCATION:

SENW 08 120S 100E
SURFACE: 2400 FNL 1769 FWL
BOTTOM: 2400 FNL 1769 FWL
CARBON
CASTLEGATE (13)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-65948
SURFACE OWNER: 1 - Federal
PROPOSED FORMATION: SPSS

LATITUDE: 39.79934
LONGITUDE: -110.8292

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ES 0071)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 91-4983)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3.
Unit _____
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: 1 - FEDERAL APPROVAL

APD RECEIVED: / /

API NO. ASSIGNED: 43-007-30140

WELL NAME: HUBER-FED 6-8 *Re Entry*
OPERATOR: J M HUBER CORPORATION (N2380)
CONTACT: BRIAN WOOD, AGENT

PHONE NUMBER: 505-466-8120

PROPOSED LOCATION:
SENW 08 120S 100E
SURFACE: 2400 FNL 1769 FWL
BOTTOM: 2400 FNL 1769 FWL
CARBON
CASTLEGATE (13)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1-Federal
LEASE NUMBER: UTU-65948
SURFACE OWNER: ~~1-Federal~~ *federal*

PROPOSED FORMATION: SPSS

RECEIVED AND/OR REVIEWED:

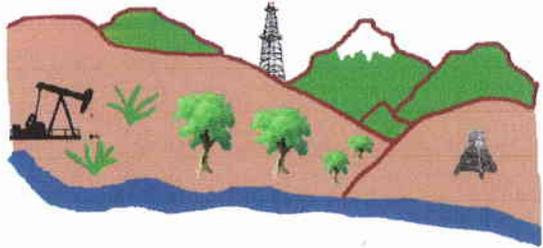
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. _____)
- Potash (Y/N)
- Oil Shale (Y/N) *190-5 (B) or 190-3
- Water Permit
(No. 91-4983)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit _____
- R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: _____
- Eff Date: _____
- Siting: _____
- R649-3-11. Directional Drill

COMMENTS: *Need Permits*

STIPULATIONS:



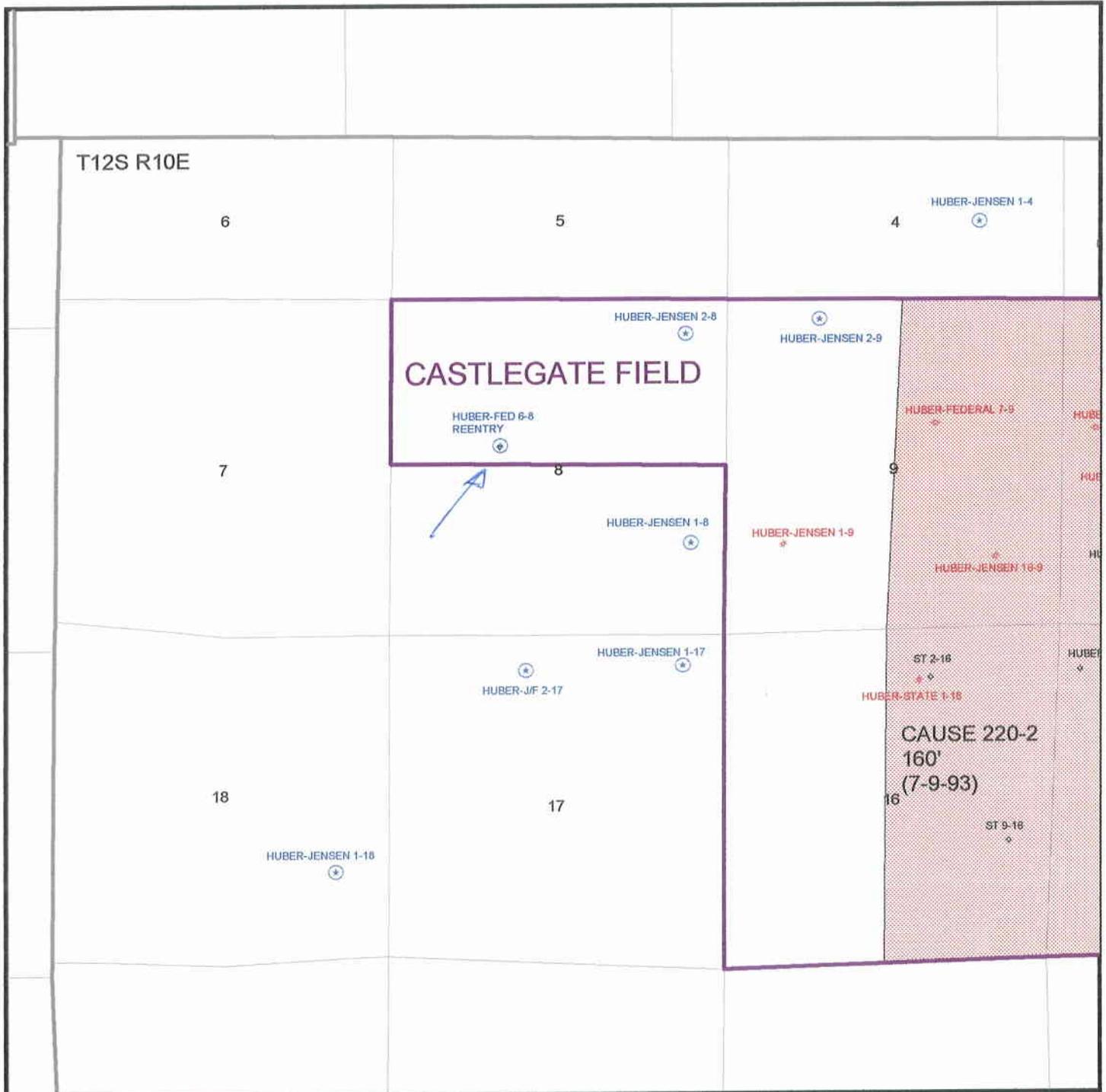
Utah Oil Gas and Mining

OPERATOR: J M HUBER CORP (N2380)

SEC. 8, T12S, R10E

FIELD: CASTLEGATE (002)

COUNTY: CARBON SPACING: R649-3-3/EX LOC



004

OPERATOR Cookwell Oil Corp N-1035 DATE 6-26-91

WELL NAME 10110-0806 #1

SEC SEW 8 T 10S R 10E COUNTY Carbon

43-007-30140
API NUMBER

technical (1)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within Sec 8.

water permit

ROCE 6-10-91

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R615-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1- Needs water permit



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

Southeastern Region
455 West Railroad Avenue
Price, Utah 84501-2829
801-637-3310

*OK 11/19/91
orig. of file
thru RA with
cc Frank
Matthews*

RECEIVED

JUN 27 1991

**DIVISION OF
OIL GAS & MINING**

June 25, 1991

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

Attn: Frank Matthews

Dear Dianne:

We have responded directly to Cockrell Oil Corporation's representatives on the well sites that were listed in the RDCC minutes June 25, 1991 (items 1 through 8). The enclosed letter is our response to a request for wildlife information.

If your personnel need additional information please have them contact

Ken Phippen, Habitat Manager
Southeast Regional Office
455 West Railroad Avenue
Price, Utah 84501
phone 637-3310

Sincerely,

Miles Moretti
Regional Supervisor

*Talked to Miles &
Ken Phippen 7-19-91
about impact.
JPM*

cc: Ralph Miles, DWR
Catherine Quinn, DWR
Carolyn Wright, Planning and Budget



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangarter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

Southeastern Region
455 West Railroad Avenue
Price, Utah 84501-2829
801-637-3310

June 21, 1991

Mr. Robert M. Anderson
Heitzman drill - site services
P.O. Box 3579
Casper, Wyoming 82602

Dear Bob:

I appreciate your letter of May 20 requesting information on your EA for the Castlegate coal bed methane project. After the on-site inspection I do have the following concerns. In general these concerns are mostly related to a full field development.

All locations are located in elk critical/high priority winter range. Elk calving areas are in close proximity as well. This area can be considered mule deer yearlong habitat. Winter and fawning periods are most critical. Sage grouse also inhabit this area. In general the strutting grounds occur on the north side of the Park Road. Areas within a two mile radius of a lek are used for nest/brood habitat from March 15 to June 30. The birds use slopes south of the Park Road during most of the year. I hope to have a map for you shortly.

We recommend that the following guidelines be utilized in planning to protect wildlife use areas from man's disturbance during crucial periods. In all instances, impacts to terrestrial or aquatic ecosystems should be avoided, minimized and/or mitigated.

All water sources in the area are critical value to wildlife. Instream flows necessary to sustain wildlife drinking needs and wetland (mesic meadow, marshland, riparian and riverine and lacustrine body) ecosystems associated with perennial or intermittent drainage ways must be maintained.

The natural dispersion of seeps and springs needs be maintained. Actions resulting in a 50% or more reduction of available daily flow to wildlife should be disallowed. All losses of water need be mitigated and guzzlers represent such an option. Water developments should be constructed such that their surface is at ground level in order to facilitate access for all classes of wildlife. Every trough should incorporate a wildlife escape ramp. Human disturbance within a one-mile radius of perennial water sources or developments should not be permitted between June 1 and

September 30. Outdoor recreation (especially camping), industrial development and mineral exploration have been historic problems.

Activities resulting in depletion of flows to the Colorado River Basin could necessitate a remittance to the U.S. Fish and Wildlife Service for recovery management of endangered fish.

Surface disturbance activities resulting in significant or long term damage to terrestrial habitats or use areas must be reclaimed. Avoidance or minimization of impacts should result whenever practicable. Short term projects -- those that can be revegetated in the first growing season -- exceeding 10 acres disturbance are viewed as being significant and should mandate a mitigation requirement. Lesser sized short term projects would usually only require revegetation and impact avoidance measures. Surface disturbance impacts from any sized project that last beyond the first revegetation period are viewed as being long term and require mitigation. "On site"/"In-kind"/"One-for-one" mitigation is preferred, although "Off-site" and "Out-of-kind" mitigation can be negotiated.

Reclamation projects should occur as soon as practicable following project completion and must be designed to enhance a local area's wildlife habitat. The basic life requirements for animals (food, water, cover and space) should be considered. Revegetation prescriptions must address terrain and soil characteristics, along with adaptability of planted species to the site. Seed purity, viability and planting methodology/timing, as well as local precipitation need be considered. It may be advantageous to protect the planted area from livestock use. At a minimum, a planting should consist of six species each of grasses, forbs and shrubs. The enclosed revegetation prescription is recommended for disturbed sites associated with the project.

Big game species of wildlife require special management consideration in order to protect them from man's facilities. Construction of barriers (fences, pipelines, conveyor systems and canals) that inhibit big game migration must not be allowed. Fence specifications should meet existing criteria for height and design to livestock and local area's big game population. (Methodologies for passage of animals beyond barriers are discussed by Dalton, L.B. 1986. Big Game Passage of Large Diameter Overland Conveyance Systems, in: "Issues and Technology in the Management of Impacted Western Wildlife," proceedings of the February 4-6, 1985 National Symposium. Thorne Ecological Institute, Boulder Colorado.). Fall migration occurs between October 1 and November 30. Spring migration for big game occurs between March 1 and April 30.

Crucial wintering and parturition periods for the area's big game are as follows:

<u>Species</u>	<u>Winter Range</u>	<u>Parturition</u>
Elk	12-1 to 4-15	5-15 to 7-5
Mule Deer	12-1 to 4-15	5-15 to 7-5

When considering the full field development the following guidelines should be considered for raptor species. As a group their nesting season extends from January 1 through August 31. A crucial period is when a nest territory is occupied. Planning dates specific to nesting activity for individual species are as follows (note, bald eagle does not nest and is a winter resident):

Species	Nesting Period	Species	Nesting Period
Turkey vulture	5-15 to 8-15	Barn Owl	4-20 to 7-20
Goshawk	4-15 to 7-20	Screech owl	3-15 to 6-15
Sharp shinned hawk	6-20 to 8-15	Flamulated owl	5-15 to 7-31
Cooper's hawk	5-1 to 8-15	Great horned owl	2-1 to 5-15
Red-tailed hawk	4-10 to 6-30	Pygmy owl	5-15 to 7-31
Swainson's hawk	4-20 to 6-25	Burrowing owl	4-1 to 7-15
Ferruginous hawk	4-10 to 6-15	Spotted owl	3-5 to 6-15
Golden eagle	2-1 to 7-15	Long-eared owl	3-15 to 6-15
Bald eagle (winter use)	11-1 to 3-31	Short-eared owl	4-10 to 6-15
Marsh hawk	5-1 to 6-31	Saw-whet owl	4-1 to 6-31
Osprey	4-15 to 7-15		
Prairie falcon	4-1 to 7-15		
Peregrine falcon	2-1 to 8-31		
Merlin	4-15 to 6-25		
American kestrel	5-1 to 6-30		

Most raptor nests, when active, need a 0.5 mile radius buffer zone protected from human disturbance. Peregrine falcon nests need a one (1) mile radius buffer zone. Also, roost trees and concentration areas for wintering bald eagles, along with one (1) mile radius buffer zone, need to be protected from disturbance between November 1 and March 31. Peregrine aeries need only be protected from human activity in excess of historic use. Recreational trails or roads should not be developed any closer than 200 yards from goshawk nests. If Cockrell plans to initiate or maintain their project during a period when raptor use of their nests is potential, the company would need to encompass a one-half mile buffer adjacent to surface disturbed areas.

Mature trees with natural cavities and dead snags need to be protected for use by cavity nesting birds. Management activities should be planned so that three such trees/acre are left standing within 500 feet of forest openings or water. Two such trees/acre are needed in dense forested areas.

Road construction (enhancement of existing road or development of new roads) must be minimized. Once the project is complete, new roads need to be closed and reclaimed. Reclamation should be considered for segments of existing road, also.

Bob, the Division is not prepared to recommend specific mitigation at this time. When the degree of impacts is fully identified, we would like an opportunity to review and provide mitigation recommendations. Likely, water developments and road closure will be high on the mitigation list.

Thank you for an opportunity to provide comment.

Sincerely,

A handwritten signature in cursive script, appearing to read "Miles Moretti".

Miles Moretti
Southeastern Regional Supervisor

cc: Ralph Miles, DWR
Mark Bailey, BLM

Enclosure

Recommended guidelines for seedbed preparation and planting techniques in the MONTANE ecological association.

- A. Seedbed Preparation: (1) Disturbed areas should be double ripped. (2) Fertilizer (0-16-8) at a rate of 100 lb/acre should be disked into the topsoil mass prior to seeding. (3) Where possible, the grass segment of the seed mix should be drilled. The remainder of the seed mix should be hydrosprayed in a slurry containing tackifier (60 lb/acre) and wood fiber mulch (400 lb/acre). Seed mix applied by hydrospray technique should be increased by 1.5 times. This first application containing seed should be immediately followed by another hydrosprayed slurry to incorporate more tackifier (60 lb/acre), more wood fiber mulch (2,000 lb/acre), and nitrogen fertilizer (33-0-0 distributed at a rate of 100 lb/acre). (3a) If a hydrospray technique is not utilized, the seed mix should be drilled. (3b) If broadcast, the seed mix should be doubled, spread, and covered through use of a harrow or chain. (4) After seed application (3a or 3b), nitrogen fertilizer (33-0-0 distributed at a rate of 100 lb/acre) should be broadcast and an acceptable mulch should be applied at a rate of 2,000 lb/acre to protect raw soil from erosion and to conserve moisture. Mulch should be held in place by tackifying, crimping, or netting. (5) Seeding should occur following a permanent killing frost which is usually after October 1.
- B. Nursery Stock or Transplants: Planting of nursery or transplant stock should occur in spring when soil moisture is greatest. Nursery stock should be planted after dormancy breaks; greatest success for transplant stock is achieved during dormancy. Shoots spaced 2, 3, 4, 6, 10, 12, 13, and 15 feet apart will achieve 10888, 4840, 2722, 1210, 436, 302, 258, and 193 plants per acre, respectively. A 60% canopy cover is the goal. All plantings need to have soil compacted around the roots.
- C. Cuttings of Woody Riparian Species (willow, cottonwood, etc.): Cut stems at a length of 12 to 18 inches from 1-3 year old local, wild stock (0.5 to 1.0 inch diameter) with a 30-45° angle on basal end. Lateral branches and leaves must be removed. Cuttings can be immediately transplanted or if cut in winter cold stored in snow filled bags until the ground thaws. The basal end can be dipped in indolebutyric acid prior to planting to aid in root formation. When planting, all but one inch of the stem should be extended into the moist soil to a depth of the water table. This will protect recreators from inadvertent injury. Dormant logs (1.5 to 6 inches diameter and up to 20 feet long) can also be used for many species as long as the water table is reached.
- D. Bare-root or Containerized Plants: Prior to planting, bare-root or containerized plants should be stored at 34-39° F for one week to "harden". Planting should be in an adequately sized hole to insure that roots are well distributed and extending full length into the hole. For bare-root and containerized stock, care needs to be taken that the root hairs are not allowed to dry. The outer edge of the root mass for containerized stock should be scarified to alleviate root binding.
- E. Plugs: Plugs of vegetation can be excavated with a shovel or front-end loader. They should be handled such that moist soil remains packed firmly around the roots. A similar sized hole needs to be excavated and the plug planted.
- F. Rhizomic Plants: Woody plants with interconnected root stock should be located and excavated intact. The tops of plants should be removed so that only one remains. Connecting roots should be aligned vertically and buried. In the instance of herbaceous plants, rhizomes can be harvested with a front-end loader, and distributed with a manure spreader. A one inch layer of top soil should be compacted over plantings.

Table 1. Revegetation prescription for disturbed areas within the ASPEN ecosystem in the MONTANE ecological association.^{1,7}

Plant Material	Pounds of Pure Live Seed/Acre
GRASS SPECIES²:	
Mountain brome (<u>Bromus carinatus</u>)	2.0
Smooth brome (<u>Bromus inermis</u>)	1.0 (southern variety)
Paiute orchardgrass (<u>Dactylis glomerata</u>)	0.5
Intermediate wheatgrass (<u>Agropyron intermedium</u>)	1.0
Kentucky bluegrass (<u>Poa pratensis</u>)	0.2
Meadow foxtail (<u>Alopecurus pratensis</u>)	0.5
FORB SPECIES³:	
Alfalfa (<u>Medicago sativa</u>)	1.0 (Ladak, Nomad, Spreader)
Porter licoriceroot (<u>Ligusticum porteri</u>)	1.0
Rockymountain penstemon (<u>Penstemon strictus</u>)	0.5
Silky lupine (<u>Lupinus sericeus</u>)	1.0
Pacific aster (<u>Aster chilensis</u>)	0.2
Sweet anice (<u>Osmorhiza occidentalis</u>)	1.0
SHRUB AND TREE SPECIES⁴:	
Antelope bitterbrush (<u>Purshia tridentata</u>)	0.5
Mountain snowberry (<u>Symphoricarpus oreophilus</u>)	2.0
Mountain big sagebrush (<u>Artemisia tridentata vaseyana</u>) ⁶	0.25 (20% purity)
Silver sagebrush (<u>Artemisia cana viscidula</u>) ⁶	0.5 (20% purity)
Woods rose (<u>Rosa woodsii</u>)	1.0
Red elderberry (<u>Sambucus racemosa</u>)	1.0 (uncleaned)
TOTAL	15.15
NURSERY OR TRANSPLANT STOCK⁵:	
	STEMS/ACRE (SPACING)
Quaking aspen (<u>Populus tremula</u>)	1,210 per acre (6 ft apart)
Bigtooth maple (<u>Acer saccharum grandidentatum</u>)	436 per acre (10 ft. apart)
Mountain ash (<u>Sorbus scopulina</u>)	436 per acre (10 ft. apart)

¹Note attachment: Recommended guidelines for seedbed preparation and planting techniques in the MONTANE ecological association.

²Alternate grass species: Basin wildrye (Elymus cinereus), Bearded wheatgrass (Agropyron trachycaulum), Thurber fescue (Festuca thurberi), Foxtail barley (Hordeum jubatum)

³Alternate forb species: Gray aster (Aster glaucodes), Showy goldeneye (Heliomeris multiflora), Cicer milkvetch (Astragalus cicer), Lobeleaf groundsel (Senecio multilobatus), American vetch (Vicia americana), Mountain goldenrod (Solidago multiradiata - collected)

⁴Alternate shrub and tree species: Shrubby cinquefoil (Potentilla fruticosa), Saskatoon serviceberry (Amelanchier alnifolia), Wax currant (Ribes cereum), White rubber rabbitbrush (Chrysothamnus nauseosus hololeucus)⁶, Blue elderberry (Sambucus cerulea), Bigtooth maple (Acer saccharum grandidentatum)

⁵Alternate nursery or transplant stock: Willow (Salix spp.), Rocky mountain maple (Acer glabrum)

⁶This species should not be covered. It should be hydrosprayed in the seed mix slurry or broadcast over the surface after drilling or covering of other seed and before application of mulch.

⁷For regeneration of aspen stands it is recommended that remnant aspen clones be ripped with a chisel toothed tool to break up the rhizomatous structures. This should stimulate adventitious sprouting of aspen from the rhizomes.

Table 1. Revegetation prescription for disturbed areas within the RIPARIAN WETLAND ecosystem in the MONTANE ecological association.

Plant Material	Pounds of Pure Live Seed/Acre
GRASS SPECIES²:	
Reed canarygrass (<i>Phalaris arundinaceae</i>)	0.5
Timothy (<i>Phleum pratense</i>)	0.5
Kentucky bluegrass (<i>Poa pratensis</i>)	0.2
Regar brome (<i>Bromus biebersteinii</i>)	1.0
Meadow fescue (<i>Festuca pratensis</i>)	1.0
Basin wildrye (<i>Elymus cinereus</i>)	1.0
Streambank wheatgrass (<i>Agropyron dasystachyum riparium</i>)	1.0
FORB SPECIES³:	
Strawberry clover (<i>Trifolium fragiferum</i>)	1.0
Richardson geranium (<i>Geranium richardsonii</i>)	1.0
Pacific aster (<i>Aster chilensis</i>)	0.2
Western yarrow (<i>Achillea millefolium lanulosa</i>)	0.1
Silky lupine (<i>Lupinus sericeus</i>)	1.0
Showy goldeneye (<i>Heliomeris multiflora</i>)	1.0
SHRUB AND TREE SPECIES⁴:	
Silver sagebrush (<i>Artemisia cana</i>) ⁶	0.5
Blue elderberry (<i>Sambucus caerulea</i>)	2.0 (uncleaned)
Red raspberry (<i>Rubus idaeus</i>)	1.0
Woods rose (<i>Rosa woodsii</i>)	1.0
TOTAL	14.0
NURSERY OR TRANSPLANT STOCK⁵:	
Willow (<i>Salix</i> spp.)	STEMS/ACRE (spacing) 1,210 (6 ft. apart) placed at high water line
Narrowleaf cottonwood (<i>Populus angustifolia</i>)	436 (10ft. apart) evenly distributed
Thinleaf alder (<i>Alnus incana occidentalis</i>)	436 (10 ft. apart) evenly distributed
Beaked sedge (<i>Carex rostrata</i>)	10,888 (2 ft. apart) plugs cut from local stock and planted in moist areas

¹Note attachment: Recommended guidelines for seedbed preparation and planting techniques in the MONTANE ecological association.

²Alternate grass species: Sheep fescue (*Festuca ovina*), Rough-stalked bluegrass (*Poa trivialis*), Smooth brome (*Bromus inermis* - northern variety), Intermediate wheatgrass (*Agropyron intermedium*)

³Alternate forb species: Idaho licoriceroot (*Ligusticum tenuifolium*), Mountain bluebells (*Mertensia ciliata* - collected), Wasatch penstemon (*Penstemon cyananthus*), Strawberry clover (*Trifolium fragiferum*)

⁴Alternate shrub and tree species: Currant (*Ribes* spp.), Common chokecherry (*Prunus virginiana*), Raspberry (*Rubus* spp.), Red elderberry (*Sambucus racemosa*)

⁵Alternate nursery or transplant stock: Water birch (*Betula occidentalis*), Red-osier dogwood (*Cornus stolonifera*), Mountain sedge (*Carex scopulorum*)

⁶This species should not be covered. It should be hydrosprayed in the seed mix slurry or broadcast over the surface after drilling or covering of other seed and before application of mulch.

Table 1. Revegetation prescription for disturbed areas within the SAGEBRUSH/GRASS ecosystem in the MONTANE ecological association.

Plant Material	Pounds of Pure Live Seed/Acre
GRASS SPECIES²:	
Intermediate wheatgrass (<u>Agropyron intermedium</u>)	1.0
Slender wheatgrass (<u>Agropyron trachycaulum</u>)	2.0
Hard sheep fescue (<u>Festuca ovina</u>)	0.5
Regar brome (<u>Bromus biebersteinii</u>)	1.0
Kentucky bluegrass (<u>Poa pratensis</u>)	0.2
Paiute orchardgrass (<u>Dactylis glomerata</u>)	0.5
FORB SPECIES³:	
Alfalfa (<u>Medicago sativa</u>)	1.0 (Ladak, Nomad, Spreader)
Northern sweetvetch (<u>Hedysarum boreale</u>)	1.0
Common sainfoin (<u>Onobrychis viciifolia</u>)	1.0
Pacific aster (<u>Aster chilensis</u>)	0.2
Eaton penstemon (<u>Penstemon eatonii</u>)	0.5
Rockymountain penstemon (<u>Penstemon strictus</u>)	0.5
SHRUB AND TREE SPECIES⁴:	
Mountain big sagebrush (<u>Artemisia tridentata vaseyana</u>) ⁶	0.25 (20% purity)
Basin big sagebrush (<u>Artemisia tridentata tridentata</u>)	0.25
Mountain snowberry (<u>Symphoricarpus oreophilus</u>)	1.0
Wax currant (<u>Ribes cereum</u>)	1.0
TOTAL	11.9
NURSERY OR TRANSPLANT STOCK⁵:	
Shrubby cinquefoil (<u>Potentilla fruticosa</u>)	STEMS/ACRE (SPACING)
Wax currant (<u>Ribes cereum</u>)	Plant 544 of each species per acre
Mountain snowberry (<u>Symphoricarpus oreophilus</u>)	randomly spaced 4 feet apart to reach a goal of 2,722 stems/acre.

¹Note attachment: Recommended guidelines for seedbed preparation and planting techniques in the MONTANE ecological association.

²Alternate grass species: Bluebunch wheatgrass (Agropyron spicatum), Thickspike wheatgrass (Agropyron dasystachyum), Pubescent wheatgrass (Agropyron intermedium trichophorum), Smooth brome (Bromus inermis-southern variety)

³Alternate forb species: Oneflower sunflower (Helianthella uniflora), Palmer penstemon (Penstemon palmeri), Cicer milkvetch (Astragalus cicer), Silky lupine (Lupinus sericeus), Porter licoriceroot (Ligusticum porteri)

⁴Alternate shrub and tree species: Antelope bitterbrush (Purshia tridentata), Saskatoon serviceberry (Amelanchier alnifolia), Gooseberry currant (Ribes montigenum)

⁵Alternate nursery or transplant stock: Antelope bitterbrush (Purshia tridentata), Utah serviceberry (Amelanchier utahensis), Squaw-apple (Peraphyllum ramosissimum), Greenleaf manzanita (Arctostaphylos patula), Basin big sagebrush (Artemisia tridentata tridentata)

⁶This species should not be covered. It should be hydrosprayed in the seed mix slurry or broadcast over the surface after drilling or covering of other seed and before application of mulch.

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
September 15, 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: Lease Permit License Land Acquisition
 Land Sale Land Exchange Other _____
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Cockrell Oil Corporation proposes to drill the 1210-0806 #1 well (wildcat) on federal lease U-65948, Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SE/4, NW/4, Section 8, Township 12 South, Range 10 East, Carbon County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

DATE: 6-10-91 Petroleum Engineer

WOI187



COCKRELL OIL
CORPORATION

1600 SMITH • SUITE 4600 • HOUSTON, TEXAS 77002-7348
TELEPHONE 713/651-1271

July 2, 1991

State of Utah
Department of Natural Resources
Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1204

RECEIVED

JUL 05 1991

DIVISION OF
OIL GAS & MINING

Re: Exception of the siting requirements
of R615-3-2
Cockrell Oil Corporation
1210-0808 No. 1
1746' FWL, 2400' FNL
Sec. 8, T12S, R10E
Carbon County, Utah

Gentlemen:

Cockrell Oil Corporation has made application to drill a 5400 foot coalbed methane test at the above location and requests an exception to rule R615-3-2. The location is 240 feet from the south line of the SE NW Section 8, T12S, R10E. This is necessary because a paved county road runs east-west through the central part of the 40-acre tract. In order to be located off the road ROW, the location must be less than the 460' minimum (240' actual) from the south line of the 40 acre tract.

Cockrell Oil Corporation controls all of the oil and gas leases within Section 8, T12S, R10E, therefore no other operators need to be notified.

Also enclosed please find a corrected copy of page 1 of the APD. The footage has been corrected to reflect the true location.

Yours very truly,

B. E. Weichman
Special Projects Manager

BEW:ys
Enclosure
cc: BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

003

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Cockrell Oil Corporation

3. ADDRESS OF OPERATOR
 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2400' FNL, 1769' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Section 8, T12S, R10E
 At proposed prod. zone
 Same As Above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately Eight (8) Miles North/Northeast of Helper, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 1769'

16. NO. OF ACRES IN LEASE
 2473.31

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2559.66'

19. PROPOSED DEPTH
 5400'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7378' GR

22. APPROX. DATE WORK WILL START*
 September 15, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" WC-50	23.0#	0-400'	320 sx Circulated to Surface *
7-7/8"	5-1/2" WC-70	17.0#	0-5400'	460 sx Cement

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JUL 05 1991

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

EIGHT-POINT RESOURCE PROTECTION PLAN ATTACHED.

I hereby certify that Cockrell Oil Corporation is authorized by the proper Lease Interest Owners to conduct lease operations associated with this Application for Permit to Drill the 1210-0806 #1, Federal Lease # UTU-65948. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Cockrell Oil Corporation, Statewide Bond # UT-0794, who will be responsible for compliance with all the terms and conditions of that portion of the lease associated with this Application for Permit to Drill.

DIVISION OF OIL GAS & MINING

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

24. [Signature] TITLE Vice-President DATE May 14, 1991
 SIGNED Felder Hollenshead
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
 APPROVED BY _____ TITLE _____ DATE: 7-15-91
 CONDITIONS OF APPROVAL, IF ANY: BY: [Signature]

*See Instructions On Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

July 19, 1991

Cockrell Oil Corporation
1600 Smith Street, Suite 4600
Houston, Texas 77002-7348

Gentlemen:

Re: 1210-0806 #1 Well, 2400 feet from the North line, 1769 feet from the West line, SE NW, Section 8, Township 12 South, Range 10 East, Carbon County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.615-3-3, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.

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

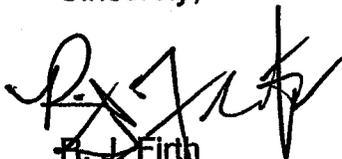
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

Page 2
Cockrell Oil Corporation
1210-0806 #1
July 19, 1991

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801) 538-6159.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-007-30140.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-22

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-65948

6. If Indian, Allottee or Tribe Name
Not Applicable

7. If Unit or CA, Agreement Designation
Not Applicable

8. Well Name and No.
1210-0806 #1

9. API Well No.
13-007-30140

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Carbon County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other Permit Pending

2. Name of Operator
Cockrell Oil Corporation (713) 651-1271

3. Address and Telephone No.
1600 Smith St., Suite 4600, Houston, TX 77002-7348

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2400' FNL, 1169' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Section 8, T12S, R10E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<u>Change Total Depth</u>
	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

Request total depth change from 5400' to 5800' and test through the Panther Formation. Estimated top of the Panther Formation at 5700'.

RECEIVED

AUG 19 1991

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Dale Heitzman Title Authorized Agent Date 08/15/91

(This space for Federal or State Office use)

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

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8-22-91

BY: [Signature]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

007

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Cockrell Oil Corporation

3. ADDRESS OF OPERATOR
 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2400' FNL, 1769' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Section 8, T12S, R10E
 At proposed prod. zone
 Same As Above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately Eight (8) Miles North/Northeast of Helper, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 1769'

16. NO. OF ACRES IN LEASE
 2473.31

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2559.66'

19. PROPOSED DEPTH
 5400'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7378' GR

22. APPROX. DATE WORK WILL START*
 September 15, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" WC-50	23.0#	0- 400'	320 sx Circulated to Surface *
7-7/8"	5-1/2" WC-70	17.0#	0-5400'	460 sx Cement

RECEIVED
 SEP 13 1991
 DIVISION OF
 OIL GAS & MINING

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

24. SIGNER Felder Hollenshead TITLE Vice-President DATE May 14, 1991
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY Bl A. Lynn Jackson TITLE Assistant District Manager for Minerals DATE SEP 10 1991

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

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Cockrell Oil Corporation

3. ADDRESS OF OPERATOR
 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2400' FNL, 1169' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Section 8, T12S, R10E
 At proposed prod. zone
 Same As Above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately Eight (8) Miles North/Northeast of Helper, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 1169'

16. NO. OF ACRES IN LEASE 2473.31

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2559.66'

19. PROPOSED DEPTH 5400'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7378' GR

22. APPROX. DATE WORK WILL START* September 15, 1991

5. LEASE DESIGNATION AND SERIAL NO.
 UTU-65948

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Not Applicable

7. UNIT AGREEMENT NAME
 Not Applicable

8. FARM OR LEASE NAME
 1210-0806

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 8, T12S, R10E

12. COUNTY OR PARISH 13. STATE
 Carbon Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" WC-50	23.0#	0- 400'	320 sx Circulated to Surface *
7-7/8"	5-1/2" WC-70	17.0#	0-5400'	460 sx Cement

RECEIVED

SEP 13 1991

DIVISION OF
OIL GAS & MINING

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

24. SIGNED [Signature] TITLE Vice-President DATE May 14, 1991
 Feldor Hollenshead
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: PKKA 11/14/91 vb

*See Instructions On Reverse Side

Doain

T12S, R10E, S.L.B.&M.

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7367 FEET.



CERTIFICATE

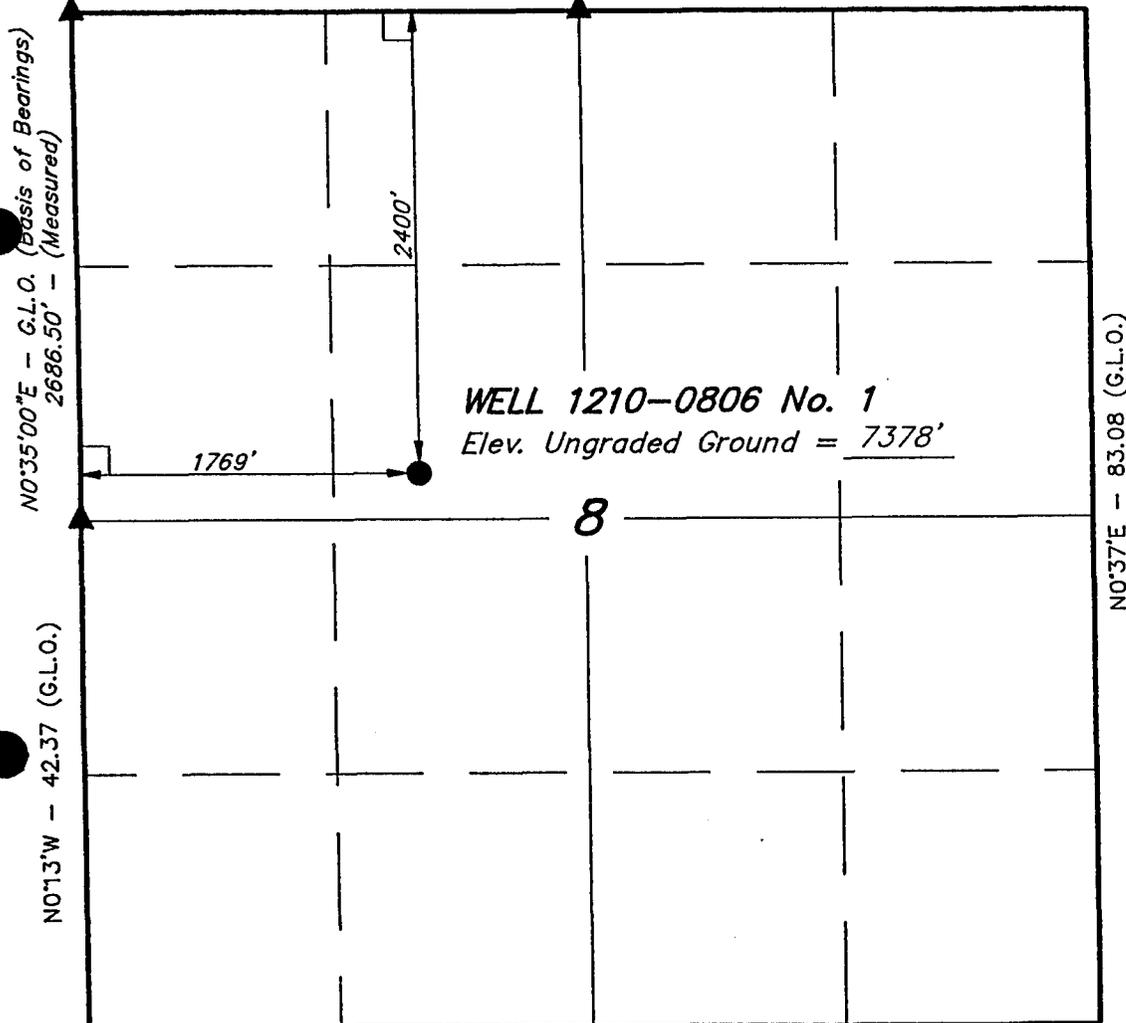
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX 1758 - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE COCKRELL OIL CORP.

S89°42'23"E - 2713.73' (Meas.) N89°26'W - 41.49 (G.L.O.)



N89°12'W - 40.72 (G.L.O.) S89°59'W - 41.31 (G.L.O.)

N0°35'00"E - G.L.O. (Basis of Bearings)
 2686.50' - (Measured)

N0°13'W - 42.37 (G.L.O.)

N0°37'E - 83.08 (G.L.O.)

▲ = SECTION CORNERS LOCATED. (Brass Caps)

Cockrell Oil Corp.
Well No. 1210-0806 #1
SWSW Sec. 3 , T. 12 S., R. 10 E.
Carbon. County, Utah
Lease U-65948

CONDITIONS OF APPROVAL

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

Be advised that Cockrell Oil Corp., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT0794 (Principal - Cockrell Oil Corporation) via surety consent as provided for in 43 CFR 3104.2.

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

This permit will be valid for a period of one year from the date of approval. A one-time, 90 day extension of this period may be granted. After permit termination, a new application must be filed for approval.

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

A. DRILLING PROGRAM

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

Daily drilling and completion progress reports shall be submitted to the District office on a weekly basis.

Surface casing shall be set in a competent zone of the North Horn Formation, and shall be equipped with a centralizer on each of the bottom three joints.

The BLM shall be kept apprised of all fluids entering or leaving the pit, through either weekly drilling reports or a final status report, submitted with the completion report. Either of which shall be submitted prior to reclamation of the pits.

No trivalent or hexavalent chromate additives shall be used in the mud system. Due to potential for contamination of usable quality water aquifers, chromates are banned from Federal leases.

A cement bond log (CBL) or cement evaluation tool (CET) shall be run on both casing strings on the first federal well drilled within this project. Depending on the results, CBLs or CETs may be required to be run on the remaining federal wells. This log shall be promptly submitted to the BLM, District Office following logging operations.

BOP systems will be consistent with API RP 53 and Onshore Oil and Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. 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. Ram preventers shall be inspected and operated each trip (no more than once a day is necessary), and annular preventers shall be inspected and operated weekly to ensure good mechanical working order. These inspections shall be recorded on the daily drilling report.

Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

When the completion program is determined, a sundry notice describing the completion shall be submitted to this office for approval.

Should the well become productive, the BLM, District Office must be notified no later than five business days after production begins. Notification shall be by letter or sundry notice, or orally to be followed by a letter or sundry notice.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 Mmcf following its completion, whichever comes first, without prior written approval of the Authorized Officer.

SENW Sec. 8, T. 12 S., R. 10 E.
Well No. 1210-0806
Cockrell Oil Corporation
Lease Status: Federal (U-65948)
Surface Ownership: Federal

Proposed Development: Well Pad, 600 ft. new access road.

Lease Stipulations:

1. No surface occupancy section 8 SWNW
2. High Country Watershed
3. Sage grouse nesting, no surface disturbance, 4-1/ 6-15

Wildlife Issues:

Mule deer and elk winter range

Sage grouse nesting/brood rearing habitat

Proximity to wet meadow

MFP Requirements:

No surface disturbance from 11-1 to 5-15

No surface disturbance from 3-15 to 7-31

No occupancy on strutting grounds

Avoid surface disturbance in riparian habitat, EO 11990

Wildlife Conditions of Approval

1. In order to protect sage grouse nesting/brood rearing, wintering mule deer and elk; exploration, drilling and other development activity will be allowed only during the period from 7-1 through 11-1.
2. No surface occupancy in T. 12 S., R. 10 E. Sec. 8 SWNW.
3. No surface occupancy or other surface disturbance within 330 feet of the center line of perennial streams or within 660 feet of springs.
4. Participate in development and implementation of offsite mitigation plan to minimize long term impacts to wildlife.

B. SURFACE USE PLAN

1. The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

2. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6.

3. A cultural resource clearance will be required before any construction begins. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

4. The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. As soon as the reserve pit has dried all areas not needed for production will be rehabilitated.

5. Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the Area Manager in advance.

6. Trash must be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations.

7. If the well is productive, cattle guards will be installed on the access road at fence crossings. The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

8. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the largest tank in the battery. All loading lines and valves will be placed inside the berm surrounding the tank battery.

9. All permanent (on-site for six (6) months or longer) structures constructed or installed (including oil well pumping units) shall be painted a flat, nonreflective, earth tone color to blend with the local environment, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities shall be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors shall be coordinated with the Price River Resource Area office prior to initiating painting.

10. All off-lease storage, off-lease measurement, or commingling (on-lease or off-lease) shall have prior written approval from the Assistant District Manager.

11. Pipeline construction activity is not authorized under this permit.

12. Copies of all water analysis required by the State of Utah in relation to surface discharge of produced water will be submitted to the Moab District Office, Bureau of Land Management.

13. Produced waste water will be confined to an unlined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the Assistant District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NPL-2B).

14. If at any time the facilities located on public land authorized by the terms of the lease are no longer included in the lease (due to contraction in the unit or other lease or unit boundary change) the BIM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer (AO).

C. REQUIRED NOTIFICATIONS AND APPROVALS

Required verbal notifications are summarized in Table 1. attached.

Spud- Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District office within twenty-four (24) hours after spudding (regardless of whether spud was made with a dry hole digger or big rig). If the spudding occurs on a weekend or holiday, the written report will be submitted on the following work day.

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

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

First Production- Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gas) will be submitted when requested by the Assistant District Manager.

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Venting/Flaring of Gas- NTL-4A allows venting/flaring of gas during the initial well evaluation period not to exceed 30 days or 50 Mmcf. Venting/flaring beyond the initial test period threshold must be approved by the District Office.

NOTIFICATIONS

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

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 50 feet prior to reaching surface casing depth;
- 3 hours prior to testing BOP's.

If the person at the above number cannot be reached, then notify Fred Oneyear in the Moab District Office at (801) 259-6111 or at home (801) 259-5937 (If unsuccessful, then notify one of the following people listed below).

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-6239
Eric Jones, Petroleum Engineer	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-221

If unable to reach the above individuals including weekends, holidays, or after hours please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS

008

DIVISION OF OIL, GAS AND MINING

API NO. 43-007-30140

SPODDING INFORMATION

NAME OF COMPANY: COCKRELL OIL COMPANY

WELL NAME: 1210-0806 #1

SECTION SEW 8 TOWNSHIP 12S RANGE 10E COUNTY CARBON

DRILLING CONTRACTOR EXETER

RIG # 7

SPODDED: DATE 10-10-91

TIME _____

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY LIS MAYS

TELEPHONE # 713-651-1271

DATE 10-15-91

SIGNED TAS/JLT

RECEIVED

RECEIVED

FILING FOR WATER IN THE STATE OF UTAH

Rec. by [Signature]
Fec Rec. 30.00
Receipt # 31932
Microfilmed
Roll #

NOV 13 1991
009
DIVISION OF OIL GAS & MINING

OCT 28 1991

OCT 21 1991

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

*WATER RIGHT NO. 91 - 4819 *APPLICATION NO. A T65703

1. *PRIORITY OF RIGHT: October 21, 1991 *FILING DATE: October 21, 1991

2. OWNER INFORMATION
Name(s): Cockrell Oil Corporation *Interest: %
Address: 1600 Smith Suite 4600
City: Houston State: Texas Zip Code: 77002
Is the land owned by the applicant? Yes No X (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: Existing Underground cfs and/or 3.0 ac-ft.

4. SOURCE: Exploratory Wells *DRAINAGE:
which is tributary to
which is tributary to

POINT(S) OF DIVERSION: COUNTY: Carbon
See Attachment #1

Description of Diverting Works: 5 1/2 inch casing, 4425 ft. to 4667 ft. deep
*COMMON DESCRIPTION: 10 miles NE of Helper Matts Summit Quad

5. POINT(S) OF REDIVERSION
The water will be rediverted from at a point:
N. 550 ft. & E. 1950 ft. from SW Cor. Sec. 11, T12S, R10E, SLB&M.

Description of Diverting Works: Portable pump to tank truck

6. POINT(S) OF RETURN
The amount of water consumed will be cfs or 3.0 ac-ft.
The amount of water returned will be cfs or ac-ft.
The water will be returned to the natural stream/source at a point(s):

7. STORAGE
Reservoir Name: See Attachment #1 Storage Period: from to
Capacity: ac-ft. Inundated Area: acres.
Height of dam: feet
Legal description of inundated area by 40 acre tract(s):

* These items are to be completed by the Division of Water Rights

8. List any other water rights which will supplement this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From _____ to _____
Stockwatering:	From _____ to _____
Domestic:	From _____ to _____
Municipal:	From _____ to _____
Mining:	From _____ to _____
Power:	From _____ to _____
Other:	From <u>Oct. 5, 1991</u> to <u>May 31, 1992</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____
 Mining: _____ Mining District in the _____ Mine.
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): Drilling of coalbed methane wells and a water disposal well,
Road Construction and Maintenance.

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): See Attachment #2

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary): _____

Cockrell intends to drill the wells mentioned in Attachment #2 and requests permission to use the water produced from the 5 Shimmin Trust Wells for this purpose. The water is produced with methane gas from Mesaverde coals. This water is not tributary to any stream system; but, is confined in the coal beds until produced. Cockrell has leased the right for this operation from the owner. Supplemental with Temporary Change Application #t91-91-09.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

B. E. Weichman
 Signature of Applicant(s)*
 B. E. Weichman, Special Projects Manager

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

 Authorized Agent (please print)

 Authorized Agent (signature)

Attachment #1

Attachment to
APPLICATION TO APPROPRIATE WATER

Owner: Cockrell Oil Corporation
1600 Smith - Suite 4600
Houston, Texas 77002-7348
Phone: (713) 651-1271

- Item #4
1. Shimmin Trust #1 located 793 feet from the south line and 780 feet from the east line of Sec. 11, T12S, R10E. Drilled to a depth of 4,667 feet with 5-1/2" casing set to total depth.
 2. Shimmin Trust #2 located 1980 feet from the north line and 800 feet from the east line of Sec. 14, T12S, R10E. Drilled to a depth of 4,650 feet with 5-1/2" casing set to total depth.
 3. Shimmin Trust #3 located 1980 feet from the north line and 1780 feet from the west line of Sec. 14, T12S, R10E. Drilled to a depth of 4,425 feet with 5-1/2" casing set to total depth.
 4. Shimmin Trust #4 located 540 feet from the south line and 1900 feet from the west line of Sec. 11, T12S, R10E. Drilled to a depth of 4,631 feet with 5-1/2" casing set to total depth.
 5. Shimmin Trust #5 located 660 feet from the north line and 2340 feet from the east line of Sec. 14, T12S, R10E. Drilled to a depth of 4,485 feet with 5-1/2" casing set to total depth.

Item #7 Water will be in temporary storage in pits at each well location as shown on the attached plat. Pits have been approved by the Oil and Gas Conservation Commission and vary in size with average size being 1,160 barrels or 48,720 gallons.

Date: October 1, 1991

Cockrell Oil Corporation

012

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

Not applicable

7. If Unit or CA, Agreement Designation

Not applicable

8. Well Name and No.

1210-0806 #1

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other CBM well

2. Name of Operator

Cockrell Oil Corporation

3. Address and Telephone No.

1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

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

2400' FNL, 1169' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Sec. 8 T12S, R10E

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

TYPE OF SUBMISSION

TYPE OF ACTION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Test for permeability

- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

Preparing to test lower zones for injectivity potential by perforating and swabbing intervals.

Test interval No. 1: 5582' - 5604'
5618' - 52' ✓

Test interval No. 2: ✓ 5402' - 06'
5409' - 17'
5428' - 35'
5481' - 91'
5497' - 5502'
5406' - 12'

RECEIVED

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

DEC 06 1991

DATE: 12-9-91 BY: [Signature]

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

Signed: [Signature]

Title: Mgr. Special Projects

Date: 12/3/91

(This space for Federal or State office use)

Approved by: _____
Conditions of approval, if any:

Title: _____

Date: _____

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

Cockrell Oil Co.
UTU 6948 1210-0806
Well #1 42-007-30140
Section 8
Township 12S
Range 10E
County, Carbon, Utah
Operator Cockrell Oil Co.
Contractor Exeter #7
10-12-91
Tested by Darren Merrick

RECEIVED

MAR 30 1992

DIVISION OF
OIL GAS & MINING

QUICK TEST INC.
OFFICE (801) 789-8159

Cockrell Oil Co.
UTU 6948 1210-0806 #1
10-12-91

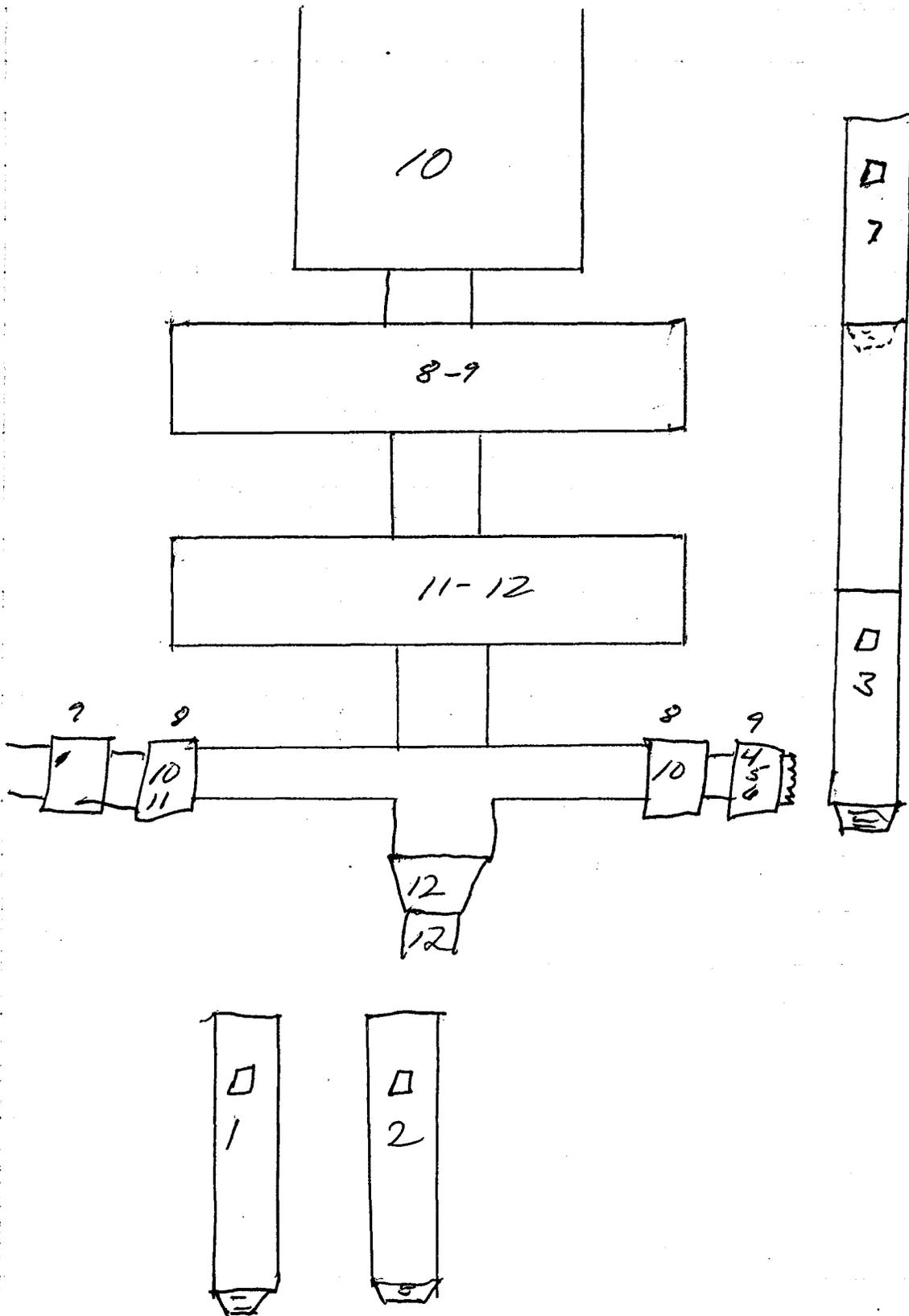
TEST #	ITEM TESTED	PRESSURE	MIN. HELD	RESULTS
1	Safety valve	2000	10	No visible leaks
2	Safety valve	2000	10	No visible leaks
3	Lower kelly	2000	10	No visible leaks
4	2nd choke, 1st set manifold valves	2000	10	No visible leaks
5	2nd choke, 2ns set manifold valve	2000	10	No visible leaks
6	2nd choke, 3rd manifold valves	2000	10	No visible leaks
7	Upper kelly	2000	10	No visible leaks
8	Pipe rams, 2nd kill, 2nd choke	2000	10	No visible leaks
9	Piperams, 1st kill, 1st, choke	2000	10	No visible leaks
10	Hydril, 1st kill, 1st choke	1500	10	No visible leaks
11	Blindrams, 1st kill, 1st set manifold valves	2000	10	No visible leaks
12	CSG blind rams, 1st kill, 1st set manifold valves	1500	30	No visible leaks

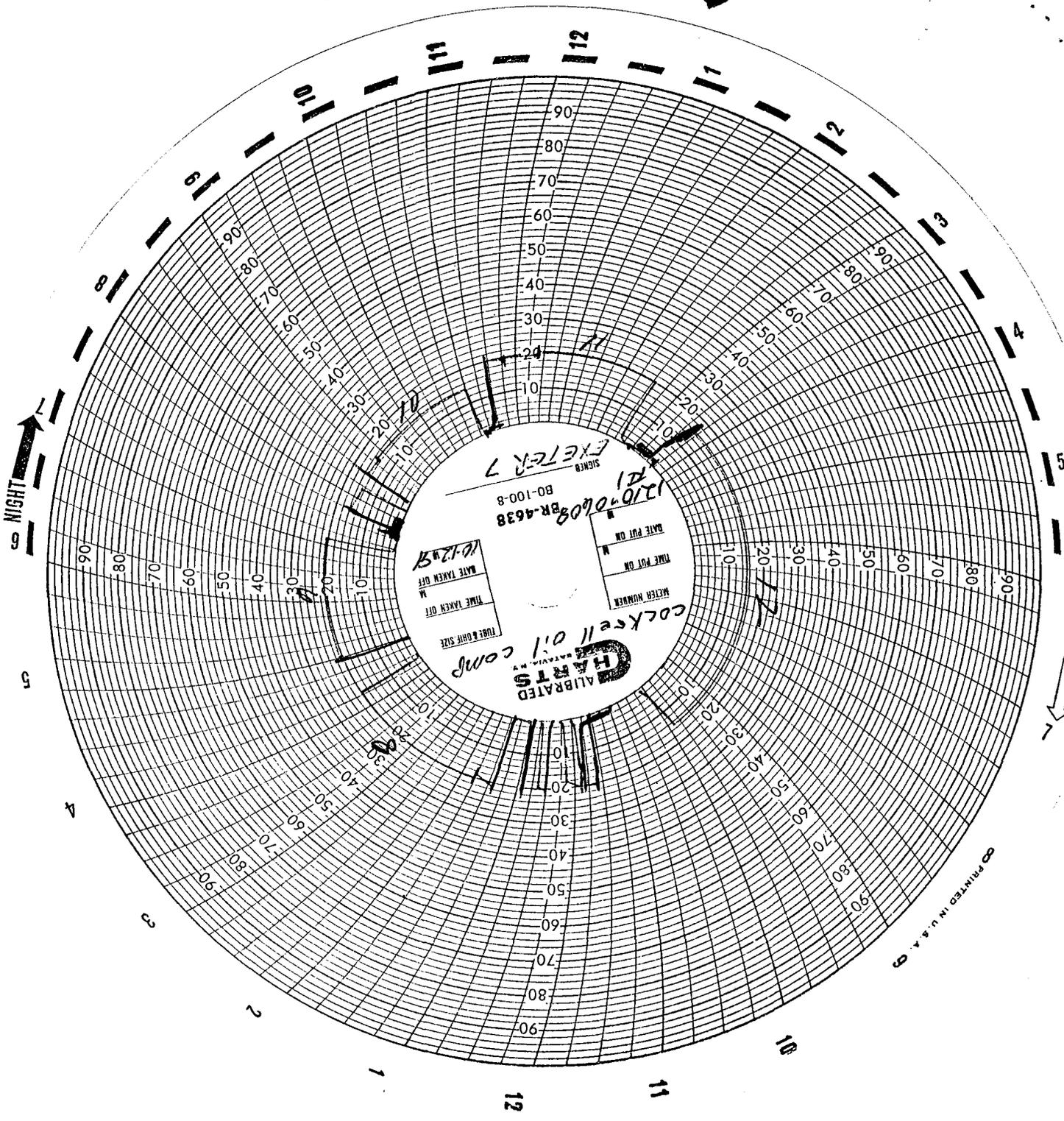
Cockrell oil comp.

Exeter #7

1200-0608⁷

10-12-91





PRINTED IN U.S.A.

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

6. Lease Designation and Serial Number UTU-65948
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number 1210-0806 #1
10. API Well Number 43-007-30140
11. Field and Pool, or Wildcat Wildcat

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— for such proposals

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) Coalbed Methane Well
2. Name of Operator Cockrell Oil Corporation
3. Address of Operator 1600 Smith Suite 4600, Houston, TX
4. Telephone Number 713/651-1271
5. Location of Well Footage : 2400' FNL, 1169' FWL (SE 1/4 NW 1/4) County : Carbon QQ, Sec, T., R., M. : Sec 8, T12S, R10E State : UTAH

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

<p>NOTICE OF INTENT (Submit in Duplicate)</p> <table> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p>SUBSEQUENT REPORT (Submit Original Form Only)</p> <table> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other _____ Change of Operator</td> <td></td> </tr> </table> <p>Date of Work Completion _____</p> <p>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other _____ Change of Operator	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other _____ Change of Operator																											

13. 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.)

Change Operator to:

PG&E Resources, Inc.
P. O. Box 25655
Dallas, Texas 75225

RECEIVED
JUN 23 1992
DIVISION OF
OIL GAS & MINING

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

Name & Signature *[Signature]* Title Special Projects Mgr Date 6/22/92
(Use Only)

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

6. Lease Designation and Serial Number UTU-65948
7. Indian Allottee or Tribe Name --
8. Unit or Communitization Agreement --

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-- for such proposals.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) CBM Well
2. Name of Operator PG&E Resources Company
3. Address of Operator 5950 Berkshire Lane, Suite 600, Dallas, TX 75225
4. Telephone Number 5 (214) 750-3988
5. Location of Well Footage : 2400' FNL & 1169' FWL Co. Sec. T., R., M. : SE NW Section 8, T-12S, R-10E

9. Well Name and Number 1210-0806 #1
10. API Well Number 43-007-30140
11. Field and Pool, or Wildcat Wildcat
County : Carbon State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

13. 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.)

Please be advised PG&E Resources Company has acquired the above named well from Cockrell Oil Corporation, 1600 Smith Street, Suite 4600, Houston, TX 77002-7348 as of July 1, 1992.

Bond coverage for this well will be provided by Bond No. 8063-38-07 and by Bond No. 8057-26-00

RECEIVED
JUL 10 1992
DIVISION OF
OIL GAS & MINING

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

Name & Signature Jim LaFevers *Jim LaFevers* Title Reg. Affairs Super. Date 7/6/92

(State Use Only)

July 6, 1992

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

Attn: Mr. R.J. Firth
Associate Director Oil & Gas

RE: Change of Operator
Castlegate, CBM Project
Cockrell Oil Corporation
to PG&E Resources Company

Dear Sir:

Please find enclosed for the above referenced subject Sundry Notices; Form 9 (in triplicate) for the following wells located in Carbon County:

STATE

- Schimmin Trust No. 1
- Schimmin Trust No. 2
- Schimmin Trust No. 3
- Schimmin Trust No. 4
- Schimmin Trust No. 5
- 1210-1602 No. 1
- 1210-1609 No. 1

FEDERAL

- 1210-0313 No. 1
- 1210-0708 No. 1
- 1210-0806 No. 1
- 1210-0907 No. 1
- 1210-1204 No. 1
- 1210-1304 No. 1
- 1210-1504 No. 1
- 1210-2302 No. 1
- 1210-2304 No. 1
- 1210-2310 No. 1
- 1210-2404 No. 1
- 1210-2412 No. 1

RECEIVED

JUL 10 1992

DIVISION OF
OIL GAS & MINING

Should additional information be required or if questions arise, please contact the undersigned at (214) 750-3988.

Sincerely,



Jim LaFevers
Regulatory Affairs Supervisor

JL/ap

wp51/jl/chgoper.ltr

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other CBM Well	5. Lease Designation and Serial No. UTU-65948
2. Name of Operator PG&E Resources Company	6. If Indian, Allottee or Tribe Name --
3. Address and Telephone No 5950 Berkshire Lane, Suite 600, Dallas, TX 75225 (214) 750-3988	7. If Unit or CA, Agreement Designation --
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2400' FNL & 1169' FWL SE NW Section 8, T-12S, R-10E	8. Well Name and No. 1210-0806 #1
	9. API Well No. 43-007-30140
	10. Field and Pool, or Exploratory Area Wildcat
	11. Country or Parish, State Carbon

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

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

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

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

Please be advised PG&E Resources Company has acquired the above named well from Cockrell Oil Corporation, 1600 Smith Street, Suite 4600, Houston, TX 77002-7348 as of July 1, 1992.

Bond Coverage for this well will be provided by Bond No. U-187011.

RECEIVED
JUL 30 1992
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Jim LaFever Title Regulatory Affairs Supervisor Date 7/6/92

(This space for Federal or State office use)
Approved by William C. Hanger Title Assistant District Manager for Minerals Date 7/27/92
Conditions of approval, if any: CONDITIONS OF APPROVAL ATTACHED

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

PG&E Resources Company
Well No. 1210-0806 #1
SENW Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah
Lease U-65948

CONDITIONS OF APPROVAL

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

Be advised that PG&E Resources Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY2554 (Principal - PG&E Resources Company) via surety consent as provided for in 43 CFR 3104.2.

Routing	
1- LCR	7- LCR
2- DPT	
3- VLC	
4- RJF	
5- RWM	
6- ADA	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-92)

TO (new operator)	<u>PG&E RESOURCES COMPANY</u>	FROM (former operator)	<u>COCKRELL OIL CORPORATION</u>
(address)	<u>5950 BERKSHIRE LN #600</u>	(address)	<u>1600 SMITH STE 4600</u>
	<u>DALLAS, TX 75225</u>		<u>HOUSTON, TX 77002-7348</u>
	<u>JIM LEFEVERS</u>		
	phone (214) <u>750-3824</u>		phone (713) <u>651-1271</u>
	account no. <u>N 0595(X)</u>		account no. <u>N 1035</u>

Well(s) (attach additional page if needed):

Name: <u>1210-2302 #1/DRL</u>	API: <u>43-007-30136</u>	Entity: <u>99999</u>	Sec <u>23</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>U-65949</u>
Name: <u>FEDERAL #7-9/DRL</u>	API: <u>43-007-30137</u>	Entity: <u>99999</u>	Sec <u>9</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>U-65948</u>
Name: <u>FEDERAL #4-15/DRL</u>	API: <u>43-007-30138</u>	Entity: <u>99999</u>	Sec <u>15</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>U-65949</u>
Name: <u>1210-2412 #1/DRL</u>	API: <u>43-007-30139</u>	Entity: <u>99999</u>	Sec <u>24</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>U-65949</u>
Name: <u>1210-0806 #1/DRL</u>	API: <u>43-007-30140</u>	Entity: <u>11272</u>	Sec <u>8</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>U-65948</u>
Name: <u>STATE #9-16/DRL</u>	API: <u>43-007-30132</u>	Entity: <u>99999</u>	Sec <u>16</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>ML-44443</u>
Name: <u>STATE #2-16/DRL</u>	API: <u>43-007-30133</u>	Entity: <u>99999</u>	Sec <u>16</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>ML-44443</u>

OPERATOR CHANGE DOCUMENTATION

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *X Bm Approvals rec'd 7-30-92. (Rec'd St. Lease Sundries 8-10-92)*
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 7-10-92)*
3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: ____
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(7-31-92)*
6. Cardex file has been updated for each well listed above. *(7-31-92)*
7. Well file labels have been updated for each well listed above. *(7-31-92)*
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(7-31-92)*
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

EASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.
8/25/92 to Ed Donner

FILMING

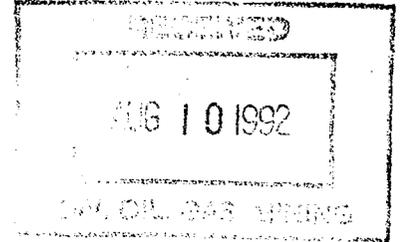
- from* 1. All attachments to this form have been microfilmed. Date: _____ 19____.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

920731 St. Lands / PG&E has a statewide blanket bond.



August 6, 1992

Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Tammi Searing

Re: PG & E Resources Company
Castlegate Prospect
Application for Temporary Change
of Water - 43-007-30140
Carbon County, Utah

Dear Tammi,

Enclosed please find one copy of the Application for Temporary Change of Water for PG & E's Castlegate Prospect in Carbon County, Utah.

As you know, several Applications for Permit to Drill have already been submitted and several additional applications will be forthcoming.

In future applications I will reference the Change Application Number (92-91-12 (91 Area), rather than send additional copies of this application.

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script that reads "Lisa L. Smith".

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangertor, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer.

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1333

July 31, 1992

West Hazmat Oil Field Services Inc.
Attn: Dale Price
East Highway 40
Roosevelt, Utah 84066

Re: Temporary Change Application #t92-91-12
Expiration Date: November 30, 1992

Dear Mr. Price:

The above referenced Temporary Change Application is hereby approved, and a copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

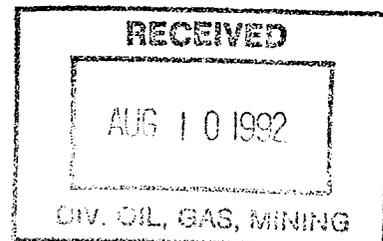
Sincerely,

William A. Wermack

for Mark P. Page
Regional Engineer

cc: Bob Davis - Price River Commissioner

Enclosures
MPP/mjk



APPLICATION FOR TEMPORARY CHANGE OF WATER

AUG 10 1992

DIV. OIL, GAS, MINING

RECEIVED
STATE OF UTAH
AUG 31 1992

WATER RIGHTS

Rec. by _____
Fee Paid \$ _____
Receipt # _____
Microfilmed _____
Roll # _____

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

*WATER RIGHT NO. 91 Area _____ *APPLICATION NO. 92-91-12

Changes are proposed in (check those applicable)
 point of diversion. place of use. nature of use. period of use.

1. OWNER INFORMATION
 Name: West Hazmat Oil Field Services Inc. Interest: _____ %
 Address: East Highway 40
 City: Roosevelt State: Utah Zip Code: 84056
2. *PRIORITY OF CHANGE: July 31, 1992 *FILING DATE: July 31, 1992
 Is this change amendatory? (Yes/No): No
3. RIGHT EVIDENCED BY: 91-366, Cert. #a229, Morse Decree First Class

Prior Approved Temporary Change Applications for this right: t91-91-09; t92-91-03; t92-91-04; t92-91-05; t92-91-09; t92-91-10.

***** HERETOFORE *****

4. QUANTITY OF WATER: 7.98 cfs and/or _____ ac-ft.
5. SOURCE: Price River
6. COUNTY: Carbon
7. POINT(S) OF DIVERSION: S. 560 ft. & E. 680 ft. from N $\frac{1}{2}$ Cor. Sec. 1, T14S, R9E, SLB&M.

Description of Diverting Works: Concrete diversion dam, earthen ditches

8. POINT(S) OF REDIVERSION
 The water has been rediverted from _____ at a point: _____

 Description of Diverting Works: _____

9. POINT(S) OF RETURN
 The amount of water consumed is 7.98 cfs or _____ ac-ft.
 The amount of water returned is _____ cfs or _____ ac-ft.
 The water has been returned to the natural stream/source at a point(s): _____

*These items are to be completed by the Division of Water Rights.

10. NATURE AND PERIOD OF USE

Irrigation: From March 1 to November 30

Stockwatering: From _____ to _____

Domestic: From _____ to _____

Municipal: From _____ to _____

Mining: From _____ to _____

Power: From _____ to _____

Other: From _____ to _____

11. PURPOSE AND EXTENT OF USE

Irrigation: 12,576.07 acres. Sole supply of 488.10 acres.

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons.

Municipal (name): _____

Mining: _____ Mining District in the _____ Mine.

Ores mined: _____ Type: _____ Capacity: _____

Power: Plant name: _____

Other (describe): _____

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Carbon Canal Delivery System

13. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres.

Height of dam: _____ feet.

Legal description of inundated area by 40 tract(s): _____

***** THE FOLLOWING CHANGES ARE PROPOSED *****

14. QUANTITY OF WATER: _____ cfs and/or 13.0 ac-ft.

15. SOURCE: 1) Willow Creek 2) Underground Exploratory Wells

Balance of the water will be abandoned: _____, or will be used as heretofore: X

16. COUNTY: Carbon

17. POINT(S) OF DIVERSION: See Attached Sheet

Description of Diverting Works: 1) Portable pump to tank truck 2) Existing 5 1/2" casing,
4425 to 4667 feet deep
 *COMMON DESCRIPTION: 10 miles NE of Helper Matts Summit Quad

18. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point: _____

Description of Diverting Works: _____

19. POINT(S) OF RETURN

The amount of water to be consumed is _____ cfs or 13.0 ac-ft.

The amount of water to be returned is _____ cfs or _____ ac-ft.

The water will be returned to the natural stream/source at a point(s): _____

-20. NATURE AND PERIOD OF USE

Irrigation: From ___/___/___ to ___/___/___
 Stockwatering: From ___/___/___ to ___/___/___
 Domestic: From ___/___/___ to ___/___/___
 Municipal: From ___/___/___ to ___/___/___
 Mining: From ___/___/___ to ___/___/___
 Power: From ___/___/___ to ___/___/___
 Other: From 7 / 31 / 92 to 11 / 30 / 92

21. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____
 Mining: _____ Mining District at the _____ Mine.
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): Exploration drilling, road construction, dust suppression

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): See Attached Sheet

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____
 Capacity: _____ ac-ft. Inundated Area: _____ acres.
 Height of dam: _____ feet.
 Legal description of inundated area by 40 tract(s): _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary):
This Temporary Change Application is being filed to replace t91-91-09 & t92-91-10 to correct the points of diversion and place of use. To date approximately 0.77 AF has been utilized under t91-91-09.

 The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Dale Price
 Signature of Applicant(s)

West Hazmat Oil Field Services Inc.
 Temporary Change Application
 #t92-91-12 (91 Area)
 July 31, 1992

#17 Points of Diversion:

Willow Creek:
 N. 320 ft. & W. 290 ft. from SE Cor. Sec. 3, T12S, R20E, SLB&M.

Shimmin Trust Wells:

Shimmin Trust #1: N. 793 ft. & W. 780 ft. from SE Cor. Sec. 11;
 Shimmin Trust #2: S. 1980 ft. & W. 800 ft. from NE Cor. Sec. 14;
 Shimmin Trust #3: S. 1980 ft. & E. 1780 ft. from NW Cor. Sec. 14;
 Shimmin Trust #4: N. 540 ft. & E. 1900 ft. from SW Cor. Sec. 11;
 Shimmin Trust #5: S. 660 ft. & W. 2340 ft. from NE Cor. Sec. 14;
 all T12S, R10E, SLB&M.

#22 Place of Use:

1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4) 13-007-30140
 #7-9 Federal: S. 2109 ft. & W. 2038 ft. from NE Cor. Sec. 9 (SW4NE4)
 #4-15 Federal: S. 660 ft. & E. 450 ft. from NW Cor. Sec. 15 (NW4NW4)
 #4-13 Federal: S. 1174 ft. & E. 1168 ft. from NW Cor. Sec. 13 (NW4NW4)
 #9-10 Jensen: N. 2500 ft. & W. 1020 ft. from SE Cor. Sec. 10 (NE4SE4)
 #2-16 State: S. 780 ft. & W. 1971 ft. from NE Cor. Sec. 16 (NW4NE4)
 #9-16 State: N. 1993 ft. & W. 702 ft. from SE Cor. Sec. 16 (NE4SE4)
 #11-10 Jensen: N. 1650 ft. & E. 1650 ft. from SW Cor. Sec. 10 (NE4SW4)
 #5-10 Jensen: S. 1680 ft. & E. 660 ft. from NW Cor. Sec. 10 (SW4NW4)
 #16-10 Jensen: N. 330 ft. & W. 330 ft. from SE Cor. Sec. 10 (SE4SE4)
 #7-15 Jensen: S. 1650 ft. & W. 1650 ft. from NE Cor. Sec. 15 (SW4NE4)
 #11-11 Shimmin Trust: N. 2350 ft. & E. 1500 ft. from SW Cor. Sec. 11 (NE4SW4)
 #10-11 Shimmin Trust: N. 2300 ft. & W. 1850 ft. from SE Cor. Sec. 11 (NW4SE4)
 #12-12 Shimmin Trust: N. 2310 ft. & E. 990 ft. from SW Cor. Sec. 12 (NW4SW4)
 #14-12 Shimmin Trust: N. 660 ft. & E. 1980 ft. from SW Cor. Sec. 12 (SE4SW4)
 #11-15 Jensen: N. 1850 ft. & E. 1650 ft. from SW Cor. Sec. 15 (NE4SW4)
 #16-9 Jensen: N. 1150 ft. & W. 1150 ft. from SE Cor. Sec. 9 (SE4SE4)
 #16-15 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 15 (SE4SE4)
 #14-14 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 14 (SE4SW4)
 #14-16 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 14 (SE4SE4)
 #14-13 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 13 (SE4SW4)
 All T12S, R10E, SLB&M.

Alternate Wells:

#12-9 Jensen: N. 2054 ft. & E. 592 ft. from SW Cor. Sec. 9 (NW4SW4)
 #14-9 Jensen: N. 675 ft. & E. 2170 ft. from SW Cor. Sec. 9 (SE4SW4)
 #4-16 State: S. 922 ft. & E. 750 ft. from NW Cor. Sec. 16 (NW4NW4)
 #11-16 State: N. 1980 ft. & E. 1980 ft. from SW Cor. Sec. 16 (NE4SW4)
 All T12S, R10E, SLB&M.

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t92-91-12

- 1. July 31, 1992 Change Application received by BW.
- 2. July 31, 1992 Application designated for APPROVAL by MP.
- 3. Comments:

Conditions:

This application is hereby APPROVED, dated July 31, 1992, subject to prior rights and this application will expire on November 30, 1992.

for William A. Wiersma
 Mark Page, Area Engineer
 for
 Robert L. Morgan, State Engineer

Attachment #2

Temporary Change Application
Number t91-91-09
Cockrell Oil Corporation
October 8, 1991

Proposed Well Locations
All locations in T12S, R10E, SLB&M:

- 1) 1210-0801: S. 415 ft. & W. 288 ft. from NE Cor. Sec. 8 (NE4NE4) 43-007-30147
- 2) 1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4) 43-007-30140
- 3) 1210-0708: S. 2000 ft. & W. 600 ft. from NE Cor. Sec. 7 (SE4NE4) 43-007-30113
- 4) 1210-0907: S. 2000 ft. & W. 2050 ft. from NE Cor. Sec. 9 (SW4NE4) 43-007-30147
- 5) 1210-0313: N. 750 ft. & E. 650 ft. from SW Cor. Sec. 3 (SW4SW4) 43-007-30134
- 6) 1210-1204: S. 1100 ft. & E. 1200 ft. from NW Cor. Sec. 12 (NW4NW4) 43-007-30110
- 7) 1210-1304: S. 1150 ft. & E. 1200 ft. from NW Cor. Sec. 13 (NW4NW4) 43-007-30109
- 8) 1210-1504: S. 700 ft. & E. 500 ft. from NW Cor. Sec. 15 (NW4NW4) 43-007-30137
- 9) 1210-1609: N. 2000 ft. & W. 775 ft. from SE Cor. Sec. 16 (NE4SE4) 43-007-30118
- 10) 1210-1602: S. 700 ft. & W. 1900 ft. from NE Cor. Sec. 16 (NW4NE4) 43-007-30110
- 11) 1210-2302: S. 800 ft. & W. 1800 ft. from NE Cor. Sec. 23 (NW4NE4) 43-007-30131
- 12) 1210-2310: N. 2000 ft. & W. 1950 ft. from SE Cor. Sec. 23 (NW4SE4) 43-007-30116
- 13) 1210-2404: S. 1150 ft. & E. 1200 ft. from NW Cor. Sec. 24 (NW4NW4) 43-007-30112
- 14) 1210-2412: N. 2100 ft. & E. 475 ft. from SW Cor. Sec. 24 (NW4SW4) 43-007-30113

STATE ENGINEER'S ENDORSEMENT

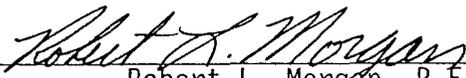
WATER RIGHT NUMBER: 91 - 4819

APPLICATION NO. T65703

1. October 21, 1991 Application received by JD.
 2. October 23, 1991 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated November 8, 1991, subject to prior rights and this application will expire on November 8, 1992.



Robert L. Morgan, P.E.
State Engineer

43-007-30140

PG&E Resources Company

8 N. Central Expressway, Suite 1000
Dallas, Texas 75206-3922
Telephone 214/750-3800
FAX 214/750-3845

Don W. Moore
Vice President Operations

November 2, 1993



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

RECEIVED

NOV 04 1993

DIVISION OF
OIL, GAS & MINING

RE: Federal 1210-0806 Well No. 1
Section 8-12S-10E
Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-5 "Sundry Notices and Reports on Wells," Subsequent Report, for the referenced well. The Federal 1210-0806 No. 1 has been perforated in the lower Blackhawk coal interval and is currently shut-in waiting on connection to PG&E's Castlegate Central Processing Facility.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,

Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division of Oil, Gas & Mining
Central File
Regulatory File

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

015

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 PG&E Resources Company

3. Address and Telephone No.
 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
 2400' FNL & 1169' FWL SE/4 NW/4 *Sec 8 T12S R10E*

5. Lease Designation and Serial No.
 UTU-65948

6. If Indian, Allottee or Tribe Name
 NA

7. If Unit or CA, Agreement Designation
 NA

8. Well Name and No.
 Federal 1210-0806 No. 1

9. API Well No.
 43-007-30140

10. Field and Pool, or Exploratory Area
 Wildcat

11. County or Parish, State
 Carbon County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Add perfs</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)</small>

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

PG&E Resources Company has completed adding perforations in the Lower Black Hawk Coal Seam as shown on the attached report.

RECEIVED
NOV 04 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
 Signed *Cindy B. Kersten* Title Sr. Regulatory Analyst Date 11/01/1993

(This space for Federal or State office use)

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

WELL HISTORY

Federal 1210-0806 No. 1

Castlegate Area
Carbon County, Utah
(PG&ER Operated)

- 10-27-93 MIRU, 1300 psi SITP. Repair tbg head valve (shear pin on Cameron valve stem). 1100 psi SICP. Bled tbg & csg to 0 psi. ND wellhead, NU BOP's, LD 24 jts prod string tbg, calc EOT at 4647'. Prep to perf Lower Black Hawk & SDFN.
- 10-28-93 90 psi SITP, 100 psi SICP. RU Schlumberger WL, make GR run with 1-11/16" CCL, GR & sinker bars. Perf with 1 SPF at 4814', 16', 18', 20', 22', 24', 26', 4865', 66', 68', 73', 74', 76', 78', 80', 82', 83', 4922', 24', 26', 28', 30', & 4932' (Lower Black Hawk Coal), 1-11/16" enerjets, 8 gram charges, .31" EH, 14.07" Berea, FL at 2400'. Landed tbg at 4684' on top flange, ND BOP's, NU wellhead. RU swab unit. Swab well for 8 hrs. Recovered 0 BC & 80 BW w/very slight gas blow. RD swab unit. RDMO workover rig. FINAL REPORT.

RECEIVED

NOV 04 1993

DIVISION OF
OIL, GAS & MINING

43-007-30140

PG&E Resources Company

38 N. Central Expressway, Suite 1000
Dallas, Texas 75206-3922
Telephone 214/750-3800
FAX 214/750-3845

Don W. Moore
Vice President Operations

016

November 2, 1993



NOV 04 1993

DIVISION OF
OIL, GAS & MINING

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

RE: Federal 1210-0806 No. 1
Section 8-T12S-R10E
Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-4 "Well Completion or Recompletion Report and Log" for the referenced well.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,

Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division Oil, Gas & Mining
Regulatory File
Central Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-65948

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Federal 1210-0806

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 8, T12S-R10E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other _____

2. NAME OF OPERATOR
PG&E Resources Company

3. ADDRESS OF OPERATOR

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. LOCATION OF (Report location clearly and in accordance with applicable requirements)*

At surface 2400' FNL & 1169' FWL SE/4 NW/4
 At top prod. interval reported below Same
 At total depth Same

RECEIVED

NOV 04 1993

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. 43-007-30140 DATE ISSUED 09/10/91

12. COUNTY OR PARISH Carbon 13. STATE Utah

15. DATE SPUNDED 10/10/91 16. DATE T.D. REACHED 11/04/91 17. DATE COMPL. (Ready to prod.) 10/28/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7393' RKB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6030' 21. PLUG, BACK T.D., MD & TVD 5970' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

4814' - 4932' Blackhawk 5402' - 5652' Mancos MVDCL

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED
 DIL/Spectral Density Dual Spaced Neutron/Microlog/Spectral Density Quick Look Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	443'	12-1/4"	350sx Premium w/additives	0
5-1/2"	17#	6030'	7-7/8"	700sx 50/50 Poz w/additives	0
		DV Tool @3977'		450sx Silca-lite w/additives	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	4684'	NA

31. PERFORATION RECORD (Interval, size and number)

4814' - 4932' 0.31" 23 Holes
 5402' - 5652'

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5402' - 5512'	47.6 bbls 15% MCA + 40 bbls produced wtr.
5582' - 5652'	2000 gals 15% MCA w/Lo-Surf 357 & HA inhibitor 85

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)				WELL STATUS (Producing or shut-in) Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10/28/93	8	NA	→	0	TSTM	80	NA
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	
Swab Test	NA	→	0	TSTM	240	NA	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Well currently shut-in waiting on connection to central processing facility TEST WITNESSED BY Mike McMican

35. LIST OF ATTACHMENTS

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

SIGNED Cindy Keister TITLE Sr. Regulatory Analyst DATE 11/02/1993

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Blackhawk Formation	4020'	4957'	Natural gas & water.	Price River Sandstone		3232'
Mancos Shale	5275'	6030'	Natural gas & water.	Castlegate Sandstone		3686'
				Blackhawk Formation		4020'
				Aberdeen Sandstone		4958'
				Spring Canyon Sandstone		5112'
				Mancos Shale		5275'

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0133
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-65948

6. If Indian, Allottee or Tribe Name

Not applicable

7. If Unit or CA, Agreement Designation

Not applicable

8. Well Name and No.

1210-0806 #1

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

CBM well

2. Name of Operator

Cockrell Oil Corporation

3. Address and Telephone No.

1600 Smith Street, Suite 4500, Houston, Texas 77002-7348

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

2400' FNL, 1169' FWL (SE 1/4 NW1/4) Sec. 8 T12s, R10E

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

TYPE OF SUBMISSION

- Notice of Interest
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Reconpletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

Plan to retest well this summer for injectivity using formation water.



NOV 26 1993

DIVISION OF
OIL, GAS & MINING

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

Signed [Signature]

Title Mgr. Special Projects

Date 5/25/92

(This space for Federal or State office use)

Approved by [Signature]

Title Branch of Fluid Minerals
Moab District

Date JUN 5 1992

Conditions of approval, if any:
Receipt DMM 6/5/92

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

018

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

MAR 2 1992

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: Oil Well, Gas Well, Other CBM well
2. Name of Operator: Cockrell Oil Corporation
3. Address and Telephone No.: 1600 Smith Street, Suite 4600, Houston, Texas 77002-7348
4. Location of Well: 2400' FNL, 1169' FWL (SE 1/4 NW1/4) Sec. 8 T12s, R10E

5. Lease Designation and Serial No.: UTU-65948
6. If Indian, Allottee or Tribe Name: Not applicable
7. If Unit or CA, Agreement Designation: Not applicable
8. Well Name and No.: 1210-0806 #1
9. API Well No.: 43-007-30140
10. Field and Pool, or Exploratory Area: Wildcat
11. County or Parish, State: Carbon

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

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notices of Intent, Subsequent Report, Final Abandonment Notice, Abandonment, Recompletion, Plugging Back, Casing Repair, Altering Casing, Other Test for Injectivity, Change of Plans, New Construction, Non-Fraction Fracturing, Water Shut-Off, Conversion to Injection, Dispose Water.

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

Test for Injectivity potential .
Test Interval No. 1: 5582' - 5604'
5618' - 52'
Test Interval No. 2: 5402' - 06'
5409' - 17'
5428' - 35'
5481' - 91'
5497' - 5502'
5406' - 12'

APPROVED
NOV 26 1992
DIVISION OF OIL, GAS & MINING

Waiting for evaluation of fluid injection test.

14. I hereby certify that the foregoing is true and correct. Signed: [Signature] Title: Mgr. Special Projects Date: 2/28/92. Approved by: [Signature] Title: Assistant District Manager for Minerals Date: 3/9/92.

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

*See instruction on Reverse Side

Cockrell Oil Corporation
No. 1210-0806 well
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

Conditions of Approval

1. Cockrell Oil Corporation is approved to perform an injectivity test in accordance with the Utah State Department of Oil, Gas and Mining's requirements.
2. BLM, Moab District Office shall receive a copy of the injection test results within 30 days of the test.
3. Dean Nyffeler, BLM, Price River Resource Area Office shall be notified 24 hours prior to conducting the test. Dean Nyffeler's phone number is (801) 637-4584.

019

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

5. Lease Designation and Serial No.
Fee U-65948.ej

6. If Indian, Allottee or Tribe Name
Not applicable

7. If Unit or CA, Agreement Designation
Not applicable

8. Well Name and No.
1210-0806 #1

9. API Well No.
43-007-30140

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Carbon

1. Type of Well
 Oil Well Gas Well Other CBM well

2. Name of Operator
Cockrell Oil Corporation

3. Address and Telephone No.
1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2400' FNL, 1169' FWL (SE $\frac{1}{4}$ NW $\frac{1}{4}$) Sec. 8 T12S, R10E

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

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

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

Preparing to test lower zones for injectivity potential by perforating and swabbing intervals.

- Test interval No. 1: 5582' - 5604'
5618' - 52'
- Test interval No. 2: 5402' - 06'
5409' - 17'
5428' - 35'
5481' - 91'
5497' - 5502'
5406' - 12'

NOV 26 1993

DIVISION OF
OIL, GAS & MINING

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

Signed [Signature] Title Mgr. Special Projects Date 12/3/91

(This space for Federal or State office use)

Approved by [Signature] Title Branch of Fluid Minerals Date DEC 31 1991

Conditions of approval, if any: Moab District

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

ACCEPT: 12/31/91 [Signature]

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-65948

6. If Indian, Allottee or Tribe Name

Not applicable

7. If Unit or CA, Agreement Designation

Not applicable

8. Well Name and No.

1210-0806 #1

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

CBM well

2. Name of Operator

Cockrell Oil Corporation

3. Address and Telephone No.

1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

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

2400' FNL, 1169' FWL (SE 1/4 NW1/4) Sec. 8 T12s, R10E

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

TYPE OF SUBMISSION

TYPE OF ACTION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Test for Injectivity

- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

Test for Injectivity potential .

Test Interval No. 1: 5582' - 5604'
5618' - 52'

Test Interval No. 2: 5402' - 06'
5409' - 17'
5428' - 35'
5481' - 91'
5497' - 5502'
5406' - 12'

RECEIVED

NOV 26 1993

DIVISION OF
OIL, GAS & MINING

RECEIVED - 3 AM 11:10
NOV 26 1993

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

Signed [Signature]

Title Mgr. Special Projects

Date 1/15/92

(This space for Federal or State office use)

Approved by [Signature]

Title Branch of Fluid Minerals

Moab District

Date FEB - 7 1992

Conditions of approval, if any:

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

NOTE: eij 2/6/92

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

UTU-65948

6. If Indian, Allotment or Tribe Name

Not applicable

7. If Unit or CA, Agreement Designation

Not applicable

8. Well Name and No.

1210-0806 #1

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other CBM well

2. Name of Operator

Cockrell Oil Corporation

3. Address and Telephone No.

1600 Smith Street, Suite 4600, Houston, Texas 77002-7348

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

2400' FNL, 1169' FWL (SE 1/4 NW1/4) Sec. 8 T12s, R10E

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TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Subsequent Report

Final Abandonment Notice

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other Test for Injectivity

Change of Plans

New Construction

Non-Routine Fracturing

Water Shut-Off

Conversion to Injection

Dispose Water

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

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Test Interval No. 2: 5402' - 06'
5409' - 17'
5428' - 35'
5481' - 91'
5497' - 5502'
5406' - 12'

NOV 26 1991

DIVISION OF
OIL, GAS & MINING

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

Signed [Signature]

Title Mgr. Special Projects

Date 2/7/92

(This space for Federal or State office use)

Approved by [Signature]
Conditions of approval, if any:

Title Branch of Fluid Minerals
Moab District

Date MAR 2 1992

ACCEPT: [Signature] 2/27/92

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



December 15, 1993

Ms. Vickey Carney
 Production Group Supervisor
 Utah Dept. of Natural Resources
 Division of Oil, Gas & Mining
 355 West No. Temple
 3 Triad Center, Suite 350
 Salt Lake City, UT 84180-1203

RECEIVED

DEC 17 1993

Re: Federal 1210-0806 # 1 API No. 43-007-30140
 Submittal of Electric and Radioactivity Logs
125 DE 8

DIVISION OF
 OIL, GAS & MINING

Dear Ms. Carney:

Referring to your letter sent to Cindy R. Keister at PG & E on November 17, 1993, in which you requested a copy of the logs on referenced well, we are responding to your request on behalf of PG & E. Enclosed is a copy of the following logs:

Dual Induction Guard Log ✓
 Spectral Density Quick Look Log ✓
 Spectral Density Dual Spaced Neutron Log ✓
 Micro log ✓

I apologize for the slip-up in that I was under the impression that these logs had been sent to you long ago.

Sincerely,

Ben E. Weichman
 Geologist

BW/mt
 enclosure

CC: PG&E Resources Company
 6688 N. Central Expressway, Suite 1000
 Dallas, Texas 75206-3800

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

023

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-65948

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 6-8

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon County, Utah

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

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

2400' FNL & 1169' FWL SE/4 NW/4

Sec 8, T12S R 10E

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

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

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

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

PG&E Resources Company requests approval to change the Federal 1210-0806 No. 1 well name to the Federal 6-8. This name change will make the well name consistent with all the other wells in the Castlegate CBM Project operated by PG&E.

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

RECEIVED

DEC 30 1993

DATE: 1-3-94
BY: [Signature]

DIVISION OF
OIL, GAS & MINING

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

Signed [Signature] Title Sr. Regulatory Analyst Date 12/28/1993

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

024

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 PG&E Resources Company

3. Address and Telephone No.
 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
 2400' FNL & 1169' FWL SE/4 NW/4

5. Lease Designation and Serial No.
 UTU-65948

6. If Indian, Allottee or Tribe Name
 NA

7. If Unit or CA, Agreement Designation
 NA

8. Well Name and No.
 Federal 6-8

9. API Well No.
 43-007-30140

10. Field and Pool, or Exploratory Area
 Wildcat

11. County or Parish, State
 Carbon County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input checked="" type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)</small>

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

PG&E Resources Company requests approval to squeeze the Blackhawk Coal perforations and place the Federal 6-8 on injection as shown on the attached procedure and wellbore diagrams

RECEIVED

JAN 05 1994

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
 Signed Candy B. Leister Title Sr. Regulatory Analyst Date 01/04/1993

(This space for Federal or State office use)

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

**CASTLEGATE PROJECT
CHANGE OF DISPOSAL ZONE
SUMMARY OF WORKOVER PROCEDURES
DECEMBER 30, 1993**

Convert the Federal No. 6-8 to injection.

PROCEDURE

1. MIRU service rig. Pull tubing. RIH; set RBP at 5300'. Test RBP. Set packer at 4700'+/-. Squeeze the Blackhawk Coals w/ cement. Release packer & POOH. WOC.
2. Drill out cement and test squeeze. Pull RBP.
3. RIH w/ packer and internally coated tubing; set packer at 5350'+/-. Pressure test the casing (24 hr DOGM notice required). Place well on injection.

lws

FEDERAL NO. 6-8

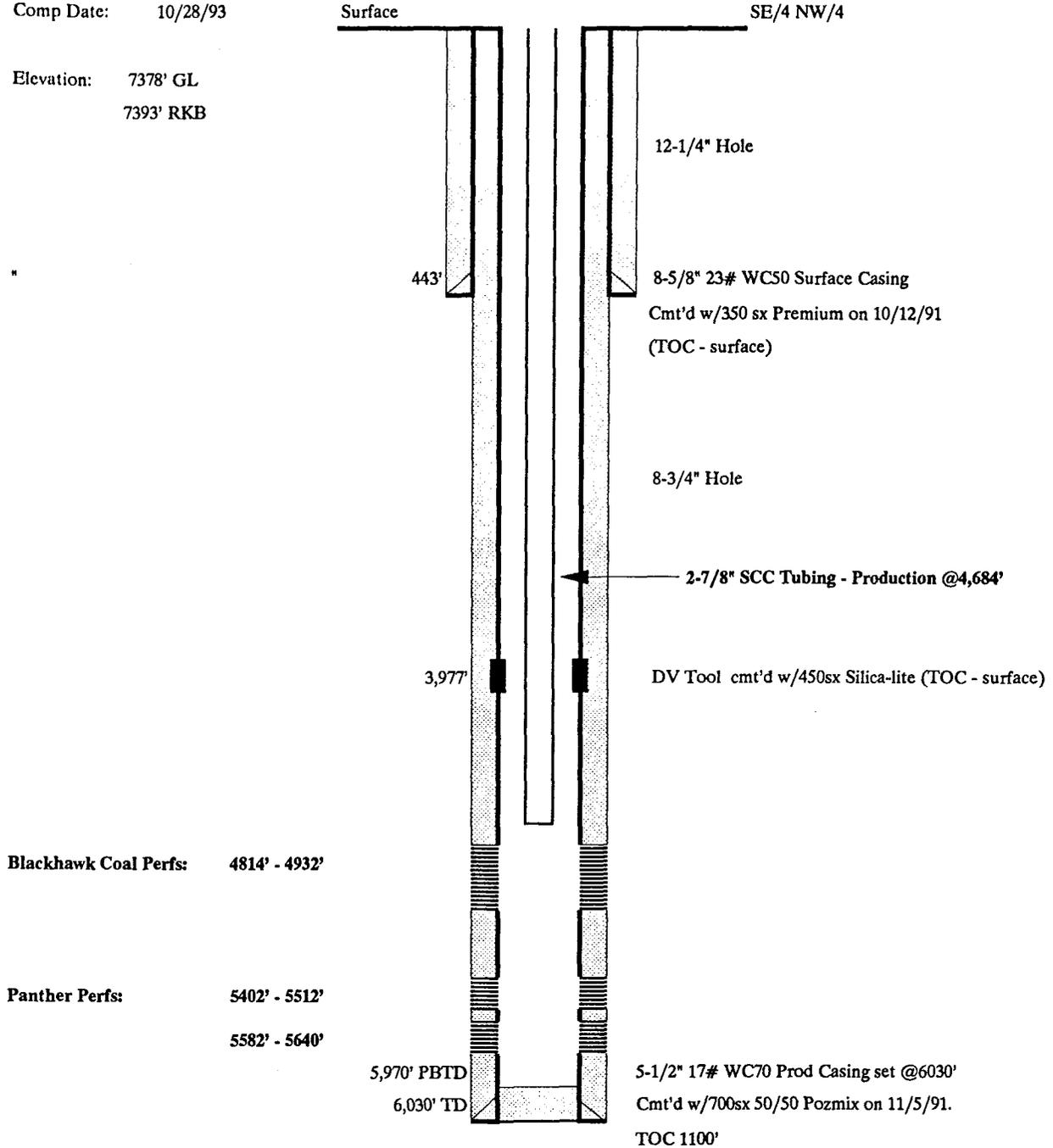
Castlegate CBM Project
Carbon County, Utah

CURRENT COMPLETION

Spud Date: 10/10/91
Comp Date: 10/28/93

Sec 8-T12S-R10E
SE/4 NW/4

Elevation: 7378' GL
7393' RKB



FEDERAL NO. 6-8

Castlegate CBM Project
Carbon County, Utah

PROPOSED SWD COMPLETION

Spud Date: 10/10/91

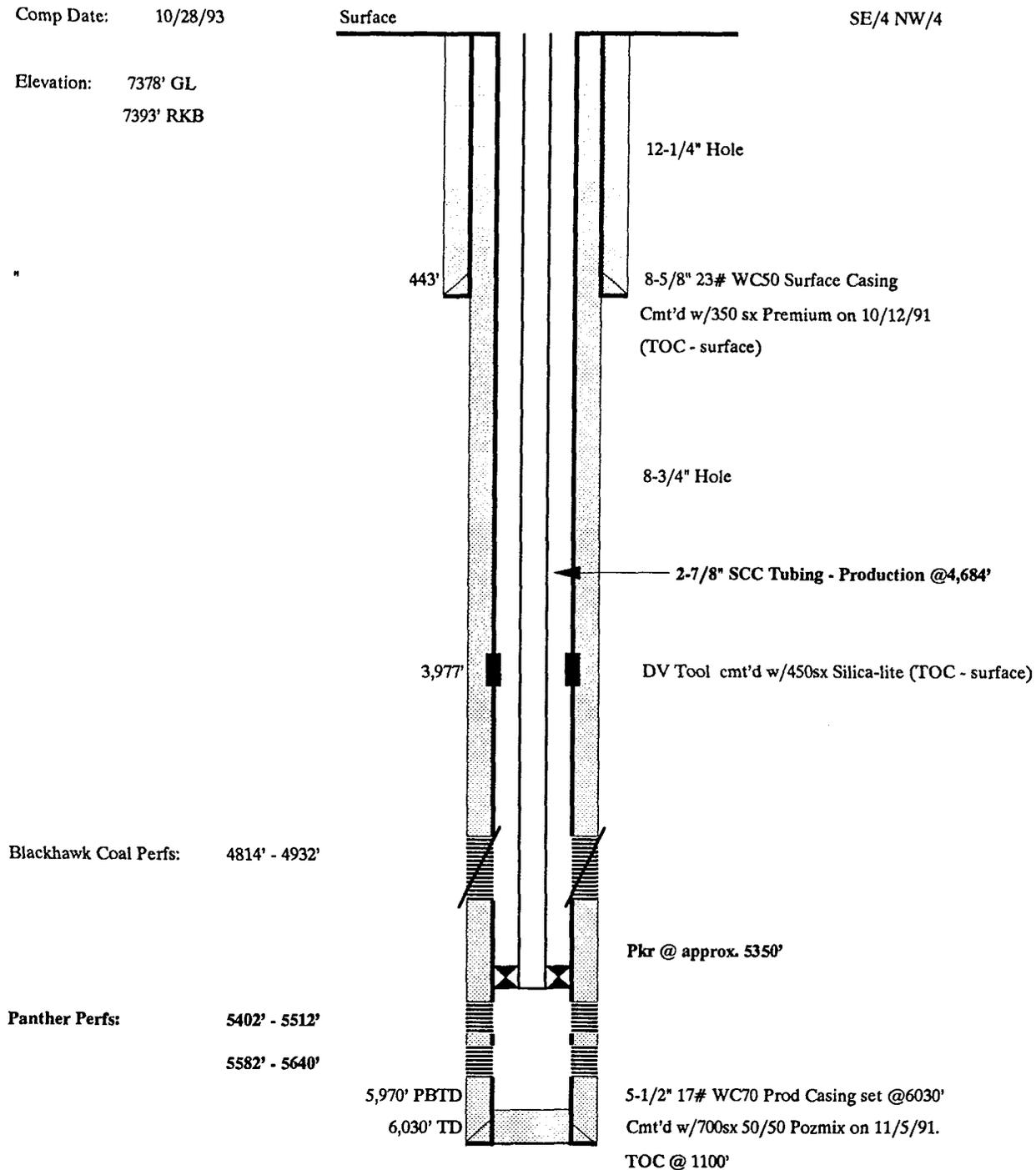
Comp Date: 10/28/93

Sec 8-T12S-R10E

SE/4 NW/4

Elevation: 7378' GL

7393' RKB



January 4, 1994

RECEIVED

JAN 05 1994

DIVISION OF
OIL, GAS & MINING



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

Attention: Mr. Gil Hunt

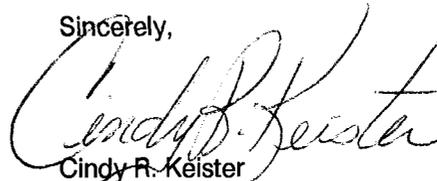
RE: Application for Water Disposal Well
Federal No. 6-8
Castlegate CBM Project
Carbon County, Utah

Dear Mr. Hunt:

PG&E Resources Company respectfully requests approval to utilize the referenced well for salt water disposal. The enclosed application has been prepared in accordance with R615-5-2 and is being submitted for your review and approval.

If you have any questions or need additional information, please contact the undersigned at (214) 706-3640 or Jim LaFevers at (214) 750-3988.

Sincerely,



Cindy R. Keister
Sr. Regulatory Analyst

Enclosures

cc: W. Sutton
J. LaFevers
Central File
Regulatory File

**APPLICATION FOR WATER DISPOSAL WELL
FEDERAL NO. 6-8
CASTLEGATE CBM PROJECT
CARBON COUNTY, UTAH**

- A. OVERVIEW
- B. UIC FORM 1
- C. PLAT
- D. WELLBORE DIAGRAMS
- E. ELECTRIC LOGS
- F. CEMENT BOND LOG
- G. CASING PROGRAM
- H. CASING TESTING PROGRAM
- I. INJECTION FLUID
- J. INJECTION PRESSURES
- K. REVIEW OF WELLS WITHING 1/2 MILE RADIUS
- L. GEOLOGIC DATA
- M. INJECTIVITY DATA
- N. AFFIDAVIT OF NOTIFICATION
- O. LABORATORY TESTS

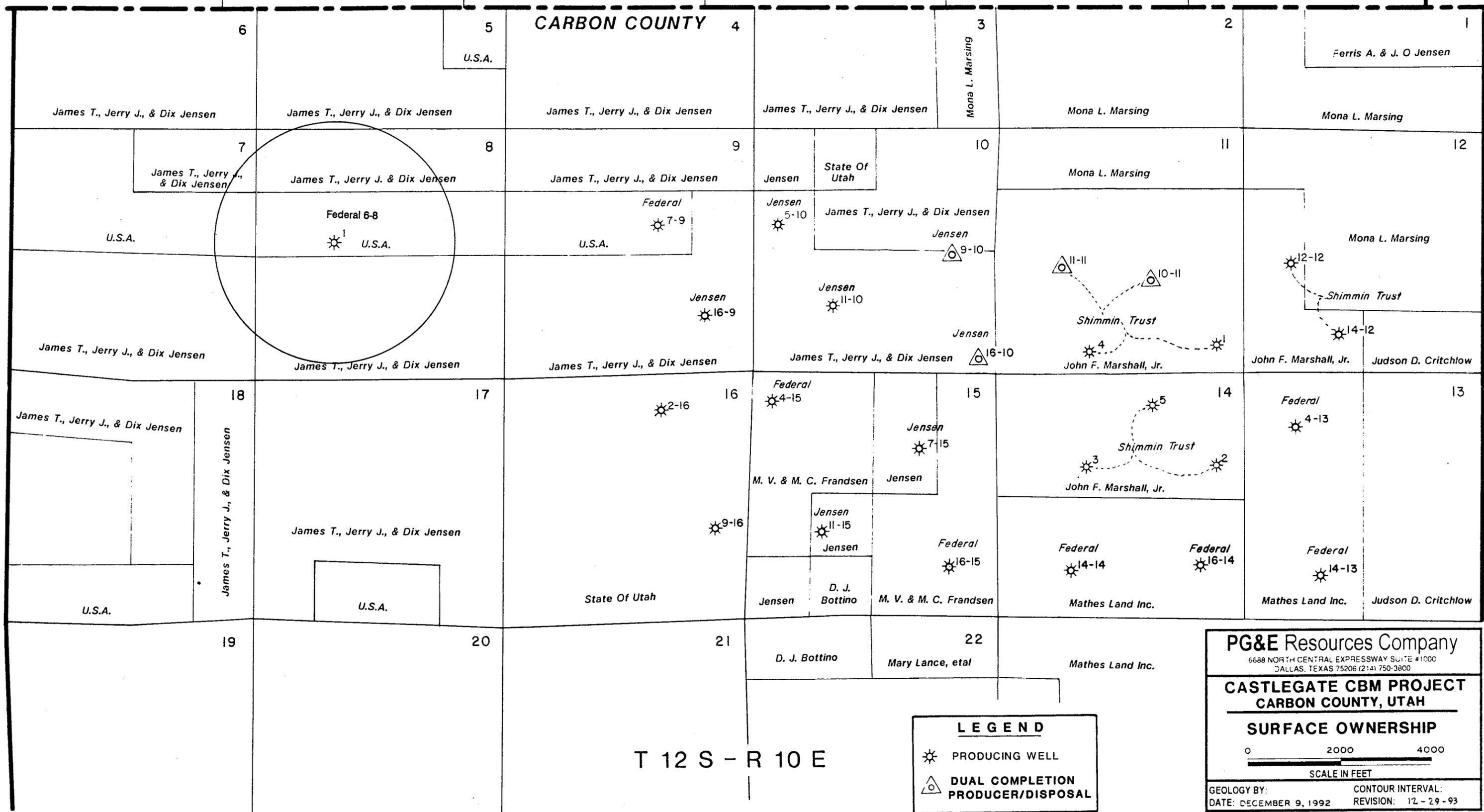
**CASTLEGATE CBM PROJECT
FEDERAL NO. 6-8
CARBON COUNTY, UTAH**

A. OVERVIEW

The purpose of the Castlegate CBM Project is to develop and exploit the Coal Bed Methane associated with the Blackhawk Coal in Carbon County, Utah. The Methane will be produced through twenty-five (25) wells which have been drilled and completed. Exploitation of the Methane from the Blackhawk Coal requires that the coal be dewatered. As the water is removed from the coal, the Methane will begin to disassociate and will be produced. PG&E Resources intends to inject the produced water into the Panther Sand. This would be accomplished by plugging off the Blackhawk perforations and using the existing perforations (5402' - 5640') for injection.

B. UIC FORM 1

C. PLAT



CARBON COUNTY

T 12 S - R 10 E

LEGEND

- PRODUCING WELL
- DUAL COMPLETION PRODUCER/DISPOSAL

PG&E Resources Company
 6688 NORTH CENTRAL EXPRESSWAY SUITE #1000
 DALLAS, TEXAS 75206 (214) 750-3800

**CASTLEGATE CBM PROJECT
 CARBON COUNTY, UTAH**

SURFACE OWNERSHIP

0 2000 4000
 SCALE IN FEET

GEOLOGY BY: _____ CONTOUR INTERVAL: _____
 DATE: DECEMBER 9, 1992 REVISION: 12 - 29 - 93

D. WELLBORE DIAGRAMS

FEDERAL NO. 6-8

Castlegate CBM Project
Carbon County, Utah

CURRENT COMPLETION

Spud Date: 10/10/91
Comp Date: 10/28/93

Sec 8-T12S-R10E
SE/4 NW/4

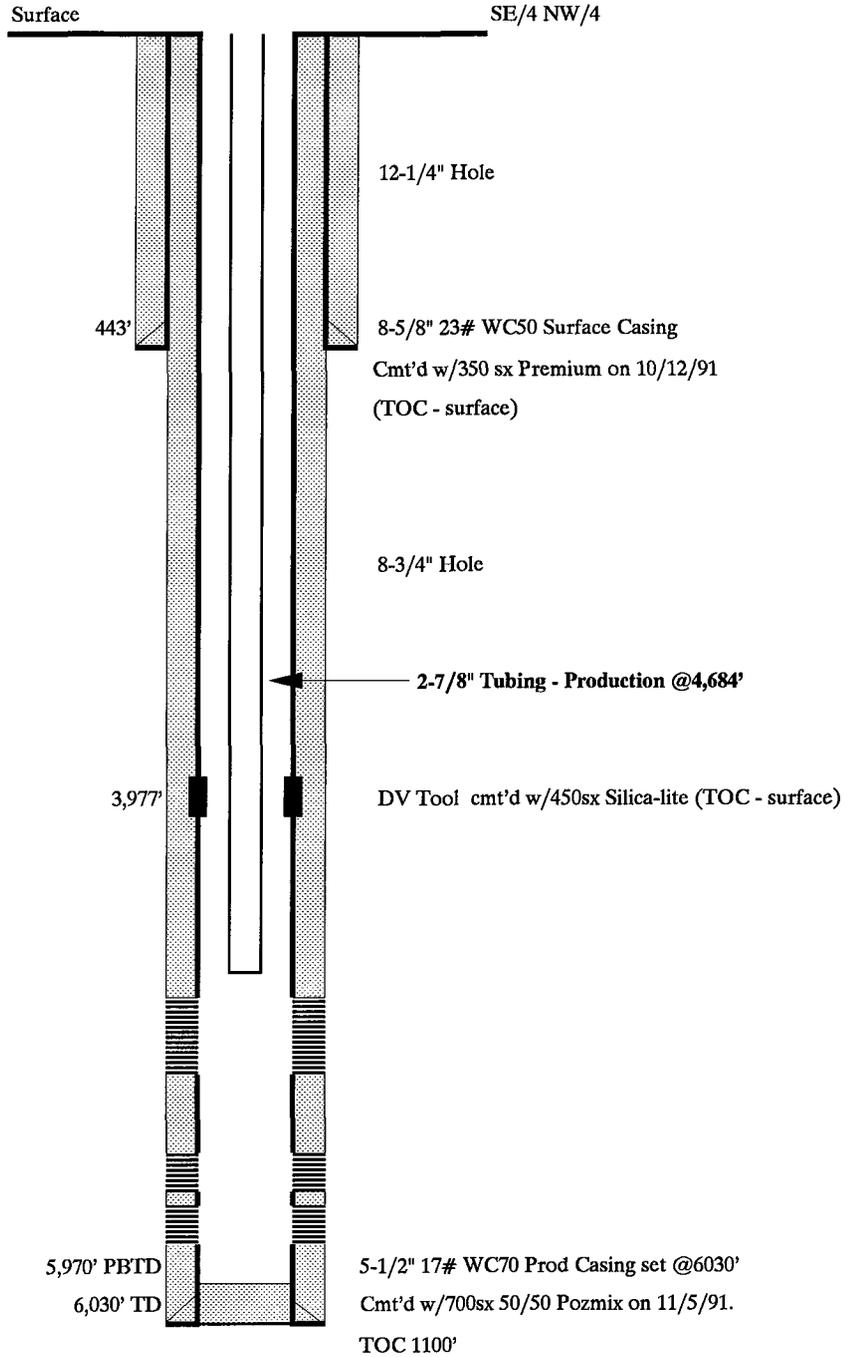
Elevation: 7378' GL
7393' RKB

"

Blackhawk Coal Perfs: 4814' - 4932'

Panther Perfs: 5402' - 5512'

5582' - 5640'



FEDERAL NO. 6-8

Castlegate CBM Project
Carbon County, Utah

PROPOSED SWD COMPLETION

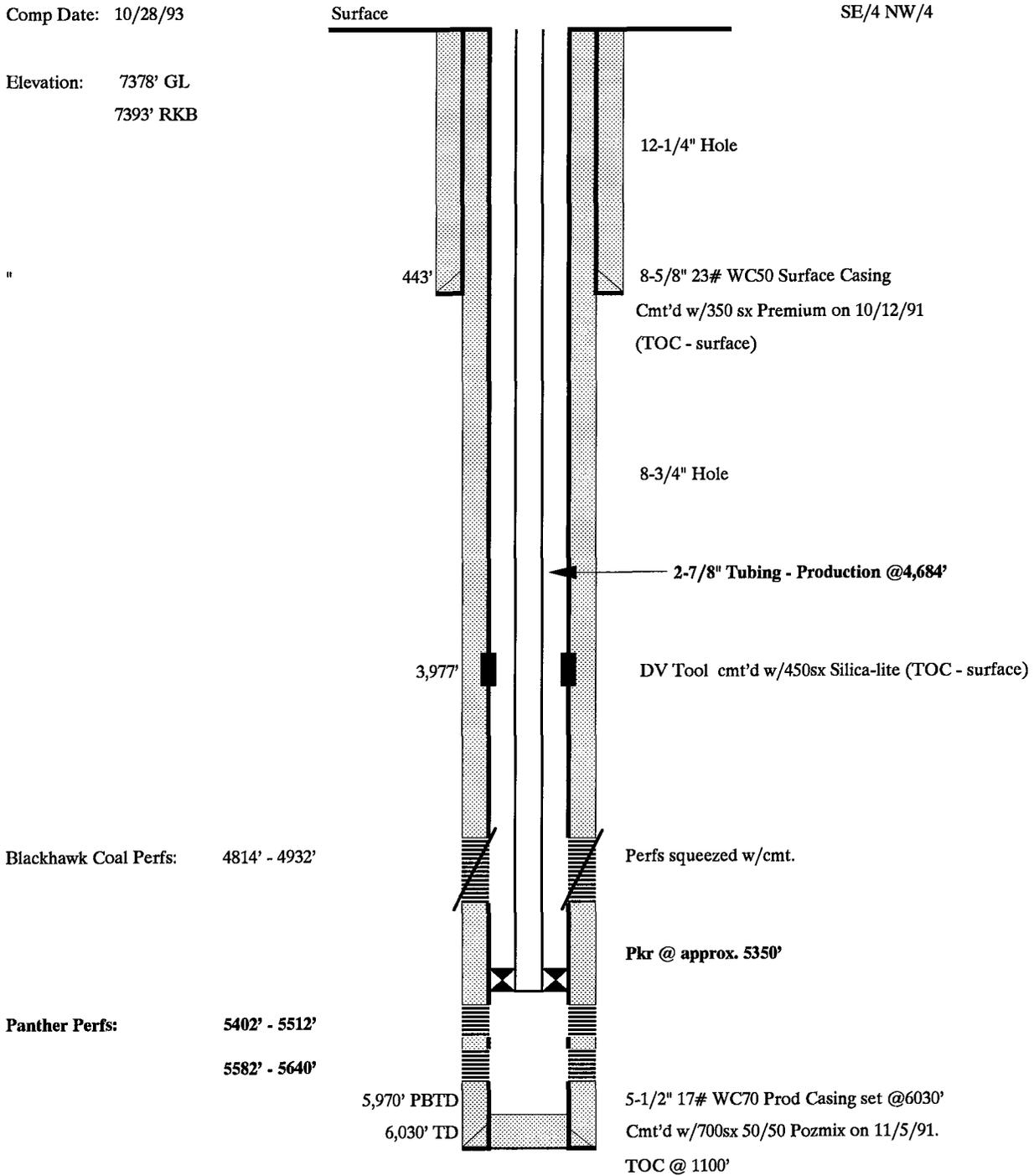
Spud Date: 10/10/91

Comp Date: 10/28/93

Elevation: 7378' GL
7393' RKB

Sec 8-T12S-R10E

SE/4 NW/4



E. ELECTRIC LOGS

A copy of the marked injection interval is attached for your convenience. The electric logs have been submitted and are on file with the Utah Division of Oil, Gas & Mining and Bureau of Land Management.

F. CEMENT BOND LOGS

The Cement Bond Log was run by Halliburton Logging Services, Inc. on November 12, 1991 and has been previously submitted to the Division of Oil, Gas and Mining.

G. CASING PROGRAM

The casing program is reflected on the attached wellbore diagram. Before injection begins, the casing outside the tubing shall be tested to 1000 psi as required in R615-5-5.

H. CASING TEST PROGRAM

Before injection begins, the casing outside the tubing shall be tested to 1000 psi as required in R615-5-5.

I. INJECTION FLUID

The injection fluid will consist of produced water containing an average of 9,000 mg/1 TDS. The saltwater is a byproduct of gas production from the Blackhawk Coal formation. The proposed daily injection rates are: maximum - 6,500 barrels per day, average - 5,000 barrels per day.

J. INJECTION PRESSURES

The proposed injection pressures are: maximum - 2,000 psig, average - 1,500 psig.

K. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS

There are no wells located within a 1/2 mile radius.

L. GEOLOGIC DATA

The proposed injection zone for the produced water from the Blackhawk Coal Section using the Federal No. 6-8 Well is in the Panther sandstone. The Panther sandstone is a Cretaceous age sand member of the upper Mancos shale that consists of very fine to fine grained, sub-angular to sub-rounded medium to well sorted, slightly calcareous sediments. As the Panther sandstone thins eastward, lateral extent is not known through the majority of the project area since this well is on the western side. Additionally, this was the only well that was drilled deep enough to penetrate the Panther sand. The Panther sand is bound by the Mancos shale below and the inter-tonguing of the Mancos shale above.

L. GEOLOGY (CONT'D)

Using existing perforations in the wellbore from 5402' - 5652' (OA) some initial testing for water disposal has been done and at this time there appears to be no structural or stratigraphic limitations which would effect the conveyance and/or storage of the injected water.

M. INJECTIVITY DATA

A Step Rate Test was conducted by Cockrell Oil & Gas, indicates a maximum injection rate of approximately 775 barrels per day or less to remain at or below the frac gradient (0.41 psi/ft.).

INJECTION FALLOFF ANALYSIS
 COCKRELL OIL CORPORATION
 WELL #1210-0816
 PANTHER SANDS, 5402-5652 FT.
 INDIAN CANYON FIELD
 CARBON COUNTY, UTAH

c.bd
 c.pvt
 lr5.rpt

HALLIBURTON RESERVOIR SERVICES
 LINEAR REGRESSION ANALYSIS
 LINE SOURCE RADIAL FLOW MODEL

VARIABLE RATE CASE WITH CONVOLUTED RATE-TIME
 Y VS. SUM(DQ*LOG(DT))
 LAMINAR FLOW IN RESERVOIR

BASIC DATA:

RESERVOIR FLUID	OIL	
INITIAL PRESSURE.	2011.26	PSIA
AVERAGE PRESSURE.	2126.07	PSIA
BASE PRESSURE.	14.73	PSIA
RESERVOIR TEMPERATURE.	128.0	DEG.F.
OIL VOLUME FACTOR.	1.000	RB/STB
FLUID VISCOSITY.	1.000	CP.
TOTAL COMPRESSIBILITY.	6.700	V/MMV/PSI
NET THICKNESS.	96.0	FT.
EFFECTIVE POROSITY.	10.00	%
WELLBORE RADIUS.	0.3	FT.
LAST FLOW RATE.	-1200.0	RB/D
LAST FLOW PRESSURE.	2240.88	PSIA

ANALYSIS RESULTS:

AVG. DIFF. BETWEEN MEAS. AND CALC. PRESS	0.13	PSIA
PRESSURE INTERCEPT, PI OR P*.	1963.66	PSIA
EFFECTIVE PERMEABILITY.	7.187	MD.
SKIN EFFECT.	-5.159	
PRESS. INCREASE DUE TO SKIN.	1267.24	PSIA
COMPLETION EFFICIENCY.	557.13	%
TRANSIENT RADIUS.	501.5	FT.
AT TRANSIENT TIME OF.	18.052	HRS.
EQUIVALENT FRACTURE LENGTH.	37.5	FT.
INITIAL OIL IN PLACE.	698.2	STB/AF

INJECTION FALLOFF ANALYSIS
 COCKRELL OIL CORPORATION
 WELL #1210-0816
 PANTHER SANDS, 5402-5652 FT.
 INDIAN CANYON FIELD
 CARBON COUNTY, UTAH

c.a
 c.bd
 c.pvt
 lr3.rpt

HALLIBURTON RESERVOIR SERVICES
 LINEAR REGRESSION ANALYSIS
 LINE SOURCE RADIAL FLOW MODEL

VARIABLE RATE CASE WITH CONVOLUTED RATE-TIME
 Y VS. SUM(DQ*LOG(DT))
 LAMINAR FLOW IN RESERVOIR

BASIC DATA:

RESERVOIR FLUID	OIL	
INITIAL PRESSURE.	2011.26	PSIA
AVERAGE PRESSURE.	2116.44	PSIA
BASE PRESSURE.	14.73	PSIA
RESERVOIR TEMPERATURE.	128.0	DEG.F.
OIL VOLUME FACTOR.	1.000	RB/STB
FLUID VISCOSITY.	1.000	CP.
TOTAL COMPRESSIBILITY.	6.700	V/MMV/PSI
NET THICKNESS.	96.0	FT.
EFFECTIVE POROSITY.	10.00	%
WELLBORE RADIUS.	0.3	FT.
LAST FLOW RATE.	-2400.0	RB/D
LAST FLOW PRESSURE.	2331.45	PSIA

ANALYSIS RESULTS:

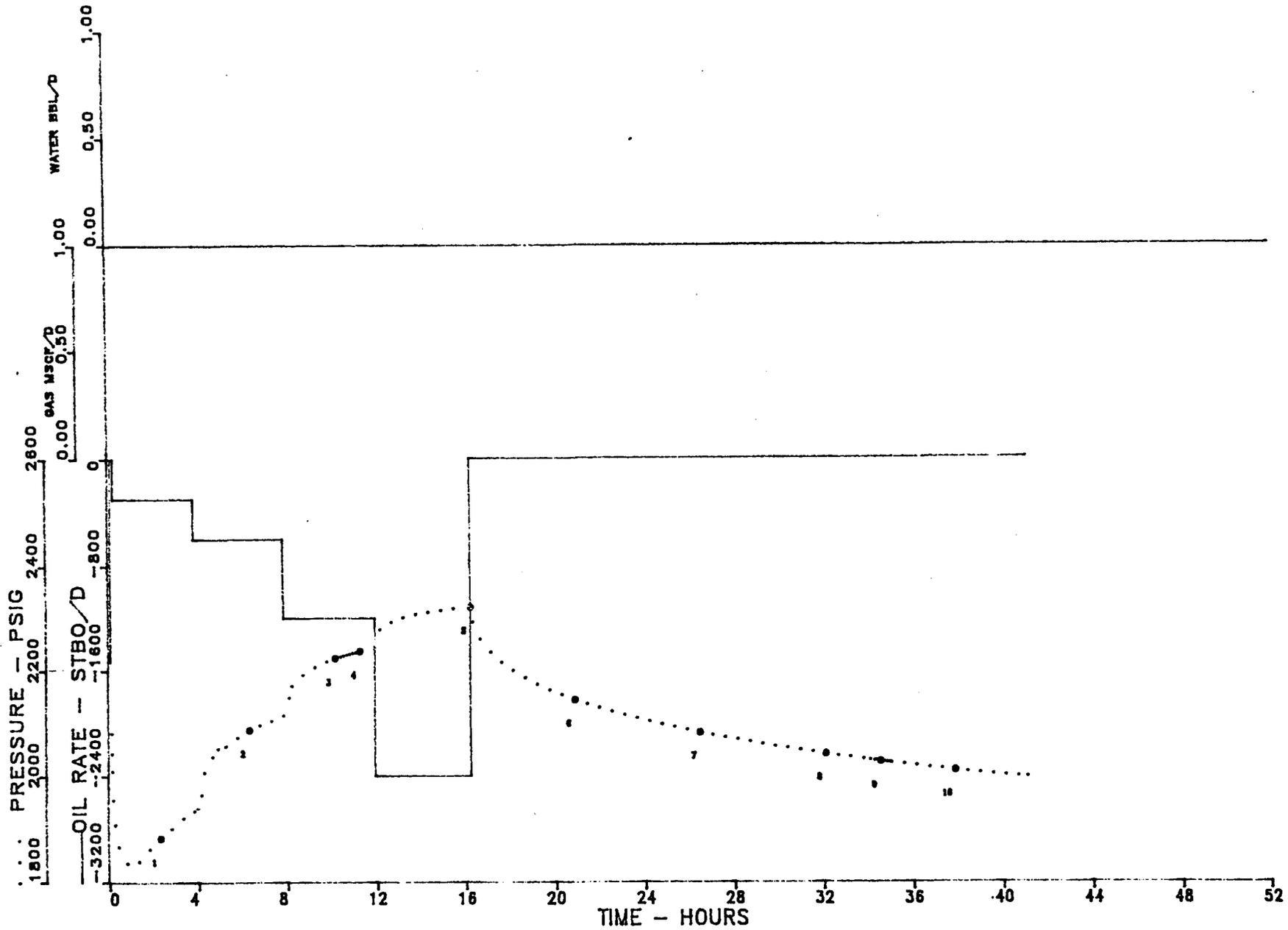
AVG. DIFF. BETWEEN MEAS. AND CALC. PRESS	0.18	PSIA
PRESSURE INTERCEPT, PI OR P*.	1901.43	PSIA
EFFECTIVE PERMEABILITY.	4.303	MD.
SKIN EFFECT.	-5.658	
PRESS. INCREASE DUE TO SKIN.	4642.87	PSIA
COMPLETION EFFICIENCY.	1179.69	%
TRANSIENT RADIUS.	470.3	FT.
AT TRANSIENT TIME OF.	24.652	HRS.
EQUIVALENT FRACTURE LENGTH.	61.7	FT.
INITIAL OIL IN PLACE.	698.2	STB/AF

INJECTION FALLOFF ANALYSIS
COCKRELL OIL CORPORATION
WELL #1210-0816

PANTHER SANDS, 5402-5652 FT.
INDIAN CANYON FIELD
CARBON COUNTY, UTAH

PRESSURES, RATES, AND RATIOS

FILE: kt.bd

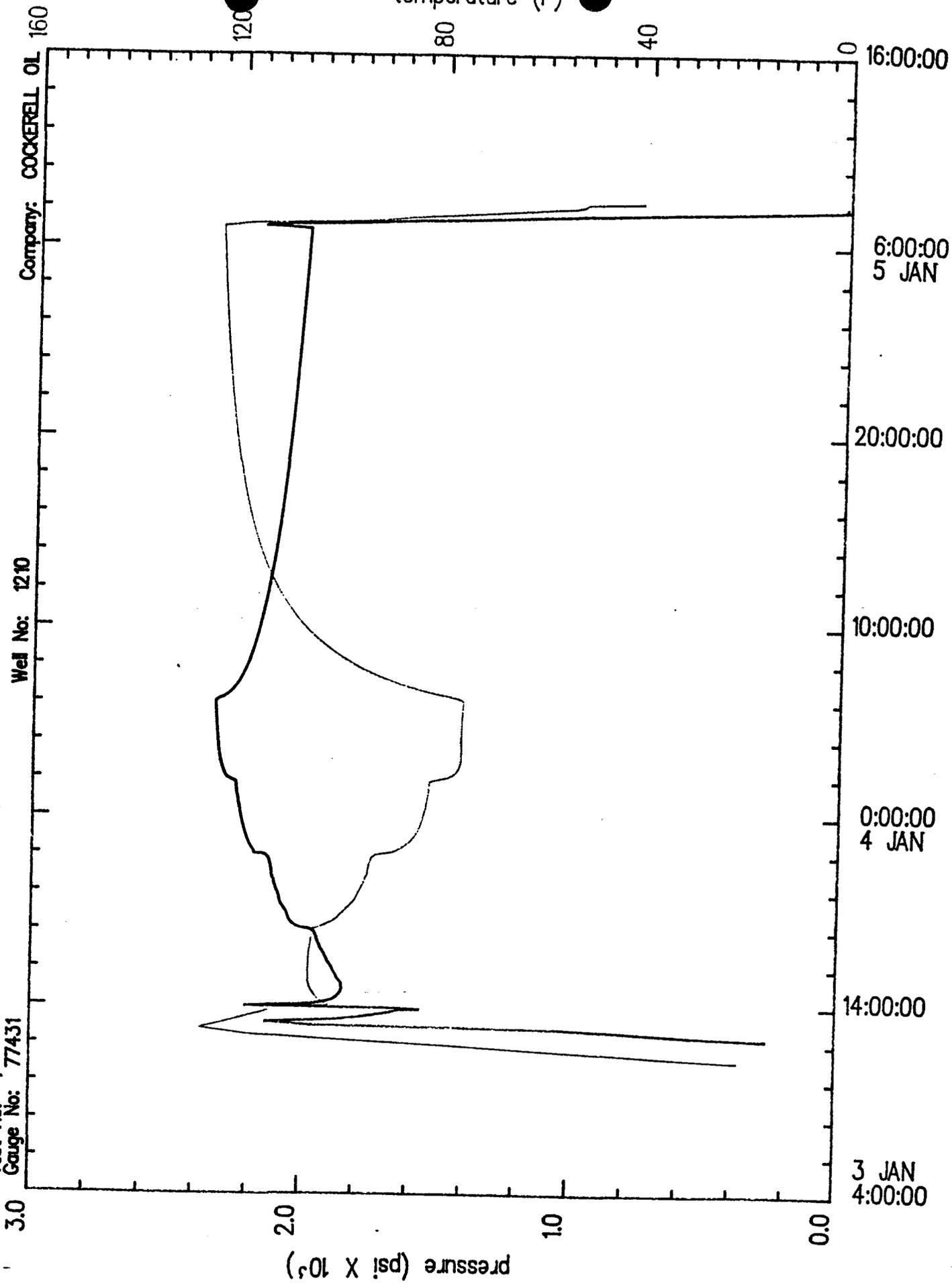


Pressure/Temperature History

Test No: 1
Gauge No: 77431

Well No: 1210

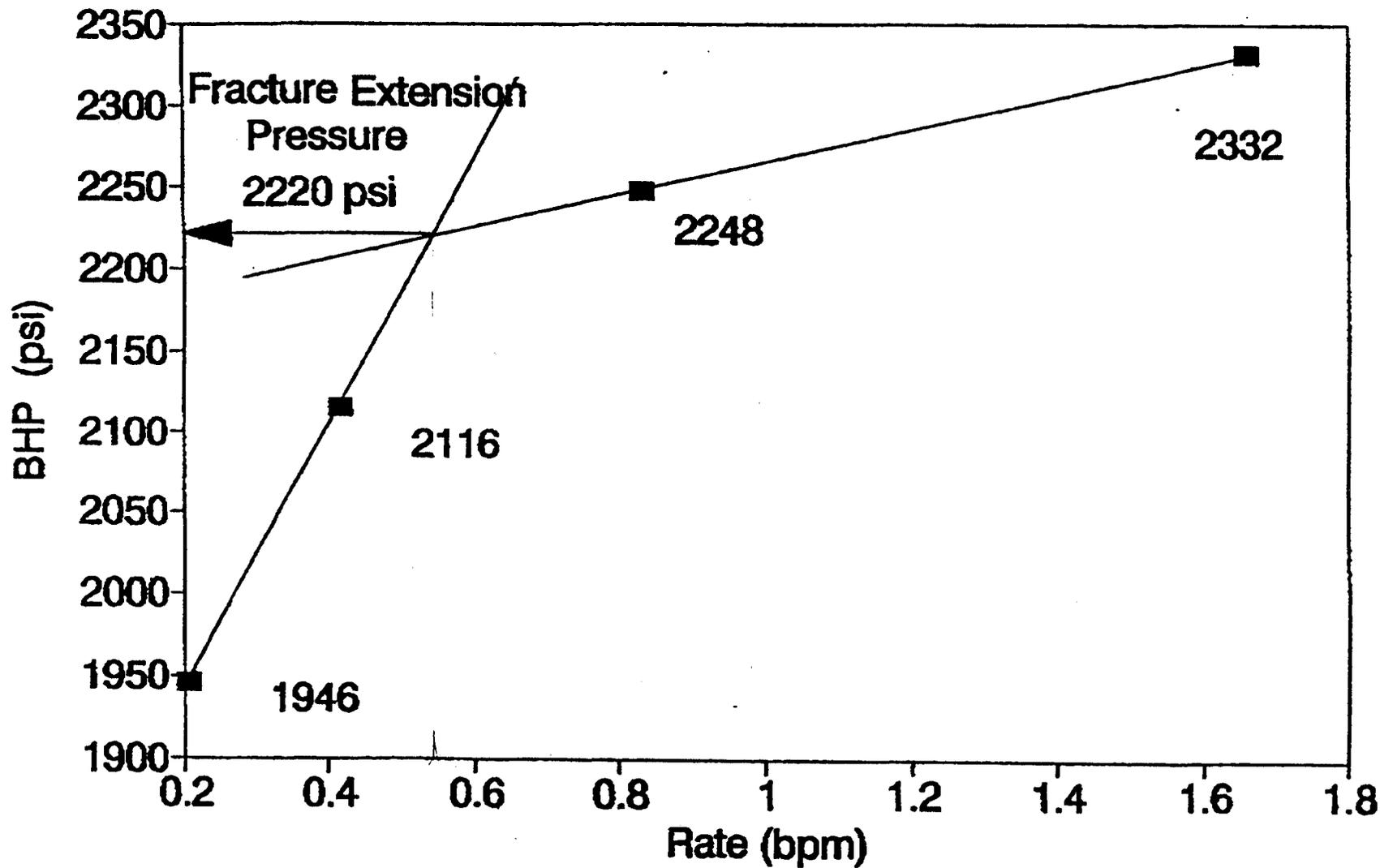
Company: COCKERELL OIL



110

Cockrell Oil Corp

Step Rate Test #1210-0816



N. AFFIDAVIT OF NOTIFICATION

To whom it may concern:

Copies of the UIC Form 1 application for the Federal No. 6-8 has been mailed to the following on January 5, 1994:

OFFSET OPERATORS:

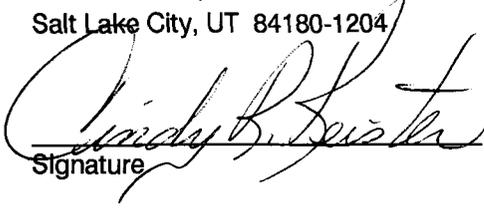
NONE

SURFACE OWNERS:

James T., Jerry J. & Dix Jensen
c/o Jensen Law Offices
190 North Carbon Avenue
Price, UT 84501

Bureau of Land Management
P. O. Box 970
82 E. Dogwood
Moab, UT 84532

State of Utah
Department of Natural Resources
Division of State Lands and Forestry
3 Triad Center, Suite 400
Salt Lake City, UT 84180-1204


Signature

Cindy Keister
Name

(214) 706-3640
Telephone

Sr. Regulatory Analyst
Title

January 4, 1994
Date

O. LABORATORY TESTS

Laboratory analyses have been performed on the following water samples and copies are attached:

Shimmin Trust #1 - Blackhawk produced water
Shimmin Trust #2 - Blackhawk produced water
Shimmin Trust #3 - Blackhawk produced water
Shimmin Trust #4 - Blackhawk produced water
Shimmin Trust #5 - Blackhawk produced water
Jensen #9-10 - Blackhawk produced water (injection sample)
Shimmin Trust #10-11 - Blackhawk produced water
Jensen #9-10 (7/12/93) - Blackhawk produced water

A water analysis on the Panther formation and a compatibility analysis will be furnished.



PETROLEUM LABORATORY
AND GAS ENGINEERING
401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255
LABORATORY REPORT NO. 64512

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
CASTLEGATE PROSPECT
JENSEN 9-10
STATION NO. INJECTION WATER
VERNAL, UTAH

SAMPLED BY: PG&E
DATE SAMPLED: 10-00-92
DATE RUN 10-26-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	18
MAGNESIUM (Mg)	13
SODIUM (Na)	2,460
POTASSIUM (K)	3
BARIUM (Ba)	<1
IRON (Fe)	0.3
SILICA (SiO2)	11
*BICARBONATE (HCO3)	4,475
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	115
CHLORIDE (Cl)	1,165

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	3,670
TOTAL HARDNESS (AS CaCO3)	96
TOTAL DISSOLVED SOLIDS	8,250

RESISTIVITY @ 77 DEG. F.	0.86
SPECIFIC GRAVITY @ 75 DEG. F.	1.01
pH VALUE	8.28

NOTES:

DATE RECEIVED: 10-26-92
BORON (MG/L): 9.2
ZINC (MG/L): 0.02
CHROMIUM (MG/L): <0.05
STRONTIUM (MG/L): 0.88
THIS WATER WILL BE COMPATIBLE
WITH THE "SWAB" SAMPLE
*BICARBONATE as CaCO3: 3670

CONFIDENTIAL

LABORATORY REPORT NO. 63647

JULY 26 1992

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS

SAMPLED JULY 15 1992

ANALYSES OF 6 WATER SAMPLES INCLUDING ZINC, BORON AND CHROMIUM

SAMPLE #1 (pH = 7.1/21 C)
SAMPLE #2 (pH = 7.0/24 C)
SAMPLE #3 (pH = 7.7/19 C)
SAMPLE #4 (pH = 7.7/17 C)
SAMPLE #5 (pH = 7.6/23 C)
SAMPLE RO PERMEATE (pH = 5.3/30 C)



PETROLEUM LABORATORY
AND GAS ENGINEERING
401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255

LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE #1 (pH = 7.1/21°C)

SAMPLED BY: PG&E
DATE SAMPLED: 07-15-92
DATE RUN 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	36
MAGNESIUM (Mg)	15.6
SODIUM (Na)	2,660
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.1
SILICA (SiO2)	15
*BICARBONATE (HCO3)	5,490
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	1,020

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	4,500
TOTAL HARDNESS (AS CaCO3)	155
TOTAL DISSOLVED SOLIDS	9,225

RESISTIVITY @ 77 DEG. F.	0.746
SPECIFIC GRAVITY @ 74 DEG. F.	1.010
pH VALUE	8.01

NOTES:

ZINC: <0.01
BORON: 12.2
CHROMIUM: <0.05
CANNOT TEST FOR STRONTIUM AT
PRESENT. WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 4500



PETROLEUM LABORATORY
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255

LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE #2 (pH = 7.0/24°C)

SAMPLED BY: FG&E
DATE SAMPLED: 07-15-92
DATE RUN 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	52
MAGNESIUM (Mg)	7.2
SODIUM (Na)	2,185
POTASSIUM (K)	1
BARIIUM (Ba)	<1
IRON (Fe)	0.2
SILICA (SiO2)	13
*BICARBONATE (HCO3)	5,182
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	470

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	4,250
TOTAL HARDNESS (AS CaCO3)	160
TOTAL DISSOLVED SOLIDS	7,900

RESISTIVITY @ 77 DEG. F.	0.873
SPECIFIC GRAVITY @ 74 DEG. F.	1.007
pH VALUE	7.98

NOTES:

ZINC: <0.01
BORON: 12.0
CHROMIUM: <0.05
CANNOT TEST FOR STRONTIUM AT
PRESENT, WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 4250



PETROLEUM LABORATORY
AND GAS ENGINEERING

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(405) 528-8255

LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE #3 (pH = 7.7/19°C)

SAMPLED BY: FG&E
DATE SAMPLED: 07-15-92
DATE RUN 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	48
MAGNESIUM (Mg)	7.2
SODIUM (Na)	1,815
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.2
SILICA (SiO2)	15
*BICARBONATE (HCO3)	4,285
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	415

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	3,515
TOTAL HARDNESS (AS CaCO3)	150
TOTAL DISSOLVED SOLIDS	6,575

RESISTIVITY @ 77 DEG. F.	1.020
SPECIFIC GRAVITY @ 74 DEG. F.	1.008
pH VALUE	6.29

NOTES:

ZINC: <0.01
BORON: 6.5
CHROMIUM: <0.05
CANNOT TEST FOR STRONTIUM AT
PRESENT. WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 3515



PETROLEUM LABORATORY
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255

LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE #4 (PH = 7.7/17°C)

SAMPLED BY: FG&E
DATE SAMPLED: 07-15-92
DATE RUN 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

**** CHEMICAL CHARACTERISTICS ****

	mg/l
CALCIUM (Ca)	32
MAGNESIUM (Mg)	9.6
SODIUM (Na)	2,415
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.5
SILICA (SiO2)	14
*BICARBONATE (HCO3)	5,427
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	650

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	4,450
TOTAL HARDNESS (AS CaCO3)	120
TOTAL DISSOLVED SOLIDS	8,535

RESISTIVITY @ 77 DEG. F.	0.796
SPECIFIC GRAVITY @ 74 DEG. F.	1.009
PH VALUE	8.26

NOTES:

ZINC: <0.01
BORON: 10.5
CHROMIUM: <0.05
CANNOT TEST FOR STRONTIUM AT
PRESENT. WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 4450



PETROLEUM LABORATORY
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338
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LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE #5 (pH = 7.6/23°C)

SAMPLED BY: FG&E
DATE SAMPLED: 07-15-92
DATE RUN: 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

**** CHEMICAL CHARACTERISTICS ****

	mg/l
CALCIUM (Ca)	28
MAGNESIUM (Mg)	3
SODIUM (Na)	2,195
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.6
SILICA (SiO2)	13
*BICARBONATE (HCO3)	4,780
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	675

	µS/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	3,920
TOTAL HARDNESS (AS CaCO3)	104
TOTAL DISSOLVED SOLIDS	7,690

RESISTIVITY @ 77 DEG. F.	0.847
SPECIFIC GRAVITY @ 74 DEG. F.	1.009
pH VALUE	8.36

NOTES:

ZINC: <0.01
BORON: 6.0
CHROMIUM: <0.05
CANNOT TEST FOR STRONTIUM AT
PRESENT. WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 3920



PETROLEUM LABORATORY
AND GAS ENGINEERING

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LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
SHIMMIN TRUST WELLS
SAMPLE RO PERMEATE (PH = 5.3/30°C)

SAMPLED BY: PG&E
DATE SAMPLED: 07-15-92
DATE RUN 07-24-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	2
MAGNESIUM (Mg)	0.8
SODIUM (Na)	35
POTASSIUM (K)	<1
BARIUM (Ba)	<1
IRON (Fe)	<0.1
SILICA (SiO2)	8
*BICARBONATE (HCO3)	43
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	35

	mg/l
P ALKALINITY (AS CaCO3)	0
M ALKALINITY (AS CaCO3)	35
TOTAL HARDNESS (AS CaCO3)	8
TOTAL DISSOLVED SOLIDS	117

RESISTIVITY @ 77 DEG. F.	41.670
SPECIFIC GRAVITY @ 74 DEG. F.	1.000
PH VALUE	6.01

NOTES: CHROMIUM: <0.05
ZINC: <0.01
BORON: 1.2
CANNOT TEST FOR STRONTIUM AT
PRESENT, WILL BE ABLE TO RUN
THE TEST IN THE FUTURE.
*BICARBONATE as CaCO3: 35



PETROLEUM LABORATORY
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(405) 528-8255

PACIFIC GAS & ELECTRIC RESOURCES

FOLLOWING ARE THE METHOD NUMBERS AND DETECTION LIMITS FOR EACH OF THE PARAMETER TESTED

<u>PARAMETER</u>	<u>METHOD</u>	<u>DETECTION LIMIT (MC)</u>
pH	*4500-H ⁺ -B	0.1 UNIT
BICARBONATES (HCO ₃)	2320-B	1.0
CARBONATE (CO ₃)	2320-B	1.0
ALKALINITY	310.1	1.0
CALCIUM	EPA 215.1	0.01
MAGNESIUM	EPA 242.1	0.001
POTASSIUM	EPA 258.1	0.01
SODIUM	EPA 273.1	0.002
TDS	*2540-C	1.0
IRON	236.1	0.03
SILICA	*4500-Si-E	0.1
BARIUM	208.1	0.1
BORON	*4500-B-C	0.1
CHROMIUM	EPA-218.1	0.05
ZINC	EPA 289.1	0.005

*STANDARD METHODS OF WATER AND WASTEWATER (17th EDITION)



PETROLEUM LABORATORY
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401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255

LABORATORY REPORT NO. 63953
AUGUST 28, 1992

PACIFIC GAS & ELECTRIC RESOURCES

ANALYSES OF (A) 6 WATER SAMPLES FOR STRONTIUM ANALYSIS

SHIMMIN TRUST WELLS
(07-15-92)

ANALYSIS: (RESULTS IN MG/L)

<u>SAMPLE</u>	<u>STRONTIUM</u>
(1) PG&ER (RO PERMEATE)	<0.1
(2) PG&ER #1	0.80
(3) PG&ER #2	0.68
(4) PG&ER #3	1.04
(5) PG&ER #4	0.97
(6) PG&ER #5	1.03

ANALYSES OF (B) 2 WATER SAMPLES

SHIMMIN TRUST #2
(08-02-92)

ANALYSIS: (RESULTS IN MG/L)

<u>SAMPLE</u>	<u>STRONTIUM</u>
(1) INJECTED WATER (TANKS COMINGLED 2 BBLs/m)	0.70
(2) SWAB SAMPLE	0.90

NOTE: METHOD EPA 7780

1 - PACIFIC GAS & ELECTRIC RESOURCES - DALLAS, TX

LABORATORY REPORT NO. 64512

OCTOBER 28, 1992

PACIFIC GAS & ELECTRIC RESOURCES
CASTLEGATE PROSPECT

SAMPLED OCTOBER 1992: SAMPLES RECEIVED AT OILAB, OCTOBER 26, 1992

ANALYSES OF 2 WATER SAMPLES INCLUDING BORON, ZINC, CHROMIUM, AND STRONTIUM

JENSEN 9-10

INJECTION WATER

JENSEN 9-10

SWAB SAMPLE



PETROLEUM LABORATORY
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255
LABORATORY REPORT NO. 64512

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
CASTLEGATE PROSPECT
JENSEN 9-10
STATION NO. INJECTION WATER
VERNAL, UTAH

SAMPLED BY: PG&ER
DATE SAMPLED: 10-00-92
DATE RUN 10-26-92
COLOR BEFORE FILTRATION: COLORLESS
COLOR AFTER FILTRATION: COLORLESS

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	18
MAGNESIUM (Mg)	13
SODIUM (Na)	2,460
POTASSIUM (K)	3
BARIUM (Ba)	<1
IRON (Fe)	0.3
SILICA (SiO2)	11
*BICARBONATE (HCO3)	4,475
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	115
CHLORIDE (Cl)	1,165

	mg/l		
P ALKALINITY (AS CaCO3)	0	RESISTIVITY @ 77 DEG. F.	0.869
M ALKALINITY (AS CaCO3)	3,670	SPECIFIC GRAVITY @ 75 DEG. F.	1.010
TOTAL HARDNESS (AS CaCO3)	96	pH VALUE	8.28
TOTAL DISSOLVED SOLIDS	8,250		

NOTES:

DATE RECEIVED: 10-26-92
BORON (MG/L): 9.2
ZINC (MG/L): 0.02
CHROMIUM (MG/L): <0.05
STRONTIUM (MG/L): 0.88
THIS WATER WILL BE COMPATIBLE
WITH THE "SWAB" SAMPLE
*BICARBONATE as CaCO3: 3670



PETROLEUM LABORATORY
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338
(405) 528-8255
LABORATORY REPORT NO. 64512

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES
CASTLEGATE PROSPECT
JENSEN 9-10
STATION NO. SWAB SAMPLE
VERNAL, UTAH

SAMPLED BY: FG&ER
DATE SAMPLED: 10-00-92
DATE RUN 10-26-92
COLOR BEFORE FILTRATION: LIGHT BROWN
COLOR AFTER FILTRATION: LIGHT YELLOW

***** CHEMICAL CHARACTERISTICS *****

	mg/l
CALCIUM (Ca)	10
MAGNESIUM (Mg)	6
SODIUM (Na)	3,860
POTASSIUM (K)	2
BARIUM (Ba)	<1
IRON (Fe)	0.4
SILICA (SiO2)	10
*BICARBONATE (HCO3)	2,122
**CARBONATE (CO3)	1,628
HYDROXIDE (OH)	0
SULFATE (SO4)	280
CHLORIDE (Cl)	2,610

	mg/l
P ALKALINITY (AS CaCO3)	1,360
M ALKALINITY (AS CaCO3)	3,100
TOTAL HARDNESS (AS CaCO3)	50
TOTAL DISSOLVED SOLIDS	10,520

RESISTIVITY @ 77 DEG. F.	0.645
SPECIFIC GRAVITY @ 75 DEG. F.	1.014
pH VALUE	10.32

NOTES:

DATE RECEIVED: 10-26-92
BORON (MG/L): 4.6
THIS WATER WILL BE COMPATIBLE
WITH THE 'INJECTION' WATER
*BICARBONATE as CaCO3: 1740
**CARBONATE as CaCO3: 2720
ZINC (MG/L): 0.07
CHROMIUM (MG/L): <0.05
STRONTIUM (MG/L): 0.48

DATA SHEET 1

SCALING TENDENCIES OF WATERS

COMPANY: PACIFIC GAS & ELECTRIC
SAMPLE POINT: SHIMMIN 10-11 PH 8.5
LOCATION: CASTLE GATE PROJECT UTAH
DATE: 10-12-93

WATER ANALYSIS (MG/L):

SODIUM	2337.0
CALCIUM	116.0
MAGNESIUM	28.6
CHLORIDE	4358.0
SULFATE	47.0
BICARBONATE	2197.0
IRON	12.5
BARIUM	11.1
STRONTIUM	<u>2.5</u>
TDS	9109.7
PH:	8.5
IONIC STRENGTH =	0.1406

INDEX VALUES GREATER THAN ZERO INDICATE SCALING CONDITIONS
INDEX VALUES OF ZERO OR LESS INDICATE A STABLE WATER

TEMP.	CALCITE INDEX	GYPSUM INDEX	ANHYDRITE INDEX	BARITE INDEX	STRONTIUM INDEX
60	1.69	-2.39	-2.65	1.43	-1.00
80	1.80	-2.44	-2.58	1.29	-1.00
100	1.93	-2.46	-2.51	1.17	-1.00
120	2.07	-2.46	-2.42	1.07	-1.00
140	2.22	-2.45	-2.33	0.99	-1.00
160	2.39	-2.43	-2.22	0.92	-1.00
180	2.59	-2.41	-2.11	0.88	-0.99
200	2.80	-2.38	-1.98	0.85	-0.99
220	3.03	-2.34	-1.84	0.84	-0.99
240	3.29	-2.31	-1.70	0.86	-0.99
260	3.57	-2.27	-1.54	0.92	-0.98

DATA SHEET 17

SCALING TENDENCIES OF WATERS

COMPANY: PACIFIC GAS AND ELECTRIC
SAMPLE POINT: JENSEN 9-10 WELL HEAD PH 8.0
LOCATION: SOLDIERS FIELD UTAH
DATE: 7/21/93

WATER ANALYSIS (MG/L):

SODIUM	1342.8
CALCIUM	120.0
MAGNESIUM	70.0
CHLORIDE	800.0
SULFATE	0.0
BICARBONATE	2904.0
IRON	0.0
BARIUM	0.0
STRONTIUM	<u>0.0</u>
TDS	5236.8
PH:	8.0
IONIC STRENGTH =	0.0760

INDEX VALUES GREATER THAN ZERO INDICATE SCALING CONDITIONS
INDEX VALUES OF ZERO OR LESS INDICATE A STABLE WATER

TEMP.	CALCITE INDEX	GYPSUM INDEX	ANHYDRITE INDEX	BARITE INDEX	STRONTIUM INDEX
60	1.50	**** **	**** **	-40.97	-1.00
80	1.62	**** **	**** **	-41.11	-1.00
100	1.74	**** **	**** **	-41.23	-1.00
120	1.87	**** **	**** **	-41.33	-1.00
140	2.01	**** **	**** **	-41.40	-1.00
160	2.16	**** **	**** **	-41.46	-1.00
180	2.33	**** **	**** **	-41.49	-1.00
200	2.51	**** **	**** **	-41.52	-1.00
220	2.70	**** **	**** **	-41.52	-1.00
240	2.92	**** **	**** **	-41.50	-1.00
260	3.15	**** **	**** **	-41.44	-1.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

025

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

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

2400' FNL & 1169' FWL SE/4 NW/4

Sec 8 T12S R10E

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

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

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

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

PG&E Resources Company requests approval to change the Federal 1210-0806 No. 1 well name to the Federal 6-8. This name change will make the well name consistent with all the other wells in the Castlegate CBM Project operated by PG&E.

RECEIVED
MOAB DISTRICT OFFICE
94 JAN -3 AM 9:12
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Signed Candy Feister Title Sr. Regulatory Analyst Date 12/28/1993

(This space for Federal or State office use)

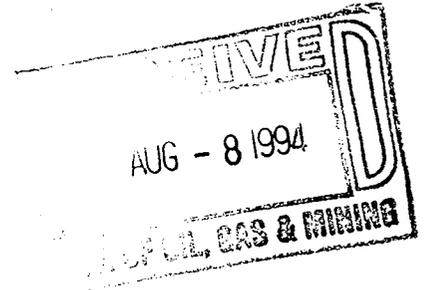
Branch of Fluid Minerals
Moab District

Approved by RECEIVED Title _____ Date JAN 3 1994

Conditions of approval, if any:

ACCEPT: rcj 1/3/94

August 2, 1994



STATE OF UTAH
Division of Oil Gas & Mining
355 W. North Temple
3 Triad Center - Suite 350
Salt Lake City, UT 84180

ATTENTION: Lisha Cordova

RE: Change of Operator
Castlegate Wells
Carbon County, Utah

Dear Lisha:

Enclosed please find the following documents in connection with the above captioned transfer of operations to Anadarko Petroleum Corporation effective as of August 1, 1994.

- 1) Copies of 8 BLM Sundry Notices (Form 3160-5)
- 2) Originals of 21 Utah Sundry Notices (Form 9)
- 3) Originals of 4 Transfers of Authority to Inject (UIC Form 5)

If additional information is needed in this regard, please contact the undersigned or Mr. L. Steve Hamilton with Anadarko at (405) 475-7000.

Sincerely,

Rejahna Barrow
Sr. Proration Analyst
(214) 750-3120

Enclosures (33)

cc: Mr. L. Steve Hamilton
Anadarko Petroleum Corporation
Oklahoma City, OK

Note: Please furnish both Operators a copy of approved Sundry.

Form 3160-5
(June 1970)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-65948

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Federal 6-8

2. Name of Operator
Anadarko Petroleum Corporation

9. API Well No.
43-007-30140

3. Address and Telephone No.
9400 N. Broadway - Suite 700; Oklahoma City, OK 73114 (405) 475-7000

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2400' FNL & 1169' FWL, SE/4 NW/4, Sec. 8, T12S, R10E

11. County or Parish, State
Carbon, Utah

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

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

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

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

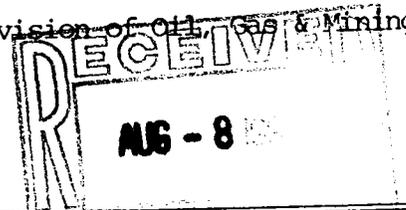
Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Nationwide BLM Bond #153571.

PG&E Resources Company hereby agrees to the foregoing transfer.

By: *Suzanna Barrow*, Sr. Proration Analyst, August 1, 1994

✓ cc: State of Utah; Department of Natural Resources; Division of Oil, Gas & Mining



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

Signed *Steve Hamilton*

Title Division Administrative Manager Date August 1, 1994

(This space for Federal or State office use)

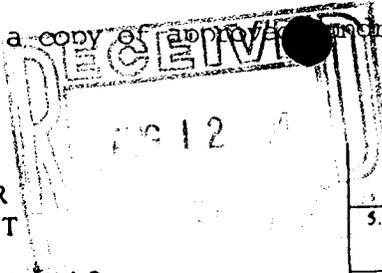
Approved by _____
Conditions of approval, if any:

Title _____ Date _____

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

*See Instruction on Reverse Side

Note: Please furnish with Operators a copy of approved copy.



Form 3160-5 (June 1970)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone No.

9400 N. Broadway - Suite 700; Oklahoma City, OK 73114 (405) 475-7000

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

2400' FNL & 1169' FWL, SE/4 NW/4, Sec. 8, T12S, R10E

5. Lease Designation and Serial No. UTU-65948

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Federal 6-8

9. API Well No.

43-007-30140

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Carbon, Utah

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

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Abandonment, Recompletion, Plugging Back, Casing Repair, Altering Casing, Change of Plans, New Construction, Non-Routine Fracturing, Water Shut-Off, Conversion to Injection, and Dispose Water. Other: Change of Operator is checked.

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

Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Nationwide BLM Bond #153571.

PG&E Resources Company hereby agrees to the foregoing transfer.

By: [Signature] Sr. Proration Analyst, August 1, 1994

cc: State of Utah; Department of Natural Resources; Division of Oil, Gas & Mining

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

Signed [Signature] Title Division Administrative Manager Date August 1, 1994

(This space for Federal or State office use)

Approved by [Signature] Title Associate District Manager Date 8/9/94

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

Anadarko Petroleum Corporation
Well No. Federal 6-8
SENE Sec. 8, T. 12 S., R. 10 E.
Grand County, Utah
Lease U-55948

CONDITIONS OF APPROVAL

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

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

Bond coverage for this well is provided by BLM bond No. ESO-0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3105.7-2 continuing responsibility are met.

1-LEC 7-PL	✓
2-LWP 8-SJ	✓
3-DTA 9-FILE	✓
4-VLC	✓
5-RJF	✓
6-LWP	✓

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-01-94)

TO (new operator)	<u>ANADARKO PETROLEUM CORP.</u>	FROM (former operator)	<u>PG&E RESOURCES COMPANY</u>
(address)	<u>9400 N BROADWAY STE 700</u>	(address)	<u>6688 N CENTRAL EXP #1000</u>
	<u>OKLAHOMA CITY OK 73114-7403</u>		<u>DALLAS TX 75206-3922</u>
	<u>L. STEVE HAMILTON, MGR</u>		<u>REJAHNA BARROW</u>
	phone (405) <u>475-7000</u>		phone (214) <u>750-3922</u>
	account no. <u>N 0035</u>		account no. <u>N 0595</u>

Well(s) (attach additional page if needed):

Name: <u>FEDERAL 6-8/MVDCL</u>	<u>API 43-007-30140</u>	Entity: <u>11272</u> ✓	Sec <u>8</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>UTU6594</u>
Name: <u>FEDERAL 7-9/MVDCL</u>	<u>API 43-007-30137</u>	Entity: <u>11382</u> ✓	Sec <u>9</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 4-13/MVDCL</u>	<u>API 43-007-30126</u>	Entity: <u>11400</u> ✓	Sec <u>13</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>U65949</u>
Name: <u>FEDERAL 4-15/MVDCL</u>	<u>API 43-007-30138</u>	Entity: <u>11401</u> ✓	Sec <u>15</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 14-13/MVDCL</u>	<u>API 43-007-30177</u>	Entity: <u>11434</u> ✓	Sec <u>13</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 16-14/MVDCL</u>	<u>API 43-007-30174</u>	Entity: <u>11435</u> ✓	Sec <u>14</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 14-14/MVDCL</u>	<u>API 43-007-30173</u>	Entity: <u>11436</u> ✓	Sec <u>14</u>	Twpl <u>2S</u>	Rng <u>10E</u>	Lease Type: <u>"</u>
Name: <u>FEDERAL 16-15/MVDCL</u>	<u>43-007-30176</u>	<u>11440</u> ✓	<u>15</u>	<u>12S</u>	<u>10E</u>	Lease Type: <u>"</u>

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 8-8-94)*
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-8-94)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Sup 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *8-15-94*
- Sup 6. Cardex file has been updated for each well listed above. *8-17-94*
- Sup 7. Well file labels have been updated for each well listed above. *8-17-94*
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(8-15-94)*
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- See 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A/See 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

1. All attachments to this form have been microfilmed. Date: August 22 1994.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

940815 Btm/Vernal Aprv. 8-9-94 eff. 8-1-94.

027



February 14, 1996

FEB 20 1996

Bureau of Land Management
Moab District Office
P.O. Box 970
82 East Dogwood, Suite M
Moab, Utah 84532

RE: Federal #6-8
Section 8-T12S-R10E
Carbon County, Utah

Gentlemen:

Attached is an original and two copies of Form 3160-4 "Well Completion Report" for the referenced well. Also, enclosed is a copy of the Tracer log. The DIL/Spectral Density Dual Spaced Neutron/Micro and Quick Look logs were previously sent to you on 11/2/93.

Should you have any questions, please contact Craig Walters at 405-475-7000.

Sincerely,

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

Trina Talmadge,
Production Tech.

Attachments

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>Coalbed Methane</u>		5. LEASE DESIGNATION AND SERIAL NO. UTU 65948	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RENVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Anadarko Petroleum Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 9400 N. Broadway, Suite 700, OKC, OK 73114 405/475-7000		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2400' FNL & 1169' FWL SE/4 NW/4 At top prod. interval reported below 2400' FNL & 1169' FWL SE/4 NW/4 At total depth 2400' FNL & 1169' FWL SE/4 NW/4		9. WELL NO. 6-8	
14. PERMIT NO. 43-007-30140		DATE ISSUED 9-10-91	
15. DATE SPUDDED 10-10-91		18. ELEVATION (OF RKB, RT, OR, ETC.)* 7393 KB	
16. DATE T.D. REACHED 11-4-91		17. DATE COMPL. (Ready to prod.) 1-19-96	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TYD 6030	
21. PLUG, BACK T.D., MD & TYD 5160		22. IF MULTIPLE COMPL. HOW MANY*	
23. INTERVALS DRILLED BY		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TYD)* Blackhawk 4814-4932	
25. ROTARY TOOLS X		26. CABLE TOOLS	
27. WAS DIRECTIONAL SURVEY MADE N/A		28. TYPE ELECTRIC AND OTHER LOGS RUN DIL/Spectral Density Dual Spaced Neutron/Microlog/Quick Look/Tracer Log	
29. CASING RECORD (Report all strings set in well)		30. LINER RECORD	
31. TUBING RECORD		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented	
35. LIST OF ATTACHMENTS		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	

SIGNED Craig R. Walters TITLE Craig R. Walters, Prod. Eng. DATE 2/13/96

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

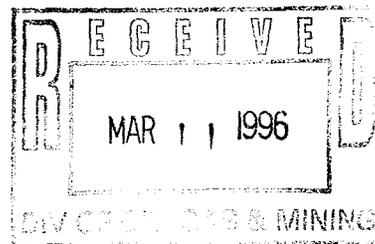
38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Blackhawk	4020	4957		Price River sd		3232
				Castlegate sd		3685
				Blackhawk		4020
				Aberdeen sd		4958
				Spring Canyon sd		5112
				Mancos Shale		5275

028



March 7, 1996



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

Attention: Vicky Dyson

RE: Federal #6-8
Sec. 8-12S-10E
Carbon County, Utah
API No. 43-007-30140
PGW

Dear Ms. Dyson:

Please find enclosed the Tracer Scan Analysis log for the referenced well, as requested by your letter dated February 20, 1996.

Should you require additional data, please contact the undersigned at (405)475-7049 or this letterhead address.

Very truly yours,

Anadarko Petroleum Corporation

A handwritten signature in cursive script that reads "Ginni A. McDonald".

Ginni A. McDonald
Sr. Technical Assistant

Enclosure

cc: WF/RF/TF

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

029

5. Lease Designation and Serial Number

UTU-65948

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

CA# UTU-73772

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

8. Well Name and Number:

Federal #6-8

2. Name of Operator

Anadarko Petroleum Corporation

9. API Well Number:

43-007-30140

3. Address and Telephone Number.

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

10. Field and Pool, or Wildcat

Castlegate

4. Location of Well

Footages: SE NW 2400' FNL & 1769' FWL
QQ,Sec., T., R., M.: Sec. 8 T12S-R10E

County: Carbon

State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date work will start Early Spring

SUBSEQUENT REPORT
(Submit Original Form Only)

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

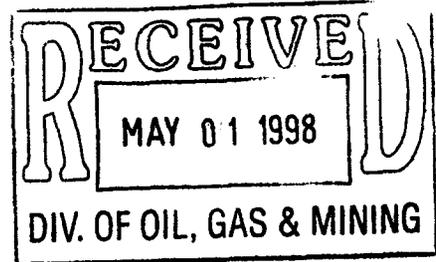
Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Please see attached "Well Diagram" for all wellbore information and geological markers.



13. Name & Signature Shad Frazier Title Production Engineer

Date 04/30/98

(This space for State use)

**Accepted by the State
of Utah Division of
Oil, Gas and Mining**

Date: 5-14-98

By: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-65949-15948

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well

Oil Well Gas Well Other Coalbed Methane

8. Well Name and No.

Federal #6-8

2. Name of Operator

Anadarko Petroleum Corporation

9. API Well No.

43-007-30140

3. Address and Telephone No.

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

10. Field and Pool, or Exploratory Area

Castlegate

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

SE NW 2400' FNL & 1769' FWL
Sec. 8 T12S-R10E

11. County or Parish, State

Carbon County, Utah

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

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

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

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

See attached document for plugging procedures in accordance to plugging guidelines and the "Wellbore Diagram" for all wellbore information and geological markers.

RECEIVED
 BUREAU OF LAND MGMT
 APR 19 04 23 31

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

Signed Shad Frazier

Title Production Engineer

Shad Frazier
Production Engineer

Date 02/17/98

(This space for Federal or State office use)

Approved by [Signature]

Title Resource Management

Assistant Field Manager,
Resource Management

Date 4/22/98

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

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

CONDITIONS OF APPROVAL

1. Notify Don Stephens for the Price BLM office at (435) 636-3608 at least 24 hours prior to commencing plugging operations.
2. All wellbore volume between cement plugs shall be filled with bentonite gel of at least 9 pounds per gallon.
3. Upon finishing the plugging procedures, submit a subsequent report of abandonment (sundry notice) which details the work that was done.



Petroleum Corporation

Plugging Procedure

Federal #6-8
Sec. 8-T12S-R10E 2400' FNL & 1769' FWL
Carbon County, Utah

AFE: 501501
WI: 100%
API # 43-007-30140

Purpose: Plug and Abandon Castlegate field

Surf: 8-5/8", 24# K-55
Prod: 5-1/2", 17# N-80 (Drift = 4.767")

Wireline: Halliburton, Vernal 801-789-2550
Cementing: Halliburton, Vernal 801-789-2550

Procedure:

1. RDWH, NUBOP, BD casing pressure. MIRUWL. TIH W/ GR/JB to 4508. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 4450 (Do not set in collars). RDWL and move to next location.
2. MIRU Coiled Tubing equipment and cement unit
3. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 4450.
4. POH to bottom of surface casing @ 443 and spot a 50 ft. plug.
5. Pull up hole to within 50 ft of surface and spot 50 ft plug.
6. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NDBOP.
7. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

* all displacement fluid will contain non-corrosive fluid.

Prepared: Shad Frazier

Approved: J.R. [Signature]

Castlegate plugging.doc

cc: Steve Pearson
Alan O'Donnell
Kendall Madden
Shad Frazier
Tom Rushing
WF - Federal #6-8, Carbon County, Utah

FEDERAL #6-8

SE NW 2400' FNL & 1769' FWL: SEC 8 T12S-R10E
API NO. 43-007-30140

SPUD RIG OFF
SURFACE 10/10/1991 10/12/1991
PRODUCTION 10/13/1991 10/28/1993

7378 GL 15 KB 7393

12-1/4" Hole
8-5/8" 23#WC50
w/350 sxs cmt
TOC @ Surface

TOC

DV Tool
w/450 sxs cmt

Sqz w/ 60 sxs cmt

443

1100

3977

(Holes)	Perforations
(16)	4508 - 4512
(12)	4518 - 4521
(16)	4560 - 4564
(12)	4623 - 4626
(16)	4678 - 4682
(16)	4739 - 4743
(24)	4752 - 4758
(8)	4782 - 4784
(44)	4814 - 4825
(12)	4865 - 4868
(32)	4874 - 4882
(32)	4922 - 4930
(240)	Total Holes

FILL
CIBP

5152

5360

PANTHER PERFORATIONS

(94) 5402 - 5652

8-3/4" Hole
5-1/2", 17# WC70
w/700 sxs cmt

6030

TD 6030

WELL WORK HISTORY

12/12/1991 PERF PANTHER SAND 5582-5652' OA
12/15/1991 ACIDIZE w/ 2000 GAL 15%; SWBD 99% WTR
12/18/1991 SET RBP @ 5550. PERF PNTHR 5402-5512 OA
12/27/1991 SWBD 71 BW, SSG, FFL 5400
12/28/1991 RETRIEVE BP @ 5550
01/04/1992 STEP RATE TEST. MAX DSPSL INTO PNTHR
COULD BE 775 BPD; 0.41 PSI/FT FRAC GRAD
10/22/1993 PERF BLCKHWK 4508-4932 OA; TA'D
12/23/1995 REPERF, ACIDIZE; SET CIBP @ 5360
12/30/1995 SQZ PERFS @ 4430 w/ 60 SXS CMT
01/13/1996 FRAC w/ 2750 BW (20# LIN GEL) + 51M# 20/40
+ 50.5M# 12/20 @ 103 BPM; SCR OUT
05/04/1996 CO BHP
06/17/1997 TOH w/ TBG and Rods T/A Well

NOTES: TIGHT SPOT @ 4367

TUBING BREAKDOWN

2-7/8"	142 JTS
TA	4402
2-7/8"	20 JTS
3-1/2"	JTS
SN	5041
TAG BAR	
2-7/8"	1 JTS
NC	YES
EOT	5075

ROD BREAKDOWN

PONIES	16'
1"	
7/8"	900'
3/4"	3500'
1"	600'
1.5"	
PUMP	ROD
2.5x1.5x21 60 Ring	

DEVIATION ANGLE

1098 0.75
2028 1.25
3183 2
4137 4
4740 4.75
5278 5.5
5800 6.25

FORMATION

PRICE RIVER 3232
CASTLEGATE 3686
BLACKHAWK 4020
KENILWORTH
ABERDEEN 4958
SPRING CANYON 5112
MANCOS SHALE 5275

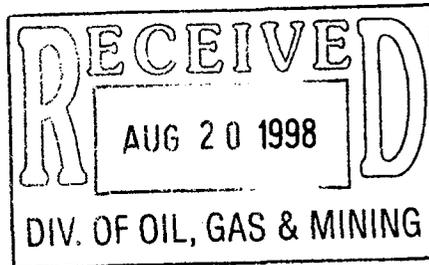
TOP

LAST REVISED: 03/13/1998



August 13, 1998

State of Utah
 Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 P.O. Box 145801
 Salt Lake City, Utah 84414-5801



Re: State Form 9
 Castlegate Field
 Carbon County, Utah

Gentlemen:

Please find enclosed, Sundry Notices and Reports on Wells (Form 9) outlining the plugging and abandoning procedures performed for the following wells:

SHIMMIN TRUST 1 fr SGW to PA	JENSEN 11-15 fr SGW to PA
SHIMMIN TRUST 2 " " " "	JENSEN 16-9 " " " "
SHIMMIN TRUST 3 " " " "	JENSEN 16-10 " " " "
SHIMMIN TRUST 4 " " " "	FEDERAL 4-13 fr SGW to PA
SHIMMIN TRUST 5 " " " "	FEDERAL 4-15 " " " "
SHIMMIN TRUST 10-11 fr WD W to PA	FEDERAL 6-8 " " " "
SHIMMIN TRUST 11-11 fr SGW to PA	FEDERAL 7-9 " " " "
SHIMMIN TRUST 12-12 " " " "	FEDERAL 14-13 " " " "
SHIMMIN TRUST 14-12 " " " "	FEDERAL 14-14 " " " "
JENSEN 5-10 fr SGW to PA	FEDERAL 16-14 " " " "
JENSEN 7-15 " " " "	FEDERAL 16-15 " " " "
JENSEN 9-10 " " " "	STATE 2-16 fr SGW to PA
JENSEN 11-10 " " " "	STATE 9-16 " " " "

Should you have any questions or require additional information, please contact me at (281) 873-1276.

Best regards,

ANADARKO PETROLEUM CORPORATION

Gail A. Rupert
 Engineering Technician

Enclosures

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

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

GAR
 SMF
 TRC - Well File

030

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

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Federal 6-8

9. API Well Number:

43-007-30140

10. Field and Pool, or Wildcat

Castlegate Field

1. Type of Well: OIL GAS OTHER: METHANE

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060

4. Location of Well

Footages: 2400' FNL & 1769' FWL

GQ, Sec., T., R., M.: SE NW Sec. 8-T12S-R10E

County: Carbon

State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of work completion 07/02/98

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.)

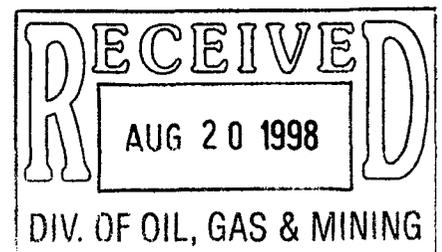
SEE ATTACHED WELLBORE DIAGRAM AND DETAILED FIELD REPORT.

UNABLE TO SET LOWER CEMENT PLUG AT 50' ABOVE TOP PERFORATION. PLUG WAS SET AS IN AGREEMENT WITH THE STATE OF UTAH, DIVISION OF OIL AND GAS PERMISSION.

13. Name & Signature Shad Frazier Title Engineer Date 08/12/98

(This space for State use only)

(See Instructions on Reverse Side)

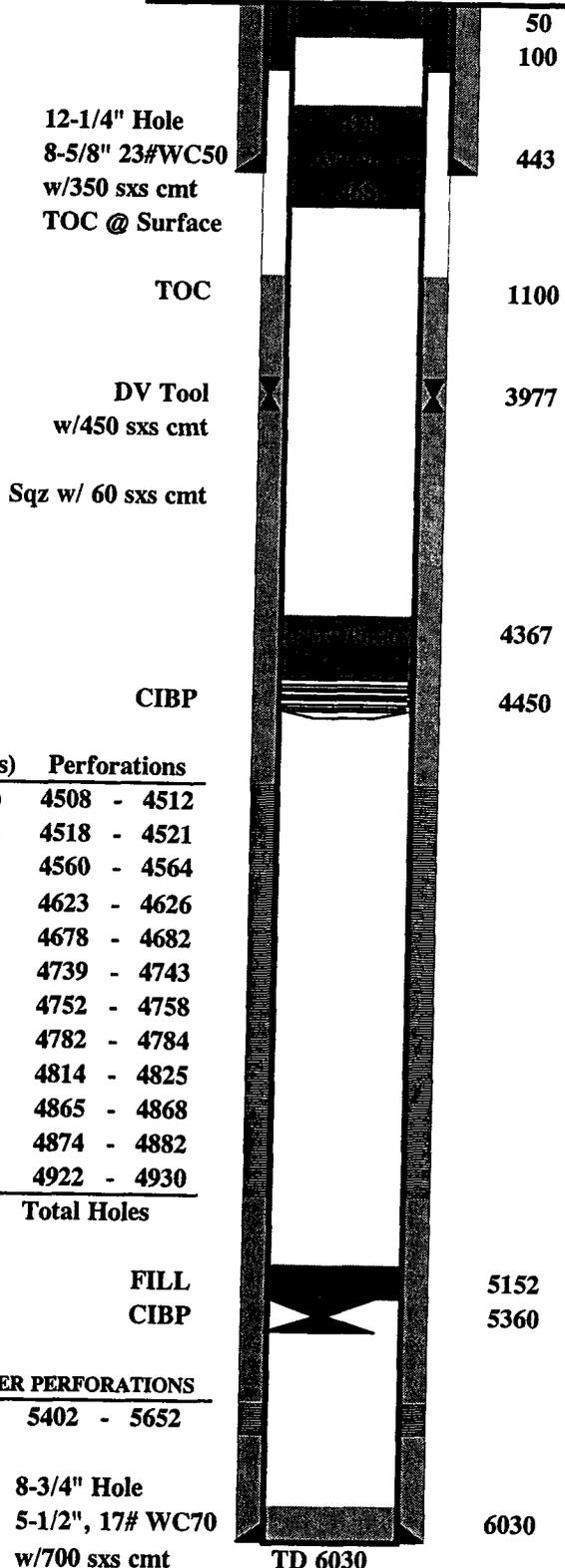


FEDERAL #6-8

SE NW 2400' FNL & 1769' FWL: SEC 8 T12S-R10E
API NO. 43-007-30140

SPUD RIG OFF
SURFACE 10/10/1991 10/12/1991
PRODUCTION 10/13/1991 10/28/1993

7378 GL 15 KB 7393



WELL WORK HISTORY

12/12/1991 PERF PANTHER SAND 5582-5652' OA
12/15/1991 ACIDIZE w/ 2000 GAL 15%; SWBD 99% WTR
12/18/1991 SET RBP @ 5550. PERF PNTHR 5402-5512 OA
12/27/1991 SWBD 71 BW, SSG, FFL 5400
12/28/1991 RETRIEVE BP @ 5550
01/04/1992 STEP RATE TEST. MAX DSPSL INTO PNTHR
COULD BE 775 BPD; 0.41 PSI/FT FRAC GRAD
10/22/1993 PERF BLCKHWK 4508-4932 OA; TA'D
12/23/1995 REPERF, ACIDIZE; SET CIBP @ 5360
12/30/1995 SQZ PERFS @ 4430 w/ 60 SXS CMT
01/13/1996 FRAC w/ 2750 BW (20# LIN GEL) + 51M# 20/40
+ 50.5M# 12/20 @ 103 BPM; SCR OUT
05/04/1996 CO BHP
06/17/1997 TOH w/ TBG and Rods T/A Well

(Holes)	Perforations
(16)	4508 - 4512
(12)	4518 - 4521
(16)	4560 - 4564
(12)	4623 - 4626
(16)	4678 - 4682
(16)	4739 - 4743
(24)	4752 - 4758
(8)	4782 - 4784
(44)	4814 - 4825
(12)	4865 - 4868
(32)	4874 - 4882
(32)	4922 - 4930
(240)	Total Holes

NOTES: TIGHT SPOT @ 4367

TUBING BREAKDOWN

2-7/8"	142 JTS
TA	4402
2-7/8"	20 JTS
3-1/2"	JTS
SN	5041
TAG BAR	
2-7/8"	1 JTS
NC	YES
EOT	5075

ROD BREAKDOWN

PONIES	16'
1"	
7/8"	900'
3/4"	3500'
1"	600'
1.5"	
PUMP	ROD
2.5x1.5x21 60 Ring	

FILL 5152
CIBP 5360

PANTHER PERFORATIONS
(94) 5402 - 5652

8-3/4" Hole
5-1/2", 17# WC70
w/700 sxs cmt

6030

DEVIATION ANGLE

1098	0.75
2028	1.25
3183	2
4137	4
4740	4.75
5278	5.5
5800	6.25

FORMATION

FORMATION	TOP
PRICE RIVER	3232
CASTLEGATE	3686
BLACKHAWK	4020
KENILWORTH	
ABERDEEN	4958
SPRING CANYON	5112
MANCOS SHALE	5275

LAST REVISED: 07/21/1998

031

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

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

2. NAME OF OPERATOR
J. M. Huber Corporation (303) 825-7900

3. ADDRESS AND TELEPHONE NO.
1050 17th St., Suite 700, Denver, Co. 80265

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface **2400' FNL & 1769' FWL** *4465291N*
 At proposed prod. zone **Same** *SENW* **514621E**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
9 air miles NNE of Helper

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	240'	16. NO. OF ACRES IN LEASE	2,471.31	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.	6,764'	19. PROPOSED DEPTH	6,030'	20. ROTARY OR CABLE TOOLS	Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*	
7,378' ungraded				July 1, 2001	

5. LEASE DESIGNATION AND SERIAL NO.
UTU-65948

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
Huber-Fed. 6-8

9. API WELL NO.
43-007-30140

10. FIELD AND POOL OF WILDCAT
Castlegate

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
8-12s-10e SLBM

12. COUNTY OR PARISH
Carbon

13. STATE
UT

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	WC 50 8-5/8"	23	443'	350 sx & to surface
8-3/4"	WC 70 5-1/2"	17	6,030'	1,150 sx & to 1,100'

Note new suite number.

Archaeology report LAC 2000-22m filed 11-6-2000

Request exception because of topography, land use, and presence of existing well bore. Exception is to quarter-quarter line (240' instead of $\geq 460'$), not to a well. Orthodox location would be closer to road, on steeper slopes, and/or in wetlands

Orthodox well could be drilled at 2180 FN & 1769 FW 8-12s-10e, but it would be inside highway right-of-way. Request permission to drill at 2400' FNL & 1769' FWL 8-12s-10e. This is the only well in the quarter section. There are no producing wells within +6,763'. Wells (see Page 12) could be drilled in 8 offsetting units. Huber is owner of all 8 drilling units and leases within a minimum mile radius of proposed exception.

cc: BLM (M&P), Scott, UDOGM

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

24. SIGNED *[Signature]* TITLE **Consultant (505) 466-8120** DATE **3-10-01**

(This space for Federal or State office use)

PERMIT NO. **43-007-30140** APPROVAL DATE _____

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____

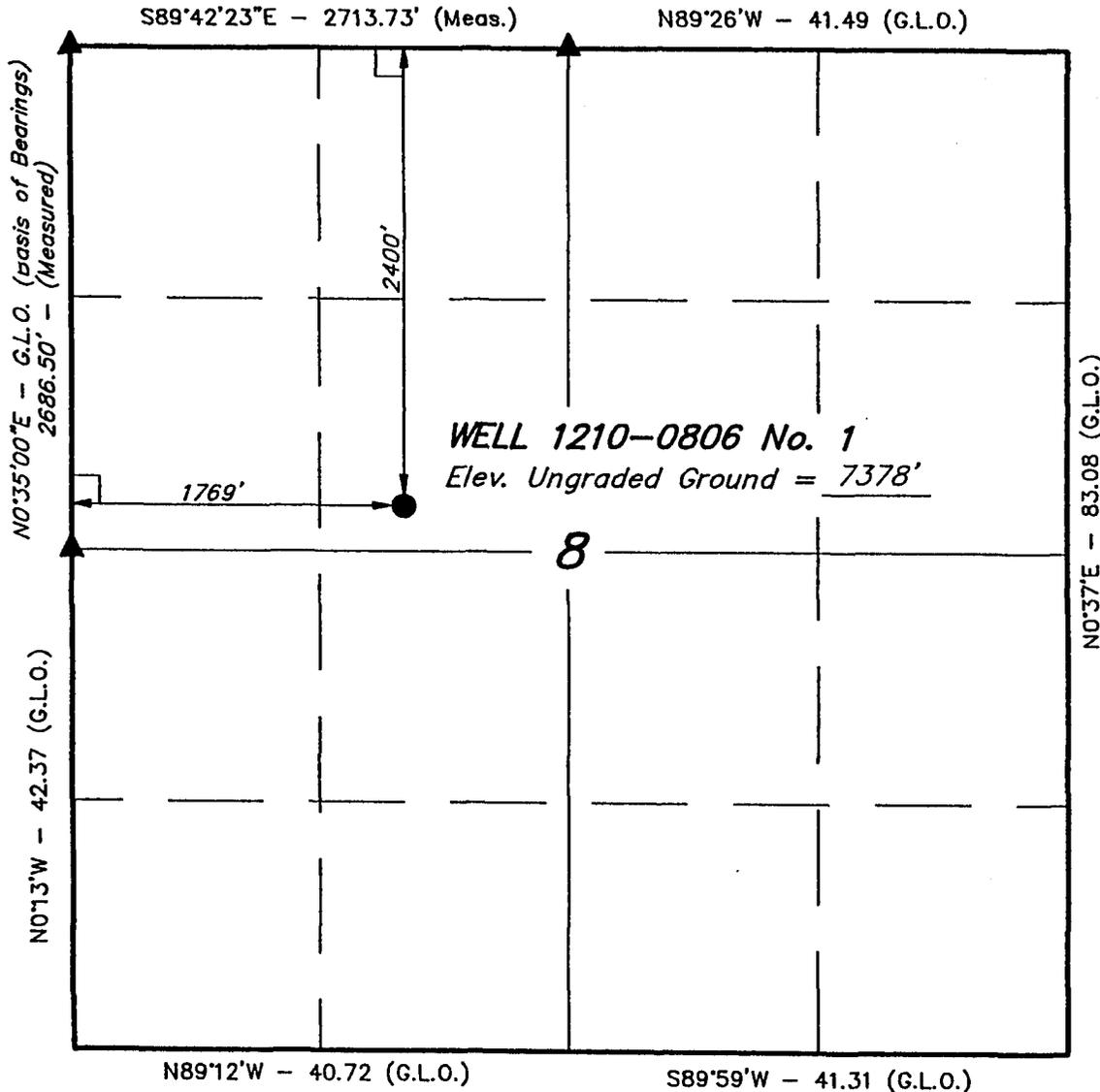
*See Instructions On Reverse Side

RECEIVED
MAR 14 2001
DIVISION OF
OIL, GAS AND MINING

T12S, R10E, S.L.B.&M.

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7367 FEET.



CERTIFICATE

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

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

UINTAH ENGINEERING & LAND SURVEYING

P. O. BOX 1758 - 85 SOUTH - 200 EAST

VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE COCKRELL OIL CORP.

▲ = SECTION CORNERS LOCATED. (Brass Caps)

Drilling Program

<u>1. Formation Name</u>	<u>Depth* from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Flagstaff Ls	0'	12'	+7,378'
North Horn Fm	350'	362'	+7,028'
Price River Ss	3,232'	3,244'	+4,146'
Castle Gate Ss	3,686'	3,698'	+3,692'
Blackhawk Coal	4,020'	4,032'	+3,358'
Kenilworth Coal	4,700'	4,712'	+2,678'
Aberdeen Ss	4,958'	4,970'	+2,420'
Spring Canyon Ss	5,112'	5,124'	+2,266'
Mancos Sh	5,275'	5,287'	+2,103'
Total Depth	*6,030'	6,042'	+1,348'

*All depths based on a graded ground level of 7,378'.

2. NOTABLE ZONES

Blackhawk, Kenilworth, and Castlegate are the goals. No other oil or gas zones are expected. Flagstaff, North Horn, and coal zones are anticipated water zones.

3. PRESSURE CONTROL

A minimum $\approx 10''$ x 2,000 psi double ram BOP with 2,000 psi choke manifold will be used from bottom of surface casing to TD. (A typical 2,000 psi BOP is on Page 5. Actual model will not be known until the bid is let.) BOP system will be tested to 1,500 psi. System will be tested at least once every 30 days. Tests will be recorded in the driller's log. BOPs will be inspected and operated daily to assure good mechanical working order.

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 2

4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight-Type</u>	<u>Age</u>	<u>Set Depth</u>
12-1/4"	8-5/8"	23# WC50	Existing	443'
8-3/4"	5-1/2"	17# WC70	Existing	6,030'

Surface casing was cemented to surface with 350 sx Premium and additives. Long string was cemented to 1,100' with DV tool set at 3,977'. Anadarko used 700 sx 50/50 Poz with additives and 450 sx Silica Lite with additives.

5. MUD PROGRAM

N/A

6. DATA GATHERING

May run Gamma Ray log from surface to TD, Dual Induction and BHC Density/Neutron logs from BSC to TD, and Coal and High Res. Density logs from ≈3,500' to TD.

7. DOWN HOLE CONDITIONS

Maximum anticipated bottom hole pressure is <2,000 psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected.

8. MISCELLANEOUS

Recompletion steps are:

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 3

- Cut off P&A marker, dig cellar, and weld on well head
- MI & RU daylight workover rig, pump, 120 bbl rig tank, 1.5 ton power swivel with power unit, BOP, and 4 bottle accumulator
- NU BOPs
- PU & TIH with 4-3/4" bit, bit sub, and 2-7/8" drill pipe and tubing
- RU power swivel and drill out cement plugs
- Pressure test wellhead and long string to 1,500 psi
- Drill CIBP @ 4450'
- TOOH
- Perforate coal zones (especially Blackhawk and Kenilworth) with well SI and full lubricator using Halliburton 4" HSC guns @ 4 shots per foot and 90 phasing (19.0 gms, 0.45" EH, and penetration - 23.0")
- PU 5-1/2" retrievable bridge plug and 5-1/2" packer. TIH on 2-7/8" tubing to selectively acidize perforated zones
- Acidize with 15% HCl containing one gallon per thousand gallons HAI-81M (corrosion inhibitor) and two gallons per thousand gallons SSO-21M (surfactant). monitor backside for communication, breakdown pressure, injection rate, and ISIP for each setting depth.
- Spot acid at end of tubing. Set packer and displace acid into perforations at 2 barrels per minute until all stage acid is in the formation. Shut down for 15 minutes and let acid soak. Displace acid @ 4 barrels per minute and attempt to break down perforations using 20 barrel fresh water per stage. Repeat for each setting.
- Prepare to swab well with packer and bridge plug. Release packer and RBP. TIH and set RBP below bottom perforations. STOOH and set packer above top perforations.
- RU to swab. Swab well to rig tank. Record casing pressure and recovered water volumes each hour. Attempt to kick off well flowing to rig tank.
- Swab and/or flow 50% of the load water
- Release packer, TIH, and release bridge plug
- TOOH with RBP and packer
- Determine if well is flowing or needs pump. If latter, unit with 3-1/4" tubing pump and gas anchor will initially be installed.
- RU well to start production

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 4

- ND BOPs and NU well head
- RD and MO workover rig
- Release well to production
- Collect gas and water samples for analysis

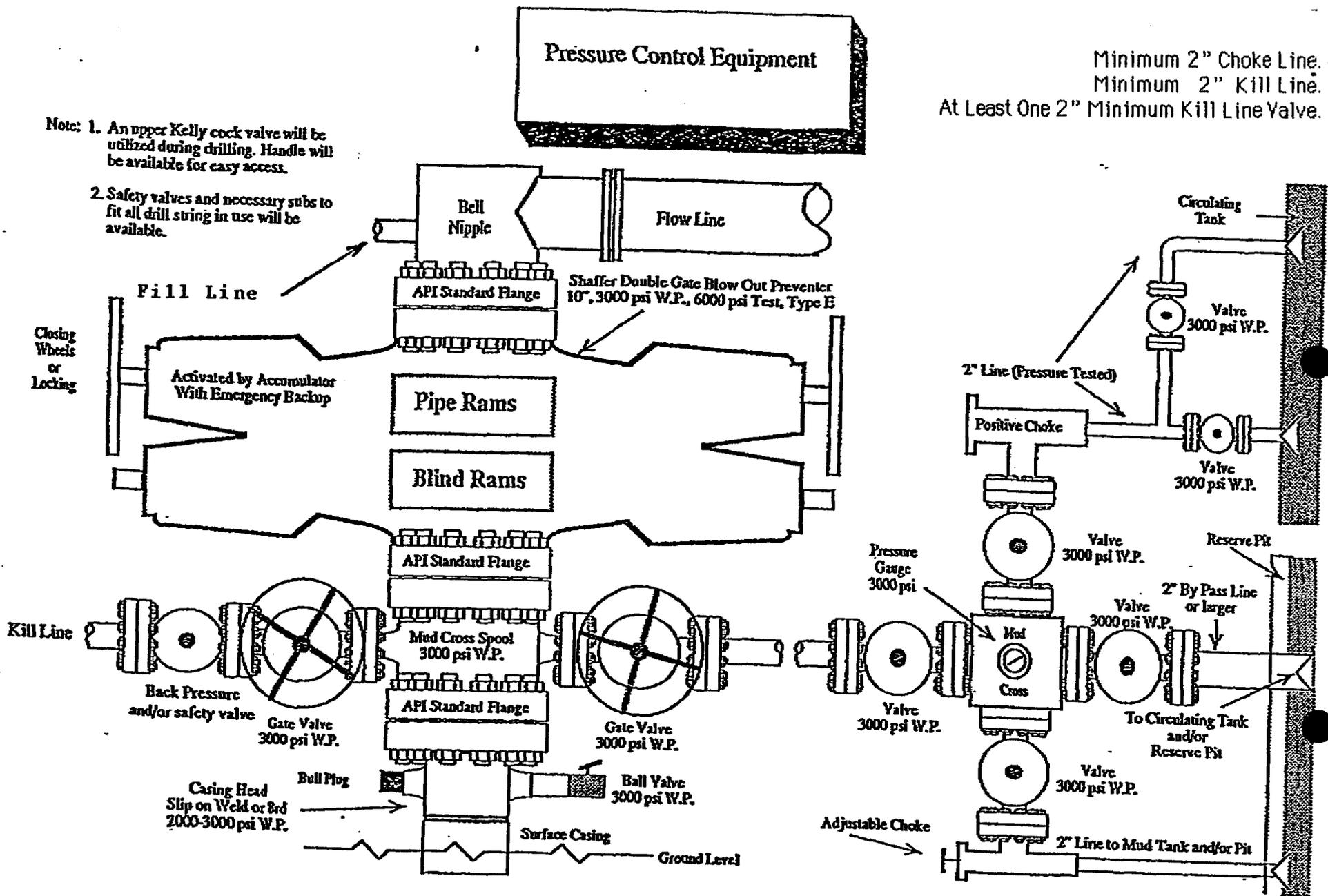
Projected spud date is July 1, 2001. It will take \approx 2 weeks to reenter and recomplete the well.

Pressure Control Equipment

Minimum 2" Choke Line.
 Minimum 2" Kill Line.
 At Least One 2" Minimum Kill Line Valve.

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 6

Surface Use Plan

1. EXISTING ROADS & DIRECTIONS (See PAGES 11 & 12)

From the junction of US 6 and US 191 north of Helper, Utah ...
Go NE 7-1/2 miles on US 191 to the paved Matt's Summit Road
Then turn left on the Matt's Summit Road and go W 2.7 miles
Then turn left at a locked steel gate and cattleguard
Go S 0.1 mi. on a rocky road to the well site
Then turn left and drive E directly onto the pad

2. ROAD TO BE BUILT OR UPGRADED

The last 0.1 mile of road will be repaired. It will be crowned and ditched with a 16' wide travel surface. A minimum 18" x 50' CMP culvert will be installed on the pad's west side. Maximum disturbed width will not exceed 50'. Maximum grade is 8%. Maximum cut or fill will be 2'. It will surfaced after the well is in production.

3. EXISTING WELLS (See PAGE 12)

There is one gas well within a mile radius. There are no existing oil, water, injection, or disposal wells within a mile.

4. PROPOSED PRODUCTION FACILITIES

A dehydrator-separator, meter run, and pump may be installed on the pad. All surface equipment will be painted a flat olive green color. Low profile muffled equipment will be used where possible.

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 7

Two buried pipelines (≈ 4 " O.D. HDPE water line and a ≈ 8 " O.D. HDPE gas line) will be laid from the northeast corner of the pad east along the south side of the county road for $\approx 7,790.42'$ to Huber's existing Huber-Federal 7-9 well. A temporary 80' long fence will be erected 20' south of the centerline between PI 15 and PI 16 to protect an archaeology site.

5. WATER SUPPLY

Water will be trucked from existing water well (right #91-4983) at Huber's central production facility in Section 11 or from town for the first 1500' of well bore. Produced water from Huber's wells will be used below 1500'.

6. CONSTRUCTION MATERIALS & METHODS

A diversion ditch will be cut south of the pad. Topsoil and brush will be stripped and stockpiled between the pad and ditch. A 325' long silt fence will be placed north of the pad. There will be no reserve pit.

Gravel will be bought from town if needed.

7. WASTE DISPOSAL

All trash will be placed in a trash cage. When full, it will be hauled to a state approved landfill. There will be no trash burning or disposal of trash in the reserve pit. Chemical toilets will be used for human waste. Their contents will be disposed of in state approved facilities.

Produced water will be piped to Huber's state approved existing lined ≈ 9 acre-foot evaporation pond at the Jensen 7-15 well, or its proposed other evaporation ponds or disposal wells.

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 8

8. ANCILLARY FACILITIES

There will be no airstrip or formal camp. Camper trailers will be on site for the company man, roughnecks, mud logger, tool pusher, etc.

9. WELL SITE LAYOUT

See PAGES 13 and 14 for depictions of the well pad, cross sections, cut and fill diagrams, burn pit, access road onto the pad, parking, living facilities, and rig orientation.

10. RECLAMATION

After completing drilling, the well site and immediate area will be cleared of all debris and material not needed for production.

All areas not needed for production will be backfilled, recontoured to match natural contours, and reserved topsoil and brush evenly spread. If the well is a producer, then enough topsoil will be kept aside to reclaim the rest of the pad. Disturbed areas will be ripped, harrowed, or scarified before seeding.

All reclaimed areas will be broadcast seeded in late fall or winter with seed mix specified by the surface owners for their 3,236.44' of pipeline. Private owner's seed mix will include alfalfa, crested wheatgrass, Indian ricegrass, canby bluegrass, pubescent wheatgrass, Russian wild rye, slender wheatgrass, western wheatgrass, and yellow sweet clover. BLM will determine seed mix for pad, road, and 4,553.98' of pipeline on BLM land. Seeded areas will be left rough and lightly harrowed or drug with a chain after seeding.

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 9

11. SURFACE OWNER

The pipeline route crosses 3,236.44' of private land owned by the Jensen family. Contact is Jerry Jensen @ (435) 637-6242. Remaining construction is on BLM land and on lease.

12. OTHER INFORMATION

Closest hospital is a 20 minute drive south in Price. The Castleview Hospital is at 300 North Hospital Drive. Phone number is (435) 637-4800.

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Brian Wood
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87505
(505) 466-8120 FAX: (505) 466-9682 Mobile: (505) 699-2276

The field representative during drilling and production will be:

Larry Sessions, Area Foreman
J. M. Huber Corporation
212 East 100 North
Price, Ut. 84501
(435) 613-9490 FAX: (435) 613-9489 Mobile: (435) 820-6359

I hereby certify J. M. Huber Corporation has the necessary consents from the proper lease and unit interest owners to conduct lease and unit operations in conjunction with this APD. Bond coverage *per* 43 CFR 3104 for

J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 10

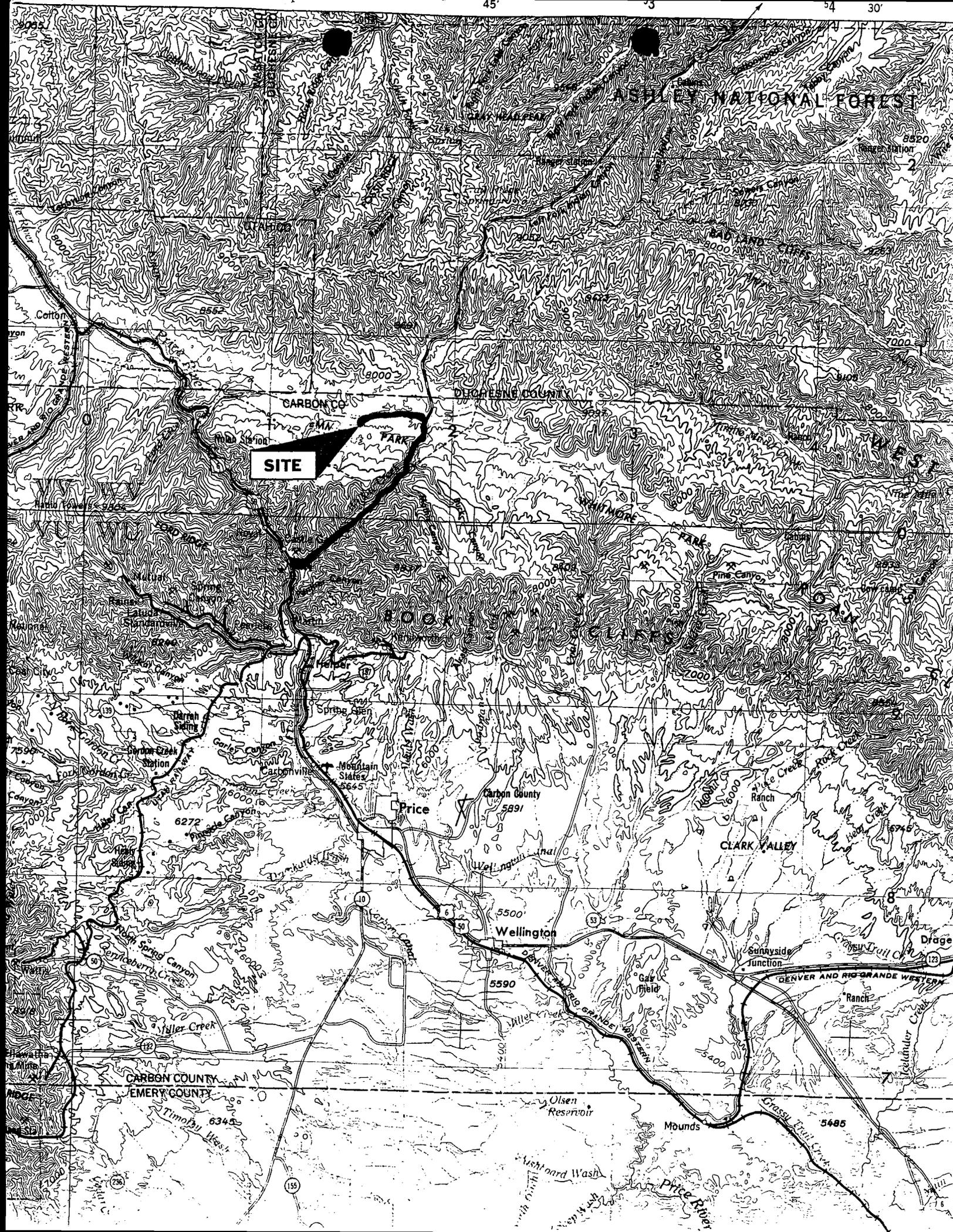
lease activities is being provided by J. M. Huber Corporation.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by J. M. Huber Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Brian Wood, Consultant

March 10, 2001
Date



45

3

34

30'

ASPEN NATIONAL FOREST

SITE

CARBON CO. PARK

Price

Wellington

CLARK VALLEY

CARBON COUNTY
EMERY COUNTY

DENVER AND RIO GRANDE WESTERN

Olsen Reservoir

Price River

236

155

123

8820
8000
7000

5500

5590

5400

5485

6272

6000

6000

6000

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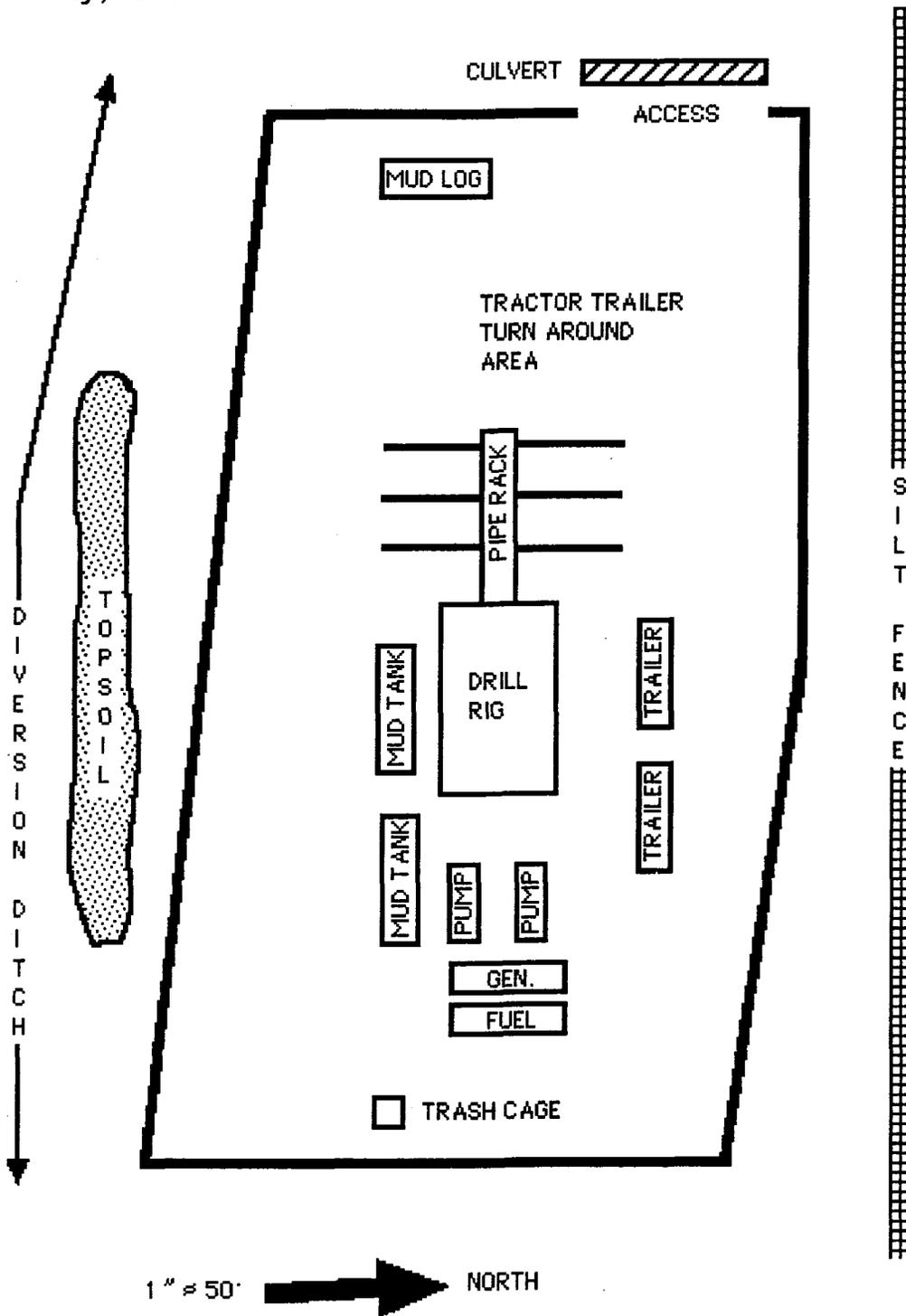
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J. M. Huber Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah





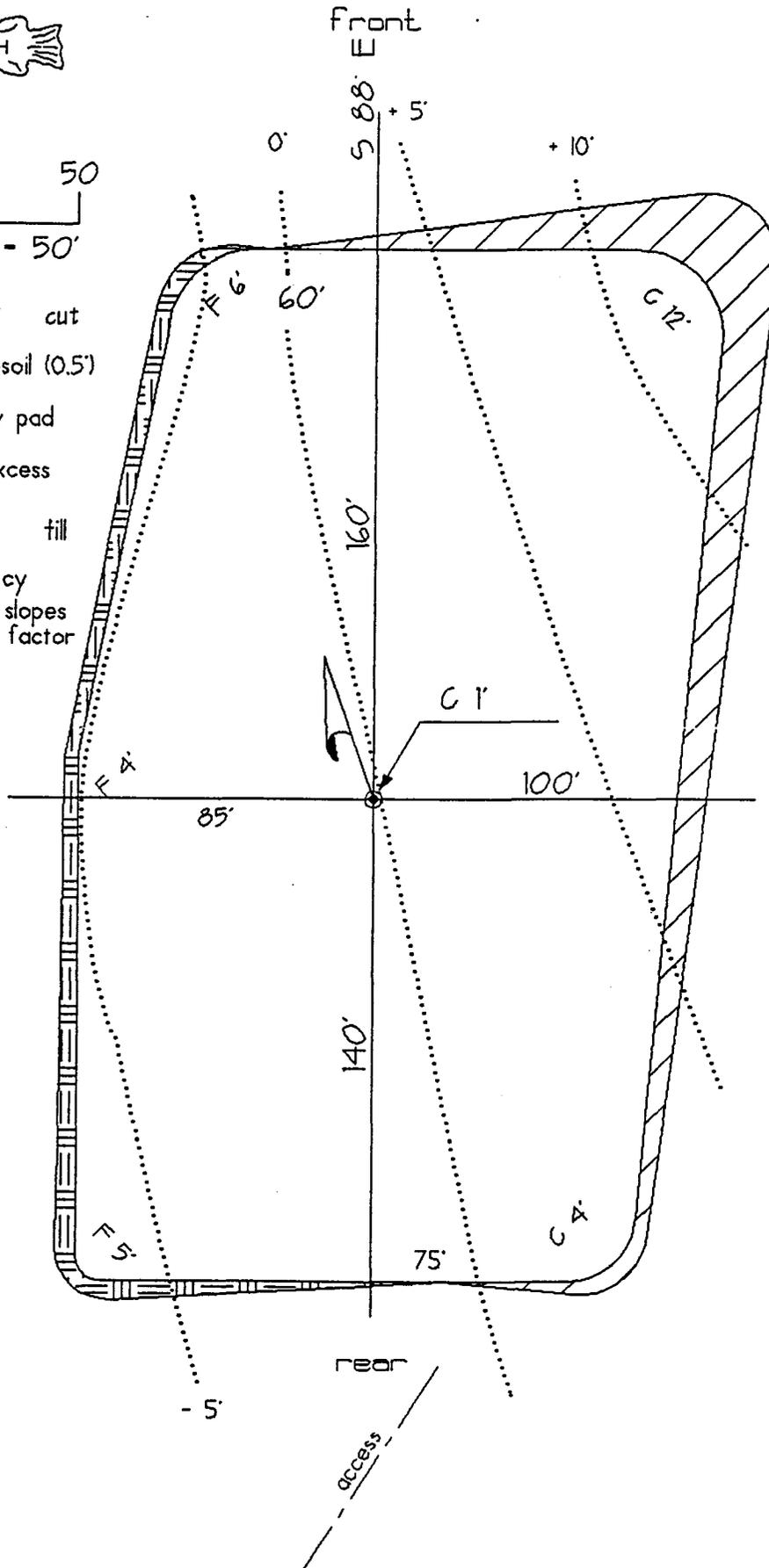
0' 50'
Scale 1" = 50'

cut
1150 cy topsoil (0.5')

5234 cy pad

1737 excess

till
2450 cy
assumed H slopes
20% shrink factor



FEDERAL #6-8

SE NW 2400' FNL & 1769' FWL: SEC 8 T12S-R10E
API NO. 43-007-30140

	SPUD	RIG OFF
SURFACE	10/10/1991	10/12/1991
PRODUCTION	10/13/1991	10/28/1993

7378 GL 15 KB 7393

WELL WORK HISTORY

12-1/4" Hole
8-5/8" 23#WC50
w/350 sxs cmt
TOC @ Surface

TOC

DV Tool
w/450 sxs cmt

Sqz w/ 60 sxs cmt

12/12/1991	PERF PANTHER SAND 5582-5652' OA
12/15/1991	ACIDIZE w/ 2000 GAL 15%; SWBD 99% WTR
12/18/1991	SET RBP @ 5550. PERF PNTHR 5402-5512 OA
12/27/1991	SWBD 71 BW, SSG, FFL 5400
12/28/1991	RETRIEVE BP @ 5550
01/04/1992	STEP RATE TEST. MAX DSPSL INTO PNTHR COULD BE 775 BPD; 0.41 PSI/FT FRAC GRAD
10/22/1993	PERF BLCKHWK 4508-4932 OA; TA'D
12/23/1995	REPERF, ACIDIZE; SET CIBP @ 5360
12/30/1995	SQZ PERFS @ 4430 w/ 60 SXS CMT
01/13/1996	FRAC w/ 2750 BW (20# LIN GEL) + 51M# 20/40 + 50.5M# 12/20 @ 103 BPM; SCR OUT
05/04/1996	CO BHP
06/17/1997	TOH w/ TBG and Rods T/A Well

50
100
443
1100
3977
4367
4450

CIBP

(Holes)	Perforations
(16)	4508 - 4512
(12)	4518 - 4521
(16)	4560 - 4564
(12)	4623 - 4626
(16)	4678 - 4682
(16)	4739 - 4743
(24)	4752 - 4758
(8)	4782 - 4784
(44)	4814 - 4825
(12)	4865 - 4868
(32)	4874 - 4882
(32)	4922 - 4930
(240)	Total Holes

NOTES: TIGHT SPOT @ 4367

TUBING BREAKDOWN

2-7/8"	142 JTS
TA	4402
2-7/8"	20 JTS
3-1/2"	JTS
SN	5041
TAG BAR	
2-7/8"	1 JTS
NC	YES
EOT	5075

ROD BREAKDOWN

PONIES	16'
1"	
7/8"	900'
3/4"	3500'
1"	600'
1.5"	
PUMP	ROD
2.5x1.5x21 60 Ring	

FILL
CIBP

5152
5360

PANTHER PERFORATIONS
(94) 5402 - 5652

8-3/4" Hole
5-1/2", 17# WC70
w/700 sxs cmt

TD 6030

6030

DEVIATION ANGLE

1098	0.75
2028	1.25
3183	2
4137	4
4740	4.75
5278	5.5
5800	6.25

FORMATION

FORMATION	TOP
PRICE RIVER	3232
CASTLEGATE	3686
BLACKHAWK	4020
KENILWORTH	
ABERDEEN	4958
SPRING CANYON	5112
MANCOS SHALE	5275

LAST REVISED: 07/21/1998

034

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED MOAB FIELD OFFICE

5. LEASE DESIGNATION AND SERIAL NO. UTU-65948

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL [X] DEEPEN [] 2001 MAR 19 P 1:22

b. TYPE OF WELL OIL WELL [] GAS WELL [X] OTHER [] SINGLE ZONE [] MULTIPLE ZONE []

2. NAME OF OPERATOR J. M. Huber Corporation (303) 825-7900

3. ADDRESS AND TELEPHONE NO. 1050 17th St., Suite 700, Denver, Co. 80265

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 2400' FNL & 1769' FWL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 air miles NNE of Helper

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 240'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6,764'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7,378' ungraded

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

7. UNIT AGREEMENT NAME N/A

8. FARM OR LEASE NAME, WELL NO. Huber-Fed. 6-8

9. API WELL NO. 43-007-30140

10. FIELD AND POOL, OR WILDCAT. Castlegate

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 8-12s-10e SLBM

12. COUNTY OR PARISH Carbon 13. STATE UT

16. NO. OF ACRES IN LEASE 2,471.31

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

19. PROPOSED DEPTH 6,030'

20. ROTARY OR CABLE TOOLS Rotary

22. APPROX. DATE WORK WILL START* July 1, 2001

PROPOSED CASING AND CEMENTING PROGRAM

Table with 6 columns: SIZE OF HOLE, GRADE SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows include 12-1/4" WC 50 8-5/8" 23 443' 350 sx & to surface and 8-3/4" WC 70 5-1/2" 17 6,030' 1,150 sx & to 1,100'

RECEIVED

AUG 28 2002

DIVISION OF OIL, GAS AND MINING

Note new suite number.

Archaeology report LAC 2000-22m filed 11-6-2000

Request exception because of topography, land use, and presence of existing well bore. Exception is to quarter-quarter line (240' instead of >=460'), not to a well. Orthodox location would be closer to road, on steeper slopes, and/or in wetlands

Orthodox well could be drilled at 2180 FN & 1769 FW 8-12s-10e, but it would be inside highway right-of-way. Request permission to drill at 2400' FNL & 1769' FWL 8-12s-10e. This is the only well in the quarter section. There are no producing wells within +6,763'. Wells (see Page 12) could be drilled in 8 offsetting units. Huber is owner of all 8 drilling units and leases within a minimum mile radius of proposed exception.

CONDITIONS OF APPROVAL ATTACHED

cc: BLM (M&P), Scott, UDOGM

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

SIGNED [Signature] TITLE Consultant (505) 466-8120 DATE 3-10-01 Approved by the Utah Division of Oil, Gas and Mining

PERMIT NO. [] Date: 0203-0200 By: [Signature] Assistant Field Manager, Division of Resources

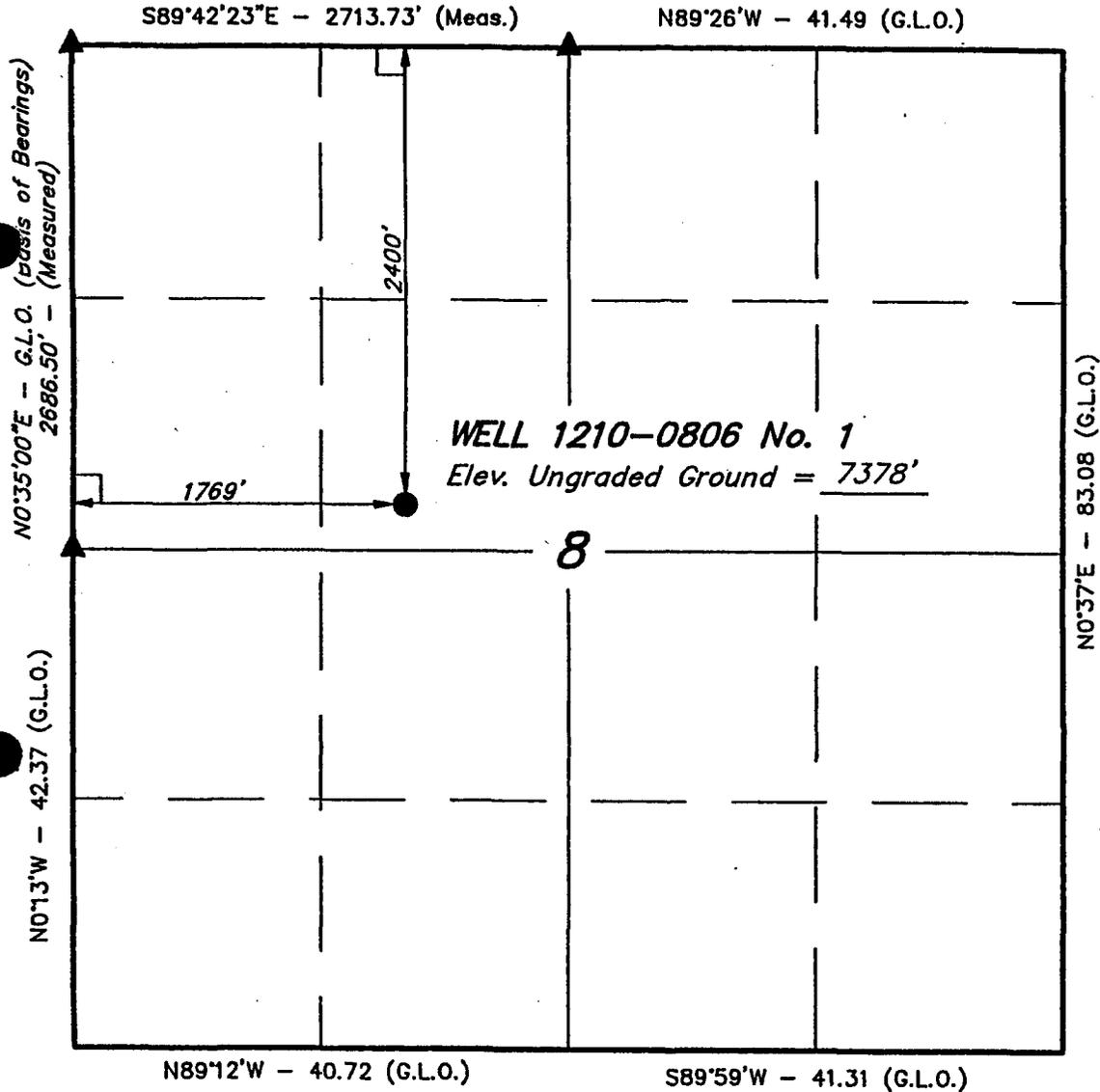
APPROVED BY /S/ WILLIAM C. STRINGER TITLE Assistant Field Manager, Division of Resources DATE AUG 22 2002

*See Instructions On Reverse Side

T12S, R10E, S.L.B.&M.

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7367 FEET.



CERTIFICATE

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

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

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 86 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER 2000	FILE COCKRELL OIL CORP

▲ = SECTION CORNERS LOCATED. (Brass Caps)

J.M. Huber Corporation
Huber Federal 6-8 (Re-Entry)
Lease U-65948
SE/NW Section 8 T12S, R10E
Carbon County, Utah

A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION through well completion, and shall be available to contractors to ensure compliance.

CONDITIONS OF APPROVAL

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

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

Bond coverage for this well is provided by ES 0071 (Principal - J. M. Huber Corporation) via surety consent as provided for in 43 CFR § 3104.2.

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

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

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

A. DRILLING PROGRAM

1. The proposed 2M BOPE configuration is adequate for this procedure.
2. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOG M) is required before beginning re-entry.

Huber Federal 6-8

B. SURFACE USE

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

Table 1, Seed Mixture for Final Reclamation Sagebrush/Grass Areas
Big Game Winter Restriction (December 1 through April 15)
Sage Grouse Nesting Habitat Restriction (April 1 and June 15)

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

GENERAL CONSTRUCTION

1. Operator shall contact the Price BLM Office at least forty-eight hours prior to the anticipated start of construction and/or any surface disturbing activities. The BLM may require and schedule a preconstruction conference with the operator prior to the operator commencing construction and/or surface disturbing activities. The operator and the operator's contractor, or agents involved with construction and/or any surface disturbing activities associated with the project, shall attend this conference to review the Conditions of Approval and plan of development. The operator's inspector will be designated at the pre-drill conference, and is to be given an approved copy of all maps, permits and conditions of approval before the start of construction. The BLM will also designate a representative for the project at the preconstruction conference.
2. The operator shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the BLM. The operator's representative shall be available for communication with the BLM within a reasonable time when construction or other surface disturbing activities are underway.
3. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, on public land is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is

necessary.

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

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

ROAD and PIPELINE CONSTRUCTION

8. Operator shall provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall certify (statement with PE stamp) that the road was constructed to the required Bureau of Land Management (BLM) road standards.
9. Road construction or routine maintenance activities are to be performed during periods when the soil can adequately support construction equipment. If such equipment creates ruts more than 6 inches deep, the soil is deemed too wet to adequately support construction equipment.
10. The operator is responsible for maintenance of all roads authorized through the lease or a right-of-way. Construction and maintenance shall comply with Class II or III Road Standards as described in BLM Manual Section 9113 and the Moab District Road Standards, except as modified by BLM. Maintenance may include but is not limited to grading, applying gravel, snow removal, ditch cleaning, headcut restoration/prevention.

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

PAD CONSTRUCTION

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

REHABILITATION PROCEDURES

Site Preparation

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

Seedbed Preparation

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

Fertilization

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

Mulching

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

An alternative method of mulching on small sites would be the application of

straw or hay mulch at a rate of 2000 pounds per acre. Hay or straw shall be certified weed free. Following the application of straw or hay, crimping shall occur to ensure retention.

Reseeding

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

General

1. Prior to the use of insecticides, herbicides, fungicides, rodenticides and other similar substances, the operator must obtain from BLM, approval of a written plan. The plan must describe the type and quantity of material to be used, the pest to be controlled, the method of application, the location for storage and disposal of containers, and other information that BLM may require. A pesticide may be used only in accordance with its registered uses and within other agency limitations. Pesticides must not be permanently stored on public lands.
2. To prevent the potential contamination of groundwater resources by seepage of produced water, reserve pits will be lined according to the procedures outlined in Chapter 2 of the Final Environmental Impact Statement for the Castlegate Coalbed Methane Project (EIS).

3. Cattle guards will be routinely maintained for the full life of the project. In addition, where access is located on privately owned surface estate, a metal gate will be installed across the cattle guard as required by the affected surface owner(s) to restrict access to private lands during the life of the project.
4. Access roads will be periodically bladed to smooth ruts and watered to reduce dust emissions. Huber will provide adequate turnouts to avoid traffic problems and to ensure roadway deterioration does not have offsite impacts resulting from erosion, sedimentation, and fugitive dust.
5. Huber will request the Department of Highway Safety to determine adequate signage identifying truck traffic on U.S. Highway 191, both north and south of the project area, and will ensure the installation of the determined signs.
6. Huber will *discuss* emergency plans with county law enforcement, fire protection, and emergency care providers. Plans will then be made clear to all Huber employees and subcontractors. Such information dissemination will minimize confusion in the case of an emergency.
7. Ground disturbance activities, cuts and fills, and removal of vegetation will be strictly confined to areas designated in the BLM approved APDs. Minimizing disturbance will reduce contrasts between exposed soils and naturally vegetated areas.
8. To the extent possible, all juniper trees will be left standing and protected from disturbance. The few trees in the area offer better screening than the sagebrush and will be protected.
9. Reclamation plans approved by BLM; the Utah Division of Oil, Gas, and Mining; and private landowners will be precisely followed and monitored by BLM for at least two growing seasons.
10. Lights used during nighttime drilling efforts will be shielded to reduce offsite illumination.
11. All production structures and buildings, with the exception of those identified by Federal or State law, will be painted in nonglare, earth-tone colors.
12. Landscaping of the Central Processing Facility {CPF) will be designed and developed with the objective of minimizing visual impact as perceived from U.S. Highway 191 and the Key Observation Point. Landscaping will primarily utilize native species of varying height classes and minimize the appearance of straight lines and sharp angles.
13. If project traffic levels create dust problems during the dry months of the year, as determined by the Authorizing Officer, Huber will water roads and active working

areas to reduce dust generation.

14. Wells will be located a minimum of 660 feet from known springs and 330 feet of the centerline of perennial streams to ensure that drilling operations will not have any impact.
15. Producing wells will be maintained in a condition of good mechanical integrity to prevent casing leaks and potential contamination of groundwater resources.
16. Huber should also apply for an appropriation of the produced water if a beneficial use can be defined, in which case it may be feasible to use the treated water rather than discharge to surface drainages.
17. The facilities for the West CPF will be relocated outside of soil map unit 108 (Silas loam).
18. Monitoring of disturbed areas by the County Weed Control Officer for noxious weed infestations will be conducted.
19. The areas of interim reclamation will also be monitored for infestations of noxious weeds. If infestations of noxious weeds occur in these disturbed areas, eradication measures will be implemented to control populations of weedy species.
20. Well locations will be relocated within the 160-acre spacing to avoid wetlands. Disturbance of wetlands by road crossings will be coordinated by Utah Division of Water Quality as they prepare the required Stream Crossing Permit.
21. Raptor inventories will be conducted each year between May 15 and June 15 to determine the status of previously identified nests to locate any new nests in areas where surface-disturbing activities are planned. Such inventory work must be conducted by personnel qualified in raptor inventory techniques and coordinated with the Authorized Office and the Utah Division of Wildlife Resources (UDWR). Active raptor nests will be protected from disturbance by prohibiting any activity within 0.5 mile of the nest.
22. All evaporation ponds at the CPFs will be netted and fenced with mesh wire fences of sufficient height (6 feet) to prevent contact by waterfowl, other wildlife, or livestock.
23. Travel on service roads in designated elk wintering and calving, deer fawning, and sage grouse strutting areas will be restricted around dawn and dusk, whenever practical, during the respective calving, fawning, and strutting seasons.

24. Huber will work with the UDWR to develop a wildlife education program for employees to inform them of the potential impacts to wildlife from the project and of the mitigation measures which will be required.
25. Best Management Practices will be utilized to control sediment runoff from construction areas.
26. Riprap will be placed on stream banks at pipeline and road crossings to reduce erosion and sedimentation and to stabilize banks.
27. Stream crossings will be constructed during periods of reduced flow. Construction will be undertaken in such a manner that flow will be maintained at all stream *crossings*, and streams capacities will not be altered as a result of pipeline and road construction.
28. Removal of riparian vegetation will be avoided or riparian vegetation replaced.
29. Water discharge from the CPFs will be in full compliance with the State of Utah, Department of Environmental Quality, Utah Pollutant Discharge Elimination System, as delegated by the Environmental Protection Agency under the authority of the Clean Water Act of 1972.

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

Table 1

Sagebrush/Grass Association

Common Plant Name	Scientific Name	Pounds per acre (PLS)
Bluebunch wheatgrass	<i>Pseudoroegneria spicata</i>	3.0
Russian wild rye	<i>Psathyrostachys juncea</i>	2.0
Smooth brome	<i>Bromus inermis</i>	2.0
Alfalfa	<i>Medicago sativa</i>	2.0
Sainfoin	<i>Onobrychis viciifolia</i>	2.0
Bitterbrush	<i>Purshia</i>	1.0
Mountain sagebrush	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	0.25
	TOTAL	12.25

The following stipulations are derived from the Castlegate CBM EIS, USDI FES No. 92-23. While not all stipulations are applicable to all Federal actions within the EIS area, stipulations which have a check mark in the box are applicable to the federal permit (i.e. APD, ROW etc) referenced below. Included as attachment 1 are the actual stipulations from the Record of Decision for USDI FES No. 92-23, as well as applicable definitions.

Proponent: HUBER

Federal Permit Reference: FED 6-8

Prepared by: DAVID MILLS

Date Prepared: 7/16/02

Big Game Winter Restriction (December 1 through April 15)

The Federal action or some portion of the Federal action, associated with this permit lies within big game high priority or critical big game winter range. Construction activities are prohibited between December 1 through April 15 in order to avoid impacts (disturbance or alter habitat use patterns) to wintering big game. A definition of construction activity is included in appendix 1.

Big Game Fawning/Calving Range Restriction (May 15 through July 5)

The Federal action or some portion of the Federal action, associated with this permit lies within big game fawning/calving range. Construction activities are prohibited between May 15 through July 5 in order to avoid impacts (disturbance or alter habitat use patterns) to fawning and or calving big game. A definition of construction activity is included in appendix 1.

Sage Grouse Nesting Habitat Restriction (April 1 and June 15)

The Federal action or some portion of the Federal action, associated with this permit lies within the perimeter of a buffer zone of 2 miles from known sage grouse leks, also considered nesting habitat. Construction activities are prohibited between April 1 and June 15 in order to avoid impacts (disturbance or alter habitat use patterns) to sage grouse during the nesting season. A definition of construction activity is included in appendix 1.

Sage Grouse Surface Occupancy Restriction on Known Leks

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known sage grouse lek. Surface Occupancy is prohibited within the perimeter of this known lek.

Raptor Survey Requirement

The Federal action or some portion of the Federal action, associated with this permit lies within habitat known to be used or is considered to be potential habitat for nesting raptors. The proponent or permit holder is required to conduct raptor surveys to determine the status of known nests and verify presence of additional nests in the affected area of this Federal action.

Surveys are to be conducted by consultants qualified to conduct such surveys and approved by the authorized officer. All surveys would be conducted by helicopter during May of each year unless otherwise provided for in BLM's Raptor Survey Protocol. The surveys are to be completed in the same year as the proposed drilling/construction so that current nest activity status data is available prior to APD/Federal Permit approval. Cost for surveys and preparation of a report of the findings of the survey would be the obligation of the lease holder.

Raptor Nest Site Buffer Zone Surface Occupancy Restriction

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known raptor nest site buffer zone. Long term surface occupancy (i.e. wells, above ground facilities etc.) is prohibited within the perimeter of any known raptor nest site buffer zone (.5 mile radius around a nest site) in which the nest has been classified as occupied within the last three years, definition in appendix 1.

This provision will apply as long as the nest status remains documented as occupied. If the nest is documented as unoccupied for a period of three or more consecutive years, it will be deemed to have been abandoned and the federal action will no longer be subject to the no surface occupancy provision.

In the event a federal action involving a permanent facility, as described above, is proposed within the .5 mile bufferzone, BLM can complete a site specific evaluation. The evaluation will consider site terrain features such as topographic and vegetative screening, and existing intrusions which may already exist in the bufferzone. Site specific standard guidelines used in this analysis are available in the Price Field Office. If the site specific evaluation determines that the federal action can be accomodated with no significant adverse affect to the current or future productivity of the nest, the no surface occupancy provision can be waved.

Raptor Nest Site Seasonal Restriction/Temporary Occupancy (February 1 through July 15)

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known raptor nest site buffer zone. Any temporary surface disturbance and occupancy (i.e. road and pipeline line construction, etc.) associated with this federal permit, occurring within .5 miles of a raptor nest documented as occupied in one or more of the three years preceding the proposed date of construction must be conducted outside the nesting period of February 1 to July 15. This will include but not be limited to road construction or upgrading required to reach this well location. If such work is required to access this location with heavy equipment, the seasonal closure of February 1 to July 15 will also apply to the drilling of this well.

Road Density and Location Restriction

The Federal action or some portion of the Federal action, associated with this permit involves new road construction. Construction of new roads should be minimized wherever possible. New roads would be located away from ridge tops to maximize screening wherever possible, unless engineering limitation or landowner requirements prohibit a chosen location.

Perennial Stream and Springs Protection

The Federal action or some portion of the Federal action, associated with this permit lies in close proximity to a perennial stream or spring. Wells will be located a minimum of 660 feet from known springs and 330 feet of the centerline of perennial streams to ensure that drilling operation will not have any impact.

Wetland Surface Occupancy Restriction

Well locations will be relocated within the 160 acre spacing to avoid surface disturbance in wetlands. Disturbance of wetlands by road crossings will be coordinated by the Utah Division of Water Quality as they prepare the required stream crossing permit.

Fish and Wildlife Enhancement/Mitigation Program (NA, REINTRY Well, Already Completed With)

Contribute \$750.00 into the Fish and Wildlife Enhancement/Mitigation program, as per Cooperative Agreement between BLM, Huber and Utah Division of Wildlife Resources, for each well drilled in the Castlegate Coalbed Methane project area.

Special Circumstance Wildlife Stipulation (Write In)

Big Game Winter and Fawning/Calving Habitat (USDI FES No. 92-93, Record of Decision): Construction activities will be prohibited in critical elk winter range between December 1 and April 15, high value mule deer winter range between December 1 and April 15, and any range identified as a mule deer fawning or elk calving habitat between May 15 and July 5. This does not include maintenance and operation of existing wells.

Sage Grouse (USDI FES No. 92-93): Construction activities will be restricted within 2 miles of all known sage grouse leks between April 1 and June 15. No surface occupancy will be permitted on known leks.

Raptor Nest Site Protection (USDI FES No. 92-93): Raptor inventories will be conducted each year between May 15 and June 15 to determine the status of previously identified nests to locate any new nests in areas where surface-disturbing activities are planned. Such inventory work must be conducted by personnel qualified in raptor inventory techniques and coordinated with the Authorized Officer and the Utah Division of Wildlife Resources (UDWR). Active raptor nest will be protected from disturbance by prohibiting any activity within 0.5 miles of the nest

Wildlife Displacement/Offsite Mitigation (USDI FES No. 92-93): PG&ER will mitigate unavoidable impacts of maintenance and operation of existing wells and facilities and impact of wildlife displacement resulting from human presence by participating in a Fish and Wildlife Habitat Enhancement Program. PG&ER will join into a Cooperative Agreement with BLM and UDWR outlining the specific enhancement parameters and projects to be utilized.

Road Density and Location Restriction (USDI FES No. 92-93): Construction of new roads should be minimized wherever possible. New roads would be located away from ridge tops to maximize screening wherever possible, unless engineering limitation or landowner requirements prohibit a chosen location.

Perennial Stream and Springs Protection (USDI FES No. 92-93): Wells will be located a minimum of 660 feet from know spring and 330 feet of the centerline of perennial streams to ensure that drilling operation will not have any impact.

Wetland Surface Occupancy Restriction.(USDI FES No. 92-93): Well locations will be relocated within the 160 acre spacing to avoid wetlands. Disturbance of wetlands by road crossings will be coordinated by the Utah Division of Water Quality as they prepare the required stream crossing permit.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

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

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

Occupied Raptor Nest Site Definition: An occupied raptor nest is defined, for the purposes of this stipulation, as any nest site exhibiting physical evidence of current use by raptors. Evidence may include but is not limited to: presence of raptors (adults, eggs or young) at the nest or within the nesting territory, presence of greenery in the nest, and/or presence of current year's whitewash at the nest or in the immediate vicinity of the nest.

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Spud- The spud date will be reported to BLM 24-hours prior to spudding, or in this case, re-entry. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding.

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

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

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

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

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

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

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

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

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No.7.

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

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

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

TABLE 1

NOTIFICATIONS

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

1 day prior to starting re-entry

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

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

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



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

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 (801) 538-5340 telephone
 (801) 359-3940 fax
 (801) 538-7223 TTY
 www.nr.utah.gov

Michael O. Leavitt
 Governor
 Robert L. Morgan
 Executive Director
 Lowell P. Braxton
 Division Director

September 3, 2002

J M Huber Corporation
 1050 17th St., Suite 700
 Denver, CO 80265

Re: Huber-Federal 6-8 Well, 2400' FNL, 1769' FWL, SE NW, Sec. 8, T. 12 South,
 R. 10 East, Carbon County, Utah

Gentlemen:

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

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30140.

Sincerely,

John R. Baza
 Associate Director

pb

Enclosures

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

Operator: J M Huber Corporation
Well Name & Number Huber-Federal 6-8
API Number: 43-007-30140
Lease: UTU-65948

Location: SE NW Sec. 8 T. 12 South R. 10 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

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

036

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
J.M. Huber Corporation

3a. Address
1050 17th St., Ste. 1850, Denver, Co. 80265

3b. Phone No. (include area code)
(303) 825-7900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**2400' FNL & 1769' FWL
 8-12s-10e SLBM**

5. Lease Serial No.
UTU-65948

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Huber-Fed. 6-8

9. API Well No.
43-007-30140

10. Field and Pool, or Exploratory Area
Castlegate

11. County or Parish, State
Carbon, UT

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

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

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

Request APD approval be extended one year.

REQUEST DENIED

Utah Division of
Oil, Gas and Mining

Date: 01-30-04
By: [Signature]

RECEIVED

NOV 03 2003

DIV. OF OIL, GAS & MINING

cc: BLM-Moab, Croteau, Sessions, UDOGM

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

Name (Printed/Typed)
Edie Klein

Signature Edie Klein

Title **Consultant** (505) 466-8120

Date **10/29/03**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

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

Office _____

037



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab Field Office
82 East Dogwood
Moab, Utah 84532



3160
UTU65948
(UT-062)

J.M. Huber Corporation
1050 17th Street, Suite 1850
Denver, Colorado 80265

NOV 4 2003

Re: Extension Request
Well Nos. Huber-Jensen Federal 1-3 and Huber Federal 6-8
Sections 3 and 8, T 12 S, R 10 E
Lease UTU65948
Carbon County, Utah

Gentlemen:

We have received your sundry notices requesting a one year extension to the permit expiration dates for the above referenced Applications for Permit to Drill. Any request for permit extension must be submitted for approval prior to the date of expiration. The approval period for each of these permits expired on August 22, 2003. We are, therefore, unable to grant your request.

In order to drill at these locations, new applications must be submitted for approval. If you have any questions or wish to discuss this matter, please contact Marie McGann at 435-259-2135.

Sincerely,

Eric C. Jones

Acting Assistant Field Manager
Division of Resources

Enclosure
Unapproved Sundry Notices (2p)

cc: UT-070, DStephens (w/Enclosure)
Diana Mason, State of Utah, DOGM (wo/Enclosure)
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114

MMcGann:mm:11/4/03

RECEIVED

NOV 07 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

January 12, 2004

Brian Wood
J.M. Huber Corporation
1050-17th St, Suite 700
Denver, CO 80265

Re: APD Rescinded-Huber-Federal 6-8, Sec. 8, T. 12S, R. 10E Carbon
County, Utah API No. 43-007-30140

Dear Mr. Wood:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on September 3, 2002. On November 7, 2003 the Division received a letter from the Bureau of Land Management (BLM), which states that the permit filed with the BLM was being returned. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 12, 2004.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Whitney
Engineering Technician

cc: Well File
Bureau of Land Management, Moab

6. (R649-9-2)Waste Management Plan has been received on:

In Place

7. **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

BIA

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on:

n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on:

n/a

10. **Underground Injection Control ("UIC")** The 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:

N/A

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on:

2/5/2004

2. Changes have been entered on the Monthly Operator Change Spread Sheet on:

2/5/2004

3. Bond information entered in RBDMS on:

N/A

4. Fee wells attached to bond in RBDMS on:

N/A

5. Injection Projects to new operator in RBDMS on:

n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number:

RLB0006732

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number:

RLB0006705

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number:

n/a

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number

RLB0006706

2. The FORMER operator has requested a release of liability from their bond on:

N/A

The Division sent response by letter on:

N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER 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:

N/A

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 checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Federal - UTU-65948
2. NAME OF OPERATOR: J.M. Huber Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1050 17th St, Suite 700 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2400' FNL 1796" FWL COUNTY: Carbon		8. WELL NAME and NUMBER: Federal 6-8
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 8 12S 10E 6 STATE: UTAH		9. API NUMBER: 4300730140
		10. FIELD AND POOL, OR WILDCAT: Castlegate

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"/> REPERFORATE CURRENT FORMATION
<input checked="" 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.

Effective December 1, 2003, Please change operator and owner from:

J.M. Huber Corporation
1050 17th Street, Suite 700
Denver, CO 80265

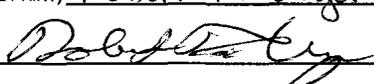
Phone #303-825-7900

To:

Evergreen Operating Corporation
1401 17th Street, Suite 1200
Denver, CO 80202

Phone #303-298-8100

For Evergreen Operating Corporation:
Name: Scott Zimmerman
Signature: 
Title: VP Operations & Engineering

For J.M. Huber Corp
NAME (PLEASE PRINT) Robert F. Unger TITLE Senior Vice President
SIGNATURE  DATE 1/20/04

(This space for State use only)

RECEIVED

FEB 05 2004

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

040

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: DRILL <input type="checkbox"/> REENTER <input checked="" type="checkbox"/>		5. Lease Serial No. UTU-65948
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator EVERGREEN OPERATING CORPORATION		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 1401 17TH ST., Suite 1200 DENVER, CO 80202	3b. Phone No. (include area code) (303) 298-8100	8. Lease Name and Well No. HUBER-FEDERAL 6-8
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 2400' FNL & 1769' FWL SENW 39.79937 At proposed prod. zone SAME 4405294 Y 514625 X -110.82917		9. API Well No. 43-007-30140
14. Distance in miles and direction from nearest town or post office* 9 AIR MILES NNE OF HELPER		10. Field and Pool, or Exploratory CASTLEGATE
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 240'	16. No. of Acres in lease 2,471.31	11. Sec., T., R., M., or Blk. and Survey or Area 8-12s-10e SLB&M
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 6,764'	19. Proposed Depth 6,030'	12. County or Parish CARBON
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,378' GL	22. Approximate date work will start* UPON APPROVAL	13. State UT
17. Spacing Unit dedicated to this well NW4 (160 AC.)		
20. BLM/BIA Bond No. on file RLB0006705		
23. Estimated duration 2 WEEKS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

Comments Previously approved APD expired before Huber started construction. Evergreen is now operator. No changes in proposal.

Request exception because of topography, land use, and presence of existing well bore. Exception is to quarter-quarter line (240' instead of 460' or more), not to a well. Orthodox location would be closer to road and/or in wetlands or grouse lek.

Orthodox well could be drilled at 2180 FNL & 1769 FWL 8-12s-10e, but it would be inside county road right-of-way. Request permission to drill at 2400 FNL & 1769 FWL 8-12s-10e. This is the only well in the quarter section. Closest producing well is Evergreen's Huber-Jensen 1-8 which is 3,266' southeast. Wells (see PAGE 12) could be drilled in 6 of the 8 offset quarter section units. All 6 would be on Evergreen leases. The other 2 offset quarter section units are held by Evergreen's Huber-Jensen 1-8 (SESE Sec. 8) and Huber-Jensen 2-8 (NENE Sec. 8) gas wells.

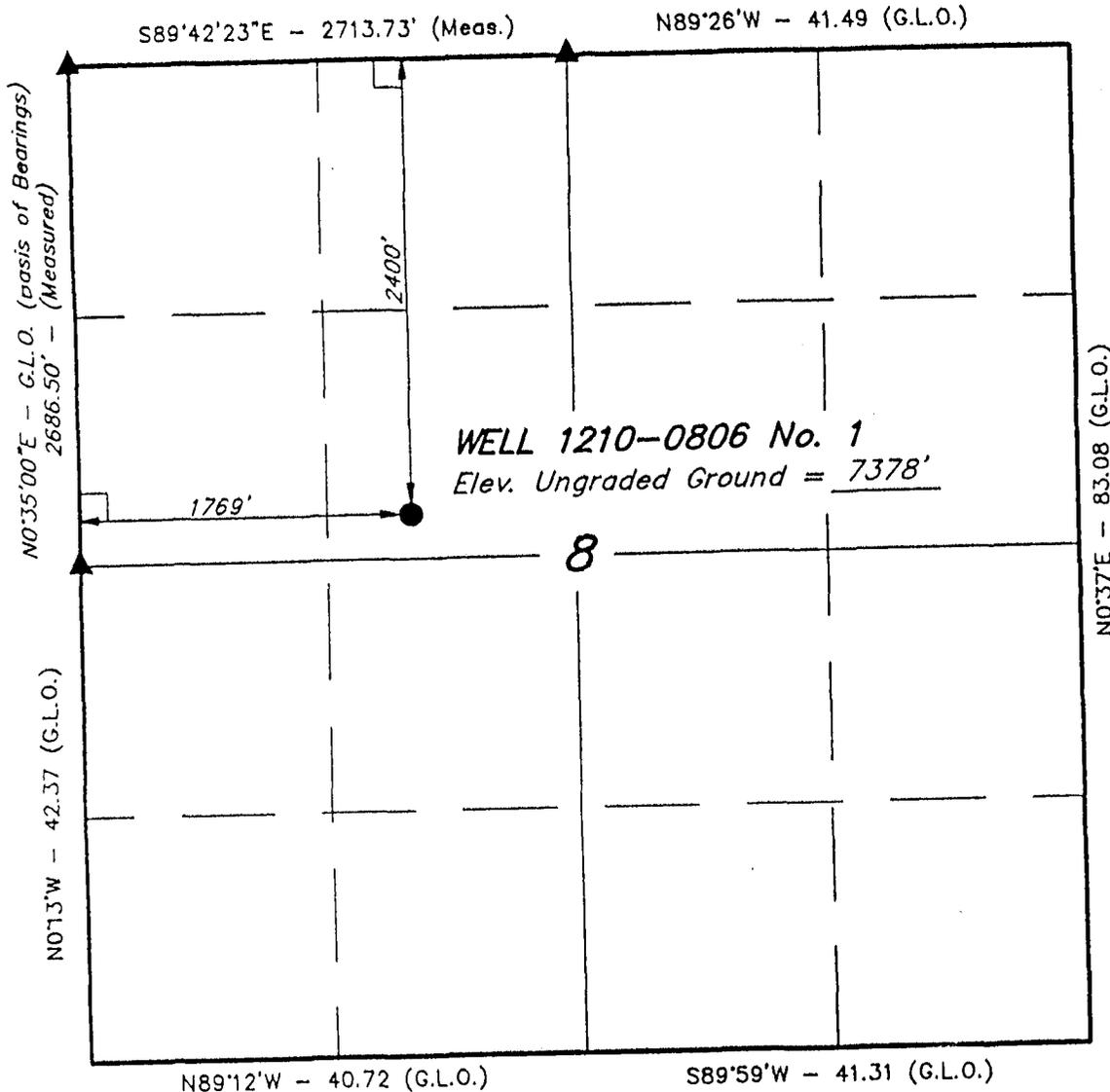
25. Signature	Name (Printed/Typed) BRIAN WOOD	Date 2-15-04
Title CONSULTANT	PHONE: 505 466-8120	FAX: 505 466-9682
Approved by (Signature)	Name (Printed/Typed) BRADLEY G. HILL	Date 03-03-04
Title ENVIRONMENTAL SCIENTIST III	RECEIVED FEB 19 2004	

Federal Approval of this Action is Necessary

Application approval does not warrant or certify the 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, are attached.

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

T12S, R10E, S.L.B.&M.



▲ = SECTION CORNERS LOCATED. (Brass Caps)

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SA ELEVATION IS MARKED AS BEING 7367 FEET.



CERTIFICATE

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

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

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX 1758 - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
FILED	FILE

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/19/2004

API NO. ASSIGNED: 43-007-30140

WELL NAME: HUBER-FED 6-8

OPERATOR: EVERGREEN OPERATING (N2545)

CONTACT: BRIAN WOOD

PHONE NUMBER: 303-298-8100

PROPOSED LOCATION:

SENW 08 120S 100E

SURFACE: 2400 FNL 1769 FWL

BOTTOM: 2400 FNL 1769 FWL

CARBON

CASTLEGATE (13)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-65948

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MNCS

COALBED METHANE WELL? YES

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.79937

LONGITUDE: 110.82917

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0006705)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 91-4983)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3.
Unit _____
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Federal Approval
2- Spacing Strip

T11S R10E

T12S R10E

CAUSE: 220-4

CASTLEGATE FIELD

EMMA PARK (INVALIDATED) UNIT

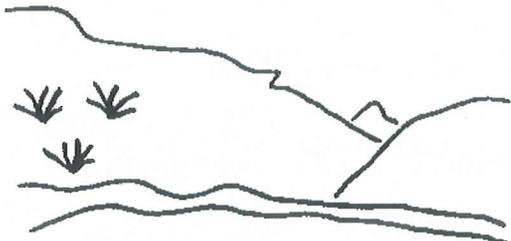
OPERATOR: EVERGREEN OPERATING (N2480)

SEC. 8 T.12S, R.10E

FIELD: CASTLEGATE (13)

COUNTY: CARBON

SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

- | | | |
|-----------------------|--------------------|---------------------|
| Wells | Unit Status | Field Status |
| • GAS INJECTION | □ EXPLORATORY | □ ABANDONED |
| • GAS STORAGE | □ GAS STORAGE | ■ ACTIVE |
| • LOCATION ABANDONED | □ NF PP OIL | □ COMBINED |
| ⊙ NEW LOCATION | □ NF SECONDARY | □ INACTIVE |
| • PLUGGED & ABANDONED | □ PENDING | □ PROPOSED |
| • PRODUCING GAS | □ PI OIL | □ STORAGE |
| • PRODUCING OIL | □ PP GAS | □ TERMINATED |
| • SHUT-IN GAS | □ PP GEOTHERML | |
| • SHUT-IN OIL | □ PP OIL | |
| × TEMP. ABANDONED | □ SECONDARY | |
| • TEST WELL | □ TERMINATED | |
| ▲ WATER INJECTION | | |
| • WATER SUPPLY | | |
| ♣ WATER DISPOSAL | | |



PREPARED BY: DIANA WHITNEY
DATE: 2-MARCH-2004



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

March 3, 2004

Evergreen Operation Corporation
1401 17th St., Suite 1200
Denver, CO 80202

Re: Huber-Federal 6-8 Well, 2400' FNL, 1769' FWL, SE NW, Sec. 8, T. 12 South,
R. 10 East, Carbon County, Utah

Gentlemen:

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

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30140.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

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

Operator: Evergreen Operation Corporation
Well Name & Number Huber-Federal 6-8
API Number: 43-007-30140
Lease: UTU-65948

Location: SE NW Sec. 8 T. 12 South R. 10 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

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

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

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

2004-29

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MOAB FIELD OFFICE

044 APPLICATION FOR PERMIT TO DRILL OR REENTER

2004 FEB 20 A 9 56

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. N/A	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Lease Name and Well No. HUBER-FEDERAL 6-8	
2. Name of Operator EVERGREEN OPERATING CORPORATION		9. API Well No. 43-007-30140	
3a. Address 1401 17TH ST., Suite 1200 DENVER, CO 80202	3b. Phone No. (include area code) (303) 298-8100	10. Field and Pool, or Exploratory CASTLEGATE	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 2400' FNL & 1769' FWL At proposed prod. zone SAME		11. Sec., T., R., M., or Blk. and Survey or Area SENW 8-12s-10e SLB&M	
14. Distance in miles and direction from nearest town or post office* 9 AIR MILES NNE OF HELPER		12. County or Parish CARBON	13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 240'	16. No. of Acres in lease 2,471.31	17. Spacing Unit dedicated to this well BLM Bond # UTBOND 72 NW4 (160 AC.)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 6,764'	19. Proposed Depth 6,030'	20. BLM/BIA Bond No. on file RLB0006705	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,378' GL	22. Approximate date work will start* UPON APPROVAL	23. Estimated duration 2 WEEKS	

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RECEIVED
JUL 15 2004

DIV. OF OIL, GAS & MINING

25. Signature	Name (Printed/Typed) BRIAN WOOD	Date 2-15-04
Title CONSULTANT	PHONE: 505 466-8120	FAX: 505 466-9682
Approved by (Signature)	Name (Printed/Typed) Eric Jones	Date JUL - 9 2004
Title Acting Assistant Field Manager, Division of Resources	Office Moab Field Office	

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, are attached.

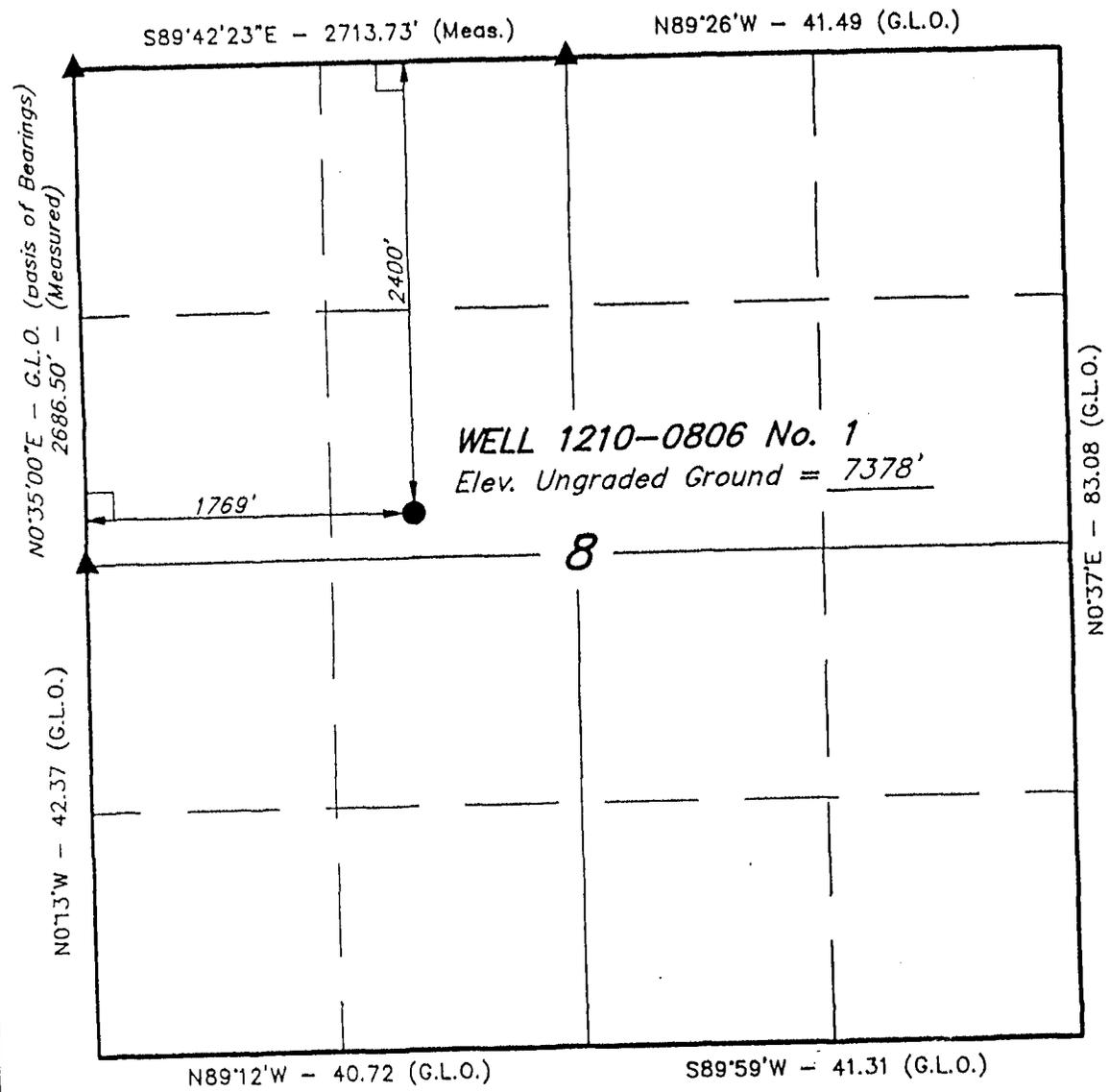
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CONDITIONS OF APPROVAL ATTACHED. BLM (M&P), McDonald, Sessions, UDOGM

COCKRELL OIL CORP.

Well location, WELL 1210-0806 No. 1, located as shown in the SE 1/4 NW 1/4 of Section 8, T12S, R10E, S.L.B.&M. Carbon County, Utah.

T12S, R10E, S.L.B.&M.



BASIS OF ELEVATION

SPOT ELEVATION AT THE NW CORNER OF SECTION 8, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SPOT ELEVATION IS MARKED AS BEING 7367 FEET.



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

Robert L. [Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING	
P. O. BOX 1758 - 85 SOUTH - 200 EAST	
VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 3-21-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT

▲ = SECTION CORNERS LOCATED. (Brass Caps)

Evergreen Operating Corporation
Huber-Federal 6-8 (Re-Entry)
Lease U-65948
SE/NW Section 8, T12S, R10E
Carbon County, Utah

A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.

CONDITIONS OF APPROVAL

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

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

Bond coverage for this well is provided by UTB000072 (Principal – Evergreen Operating Corporation) via surety consent as provided for in 43 CFR 3104.2.

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

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

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

A. DRILLING PROGRAM

1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.

B. SURFACE USE

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

Table 1, Seed Mixture for Final Reclamation Sagebrush/Grass Areas
Big Game Winter Restriction (December 1 through April 15)
Sage Grouse Nesting Habitat Restriction (April 1 and June 15)

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

GENERAL CONSTRUCTION

1. Operator shall contact the Price BLM Office at least forty-eight hours prior to the anticipated start of construction and/or any surface disturbing activities. The BLM may require and schedule a preconstruction conference with the operator prior to the operator commencing construction and/or surface disturbing activities. The operator and the operator's contractor, or agents involved with construction and/or any surface disturbing activities associated with the project, shall attend this conference to review the Conditions of Approval and plan of development. The operator's inspector will be designated at the pre-drill conference, and is to be given an approved copy of all maps, permits and conditions of approval before the start of construction. The BLM will also designate a representative for the project at the preconstruction conference.
2. The operator shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the BLM. The operator's representative shall be available for communication with the BLM within a reasonable time when construction or other surface disturbing activities are underway.
3. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, on public land is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is necessary.
4. During project construction, surface disturbance and vehicle travel shall be limited to the approved location and access routes. Any additional area needed must be approved by the Price BLM Office prior to use.
5. The operator must provide a trash cage for the collection and containment of all trash. The trash shall be disposed in an authorized landfill. The location and access roads

shall be kept litter free.

6. Vegetation removal necessitated by construction shall be confined to the limits of actual construction. Removed vegetation will be stockpiled for use in reclamation or removed from the construction site at the direction of the BLM.
7. Prior to surface disturbance, topsoil is to be separately removed and segregated from other material. Topsoil depth will be decided onsite by BLM. If the topsoil is less than 6 inches, a 6-inch layer that includes the A horizon and the unconsolidated material immediately below the A horizon shall be removed and the mixture segregated and redistributed as the surface soil layer.

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

ROAD and PIPELINE CONSTRUCTION

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

PAD CONSTRUCTION

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

REHABILITATION PROCEDURES

Site Preparation

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

Seedbed Preparation

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

Fertilization

19. Commercial fertilizer with a formula of 16-16-8 is to be applied at a rate of 200 pounds per acre to the site. The rate may be adjusted depending on soil.
20. Fertilizer is to be applied not more than 48 hours before seeding, and shall be cultivated into the upper 3 inches of soil.

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

Mulching

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

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

Reseeding

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

General

1. Prior to the use of insecticides, herbicides, fungicides, rodenticides and other similar substances, the operator must obtain from BLM, approval of a written plan. The plan must describe the type and quantity of material to be used, the pest to be controlled, the method of application, the location for storage and disposal of containers, and other information that BLM may require. A pesticide may be used only in accordance with its registered uses and within other agency limitations. Pesticides must not be permanently stored on public lands.
2. To prevent the potential contamination of groundwater resources by seepage of produced water, reserve pits will be lined according to the procedures outlined in Chapter 2 of the Final Environmental Impact Statement for the Castlegate Coalbed Methane Project (EIS).
3. Cattle guards will be routinely maintained for the full life of the project. In addition, where access is located on privately owned surface estate, a metal gate will be installed across the cattle guard as required by the affected surface owner(s) to restrict access to private lands during the life of the project.
4. Access roads will be periodically bladed to smooth ruts and watered to reduce dust emissions. Evergreen will provide adequate turnouts to avoid traffic problems and to ensure roadway deterioration does not have offsite impacts resulting from erosion, sedimentation, and fugitive dust.
5. Evergreen will request the Department of Highway Safety to determine adequate signage identifying truck traffic on U.S. Highway 191, both north and south of the project area, and will ensure the installation of the determined signs.
6. Evergreen will *discuss* emergency plans with county law enforcement, fire protection, and emergency care providers. Plans will then be made clear to all Evergreen employees and subcontractors. Such information dissemination will minimize confusion in the case of an emergency.
7. Ground disturbance activities, cuts and fills, and removal of vegetation will be strictly confined to areas designated in the BLM approved APDs. Minimizing disturbance will reduce contrasts between exposed soils and naturally vegetated areas.
8. To the extent possible, all juniper trees will be left standing and protected from disturbance. The few trees in the area offer better screening than the sagebrush and will be protected.
9. Reclamation plans approved by BLM; the Utah Division of Oil, Gas, and Mining; and private landowners will be precisely followed and monitored by BLM for at least two growing seasons.
10. Lights used during nighttime drilling efforts will be shielded to reduce offsite illumination.
11. All production structures and buildings, with the exception of those identified by Federal or State law, will be painted in nonglare, earth-tone colors.

12. Landscaping of the Central Processing Facility (CPF) will be designed and developed with the objective of minimizing visual impact as perceived from U.S. Highway 191 and the Key Observation Point. Landscaping will primarily utilize native species of varying height classes and minimize the appearance of straight lines and sharp angles.
13. If project traffic levels create dust problems during the dry months of the year, as determined by the Authorizing Officer, Evergreen will water roads and active working areas to reduce dust generation.
14. Wells will be located a minimum of 660 feet from known springs and 330 feet of the centerline of perennial streams to ensure that drilling operations will not have any impact.
15. Producing wells will be maintained in a condition of good mechanical integrity to prevent casing leaks and potential contamination of groundwater resources.
16. Evergreen should also apply for an appropriation of the produced water if a beneficial use can be defined, in which case it may be feasible to use the treated water rather than discharge to surface drainages.
17. The facilities for the West CPF will be relocated outside of soil map unit 108 (Silas loam).
18. Monitoring of disturbed areas by the County Weed Control Officer for noxious weed infestations will be conducted.
19. The areas of interim reclamation will also be monitored for infestations of noxious weeds. If infestations of noxious weeds occur in these disturbed areas, eradication measures will be implemented to control populations of weedy species.
20. Well locations will be relocated within the 160-acre spacing to avoid wetlands. Disturbance of wetlands by road crossings will be coordinated by Utah Division of Water Quality as they prepare the required Stream Crossing Permit.
21. Raptor inventories will be conducted each year between May 15 and June 15 to determine the status of previously identified nests to locate any new nests in areas where surface-disturbing activities are planned. Such inventory work must be conducted by personnel qualified in raptor inventory techniques and coordinated with the Authorized Office and the Utah Division of Wildlife Resources (UDWR). Active raptor nests will be protected from disturbance by prohibiting any activity within 0.5 mile of the nest.
22. All evaporation ponds at the CPFs will be netted and fenced with mesh wire fences of sufficient height (6 feet) to prevent contact by waterfowl, other wildlife, or livestock.
23. Travel on service roads in designated elk wintering and calving, deer fawning, and sage grouse strutting areas will be restricted around dawn and dusk, whenever practical, during the respective calving, fawning, and strutting seasons.
24. Evergreen will work with the UDWR to develop a wildlife education program for employees to inform them of the potential impacts to wildlife from the project and of the mitigation measures which will be required.

25. Best Management Practices will be utilized to control sediment runoff from construction areas.
26. Riprap will be placed on stream banks at pipeline and road crossings to reduce erosion and sedimentation and to stabilize banks.
27. Stream crossings will be constructed during periods of reduced flow. Construction will be undertaken in such a manner that flow will be maintained at all stream *crossings*, and streams capacities will not be altered as a result of pipeline and road construction.
28. Removal of riparian vegetation will be avoided or riparian vegetation replaced.
29. Water discharge from the CPFs will be in full compliance with the State of Utah, Department of Environmental Quality, Utah Pollutant Discharge Elimination System, as delegated by the Environmental Protection Agency under the authority of the Clean Water Act of 1972.
30. Control of non-native, invasive species (noxious weeds) will be in accordance with the Federal Noxious Weed Act, the Utah State Noxious Weed Act (R68-9), and County Noxious Weed Control Plans. Control of non-native, invasive species will be completed on all disturbed sites associated with the development and final reclamation of well pads and pipelines. The use of herbicides will be approved through a pesticide use proposal (PUP) submitted to the BLM prior to herbicide application.

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

Table 1

Sagebrush/Grass Association		
Common Plant Name	Scientific Name	Pounds per acre (PLS)
Bluebunch wheatgrass	<i>Pseudoroegneria spicata</i>	3.0
Russian wild rye	<i>Psathyrostachys juncea</i>	2.0
Smooth brome	<i>Bromus inermis</i>	2.0
Alfalfa	<i>Medicago sativa</i>	2.0
Sainfoin	<i>Onobrychis viciifolia</i>	2.0
Bitterbrush	<i>Purshia</i>	1.0
Mountain sagebrush	<i>Artemisia tridentata</i> <i>ssp. vaseyana</i>	0.25
TOTAL		12.25

The following stipulations are derived from the Castlegate CBM EIS, USDI FES No. 92-23. While not all stipulations are applicable to all Federal actions within the EIS area, stipulations which have a check mark in the box are applicable to the federal permit (i.e. APD, ROW etc) referenced below. Included as attachment 1 are the actual stipulations from the Record of Decision for USDI FES No. 92-23, as well as applicable definitions.

Proponent: HUBER

Federal Permit Reference: FED 6-8

Prepared by: DAVID MILLS

Date Prepared: 7/16/02

] **Big Game Winter Restriction (December 1 through April 15)**

The Federal action or some portion of the Federal action, associated with this permit lies within big game high priority or critical big game winter range. Construction activities are prohibited between December 1 through April 15 in order to avoid impacts (disturbance or alter habitat use patterns) to wintering big game. A definition of construction activity is included in appendix 1.

] **Big Game Fawning/Calving Range Restriction (May 15 through July 5)**

The Federal action or some portion of the Federal action, associated with this permit lies within big game fawning/calving range. Construction activities are prohibited between May 15 through July 5 in order to avoid impacts (disturbance or alter habitat use patterns) to fawning and or calving big game. A definition of construction activity is included in appendix 1.

] **Sage Grouse Nesting Habitat Restriction (April 1 and June 15)**

The Federal action or some portion of the Federal action, associated with this permit lies within the perimeter of a buffer zone of 2 miles from known sage grouse leks, also considered nesting habitat. Construction activities are prohibited between April 1 and June 15 in order to avoid impacts (disturbance or alter habitat use patterns) to sage grouse during the nesting season. A definition of construction activity is included in appendix 1.

] **Sage Grouse Surface Occupancy Restriction on Known Leks**

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known sage grouse lek. Surface Occupancy is prohibited within the perimeter of this known lek.

] **Raptor Survey Requirement**

The Federal action or some portion of the Federal action, associated with this permit lies within habitat known to be used or is considered to be potential habitat for nesting raptors. The proponent or permit holder is required to conduct raptor surveys to determine the status of known nests and verify presence of additional nests in the affected area of this Federal action.

Surveys are to be conducted by consultants qualified to conduct such surveys and approved by the authorized officer. All surveys would be conducted by helicopter during May of each year unless otherwise provided for in BLM's Raptor Survey Protocol. The surveys are to be completed in the same year as the proposed drilling/construction so that current nest activity status data is available prior to APD/Federal Permit approval. Cost for surveys and preparation of a report of the findings of the survey would be the obligation of the lease holder.

] **Raptor Nest Site Buffer Zone Surface Occupancy Restriction**

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known raptor nest site buffer zone. Long term surface occupancy (i.e. wells, above ground facilities etc.) is prohibited within the perimeter of any known raptor nest site buffer zone (.5 mile radius around a nest site) in which the nest has been classified as occupied within the last three years, definition in appendix 1.

This provision will apply as long as the nest status remains documented as occupied. If the nest is documented as unoccupied for a period of three or more consecutive years, it will be deemed to have been abandoned and the federal action will no longer be subject to the no surface occupancy provision.

In the event a federal action involving a permanent facility, as described above, is proposed within the .5 mile bufferzone, BLM can complete a site specific evaluation. The evaluation will consider site terrain features such as topographic and vegetative screening, and existing intrusions which may already exist in the bufferzone. Site specific standard guidelines used in this analysis are available in the Price Field Office. If the site specific evaluation determines that the federal action can be accomodated with no significant adverse affect to the current or future productivity of the nest, the no surface occupancy provision can be waved.

Raptor Nest Site Seasonal Restriction/Temporary Occupancy (February 1 through July 15)

The Federal action or some portion of the Federal action, associated with this permit lies in the proximity of a known raptor nest site buffer zone. Any temporary surface disturbance and occupancy (i.e. road and pipeline line construction, etc.) associated with this federal permit, occurring within .5 miles of a raptor nest documented as occupied in one or more of the three years preceding the proposed date of construction must be conducted outside the nesting period of February 1 to July 15. This will include but not be limited to road construction or upgrading required to reach this well location. If such work is required to access this location with heavy equipment, the seasonal closure of February 1 to July 15 will also apply to the drilling of this well.

Road Density and Location Restriction

The Federal action or some portion of the Federal action, associated with this permit involves new road construction. Construction of new roads should be minimized wherever possible. New roads would be located away from ridge tops to maximize screening wherever possible, unless engineering limitation or landowner requirements prohibit a chosen location.

Perennial Stream and Springs Protection

The Federal action or some portion of the Federal action, associated with this permit lies in close proximity to a perennial stream or spring. Wells will be located a minimum of 660 feet from known springs and 330 feet of the centerline of perennial streams to ensure that drilling operation will not have any impact.

Wetland Surface Occupancy Restriction

Well locations will be relocated within the 160 acre spacing to avoid surface disturbance in wetlands. Disturbance of wetlands by road crossings will be coordinated by the Utah Division of Water Quality as they prepare the required stream crossing permit.

Fish and Wildlife Enhancement/Mitigation Program

(NA, REINTRY Well, Already Complied With)

Contribute \$750.00 into the Fish and Wildlife Enhancement/Mitigation program, as per Cooperative Agreement between BLM, Huber and Utah Division of Wildlife Resources, for each well drilled in the Castlegate Coalbed Methane project area.

Special Circumstance Wildlife Stipulation (Write In)

Big Game Winter and Fawning/Calving Habitat (USDI FES No. 92-93, Record of Decision): Construction activities will be prohibited in critical elk winter range between December 1 and April 15, high value mule deer winter range between December 1 and April 15, and any range identified as a mule deer fawning or elk calving habitat between May 15 and July 5. This does not include maintenance and operation of existing wells.

Sage Grouse (USDI FES No. 92-93): Construction activities will be restricted within 2 miles of all known sage grouse leks between April 1 and June 15. No surface occupancy will be permitted on known leks.

Raptor Nest Site Protection (USDI FES No. 92-93): Raptor inventories will be conducted each year between May 15 and June 15 to determine the status of previously identified nests to locate any new nests in areas where surface-disturbing activities are planned. Such inventory work must be conducted by personnel qualified in raptor inventory techniques and coordinated with the Authorized Officer and the Utah Division of Wildlife Resources (UDWR). Active raptor nest will be protected from disturbance by prohibiting any activity within 0.5 miles of the nest

Wildlife Displacement/Offsite Mitigation (USDI FES No. 92-93): PG&ER will mitigate unavoidable impacts of maintenance and operation of existing wells and facilities and impact of wildlife displacement resulting from human presence by participating in a Fish and Wildlife Habitat Enhancement Program. PG&ER will join into a Cooperative Agreement with BLM and UDWR outlining the specific enhancement parameters and projects to be utilized.

Road Density and Location Restriction (USDI FES No. 92-93): Construction of new roads should be minimized wherever possible. New roads would be located away from ridge tops to maximize screening wherever possible, unless engineering limitation or landowner requirements prohibit a chosen location.

Perennial Stream and Springs Protection (USDI FES No. 92-93): Wells will be located a minimum of 660 feet from know spring and 330 feet of the centerline of perennial streams to ensure that drilling operation will not have any impact.

Wetland Surface Occupancy Restriction.(USDI FES No. 92-93): Well locations will be relocated within the 160 acre spacing to avoid wetlands. Disturbance of wetlands by road crossings will be coordinated by the Utah Division of Water Quality as they prepare the required stream crossing permit.

Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:

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

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

Occupied Raptor Nest Site Definition: An occupied raptor nest is defined, for the purposes of this stipulation, as any nest site exhibiting physical evidence of current use by raptors. Evidence may include but is not limited to: presence of raptors (adults, eggs or young) at the nest or within the nesting territory, presence of greenery in the nest, and/or presence of current year's whitewash at the nest or in the immediate vicinity of the nest.

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No.7.

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

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

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

TABLE 1 -- NOTIFICATIONS

Notify Don Stephens of the BLM Price Field Office at (office: 435-636-3608, home: 435-637-7967) for the following actions:

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

-1 day prior to re-entry;

If Don Stephens is unavailable, or in emergency situations, notify Eric Jones at the number below. Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling:

Eric Jones, Petroleum Engineer, BLM Moab Field Office
Office: 435-259-2117
Home: 435-259-2214

Evergreen Operating Corporation
 Huber-Federal 6-8
 2400' FNL & 1769' FWL
 Sec. 8, T. 12 S., R. 10 E.
 Carbon County, Utah

Drilling Program

<u>1. Formation Name</u>	<u>Depth* from GL</u>	<u>Depth from KB</u>	<u>Elevation</u>
Flagstaff Ls	0'	12'	+7,378'
North Horn Fm	350'	362'	+7,028'
Price River Ss	3,232'	3,244'	+4,146'
Castle Gate Ss	3,686'	3,698'	+3,692'
↕ Blackhawk Coal	4,020'	4,032'	+3,358'
↕ Kenilworth Coal	4,700'	4,712'	+2,678'
↕ Aberdeen Ss	4,958'	4,970'	+2,420'
Spring Canyon Ss	5,112'	5,124'	+2,266'
Mancos Shale	5,275'	5,287'	+2,103'
Total Depth	6,030'	6,042'	+1,348'

*All depths based on a graded ground level of 7,378'.

2. NOTABLE ZONES

Blackhawk, Kenilworth, and Castlegate are the goals. No other oil or gas zones are expected. Flagstaff, North Horn, and coal zones are anticipated water zones.

3. PRESSURE CONTROL

A minimum ≈10" x 2,000 psi double ram BOP with 2,000 psi choke manifold will be used from bottom of surface casing to TD. (A typical 2,000 psi BOP is on Page 5. Actual model will not be known until the bid is let.) BOP system will be tested to 1,500 psi. System will be tested at least once every 30 days. Tests will be recorded in the driller's log. BOPs will be inspected and operated daily to assure good mechanical working order.

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Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 2

4. CASING & CEMENTING

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight- Type</u>	<u>Age</u>	<u>Set Depth</u>
12-1/4"	8-5/8"	23# WC50	Existing	443'
8-3/4"	5-1/2"	17# WC70	Existing	6,030'

Surface casing was cemented to surface with 350 sacks Premium and additives. Long string was cemented to 1,100' with DV tool set at 3,977'. Anadarko used 700 sacks 50/50 Poz with additives and 450 sacks Silica Lite with additives.

5. MUD PROGRAM

N/A

6. DATA GATHERING

May run Gamma Ray log from surface to TD, Dual Induction and BHC Density/Neutron logs from BSC to TD, and Coal and High Res. Density logs from \approx 3,500' to TD.

7. DOWN HOLE CONDITIONS

Maximum anticipated bottom hole pressure is <2,000 psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected.

8. MISCELLANEOUS

Recompletion steps are:

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Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 3

- Cut off P&A marker, dig cellar, and weld on well head
- MI & RU daylight work over rig, pump, 120 bbl rig tank, 1.5 ton power swivel with power unit, BOP, and 4 bottle accumulator
- NU BOPs
- PU & TIH with 4-3/4" bit, bit sub, and 2-7/8" drill pipe and tubing
- RU power swivel and drill out cement plugs
- Pressure test well head and long string to 1,500 psi
- Drill CIBP @ 4450'
- TOOH
- Perforate coal zones (especially Blackhawk and Kenilworth) with well SI and full lubricator using Halliburton 4" HSC guns @ 4 shots per foot and 90 phasing (19.0 gms, 0.45" EH, and penetration - 23.0")
- PU 5-1/2" retrievable bridge plug and 5-1/2" packer. TIH on 2-7/8" tubing to selectively acidize perforated zones
- Acidize with 15% HCl containing one gallon per thousand gallons HAI-81M (corrosion inhibitor) and two gallons per thousand gallons SSO-21M (surfactant). monitor backside for communication, breakdown pressure, injection rate, and ISIP for each setting depth.
- Spot acid at end of tubing. Set packer and displace acid into perforations at 2 barrels per minute until all stage acid is in the formation. Shut down for 15 minutes and let acid soak. Displace acid @ 4 barrels per minute and attempt to break down perforations using 20 barrel fresh water per stage. Repeat for each setting.
- Prepare to swab well with packer and bridge plug. Release packer and RBP. TIH and set RBP below bottom perforations. STOOH and set packer above top perforations.
- RU to swab. Swab well to rig tank. Record casing pressure and recovered water volumes each hour. Attempt to kick off well flowing to rig tank.
- Swab and/or flow 50% of the load water
- Release packer, TIH, and release bridge plug
- TOOH with RBP and packer
- Determine if well is flowing or needs pump. If latter, unit with 3-1/4" tubing pump and gas anchor will initially be installed.

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Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 4

- RU well to start production
- ND BOPs and NU well head
- RD and MO work over rig
- Release well to production
- Collect gas and water samples for analysis

Projected spud date is upon approval. It will take \approx 2 weeks to reenter and recomplete the well.

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Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 6

Surface Use Plan

1. EXISTING ROADS & DIRECTIONS (See PAGES 11 & 12)

From the junction of US 6 and US 191 north of Helper, Utah ...
Go NE 7-1/2 miles on US 191 to the paved Matt's Summit Road
Then turn left on the Matt's Summit Road and go W 2.7 miles
Then turn left at a locked steel gate and cattle guard
Go S 0.1 mi. on a rocky road to the well site
Then turn left and drive E directly onto the pad

2. ROAD TO BE BUILT OR UPGRADED

The last 0.1 mile of road will be repaired. It will be crowned and ditched with a 16' wide travel surface. A minimum 18" x 50' CMP culvert will be installed on the pad's west side. Maximum disturbed width will not exceed 50'. Maximum grade is 8%. Maximum cut or fill will be 2'. It will surfaced after the well is in production.

3. EXISTING WELLS (See PAGE 12)

There are three gas wells within a mile radius. There are no existing oil, water, injection, or disposal wells within a mile.

4. PROPOSED PRODUCTION FACILITIES

A dehydrator-separator, meter run, and pump may be installed on the pad. All surface equipment will be painted a flat olive green color. Low profile muffled equipment will be used where possible.

Evergreen Operating Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 7

Two buried pipelines (≈ 4 " O. D. HDPE water line and a ≈ 8 " O. D. HDPE gas line) will be laid from the northeast corner of the pad east along the south side of the county road for $\approx 7,790.42'$ to Evergreen's existing Huber-Federal 7-9 well. A temporary 80' long fence will be erected 20' south of the centerline between PI 15 and PI 16 to protect an archaeology site.

5. WATER SUPPLY

Water will be trucked from existing water well (right #91-4983) at Evergreen's central production facility in Section 11 or from town for the first 1,500' of well bore. Produced water from Evergreen's wells will be used below 1,500'.

6. CONSTRUCTION MATERIALS & METHODS

A diversion ditch will be cut south of the pad. Topsoil and brush will be stripped and stockpiled between the pad and ditch. A $\approx 325'$ long silt fence will be placed north of the pad. There will be no reserve pit.

Gravel will be bought from town if needed.

7. WASTE DISPOSAL

All trash will be placed in a trash cage. When full, it will be hauled to a state approved landfill. There will be no trash burning or disposal of trash in the reserve pit. Chemical toilets will be used for human waste. Their contents will be disposed of in state approved facilities.

Produced water will be piped to Evergreen's approved existing lined evaporation pond in Section 3 or its disposal wells.

Evergreen Operating Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 8

8. ANCILLARY FACILITIES

There will be no airstrip or formal camp. Camper trailers will be on site for the company man, roughnecks, mud logger, tool pusher, etc.

9. WELL SITE LAYOUT

See PAGES 13 and 14 for depictions of the well pad, cross sections, cut and fill diagrams, burn pit, access road onto the pad, parking, living facilities, and rig orientation.

10. RECLAMATION

After completing drilling, the well site and immediate area will be cleared of all debris and material not needed for production.

All areas not needed for production will be back filled, contoured to match natural contours, and reserved topsoil and brush evenly spread. If the well is a producer, then enough topsoil will be kept aside to reclaim the rest of the pad. Disturbed areas will be ripped, harrowed, or scarified before seeding.

All reclaimed areas will be broadcast seeded in late fall or winter with seed mix specified by the surface owners for their 3,236.44' of pipeline. Private owner's seed mix will include alfalfa, crested wheatgrass, Indian ricegrass, canby bluegrass, pubescent wheatgrass, Russian wild rye, slender wheatgrass, western wheatgrass, and yellow sweet clover. BLM will determine seed mix for pad, road, and 4,553.98' of pipeline on BLM land. Seeded areas will be left rough and lightly harrowed or drug with a chain after seeding.

Evergreen Operating Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

11. SURFACE OWNER

The pipeline route crosses 3,236.44' of private land owned by the Jensen family for which there is a signed agreement. Contact is Jerry Jensen @ (435) 637-6242. Remaining construction is on BLM land and on lease.

12. OTHER INFORMATION

Closest hospital is a 20 minute drive south in Price. The Castleview Hospital is at 300 North Hospital Drive. Phone number is (435) 637-4800.

Archaeology report #2000-22m filed by LaPlata Archaeological Consultants on November 16, 2000.

13. REPRESENTATION

Anyone having questions concerning the APD should contact:

Brian Wood
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87505
(505) 466-8120 FAX: (505) 466-9682 Mobile: (505) 699-2276

The field representative during drilling and production will be:

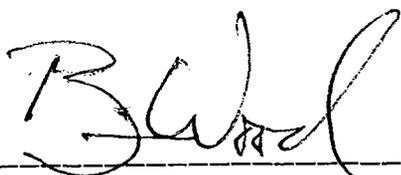
Larry Sessions, Area Foreman
Evergreen Operating Corporation
212 East 100 North
Price, Ut. 84501
(435) 613-9490 FAX: (435) 613-9489 Mobile: (435) 820-6359

Evergreen Operating Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah

PAGE 10

I hereby certify Evergreen Operating Corporation has the necessary consents from the proper lease and unit interest owners to conduct lease and unit operations in conjunction with this APD. Bond coverage *per* 43 CFR 3104 for lease activities is being provided by Evergreen Operating Corporation.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Evergreen Operating Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U. S. C. 1001 for the filing of a false statement.



Brian Wood, Consultant

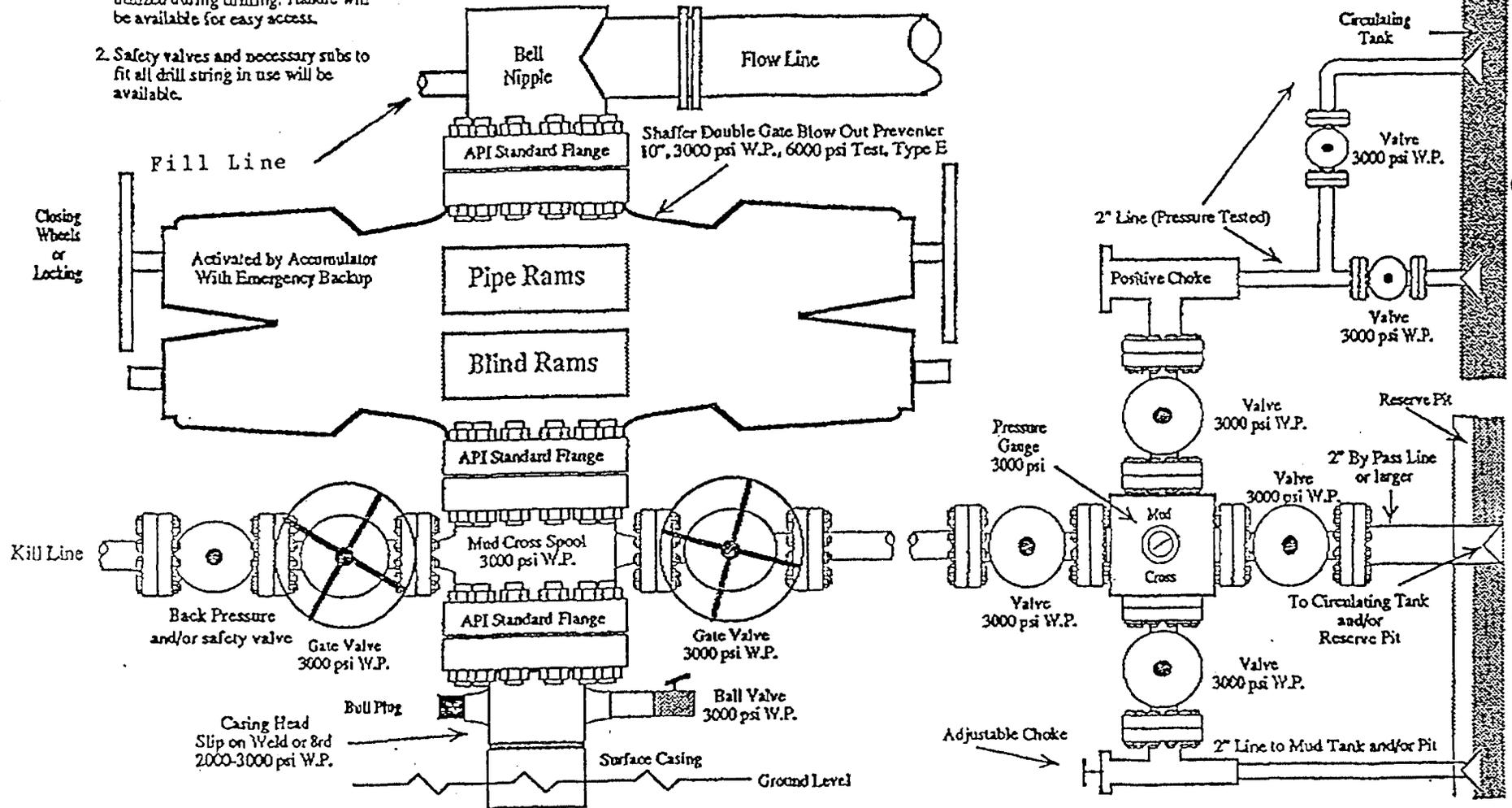
February 15, 2003

Pressure Control Equipment

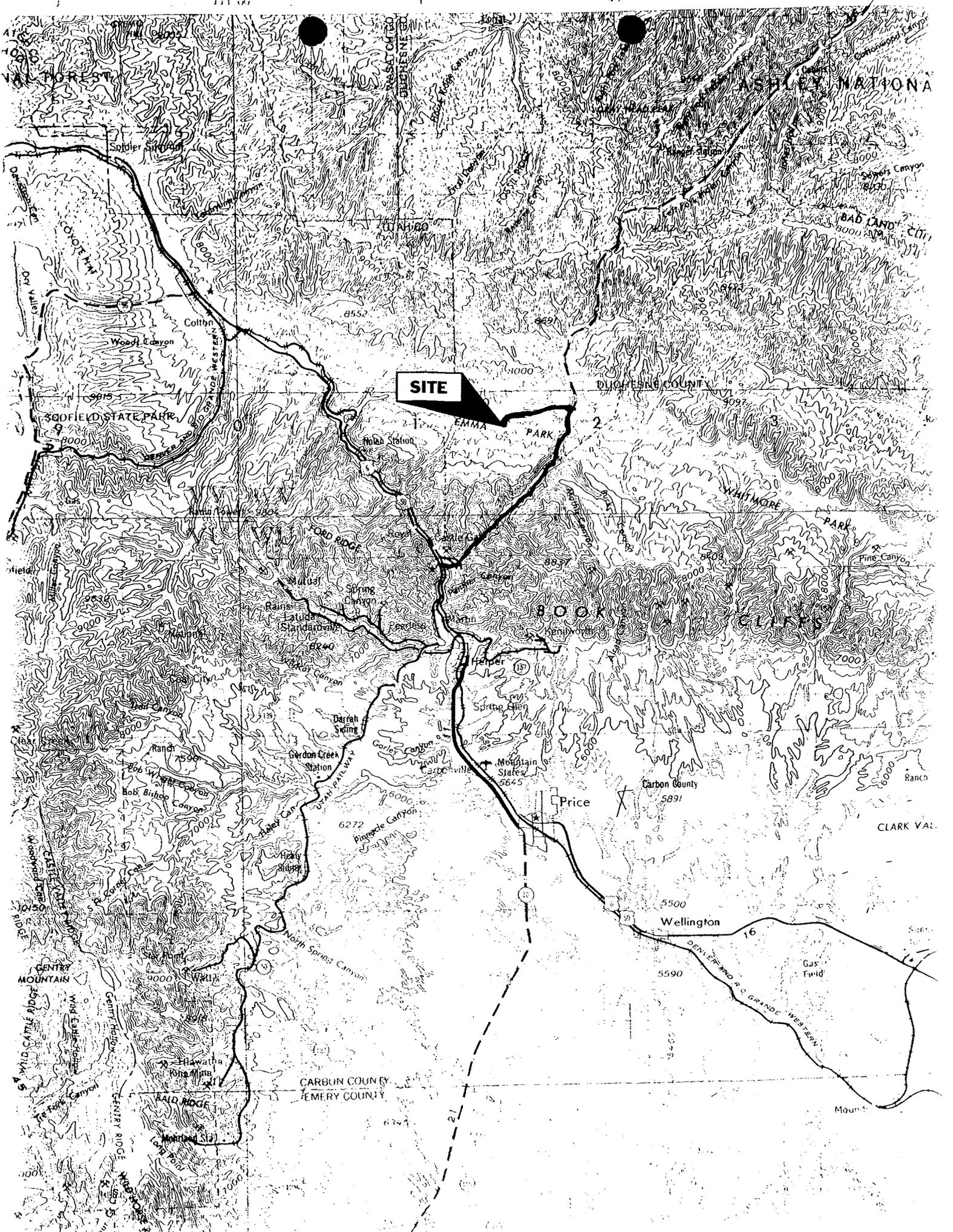
Minimum 2" Choke Line.
Minimum 2" Kill Line.
At Least One 2" Minimum Kill Line Valve.

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.



SITE

EMMA PARK

UINTAH COUNTY

CARBON COUNTY

CARBON COUNTY
EMERY COUNTY

Price

Wellington

16

Gas Field

Mountain

DENVER AND GRAND WESTERN

5500
5590

Carbon County
5891

18

Mountain States
5645

Spring City

15

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BAD LANDS

Snowy Canyon

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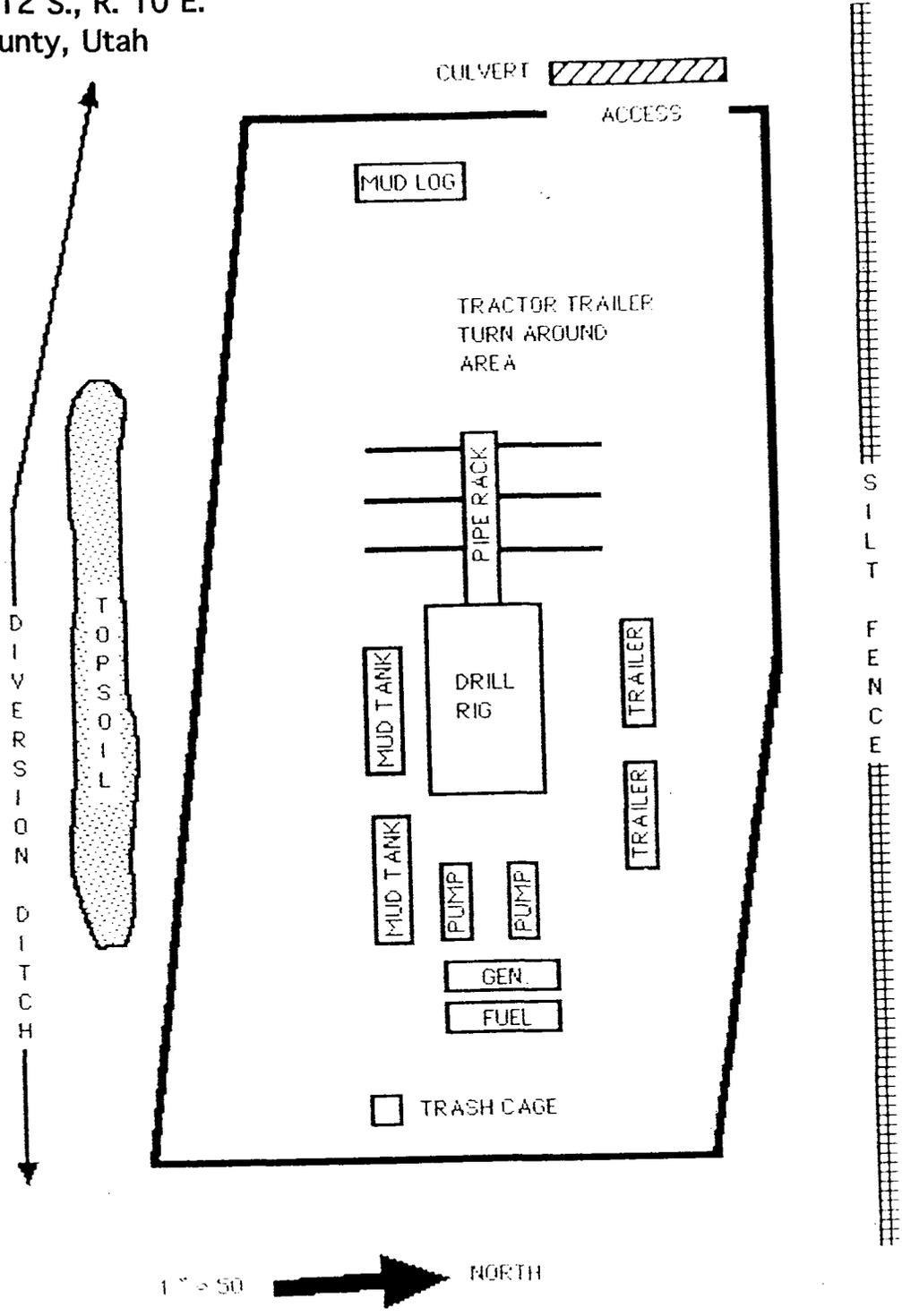
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Evergreen Operating Corporation
Huber-Federal 6-8
2400' FNL & 1769' FWL
Sec. 8, T. 12 S., R. 10 E.
Carbon County, Utah



OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

045

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

X Merger

The operator of the well(s) listed below has changed, effective: 9/28/2004	
FROM: (Old Operator): N2545-Evergreen Operating Corp. 1401 17th St, Suite 1200 Denver, CO 80202 Phone: 1-(303) 298-8100	TO: (New Operator): N5155-Pioneer Natural Resources USA, Inc. 5205 N O'Connor Blvd Irving, TX 75039 Phone: 1-(972) 444-9001

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
HUBER-STATE 1-27	27	110S	100E	4301332317		State	GW	NEW
JENSEN 24-4	04	120S	100E	4300730977		Fee	GW	NEW
HUBER-JENSEN 2-5	05	120S	100E	4300730810		Fee	GW	NEW
JENSEN 34-5	05	120S	100E	4300730978		Fee	GW	NEW
HUBER-JENSEN 4-8	08	120S	100E	4300730860		Fee	GW	NEW
JENSEN 41-9	09	120S	100E	4300730980		Fee	GW	NEW
JENSEN 34-10	10	120S	100E	4300730981		Fee	GW	NEW
H-M FED 2-14	14	120S	100E	4300730787		Federal	GW	NEW
HUBER-FRANSEN/FED 4-15	15	120S	100E	4300730947		Federal	GW	NEW
HUBER-ST 2-16	16	120S	100E	4300730783		State	GW	APD
HUBER-ST 3-16	16	120S	100E	4300730784		State	GW	APD
HUBER-J/F 2-17	17	120S	100E	4300730764		Federal	GW	NEW
HUBER-JENSEN 1-17	17	120S	100E	4300730769		Fee	GW	NEW
HUBER-JENSEN 4-17	17	120S	100E	4300730858		Fee	GW	NEW
HUBER-JENSEN 2-18	18	120S	100E	4300730859		Fee	GW	NEW
PINE SPRINGS FED 4-22-14-22	22	140S	220E	4304735556		Federal	GW	APD
HUBER-FED 6-8	08	120S	100E	4300730140	11272	Federal	GW	PA
SHIMMIN TRUST 14-12	12	120S	100E	4300730169	11432	Fee	GW	PA
HUBER-FRANSEN 4-15	15	120S	100E	4300730138	11401	Federal	GW	PA
STATE 11-2-15-22	02	150S	220E	4304730746	8074	State	GW	PA

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: 10/21/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/21/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 10/21/2004
- Is the new operator registered in the State of Utah: YES Business Number: 5738462-0143
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on:
- Inspections of LA PA state/fee well sites complete on: ***

20

7. **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: not yet

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: _____

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: _____

10. **Underground Injection Control ("UIC")** The 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: N/A

DATA ENTRY:

- 1. Changes entered in the **Oil and Gas Database** on: 10/28/2004
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 10/28/2004
- 3. Bond information entered in RBDMS on: 10/28/2004
- 4. Fee/State wells attached to bond in RBDMS on: 10/28/2004
- 5. Injection Projects to new operator in RBDMS on: 10/28/2004
- 6. Receipt of Acceptance of Drilling Procedures for APD/New on: ***

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 104091293

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE & STATE WELL(S) BOND VERIFICATION:

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 104319462
- 2. The **FORMER** operator has requested a release of liability from their bond on: 10/21/2004
The Division sent response by letter on: 10/28/2004

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** 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: 11/1/2004

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 checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Pioneer Natural Resources USA, Inc. <i>N5155</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 5205 N. O'Connor Blvd CITY Irving STATE TX ZIP 75039		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: _____ QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: UTAH		8. WELL NAME and NUMBER: See Attached List
PHONE NUMBER: (972) 444-9001		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

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"/> 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.

- Operator change due to the merger between Pioneer Natural Resources USA, Inc and Evergreen Resources Inc., effective September 28, 2004.
- See list attached for all wells currently operated under the name of Evergreen Operating (subsidiary of Evergreen Resources) as listed on the DOGM database on October 15, 2004.
- Operator will now be Pioneer Natural Resources USA, Inc. Local operation address info and contacts under separate cover.
- Surety Bond #104319462 (replaces RLB 0006706) attached
- Copy of Oil & Gas Geothermal Lease Bond - BLM #104091293 attached

Name: Dennis R. Carlton

Title: Executive Vice President, Evergreen Operating Corp. *N2545*

Signature: *DR Carlton*

Date: *10/18/04*

NAME (PLEASE PRINT) Jay Still

TITLE Vice President, Western Division, Pioneer Natural Resources USA Inc.

SIGNATURE *Jay Still*

DATE *10/19/04*

(This space for State use only)

APPROVED *10/28/04*
Earlene Russell
Division of Oil, Gas and Mining (See Instructions on Reverse Side)
Earlene Russell, Engineering Technician

RECEIVED

OCT 21 2004

DIV. OF OIL, GAS & MINING

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Twpr	Twpd	RngN	RngD	Qtr/Qtr
43-007-30122-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 5	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NWNE
43-007-30137-00-00	EVERGREEN OPERATING CORP	HUBER-FEDERAL 7-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	SWNE
43-007-30138-00-00	EVERGREEN OPERATING CORP	HUBER-FRANDSEN 4-15	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	NWNW
43-007-30140-00-00	EVERGREEN OPERATING CORP	HUBER-FED 6-8	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	SENE
43-007-30159-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 9-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESE
43-007-30162-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 5-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	SWNW
43-007-30163-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 16-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	SESE
43-007-30164-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 11-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESW
				Spudded (Drilling commenced: Not yet completed)									
43-007-30166-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 11-11	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	NESW
43-007-30169-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 14-12	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	12	12	S	10	E	SESW
43-007-30589-00-00	EVERGREEN OPERATING CORP	HUBER-STATE 1-16	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWNE
43-007-30596-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NWSW
43-007-30640-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 3-14	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	SENE
43-007-30659-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 2-11	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	SESE
43-007-30662-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 4-14	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	SENE
43-007-30669-00-00	EVERGREEN OPERATING CORP	HUBER-ST 4-11	Gas Well	Location Abandoned	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	SENE
43-007-30673-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 1-11	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	SENE
43-007-30674-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 1-12	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	12	12	S	10	E	NWSW
				Spudded (Drilling commenced: Not yet completed)									
43-007-30675-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-10	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESE
43-007-30676-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 3-10	Gas Well	Location Abandoned	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	SENE
43-007-30717-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NWSW
				Spudded (Drilling commenced: Not yet completed)									
43-007-30718-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-18	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	18	12	S	10	E	NESE
43-007-30733-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-4	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	4	12	S	10	E	SWSE
43-007-30734-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-8	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NENE
43-007-30735-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NENW
43-007-30736-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-15	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	SWNE
43-007-30764-00-00	EVERGREEN OPERATING CORP	HUBER-J/F 2-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NENW
43-007-30768-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-8	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NESE
43-007-30769-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NENE
43-007-30783-00-00	EVERGREEN OPERATING CORP	HUBER-ST 2-16	Gas Well	Approved permit (APD); not yet spudded	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWSE
43-007-30784-00-00	EVERGREEN OPERATING CORP	HUBER-ST 3-16	Gas Well	Approved permit (APD); not yet spudded	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	SESW
43-007-30785-00-00	EVERGREEN OPERATING CORP	HUBER-ST 4-16	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	SENE
43-007-30787-00-00	EVERGREEN OPERATING CORP	H-M FED 2-14	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NENE
43-007-30810-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-5	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	5	12	S	10	E	NESW
43-007-30858-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 4-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NESE
43-007-30859-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-18	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	18	12	S	10	E	NENE
43-007-30860-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 4-8	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NWSW

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Twpr	Twpd	RngN	RngD	Qtr/Qtr
43-007-30947-00-00	EVERGREEN OPERATING CORP	HUBER-FRANSEN/FED 4-15	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	NWNW
43-007-30961-00-00	EVERGREEN OPERATING CORP	STATE 11-16	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWNW
43-007-30962-00-00	EVERGREEN OPERATING CORP	SHIMMIN 11-14	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NWNW
43-007-30786	EVERGREEN OPERATING CORP	Jensen 7-15 Deep	Gas Well	Active	WILDCAT	CARBON	12S-10E	15	12	S	10	E	SWNE
43-007-30977-00-00	EVERGREEN OPERATING CORP	JENSEN 24-4	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	4	12	S	10	E	SESW
43-007-30978-00-00	EVERGREEN OPERATING CORP	JENSEN 34-5	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	5	12	S	10	E	SWSE
43-007-30980-00-00	EVERGREEN OPERATING CORP	JENSEN 41-9	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NENE
43-007-30981-00-00	EVERGREEN OPERATING CORP	JENSEN 34-10	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	SWSE
43-013-32308-00-00	EVERGREEN OPERATING CORP	HUBER-ST 1-35	Water Disposal Well	Active	CASTLEGATE	DUCHESNE	11S-10E	35	11	S	10	E	SW
43-013-32317-00-00	EVERGREEN OPERATING CORP	HUBER-STATE 1-27	Gas Well	New Permit (Not yet approved or drilled)	WILDCAT	DUCHESNE	11S-10E	27	11	S	10	E	SWSE
43-047-30404-00-00	EVERGREEN OIL CORP	POISON SPRINGS U 1 USA	Oil Well	Plugged and Abandoned	WILDCAT	GARFIELD	04S-12E	24	04	S	12	E	NESE
43-017-30102-00-00	EVERGREEN OIL CORP	POISON SPRINGS U 2 USA	Oil Well	Plugged and Abandoned	WILDCAT	GARFIELD	04S-12E	4	04	S	12	E	NENE
43-019-30136-00-00	EVERGREEN OPERATING CORP	ANDERSON FED 2	Gas Well	Producing	EAST CANYON	GRAND	16S-24E	12	16	S	24	E	SWSW
43-019-30955-00-00	EVERGREEN OPERATING CORP	FEDERAL 24-1	Gas Well	Shut-In	EAST CANYON	GRAND	16S-24E	24	16	S	24	E	NWNE
43-019-31077-00-00	EVERGREEN OPERATING CORP	FEDERAL 1-34	Gas Well	Producing	BRYSON CANYON	GRAND	16S-24E	34	16	S	24	E	NESE
43-019-31078-00-00	EVERGREEN OPERATING CORP	FEDERAL 2-34	Gas Well	Producing	BRYSON CANYON	GRAND	16S-24E	34	16	S	24	E	SESW
43-047-30248-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 2	Gas Well	Shut-In	BLACK HORSE CYN	UINTAH	15S-24E	29	15	S	24	E	SESE
43-047-30284-00-00	EVERGREEN OPERATING CORP	PINE SPRING U 1	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	15	14	S	22	E	NESW
43-047-30325-00-00	EVERGREEN OPERATING CORP	RAT HOLE CYN 1	Gas Well	Shut-In	RAT HOLE CANYON	UINTAH	14S-25E	8	14	S	25	E	NWSE
43-047-30331-00-00	EVERGREEN OPERATING CORP	DRY BURN U 1	Gas Well	Shut-In	DRY BURN	UINTAH	13S-25E	29	13	S	25	E	NWSE
43-047-30332-00-00	EVERGREEN OPERATING CORP	1-L-23	Gas Well	Shut-In	SWEETWATER CYN	UINTAH	14S-24E	23	14	S	24	E	SWNE
43-047-30460-00-00	EVERGREEN OPERATING CORP	SWEETWATER CYN 1	Gas Well	Shut-In	SWEETWATER CYN	UINTAH	14S-24E	14	14	S	24	E	SWNW
43-047-30582-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 4-25-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	SWSW
43-047-30619-00-00	EVERGREEN OPERATING CORP	CROOKED CYN 13-17-14-23	Gas Well	Producing	CROOKED CANYON	UINTAH	14S-23E	17	14	S	23	E	NWNW
43-047-30622-00-00	EVERGREEN OPERATING CORP	WOLF UNIT 3-11-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	11	15	S	21	E	SESW
43-047-30639-00-00	EVERGREEN OPERATING CORP	MAIN CYN 11-10-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	10	15	S	23	E	SESW
43-047-30674-00-00	EVERGREEN OPERATING CORP	MAIN CYN 15-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	SESW
43-047-30735-00-00	EVERGREEN OPERATING CORP	MAIN CYN 2-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	NWNE
43-047-30736-00-00	EVERGREEN OPERATING CORP	MAIN CYN 7-17-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	SWSE
43-047-30746-00-00	EVERGREEN OPERATING CORP	STATE 11-2-15-22	Gas Well	Plugged and Abandoned	MAIN CANYON	UINTAH	15S-23E	17	15	S	23	E	SESE
43-047-30791-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 6-35-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-22E	2	15	S	22	E	SESW
43-047-30944-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 8-36-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	35	14	S	23	E	NESE
43-047-30975-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 1-25-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	36	14	S	23	E	NESE
43-047-30977-00-00	EVERGREEN OPERATING CORP	MAIN CYN 8-7-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	SESE
43-047-31003-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 3-26-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	7	15	S	23	E	NESE
43-047-31027-00-00	EVERGREEN OPERATING CORP	FEDERAL 6-14-15-21	Gas Well	Shut-In	MAIN CANYON	UINTAH	14S-23E	26	14	S	23	E	SESW
43-047-31040-00-00	EVERGREEN OPERATING CORP	SWEETWATER 6-13-14-24	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	14	15	S	21	E	NESW
43-047-31041-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 16-25-14-23	Gas Well	Producing	SWEETWATER CYN	UINTAH	14S-24E	13	14	S	24	E	NESW
43-047-31042-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 7-21-14-22	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	NENE
43-047-31043-00-00	EVERGREEN OPERATING CORP	MAIN CYN 4-4-15-23	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	21	14	S	22	E	NWSE
43-047-31045-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 14-15-15-24	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-23E	4	15	S	23	E	SWSW
43-047-31063-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 8-20-14-22	Gas Well	Producing	SOUTH CANYON	UINTAH	14S-22E	15	15	S	24	E	NENW
					PINE SPRINGS	UINTAH	14S-22E	20	14	S	22	E	NESE

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Twpr	Twpd	RngN	RngD	Qtr/Qtr
43-047-31071-00-00	EVERGREEN OPERATING CORP	FEDERAL 7-15-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	15	15	S	21	E	NWSE
43-047-31072-00-00	EVERGREEN OPERATING CORP	MAIN CYN 6-3-15-23	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-23E	3	15	S	23	E	NESW
43-047-31073-00-00	EVERGREEN OPERATING CORP	MAIN CYN 6-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	NESW
43-047-31074-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 13-26-14-22	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	26	14	S	22	E	NWNW
43-047-31091-00-00	EVERGREEN OPERATING CORP	FEDERAL 2-18-15-22	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-22E	18	15	S	22	E	SWSE
43-047-31096-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 9-12-14-21	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-21E	12	14	S	21	E	SENE
43-047-31104-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 12-8-15-24	Gas Well	Shut-In	SOUTH CANYON	UINTAH	15S-24E	8	15	S	24	E	SWNW
43-047-31111-00-00	EVERGREEN OPERATING CORP	MAIN CYN 16-4-15-23	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-23E	4	15	S	23	E	NENE
43-047-31134-00-00	EVERGREEN OPERATING CORP	FED ENI 7-1	Gas Well	Producing	DAVIS CANYON	UINTAH	13S-26E	7	13	S	26	E	NENE
43-047-31135-00-00	EVERGREEN OPERATING CORP	STATE 8-2-15-22	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-22E	2	15	S	22	E	NESE
43-047-31137-00-00	EVERGREEN OPERATING CORP	FEDERAL 5-13-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	13	15	S	21	E	NWSW
43-047-31348-00-00	EVERGREEN OPERATING CORP	FEDERAL 12-18-14-22	Gas Well	Shut-In	PINE SPRINGS	UINTAH	14S-22E	18	14	S	22	E	SWNW
43-047-34674-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 3-23-14S-22E	Gas Well	Location Abandoned	PINE SPRINGS	UINTAH	14S-22E	23	14	S	22	E	SENE
43-047-34675-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 3-23-14S-22E	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	23	14	S	22	E	SESW
43-047-34676-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 12-23-14S-22E	Gas Well	Temporarily-Abandoned	PINE SPRINGS	UINTAH	14S-22E	23	14	S	22	E	SWNW
43-047-34941-00-00	EVERGREEN OPERATING CORP	BONANZA FED 15-27-10-25	Gas Well	Producing	UNDESIGNATED	UINTAH	10S-25E	27	10	S	25	E	NWNE
43-047-35555-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS ST 6-36-14-22	Gas Well	Spudded (Drilling commenced; Not yet completed)	UNDESIGNATED	UINTAH	14S-22E	36	14	S	22	E	NE
43-047-35558-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 4-22-14-22	Gas Well	Approved permit (APD); not yet spudded	PINE SPRINGS	UINTAH	14S-22E	22	14	S	22	E	SWSW
43-047-35568-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 15-21-14-22	Gas Well	Approved permit (APD); not yet spudded	PINE SPRINGS	UINTAH	14S-22E	21	14	S	22	E	NWNE

046

From: Diana Whitney
To: Brian Wood
Subject: Re: Fwd: Expired APD

>>> Brian Wood <brian@permitswest.com> 04/18/05 7:28 AM >>>
What do we need to do to renew the 2 Pine springs APDs?

> From: "Holland, Dave" <HollandD@pioneernc.com>
> Date: April 12, 2005 4:05:48 PM MDT
> To: "Brian Wood" <brian@permitswest.com>
> Subject: RE: Expired APD

>
> Brian,
Thanks for the reminder.

Pioneer has no plans for the Huber Fed 6-8.

However, we have APDs pending with the Vernal BLM for both the Pine
> Springs Fed 4-22 and 15-21. These APDs were submitted to the BLM over
> a year ago. These permits have been delayed because the locations are
> within the Winter Ridge Wilderness Study Area. Pioneer has existing
> mineral rights that pre-date the WSA.
> Pioneer is still hopeful that we could drill these well this year.
I assume we will need to re-apply for the state APDs?

>
>
>
> David N. Holland
> Environmental Manager, Western Division
> Pioneer Natural Resources USA, Inc.

> -----Original Message-----
> From: Brian Wood [mailto:brian@permitswest.com]
> Sent: Tuesday, April 12, 2005 3:15 PM
> To: Holland, Dave
> Subject: Fwd: Expired APD

From: "Diana Whitney" <dianawhitney@utah.gov>
>
> Date: April 12, 2005 8:10:43 AM MDT
>
> To: <brian@permitswest.com>
>
> Subject: Expired APD
>

Hi Brian,
EXPIRED 3/3 EXPIRED 3/11
EXPIRED 3/15

The Huber-Fed 6-8, Pine Springs Fed 4-22-14-22 and the Pine Springs Fed
15-21-14-22 have expired. Will you let me know what Pioneer would like
to do with this APD.

Thanks,
Diana

**State of Utah****Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

MARY ANN WRIGHT
Acting Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

May 4, 2005

Brian Wood
Pioneer Natural Res USA Inc.
5205 N O'Connor Blvd
Irving TX 75039

Re: APD Rescinded – Huber-Fed 6-8 Sec. 8, T. 12S, R. 10E
Carbon County, Utah API No. 43-007-30140

Dear Mr. Wood:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on March 3, 2004. On April 18, 2005, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective April 18, 2005.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Whitney
Engineering Technician

cc: Well File
Bureau of Land Management, Moab