Form OGC-1a

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well
Oil Well [XX] Gas Well [ ] Other Single Zone [XX] Multiple Zone [ ]

2. Name of Operator
Coors Energy Company (303) 278-7030

3. Address of Operator
PO Box 467, Golden, Colo. 80402

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface
2551'FNL, 1900'FEL, Sec. 4, Lot 10
At proposed prod. zone
same IRREGULAR SECTION SWNE

5. Lease Designation and Serial No.
14-20-H62-3503

6. If Indian, Allottee or Tribe Name
Ute Tribe

7. Unit Agreement Name
----

8. Farm or Lease Name
Ute Tribal

9. Well No.
2-4

10. Field and Pool, or Wildcat
ANTELOPE CREEK ~~Wildcat~~

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 4, T5S-R3W

12. County or Parrish 13. State
Duchesne Utah

14. Distance in miles and direction from nearest town or post office*
5 miles south of Bridgeland

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 1900'

16. No. of acres in lease 727.08

17. No. of acres assigned to this well ----

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 1370'

19. Proposed depth 6832' GREEN RIVER

20. Rotary or cable tools
rotary

21. Elevations (Show whether DF, RT, GR, etc.)
5992'

22. Approx. date work will start*
April 1, 1984

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"	24.00#	400'	300 sks.
7-7/8"	5-1/2"	15.50#	6832'	1200 sks.

1. This well will be spudded in the Uintah formation.
2. Estimated formation tops: 1672', Green River and 6832' TD.
3. Water zones are possible thruout the Green River formation as well as gas and or oil. No aquifers or other mineral zones are anticipated.
4. Attached is a diagram of the pressure control device to be used on this well.
5. The proposed circulating medium will be 3% KCL water or a low-solids non-dispersed mud. Mud weights in excess of 10#/gal are not anticipated.
6. Auxiliary equipment: float will be run in the drill string. A full opening valve to fit the drill string will be on the rig floor at all times. Kelly cock'valves will be used.
7. No coring is planned, drill stem tests may be run in potential pay zones. Logs to be run will be: Dual Induction Laterlog & Compensated Neutron Formation Density log.
8. No abnormal temperatures, pressures or potential hazards are expected.
9. Anticipated starting date: April, 1984; duration of drilling operations: 30 days.

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 R. L. Martin Title V.P. Oil/Gas Operations Date 11-7-83

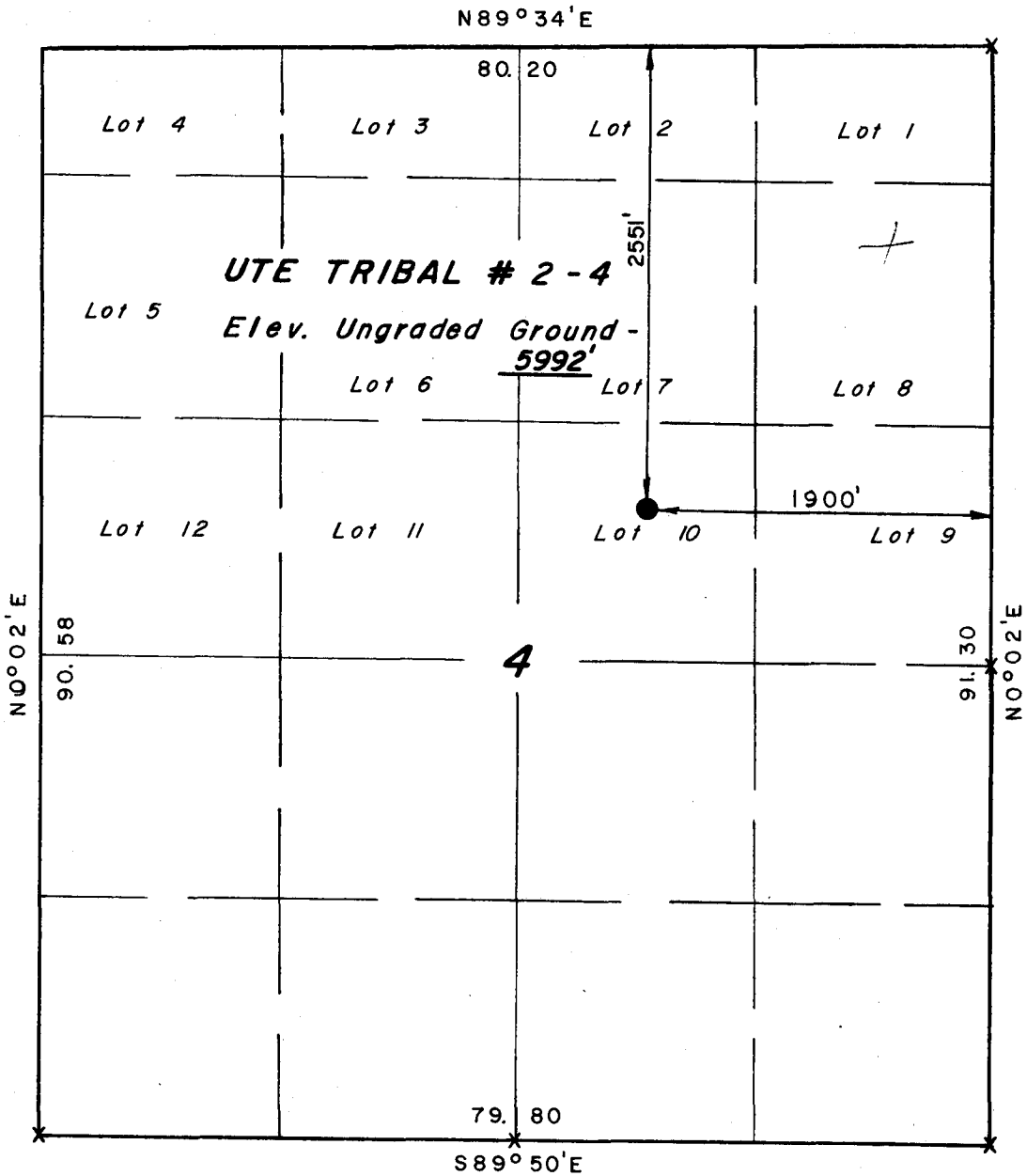
(This space for Federal or State office use)

Permit No. ..... Approval Date .....

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

*See Instructions On Reverse Side

T 5 S, R 3 W, U.S.B. & M.



X = Section Corners Located

PROJECT

COORS ENERGY CO.

Well location, *UTE TRIBAL #2-4*, located as shown in Lot 10, Section 4, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

EXHIBIT "A"

CERTIFICATE

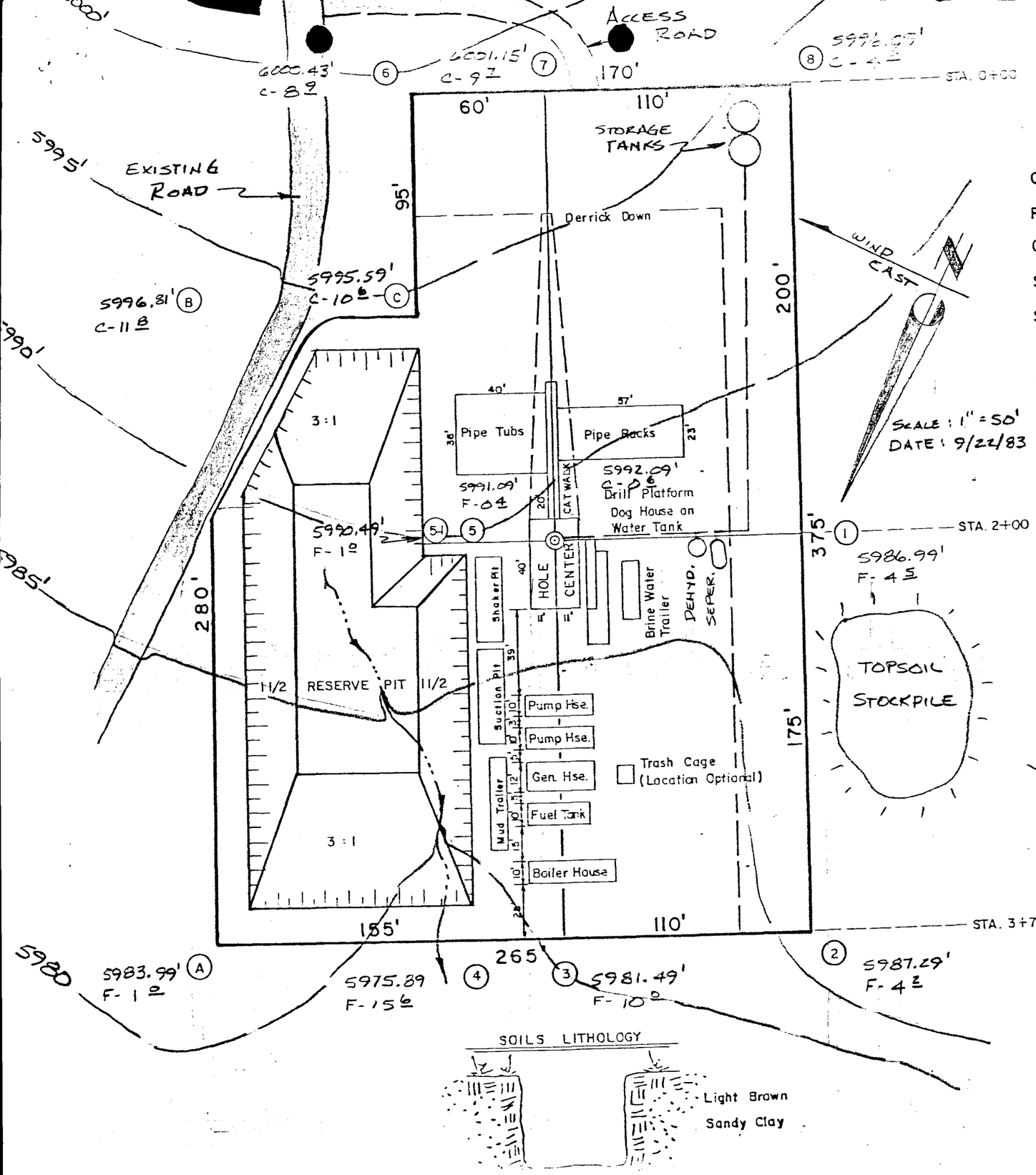
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Laurence C. Kay

REGISTERED LAND SURVEYOR
REGISTRATION № 3137
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 9/21/83
PARTY DB JF RP	REFERENCES GLO Plat
WEATHER FAIR	FILE COORS ENERGY



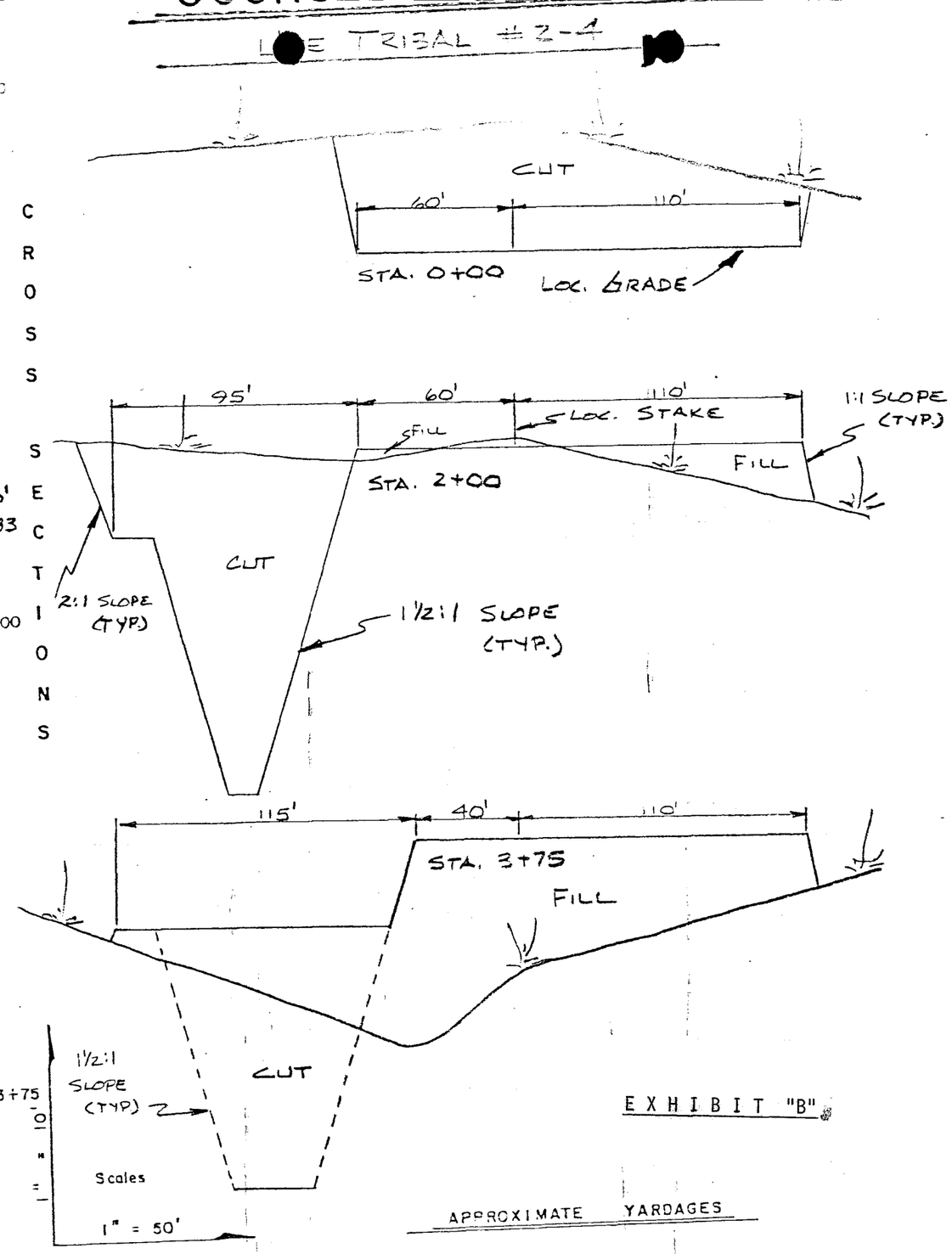


EXHIBIT "B"

APPROXIMATE YARDAGES

Cubic Yards Cut = 17,627

Cubic Yards Fill = 7,726

ENERGY CO.

PROPOSED LOCATION

MAP "A"

SCALE 1" = 4MI.

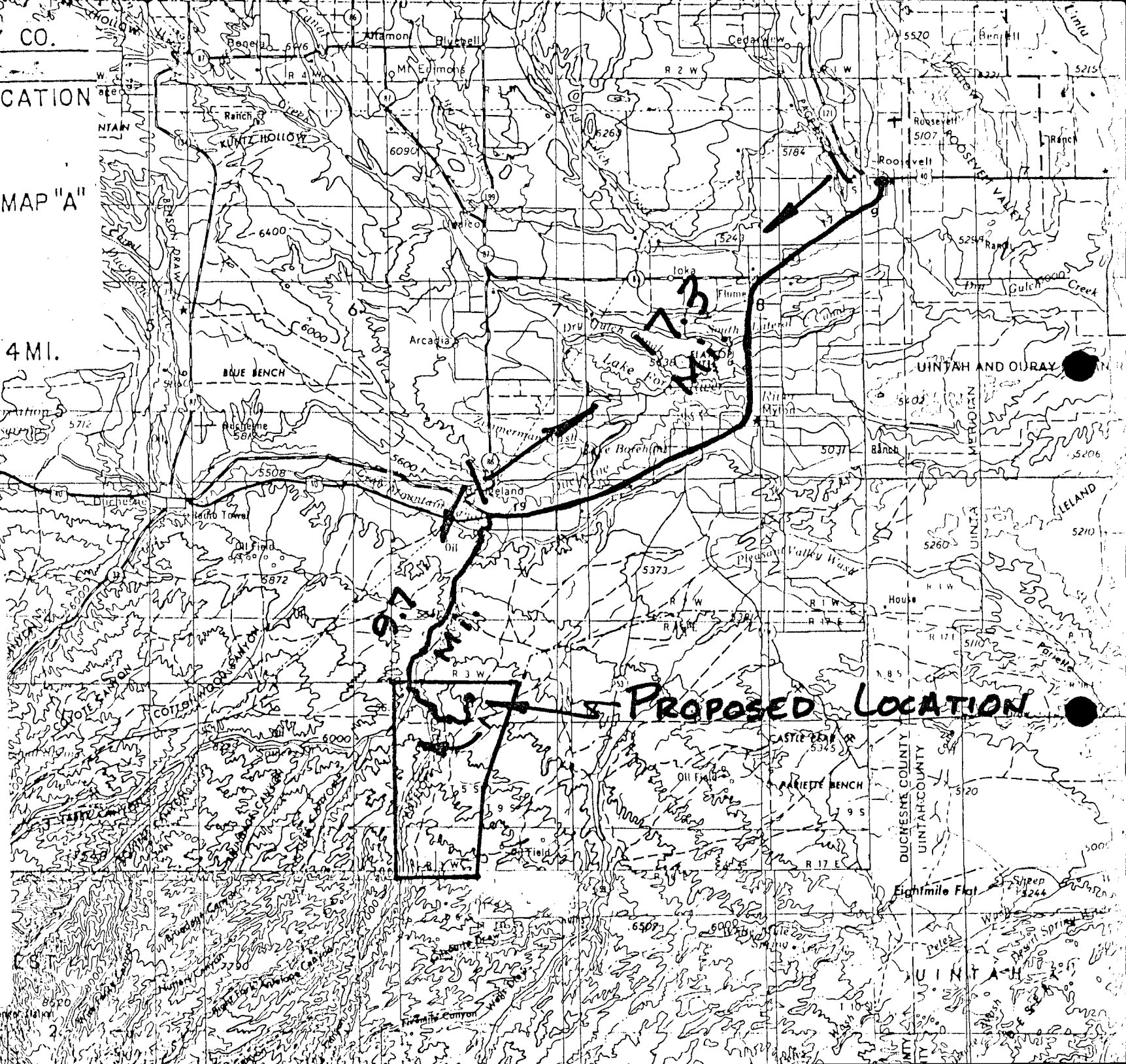
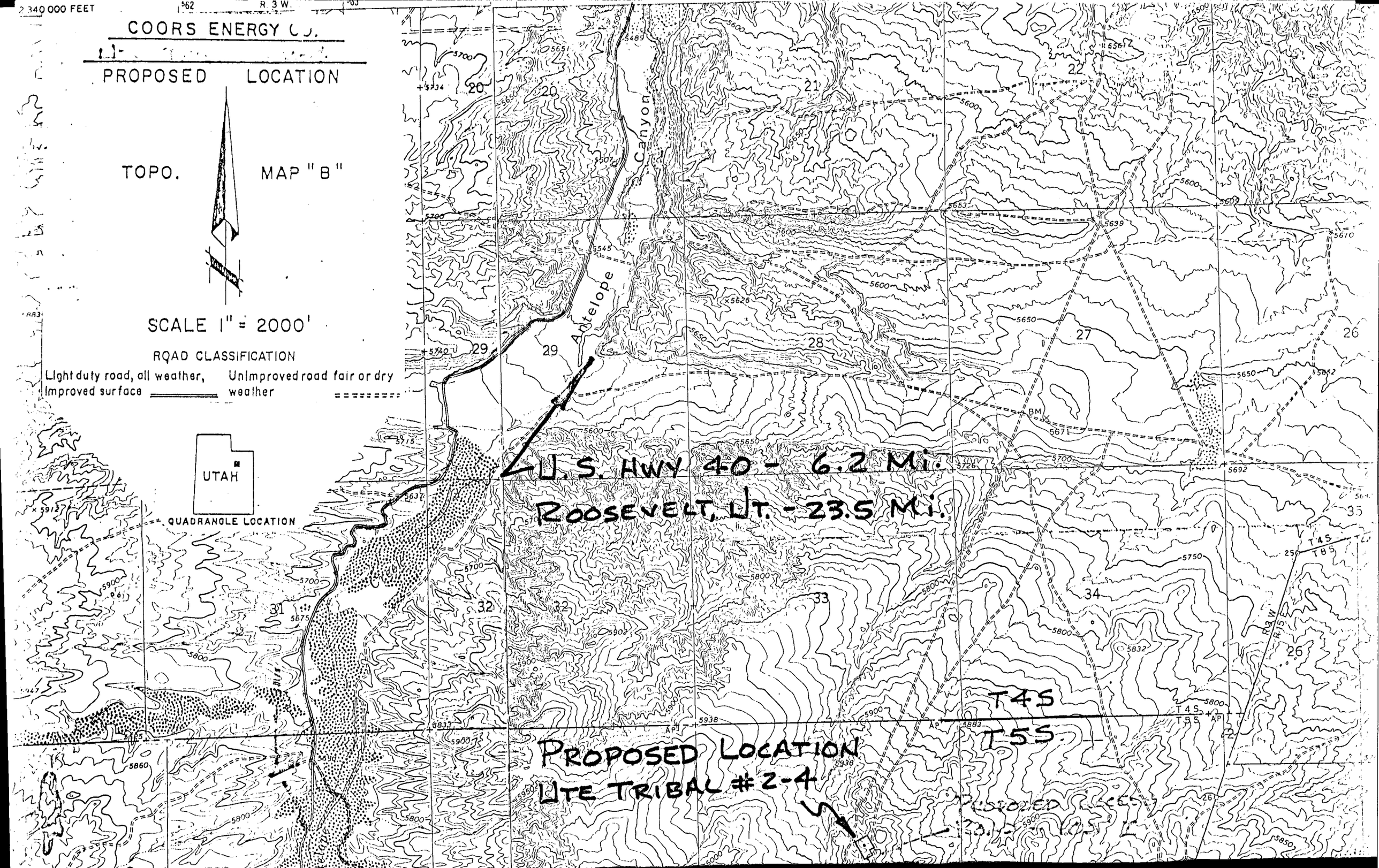


EXHIBIT "C"


2 340 000 FEET
R. 3 W.
COORS ENERGY CO.
PROPOSED LOCATION
TOPO. MAP "B"
SCALE 1" = 2000'
ROAD CLASSIFICATION
Light duty road, all weather, Improved surface
Unimproved road fair or dry weather
UTAH
QUADRANGLE LOCATION
Antelope Canyon
U.S. HWY 40 - 6.2 Mi.
ROOSEVELT, UT. - 23.5 Mi.
T4S
T5S
PROPOSED LOCATION
UTE TRIBAL #2-4
PROPOSED ACCESS ROAD

1.3 Mi.
(0.6)
1.3 Mi.
(1.0)
0.9 Mi.
0.6 Mi.
R 4 W
R 3 W
R3W
R15E
T 8 S
T 9 S
OLD INDIAN TREATY BOUNDARY
ANTELOPE
CANYON
Creek

NELSON J. MARSHALL
Phone 789-0272

GENE STEWART
Phone 789-1795

LAWRENCE C. KAY
Phone 789-1125

Uintah Engineering & Land Surveying

P.O. BOX Q
VERNAL, UTAH 84078

OFFICE LOCATION
85 SOUTH 200 EAST

PHONE 789—1017

October 4, 1983

COORS ENERGY, UTE TRIBAL #2-4

EXISTING & ACCESS ROAD DESCRIPTION

Access to Coors-Ute Tribal #2-4 begins at the City of Roosevelt, Utah, and proceed along the following roads with approximate mileages as indicated:

Proceed Westerly out of Roosevelt, Utah on U.S. Highway 40; proceed along said Highway 17.3 miles to the Junction of this Highway and an existing improved dirt road to the South (County Road); proceed South along said improved County road 6.2 miles down what is known as Antelope Canyon; to the junction of this road and an existing unimproved dirt road to the Southeast; proceed Southeasterly along this road 1.3 miles to it's junction with an existing unimproved dirt toad to the East; proceed Easterly along said road 0.6 miles to it's junciton with an existing unimproved dirt road to the South; proceed South along said road 0.7 miles to the junciton of this road and an existing dirt road to the Northeast; proceed Northeasterly along said road 0.9 miles to it's junction with an existing unimproved dirt road to the North; proceed Northerly along said road 0.6 miles to it's junction with the proposed access road to the West. This proposed access road will be an 18' crowned road (9' either side of the centerline) with a drain ditch on the uphill side of the road which will handle any run off from normal Meteorological conditions that are prevalent to the area. It is not anticipated that there will be any culverts required along this road as it crosses no drainages of any consequence. Back slopes along the cut areas of the road will be 1½ to 1 slopes and terraced. There are no fences encountered along the proposed access road. The proposed access road will be approximately 100' in length.

EXHIBIT "E"

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

November 9, 1983

Mr. Norm Stout
State of Utah
Division of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Re: Ute Tribal 2-4
Section 4, T5S-R3W
Duchesne County, Utah
[redacted]

Dear Mr. Stout:

The purpose of this letter is to request an exception to the State of Utah Rule C-3, General Well Spacing Requirements. The Ute Tribal 2-4 is located 2551'FNL and 1900'FEL of Section 4, T5S-R3W. This location is 470' from the north border of the SW/4NE/4 of Section 4. (See attached survey plat).

Rule C-3(C)(1)

The explanation as to why our well was spotted within the 500' limit is due to topographic limitations. Due to the rough canyon topography, the present location was the only feasible location of the Ute Tribal 2-4 well pad with the SW/4NE/4, (See attached map).

Rule C-3(C)(2)

Also note the ownership of all oil and gas leases within a radius of 660' of the location of the Ute Tribal 2-4 is common with the ownership of the oil and gas leases under the Ute Tribal 2-4 location. Please see attached Designation of Operator.

Since Coors Energy Company is the operator of the farmout from Gulf Oil Company of the NE/4 of Section 4, Coors has control of the NE/4 of Section 4, T5S-R3W, Duchesne County, Utah.

Please call us if you find that you have any questions regarding our applications. Thank you.

Very truly yours,

D. S. Sprague RLR

D. S. Sprague
Manager
Oil & Gas Operations

RN:kr

Enclosures

cc: D. Sprague
R. Nelms
File

(Submit in Triplicate)

SUPERVISOR, OIL AND GAS OPERATIONS:

DESIGNATION OF OPERATOR

The undersigned is, on the records of the U.S. Department of the Interior, Bureau of Indian Affairs
DISTRICT LAND OFFICE: The Ute Indian Tribe and the Ute Distribution Corporation
Lease No. 14-20-H62
Tract No. 53
and hereby designates

NAME: Coors Energy Company
ADDRESS: P.O. Box 467, Golden, Colorado 80401

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 5 South, Range 3 West, U.S.M.
Section 4: NE/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

GULF OIL CORPORATION

(Signature of lessee)
W. R. Wimbish Attorney-in-Fact

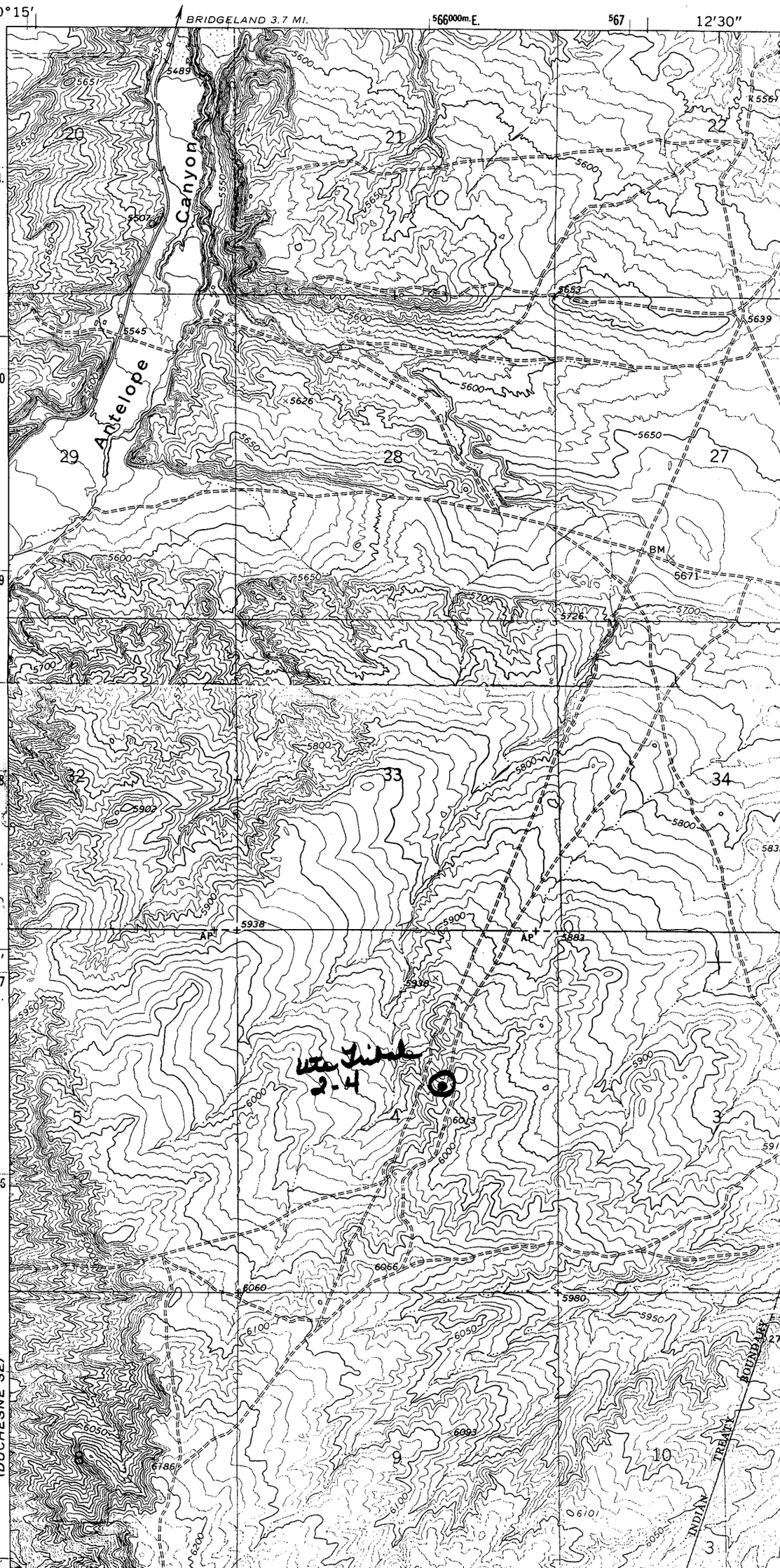
February 7, 1983
(Date)

P.O. Box 2619, Casper, WY 82602
(Address)

EXHIBIT "L"

3964 III NE
(DUCHESNE NE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



RECEIVED
NOV 15 1990
DIVISION OF
OIL, GAS & MINING

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

RECEIVED
DIVISION OF
OIL, GAS & MINING

November 8, 1983

Mr. Norm Stout
State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Mr. Stout:

Attached please find a copy of the State APD for the following wells:

Ute Tribal 3-4
Ute Tribal 4-4

Let us know if you find that you have any questions regarding these applications.

Thank you for your consideration.

Very truly yours,

R. L. Martin/K.R

R. L. Martin
Vice President
Oil & Gas Operations

RLM:cb

Attachments

MULTIPOINT SURFACE USE PLAN
COORS ENERGY COMPANY
UTE TRIBAL 2-4
SECTION 4, T5S-R3W, Lot 10
DUCHESNE COUNTY, UTAH

Coors Energy Company will assure that this APD will be posted in the doghouse of the drilling rig during the drilling of this well. Also, a sign will be posted at the entrance to the location with the name of the well, operator and location description. We will notify the BLM in Vernal, Utah 48 hours prior to beginning any work on this land. Prior to starting surface construction operations, the dirt contractor shall have a completed approved copy of this APD.

1. EXISTING ROADS - See Exhibits C, D, E & F

Access to Coors Ute Tribal #2-4 begins at the City of Roosevelt, Utah, and proceeds along the following roads with approximate mileages as indicated:

Proceed Westerly out of Roosevelt, Utah on U.S. Highway 40; proceed along said Highway 17.3 miles to the Junction of this Highway and an existing improved dirt road to the South (County Road); proceed South along said improved County road 6.2 miles down what is known as Antelope Canyon; to the Junction of this road and an existing unimproved dirt road to the Southeast; proceed Southeasterly along this road 1.3 miles to it's Junction with an existing unimproved dirt road to the East; proceed Easterly along said road 0.6 miles to it's Junction with an existing unimproved dirt road to the South; proceed South along said road 0.7 miles to the Junction of this road and an existing dirt road to the Northeast; proceed Northeasterly along said road 0.9 miles to it's Junction with an existing unimproved dirt road to the North; proceed Northerly along said road 0.6 miles to it's Junction with the proposed access road to the West.

Road maintenance from the Antelope Canyon main road to the well will be provided by a Coors Energy Company subcontractor. Maintenance will consist of periodic grading and repairs to the surface. During summer months, a watering program will be used to control dust. Rain and other inclement weather may require repairs to turnouts, waterbars, etc.

Materials for upgrading the existing road will come from the immediate area of road improvement work.

Upgraded existing roads will be constructed with an 18' road surface with bar ditches and water bars where required. Not over 30' will be cleared to upgrade any existing roads.

2. PLANNED ACCESS ROAD - See Exhibits C, D, E & F

The proposed access road will be approximately 100'± long. This proposed access road will be an 18' crowned road (9' either side of the centerline) with a drain ditch on the uphill side of the road which will handle any run off from normal Meteorological conditions that are prevalent to the area. It is not anticipated that there will be any culverts required along this road as it crosses no drainages of any consequence. Back slopes along the cut areas of the road will be 1½ to 1 slopes and terraced where cuts are needed. There are no fences encountered along the proposed access road. Not over 30' will be cleared for new access roads.

2. PLANNED ACCESS ROAD, Continued

Any trees cut during construction of the access road or wellpad which have a diameter exceeding 4", will be cut into 4' lengths and stacked along the road right of way. Any brush or trees less than 4" in diameter will be scattered off road right of way and located in an orderly fashion as ground cover. No firewood gathering will be allowed without a duly granted wood permit.

3. LOCATION OF EXISTING WELLS - See Exhibit G

Within a 2-mile radius of this proposed well, there are two drilling wells:

Ute Tribal 1-6
Section 6, T5S-R3W
Coors Energy Company

Ute 1-27-D3
Section 27, T4S-R3W
Linmar Company

There is one P&A'd hole:

Ute Tribe B #1
Section 9, T5S-R3W
Amerada Petroleum Corp.

There is one shut in well:

State 44-36
Section 36, T8S-R15E
Pacific Transmission Supply

There are four producing wells:

Ute Tribal 1-8
Section 8, T5S-R3W
Coors Energy Company

Ute Tribal 1-4
Section 4, T5S-R3W
Coors Energy Company

Ute Tribal 1-5
Section 5, T5S-R3W
Coors Energy Company

Ute Tribal 2-9
Section 9, T5S-R3W
Coors Energy Company

With the exception of the above mentioned wells, there are no:

a) known water wells
b) temporarily abandoned wells
c) disposal wells
d) injection wells
e) monitoring or observation wells

A field survey was made by Uintah Engineering and Land Surveying for Coors Energy and no water wells were found within a 2-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES - See Exhibit B, B1

Coors Energy Company's facilities in this area will consist of a pump jack, two 400-bbl. tanks and a separator facility with a waste water disposal pit, See Exhibit B1. Approval of production facilities is desired with APD approval for the Ute Tribal 2-4. All production facilities will be located on the southwest side on the well pad and will be painted in earth colors such as Desert Tan within 6 months of when they are put in place. If the production facilities are among trees, they will be painted Juniper Green.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES, Continued

Coors Energy Company contacted Mr. Dale Workman at the Utah State University Extension Office at (801-738-2080) regarding weed control on the wellsite and along access roads. We were informed that the following weeds are prevalent to this area: Nap Weed, White Top, Quack Grass, Canadian Thistle, Musk Thistle, Leafy Spury, Russian Olive Tree and Morning Glory. We will follow their recommended procedure and spray with the suggested chemicals to control noxious weeds in these areas.

For drilling operations, a survey map (Exhibit B) showing rig layout is attached. All necessary surface equipment will be spotted on the 265' x 375' wellsite pad.

All garbage and trash will be placed in a trash cage and hauled to an appropriate disposal site. No burning of any trash will occur at the location. Any disturbed area not required for producing operations will be restored according to Minerals Management Service instructions. The production facilities will create no additional surface disturbances. The drilling waste pit will be fenced on three sides with 36" woven sheep wire with two strands of barbed wire on top of the sheep wire. Upon completion of the drilling operations, the fourth side will be fenced. The reserve pit will be lined with clay or plastic to prevent seepage.

The south edge of the reserve pit will be rounded to allow access around the pit.

Trash, litter and construction materials will not be littered along road ways or drilling sites.

5. LOCATION AND TYPE OF WATER SUPPLY - See Exhibit I

We have a permit to use unappropriated water from the Duchesne River in Duchesne County approximately 3/4 miles east of Duchesne. The water will be hauled by water trucks to this location. See Permit on Exhibit "I".

6. SOURCE OF CONSTRUCTION MATERIALS - See Exhibit B

The top 6" of topsoil will be removed from the well pad and stored on the west end of the location as shown on Exhibit "B". Fill materials needed to construct the location will be derived locally from cuts needed to build the well pad. Any artifacts found on Tribal lands will be left in place and the BIA promptly notified.

7. METHODS FOR HANDLING WASTE DISPOSAL

A mud reserve pit will be constructed for containment of drill cuttings as well as all drilling fluids and produced fluids. Produced waste fluids will be contained in a pit constructed in a chemical-type toilet. All trash and garbage will be placed in a trash cage and hauled from the location to an appropriate disposal site. The pit will be fenced as per statements in Section 4.

7. METHODS FOR HANDLING WASTE DISPOSAL, Continued

During production operations, all produced waters will be disposed of according to NTL-2B stipulations.

The reserve pit will be allowed to dry and then back-filled and the area restored according to BLM requirements upon completion of the well.

8. ANCILLARY FACILITIES

None will be required.

9. WELL SITE LAYOUT - See Exhibit B

Attached is a diagram showing the proposed wellsite layout.

10. PLANS FOR RESTORATION OF SURFACE - See Exhibit B

Surface vegetation scraped off during drill site preparation will be removed and stock-piled prior to topsoil removal. Upon abandonment, vegetation will be redistributed as a mulching agent over the well site. The top 6" of topsoil will be stock-piled on the west side of the well site as shown on Exhibit "B".

The reserve pit and that part of the location not needed for production operations will be reclaimed within 90 days after completion of the well.

The original surface will be reconstructed as close as possible upon abandonment. The stock-piled topsoil will be spread over the area. Any solid waste material present prior to abandonment will be removed from the location. Any oil or deleterious liquids will be removed by a pump truck to an approved disposal area.

Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all trash will be removed. The access road will also be blocked during restoration. Prior to reseeding, all disturbed areas, including the access road will be scarified and left with a rough surface. The reserve pit and that part of the location not needed for production will be reclaimed in the same manner outlined in this section. The rehabilitated access road will be blocked to prevent any vehicle use.

The topsoil will be tested to determine if fertilizer is needed to re-establish vegetation. After spreading the stock-piled topsoil, the following seed mixture will be used for reseeding:

Smooth brome (Manchar)	5 lbs pure live seed/acre
Orchard grass	5 lbs pure live seed/acre
Timothy	5 lbs pure live seed/acre
Intermediate wheatgrass	5 lbs pure live seed/acre
Alsike clover	1 lb pure live seed/acre

10. PLANS FOR RESTORATION OF SURFACE, Continued

This mixture will be drilled to a depth of one-half inch and planted between September 15 and November 15. This seeding program will be modified as per BLM instruction at the time of site restoration.

If any cultural resources are found during construction, all work will stop and the BLM will be notified. Coors will notify the BIA 48 hours prior to starting the rehabilitation process.

11. OTHER INFORMATION, See Exhibits H, J, L, M & N

The Ute Tribal 2-4 is located approximately 5 miles south of Bridgeland, Utah on the Uintah and Ouray Indian Reservation. The area is covered with native sagebrush. No wildlife was observed on the location.

There are no occupied dwellings within approximately two (2) miles of the well site. An archaeological report is attached, (See Exhibit "J"). Since this well is on the Uintah and Ouray Indian Reservation, Coors will work closely with Ute Tribal representatives to ensure all Tribal requirements for drilling and production operations of this well are followed.

It is Coors Energy Company's policy that no Coors' employees nor subcontractors carry firearms on access roads nor onto the location during drilling or well completion operations of this well. No alcoholic beverages or drugs will be permitted on Coors' operations on Indian lands. No prospecting will be allowed on Coors' operations.

Attached is a copy of the Designation of Operator, (See Exhibit "L") and a copy of the Ute Tribal Notice stating their requirements when traversing or operating on Ute Indian lands, (See Exhibit "M").

A copy of the BLM Stipulations is attached to the application, (See Exhibit "N") and our Special BOP Instructions, (See Exhibit "H").

All operators, subcontractors and vendors will be confined to established roads and wellsites.

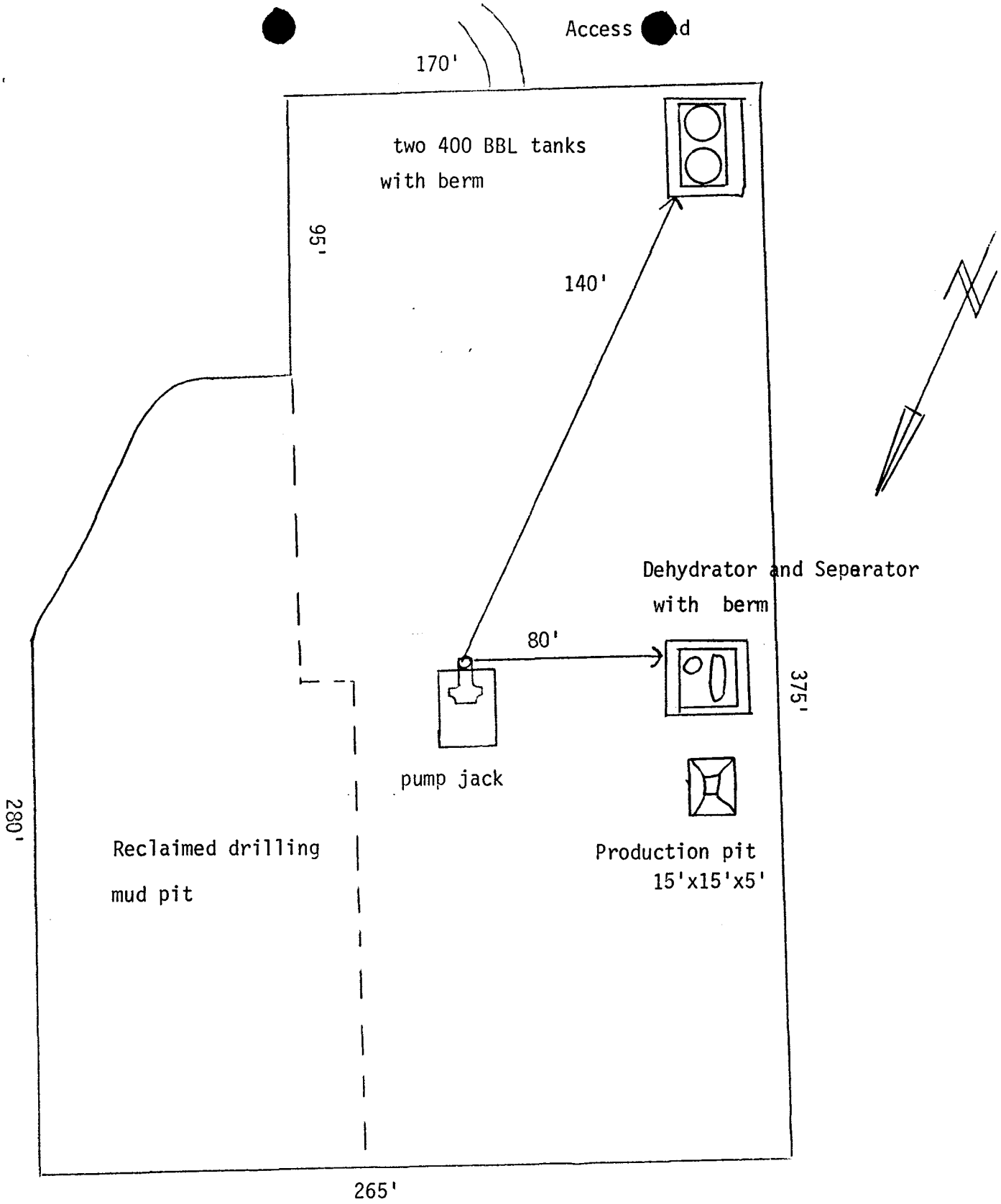
12. CONTACT

R. L. Martin
Vice President
Oil & Gas Operations
Coors Energy Company
PO Box 467
Golden, Colorado 80402
Phone: (303) 278-7030

13. CERTIFICATION

See Exhibit "K"

KR



Ute Tribal 2-4 Surface Production Facilties

Exhibit B-1

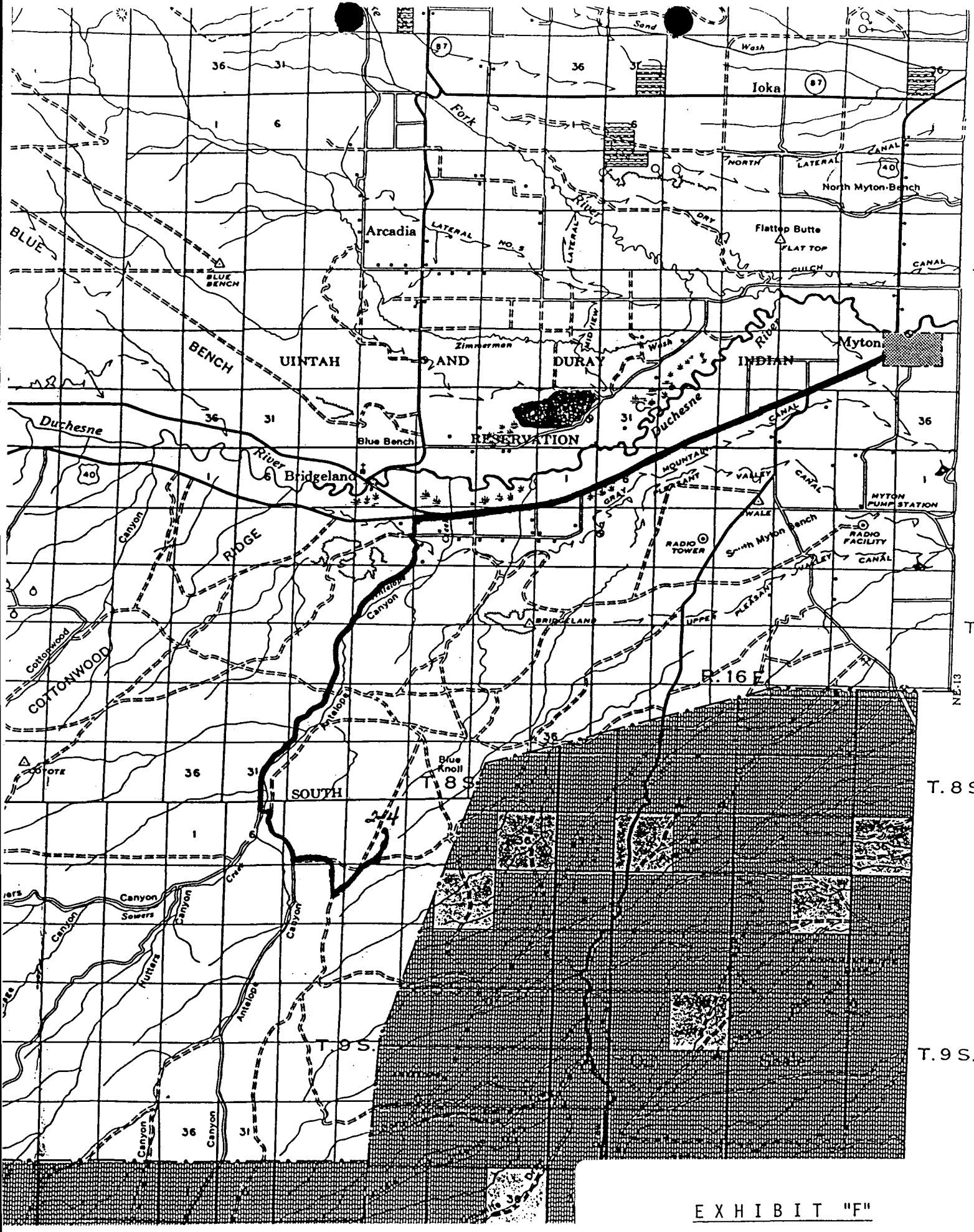

Sand
Wash
Ioka
Fork
River
NORTH LATERAL CANAL
North Myton Bench
Arcadia
LATERAL NO. 5
LATERAL
DRY
Flattop Butte
FLAT TOP
CULCH CANAL
BLUE
BLUE BENCH
BENCH
UINTAH
AND
DURAY
INDIAN
Zimmerman
MIDVIEW
Wash
River
Myton
Duchesne
River
Blue Bench
RESERVATION
Duchesne
CANAL
Bridgeland
GRAY MOUNTAIN
PLEASANT VALLEY CANAL
WALE
MYTON PUMP STATION
RADIO TOWER
South Myton Bench
RADIO FACILITY
CANAL
RIDGE
Canyon
Antelope
Canyon
BRIDGELAND
UPPER PLEASANT VALLEY
Cottonwood
COTTONWOOD
R. 16 E.
NE-13
Antelope
Blue Knoll
T. 8 S.
SOUTH
Creek
Canyon
Sowers
Canyon
Canyon
Hutters
Canyon
Antelope
Canyon
T. 9 S.
Canyon
Canyon
T. 3
T. 4 S
T. 8 S.
T. 9 S.

EXHIBIT "F"

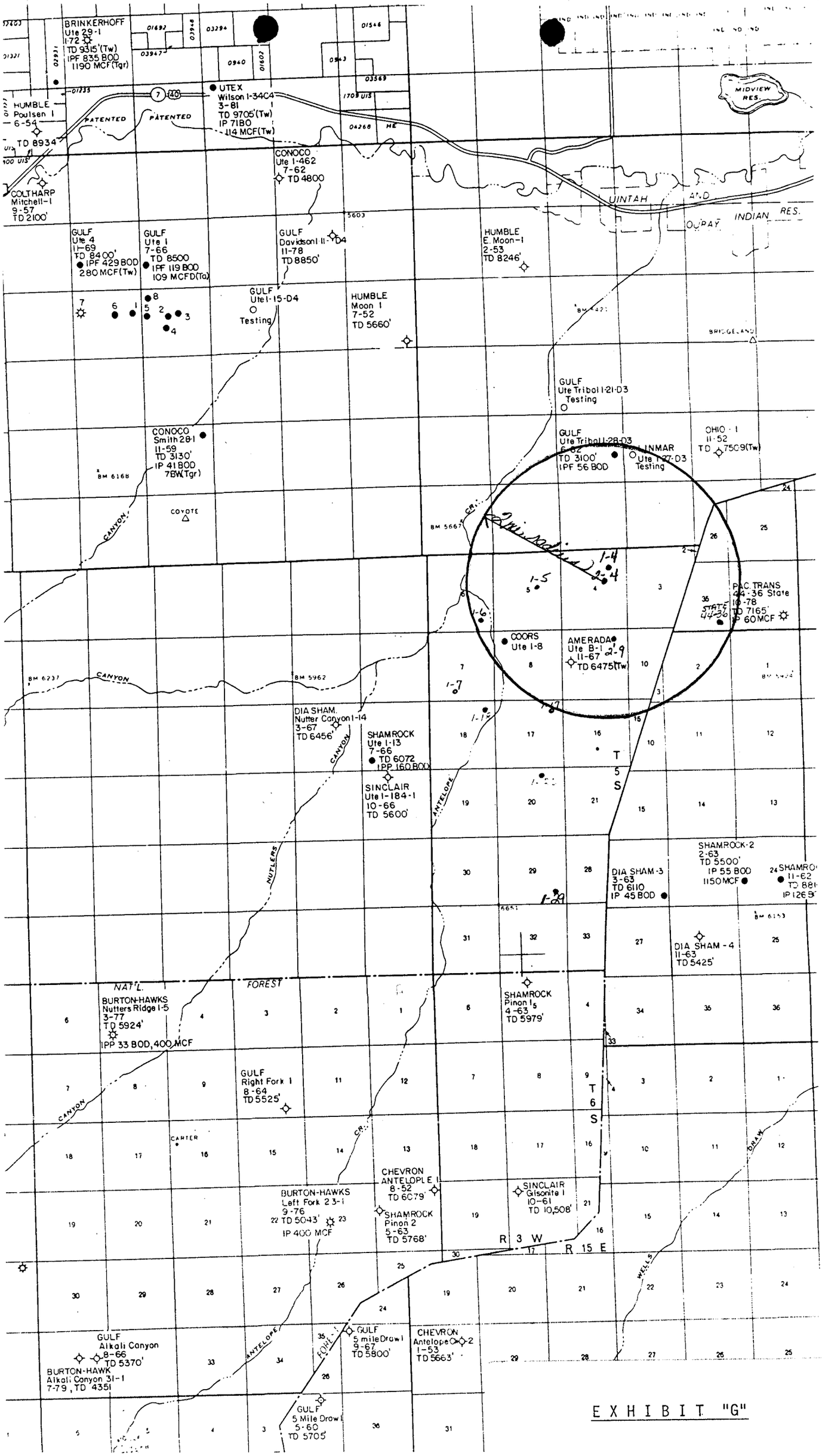
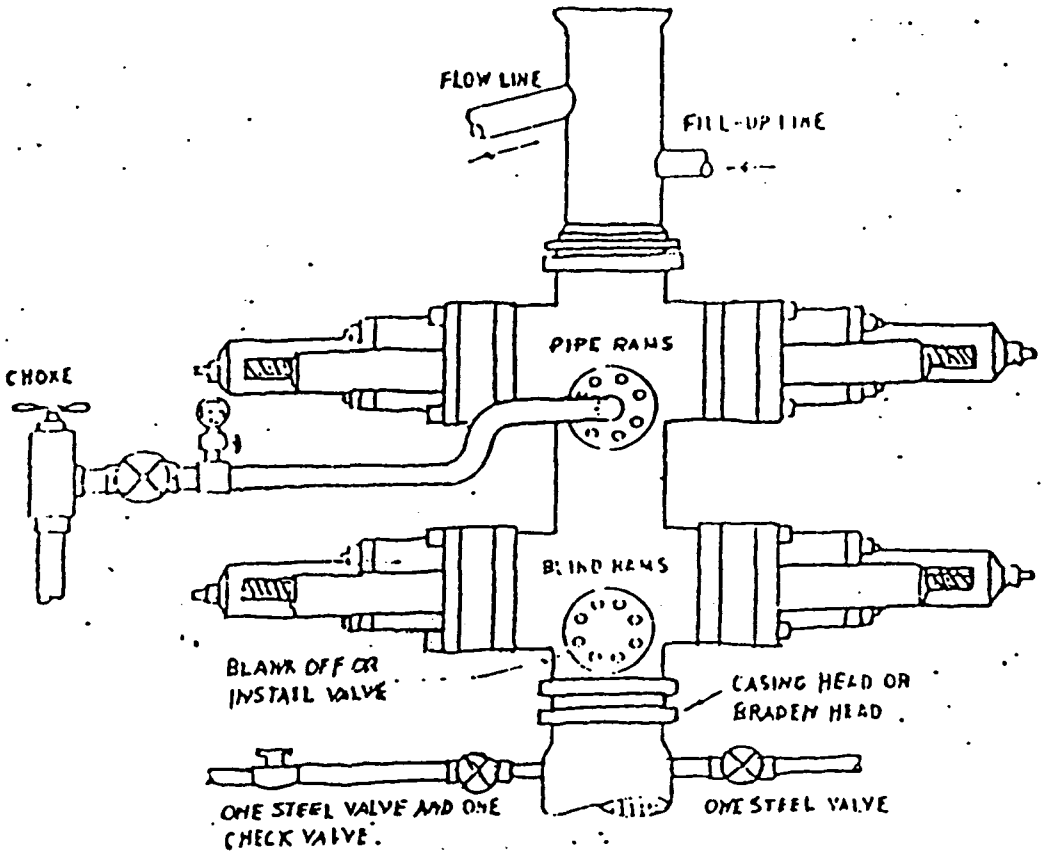

BRINKERHOFF
Ute 29-1
1-72
TD 9315'(Tw)
IPF 835 BOD
1190 MCF(Tgr)
HUMBLE
Poulsen 1
6-54
TD 8934
UTEX
Wilson 1-34C4
3-81
TD 9705'(Tw)
IP 7180
114 MCF(Tw)
PATENTED
PATENTED
CONOCO
Ute 1-462
7-62
TD 4800
COLTHARP
Mitchell-1
9-57
TD 2100'
MIDVIEW RES.
UINTAH AND OURAY INDIAN RES.
GULF
Ute 4
11-69
TD 8400'
IPF 429 BOD
280 MCF(Tw)
GULF
Ute 1
7-66
TD 8500
IPF 119 BOD
109 MCFD(Tg)
GULF
Davidson 1 11-D4
11-78
TD 8850'
HUMBLE
E. Moon-1
2-53
TD 8246'
GULF
Ute 1-15-D4
Testing
HUMBLE
Moon 1
7-52
TD 5660'
BRIDGELAND
GULF
Ute Tribal 1-21-D3
Testing
CONOCO
Smith 28-1
11-59
TD 3130'
IP 41 BOD
7BW(Tgr)
GULF
Ute Tribal 1-28-D3
6-62
TD 3100'
IPF 56 BOD
INMAR
Ute 1-27-D3
Testing
OHIO - 1
11-52
TD 7509(Tw)
COYOTE
CANYON
Revised
1-4
2-4
1-5
1-6
1-7
1-8
1-9
PAC. TRANS
44-36 State
10-78
TD 7165'
IP 60 MCF
STATE 44-36
COORS
Ute 1-8
AMERADA
Ute 8-1
11-67
TD 6475(Tw)
DIA SHAM.
Nutter Canyon 1-14
3-67
TD 6456'
SHAMROCK
Ute 1-13
7-66
TD 6072
IPP 160 BOD
SINCLAIR
Ute 1-184-1
10-66
TD 5600'
ANTELOPE
NUTTERS
T 5 S
SHAMROCK-2
2-63
TD 5500'
IP 55 BOD
1150 MCF
DIA SHAM-3
3-63
TD 6110
IP 45 BOD
SHAMROCK
11-62
TD 881
IP 1269
DIA SHAM - 4
11-63
TD 5425'
NAT'L. FOREST
BURTON-HAWKS
Nutters Ridge 1-5
3-77
TD 5924'
IPP 33 BOD, 400 MCF
SHAMROCK
Pinon 1
4-63
TD 5979'
GULF
Right Fork 1
8-64
TD 5525'
T 6 S
CARTER
CHEVRON
ANTELOPE 1
8-52
TD 6079'
BURTON-HAWKS
Left Fork 23-1
9-76
TD 5043'
IP 400 MCF
SHAMROCK
Pinon 2
5-63
TD 5768'
SINCLAIR
Gisonite 1
10-61
TD 10,508'
R 3 W
R 15 E
WELLS
DRAW
GULF
Alkali Canyon
8-66
TD 5370'
BURTON-HAWK
Alkali Canyon 31-1
7-79, TD 4351
GULF
5 mile Draw 1
9-67
TD 5800'
CHEVRON
Antelope Ck 2
1-53
TD 5663'
GULF
5 Mile Draw
5-60
TD 5705'

EXHIBIT "G"

SPECIAL BOP INSTRUCTIONS



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

A. One double gate blowout preventer with lower rams blind and upper rams for pipe, all hydraulically controlled, opening on preventers between rams.
B. Opening to be flanged, studded or clamped and at least two inches diameter.
C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the preventers.
E. All connections to and from preventers to have a pressure rating equivalent to that of the BOPs.
F. Manual controls to be installed before drilling cement plug.
G. Valve to control flow through drill pipe to be located on Rig floor.
H. Choke may be either positive or adjustable.
A choke spool may be used between preventers.
I. Casinghead or bradenhead flange will be 10" API Series 900
J. After each string of casing is run, BOP and casinghead will be tested to 1000 psi. Pipe ram operation will be checked every 24 hours & blind rams checked every trip.

EXHIBIT "H"

Form 97 2M 10 70

Application No. _____

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE. The information given in the following blanks should be free from explanatory matter, but when necessary a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Target Trucking & Coors Energy
3. The Post Office address of the applicant is 2960 North 500 East, VErnal, Utah 84078
4. The quantity of water to be appropriated _____ second-feet and/or 96.0 acre-feet
5. The water is to be used for Oil Well Drilling (Major Purpose) from Oct. 26, 1983 (Month) (Day) to Oct. 26, 1984 (Month) (Day)

   other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

   and stored each year (if stored) from _____ (Month) (Day) to _____ (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)
7. The direct source of supply is* Duchesne River (Name of stream or other source)

   which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching such channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Duchesne County, situated at a point* South 3200 ft. East 1200 ft. from the NW Cor. Sec. 4, T4S,R3W,USB&M (8 Miles East of Duchesne)

*Note.—The point of diversion must be located definately by course and distance or by giving the distances north or south and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definately.

9. The diverting and carrying works will consist of Pumped into water tank trucks and hauled to place of use
10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated _____
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    _____ Total _____ Acres
12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes _____ No X

    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons _____, or families _____
18. If application is for municipal purposes, name of municipality _____
19. If application is for other uses, include general description of proposed uses Oil well drilling and completion of 24 oil wells
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SEE EXPLANATORY
21. The use of water as set forth in this application will consume 96.0 ~~xxxxxxxxxxx~~/or acre-feet of water and None second feet and/ or acre-feet will be returned to the natural stream or source at a point described as follows: _____

EXHIBIT "I"

POOR COPY

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

UTE TRIBAL 1-10, 1-16, 1-19, 1-28, 1-33, 1-3, 1-31, 2-5, 2-7, 2-8, 3-7, 2-29, 2-49, 2-18, 2-4, 4-4, 1-21, 1-15, 3-29, 2-20, 2-6, 3-4, 1-30, 1-32

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Dan W McKee

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of Uintah } ss

On the 25 day of Uintah, 19 55, personally appeared before me, a notary public [illegible] of Utah, the above applicant, who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires

JOHN GOLBERT
NOTARY PUBLIC
OFFICIAL SEAL
STATE OF UTAH

Notary Public

POOR COPY

ARCHAEOLOGICAL SURVEY OF THIRTEEN COORS ENERGY WELL LOCATIONS AND ACCESS ROADS UINTAH AND OURAY INDIAN RESERVATION AND STATE OF UTAH

GRC Report 8392

by
Thomas F. Babcock, Ph.D.
and
John D. Hartley. M.A.

GRAND RIVER CONSULTANTS, Inc.
576 25 Road, Suite 11
Grand Junction, CO 81501
(303)241-0308

October 3, 1983

Prepared for:
Coors Energy Company
Bldg. 21, Suite 11
Denver West Office Park
1746 Cole Blvd.
Golden, CO 80401

Distribution:

Ute Indian Tribe (1)
BIA - Uintah and Ouray Agency (1)
BLM - District Office, Vernal (1)
Utah State Historical Society, Antiquities Division (1)
Coors Energy (2)

EXHIBIT "J"

ARCHAEOLOGICAL SURVEY OF THIRTEEN COORS ENERGY WELL LOCATIONS AND ACCESS ROADS UINTAH AND OURAY INDIAN RESERVATION AND STATE OF UTAH

Abstract

Archaeological survey of thirteen Coors Energy well locations and associated access roads. One location (Coors 2-6) is on State of Utah land, the remaining twelve are in the Uintah and Ouray Indian Reservation. With the exception of an isolated find on the Ute Tribal 1-30 location, no cultural resources were identified. The isolated find consists of six flakes and is considered ineligible for inclusion in the National Register of Historic Places. Archaeological clearance is recommended for all proposed developments.

Introduction

Grand River Consultants, Inc. was requested by Coors Energy Company to provide an archaeological survey for twelve well locations on the Uintah and Ouray Indian Reservation and one on State of Utah land. The fieldwork was performed on September 28, 1983 in conjunction with an onsite inspection with personnel from Coors Energy, BIA, the Ute Tribe, and BLM. A records search was performed with the Utah State Historical Society on September 13, 1983. This file search revealed the presence of two sites in the general project vicinity (42Dc339 and 42Dc509), neither of which was within the immediate impact areas of the proposed developments. 42Dc309 had been discovered during a survey for a previous Coors well, now constructed.

The legal locations of the proposed wells and access routes are as follows:

State 2-6	T5S,	R3W	Section 6,	SE1/4
Ute Tribal 2-4	"	"	Section 4,	NE1/4
Ute Tribal 3-4	"	"	"	SW1/4
Ute Tribal 4-4	"	"	"	SW1/4

"	"	"	"	Section 9, NW1/4
Ute Tribal 2-18		"	"	Section 18, NE1/4
Ute Tribal 1-15		"	"	Section 16, E1/2
"	"	"	"	Section 15, Lot 1
Ute Tribal 2-20		"	"	Section 20, N1/2
Ute Tribal 4-29		"	"	Section 29, NW1/4
"	"	"	"	Section 19, SE1/4
"	"	"	"	Section 20, SW1/4
Ute Tribal 1-21		"	"	Section 29, N1/2
"	"	"	"	Section 21, SW1/4
Ute Tribal 1-30		"	"	Section 30, NE1/2
Ute Tribal 2-29		"	"	Section 29, SE1/4
Ute Tribal 1-32		"	"	Section 32, NE1/4

All locations are within the Uintah Meridian in Duchesne County.

Examination Procedures

The archaeological survey was accomplished in conjunction with an on-site inspection. In order to complete the inspection of all 13 wells and access roads within a one-day time limit as requested by the Ute Tribe, two archaeologists were employed. One archaeologist inspected the well pads while the other walked the access roads. The well pads were walked with parallel transects spaced at ca. 15m intervals; the accesses were covered by a zig-zag transect extending to a R/W width of 100'. The well pads and a small buffer area were walked (ca. 4 acres each). Total acreage covered by the survey was approximately 100 acres.

Topography and Vegetation

The well locations and access roads were located in a variety of topographic and environmental situations. Two were located in the wide, level floodplain of Antelope Creek and supported primarily greasewood and grasses. Five were located in an upland regime of pinyon/juniper interspersed with wide grassy clearings, and the remainder were located in relatively level salt-desert shrub areas, occasionally mixed with scattered sage and juniper.

Findings of the Survey

With the exception of a prehistoric isolated find identified on the 1-30 location, and scattered steel cans and other modern debris in the vicinity of several other locations, no cultural resources were identified. The isolated find consists of 6 flakes (three interior pieces, one blade, and two thinning flakes) widely scattered along the western and northern portions of the 1-30 location. This location is situated on a gentle east-facing slope supporting a sparse growth of low sage, and saltbrush. All flakes consisted of a tan/grey siltstone. It is considered possible that these items may have washed, or been carried, into their present location from a juniper-covered ridge crest some 600-1000' to the west of the well site. No tools, diagnostic artifacts, or features were noted. Because of the extremely sparse flake scatter, the small number of artifacts, the absence of tools or diagnostic artifacts (points, ceramics, etc.), and the lack of evidence for significant soil depth, this cultural resource is felt to possess minimal value

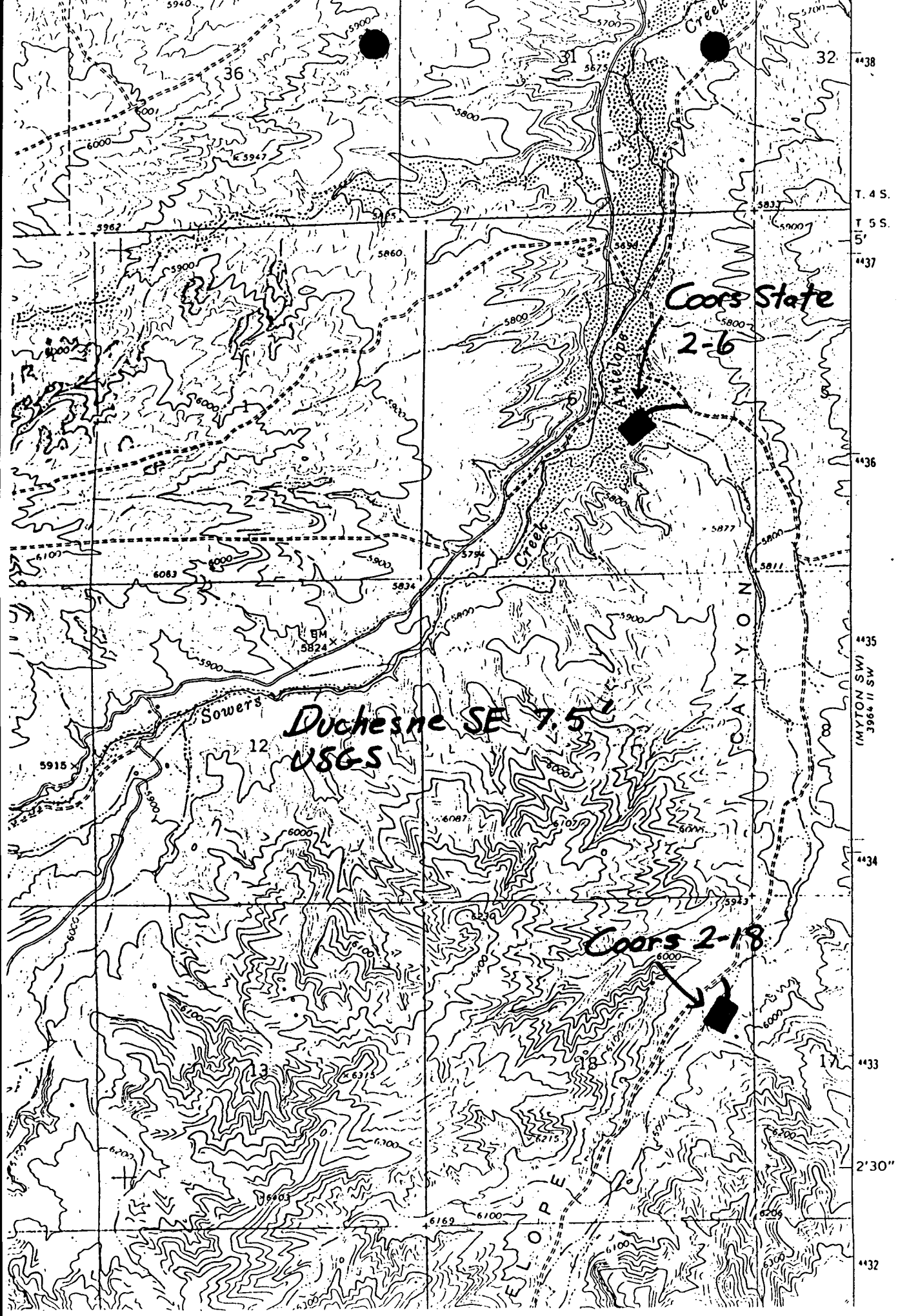
for the interpretation of regional prehistory. As such, this location is recorded as an "isolated find" rather than an archaeological "site" and is considered ineligible for inclusion in the National Register of Historic Places. It is recommended that the construction of Coors Ute Tribal 1-30 be allowed to proceed as planned.

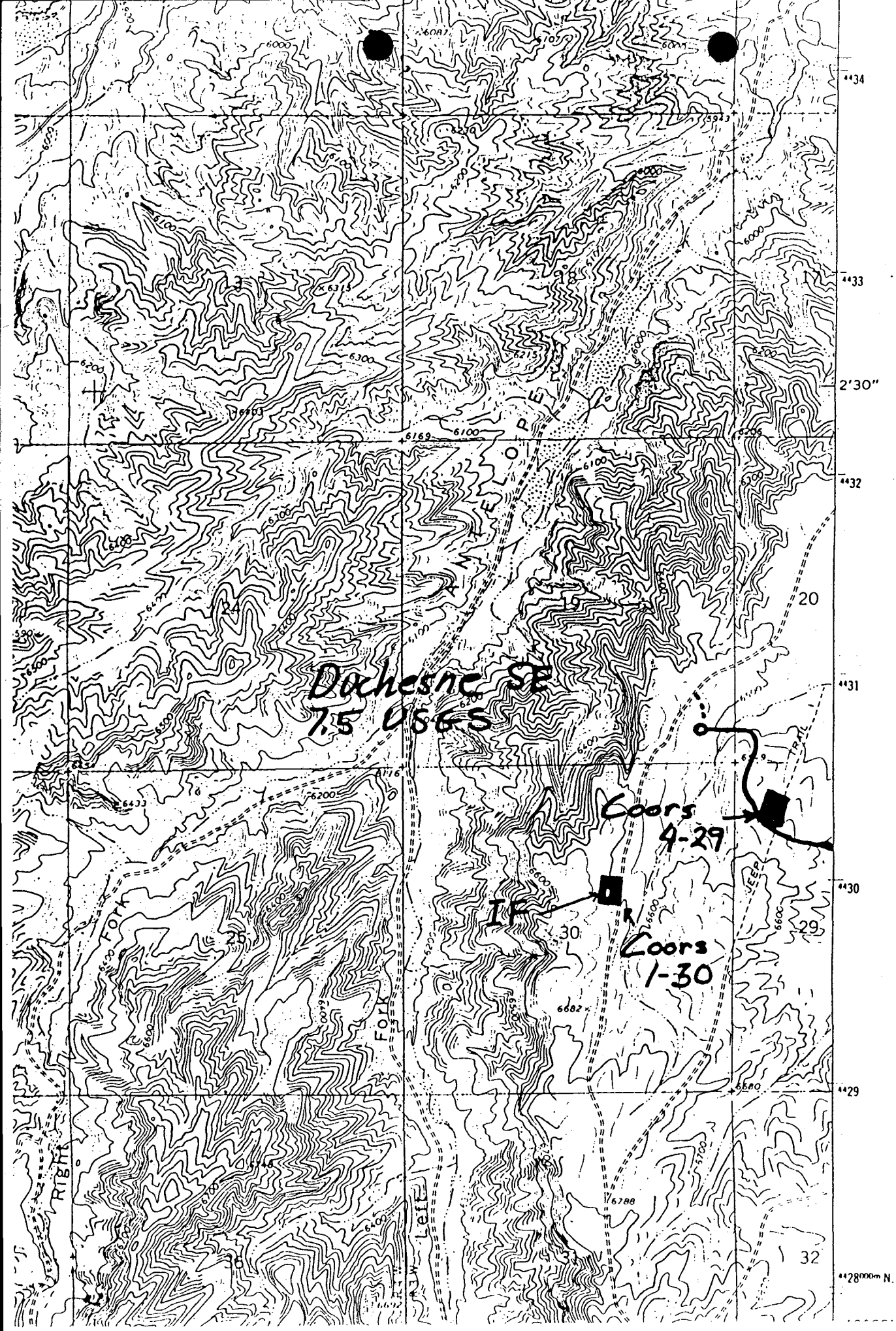
Conclusions and Recommendations

Archaeological clearance is recommended for all 13 Coors Energy well locations inspected during the present survey. Although the isolated find identified on Coors 1-30 is considered insignificant as an individual resource, it is interesting that another isolated find (a broken biface) had been previously collected during the survey for Coors Ute Tribal 1-31, approximately one mile to the south in a similar environmental situation (GRC Report 8380). This might suggest a general low-density utilization of the ridge top east of Antelope Canyon in Sections 30 and 31 or the as yet undisclosed presence of a larger site in the general area.

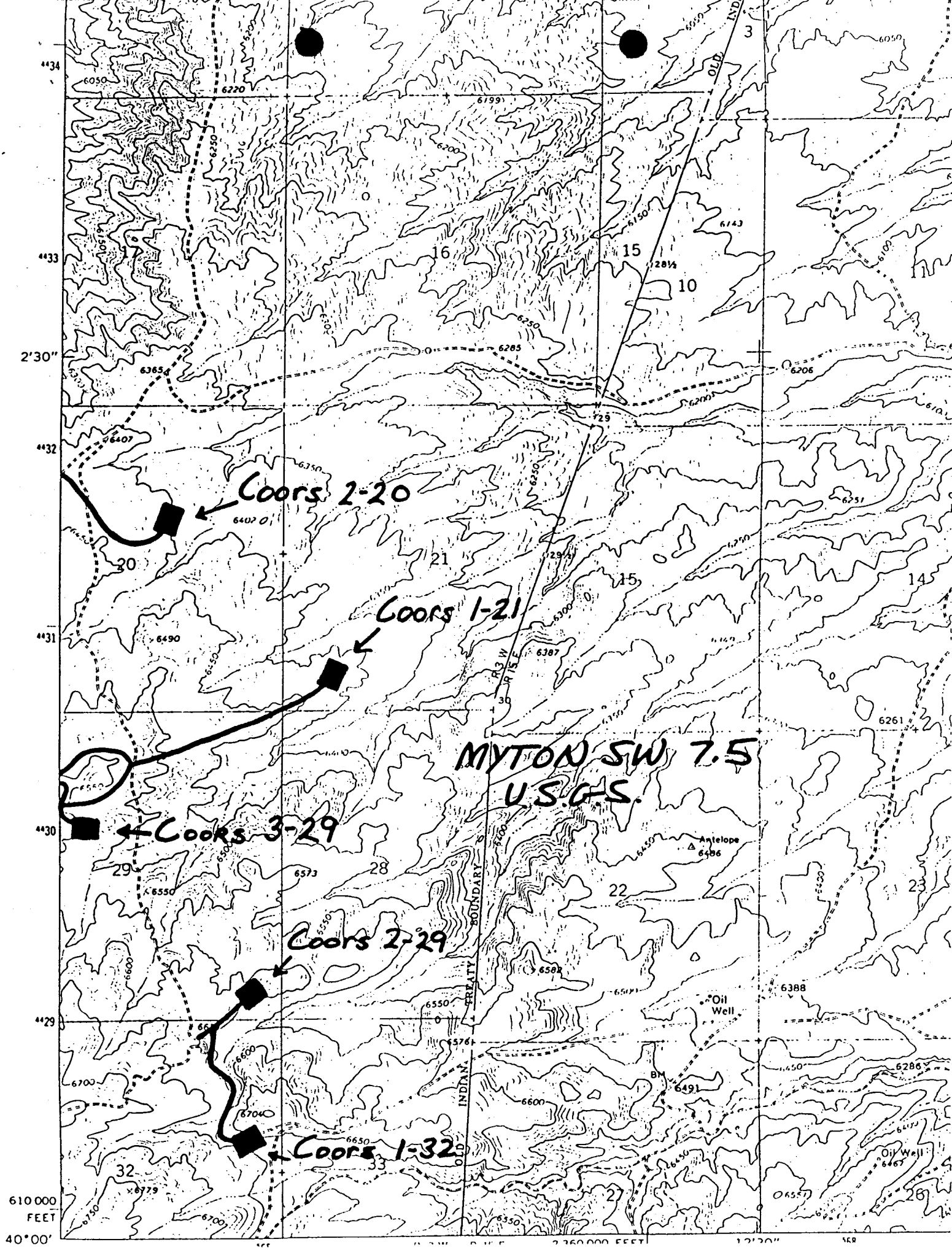
Reference Cited

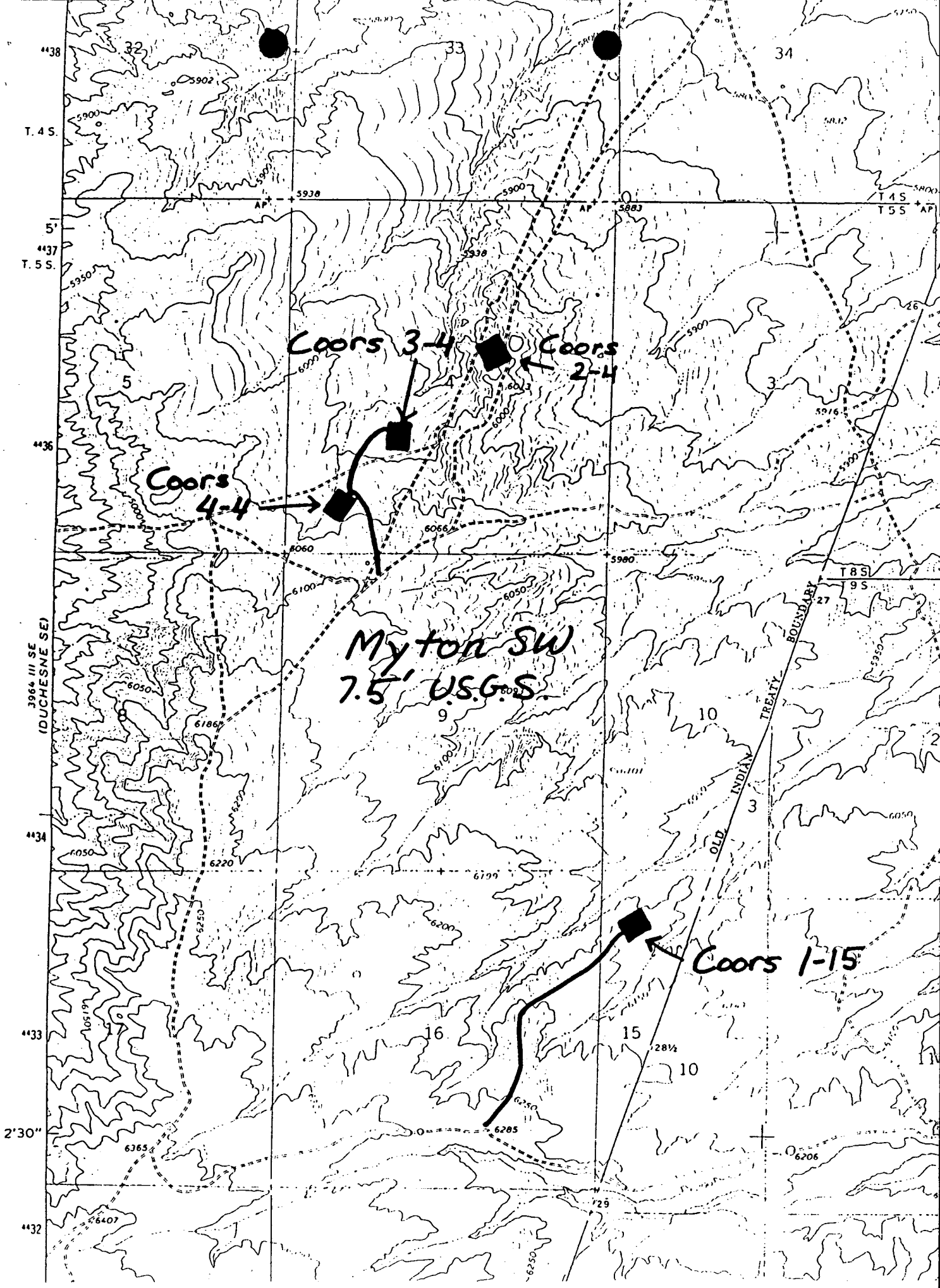
HARTLEY, JOHN D.
1983 Archaeological Survey for Coors Energy Company Six Ute Tribal Wells, Unitah and Ouray Indian Reservation. Grand River Consultants Report 8380


Coors State 2-6
Duchesne SE 7.5' USGS
Coors 2-18
Antelope Creek
Sowers Creek
CANYON
SLOPE
36
31
32
12
13
18
17
T. 4 S.
T. 5 S.
5'
2'30"
(MYTON SW)
3964 II SW



Duchesne SE
7.5 USGS
Coors
4-29
IF
Coors
1-30
2'30"
4434
4433
4432
4431
4430
4429
4428000m N.
Right
Fork
Left
Fork
JEEP
TRAIL


Coors 2-20
Coors 1-21
MYTON SW 7.5
U.S.G.S.
Coors 3-29
Coors 2-29
Coors 1-32
OLD INDIAN TREATY BOUNDARY
Antelope
Oil Well
610 000
FEET
40°00'
2'30"


Coors 3-4
Coors 2-4
Coors 4-4
Myton SW
7.5' U.S.G.S.
Coors 1-15
T. 4 S.
T. 5 S.
T 4 S
T 5 S
T 8 S
T 9 S
OLD INDIAN TREATY BOUNDARY
3964 III SE (DUCHESNE SE)
5'
2'30"

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

CERTIFICATION BY OPERATOR'S FIELD REPRESENTATIVE

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true, complete, and correct; and that the work associated with this plan will be carried on by Coors Energy Company, and its contractors and subcontractors, in conformity with the plan and the terms and conditions under which it is approved.

11-7-83
Date

R. L. Martin
Vice President, Oil & Gas Production

kr

EXHIBIT "K"

(Submit in Triplicate)

SUPERVISOR, OIL AND GAS OPERATIONS:

DESIGNATION OF OPERATOR

The undersigned is, on the records of the U.S. Department of the Interior, Bureau of Indian Affairs

DISTRICT LAND OFFICE: The Ute Indian Tribe and the Ute Distribution Corporation

Lease No. 14-20-H62

Tract No. 53

and hereby designates

NAME: Coors Energy Company

ADDRESS: P.O. Box 467, Golden, Colorado 80401

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 5 South, Range 3 West, U.S.M.
Section 4: NE/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

GULF OIL CORPORATION

(Signature of lessee)

W. R. Wimbish Attorney-in-Fact

February 7, 1983
(Date)

P.O. Box 2619, Casper, WY 82602
(Address)

EXHIBIT "L"

UTE Energy & Minerals
P.O. Box 190
Fort Duchesne, Utah 84026

(801) 722-5141 x219

NOTICE

TO: All Well Operators, Lessees, Subcontractors, Vendors, and Affiliated Agents and Employees Thereof

When entering the Ute Reservation, the entering individual is coming into a sovereign nation separate and distinct from the State of Utah. As such, there are special requirements which must be complied with when traversing or operating on Ute Indian Lands.

1. Trespass permits shall be obtained and carried with individual on tribal lands at all times.

2. All operators, subcontractors, vendors, and their employees or agents shall not carry firearms or other weapons.

3. All operators, subcontractors, vendors, and their employees or agents are confined to established roads and well sites. All litter must be removed from Ute Lands.

4. All operators, subcontractors, vendors, and their employees or agents may not gather firewood on Indian lands. Absent a duly granted "wood permit," such gathering is a criminal offense punishable in Federal court.

5. If water or fill materials are needed in constructing roads, well sites, or are used in the drilling process, proper permits are needed. Required information for permits includes: a) the approximate amount of water or materials needed; b) the location and ownership of the water rights or materials to be used and; c) the approximate amount of water or materials to be used.

6) All artifacts found while on Tribal lands shall be left in place and the Tribe promptly notified of the find.

7) No prospecting will be allowed on Tribal lands.

8) No alcoholic beverages or drugs shall be permitted while working on the Reservation.

EXHIBIT "M"

PER _____

NOS ✓

APD _____

COMPANY Coors Energy

WELL 2-4

SECTION 4 T 55 R 3W

LEASE 14 20 H623503

ONSITE DATE 9-28-83

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
RECLAMATION PROCEDURES

GENERAL

1. Trespass permits shall be obtained and carried with individual on tribal lands at all times.

2. All operators, subcontractors, vendors, and their employees or agents shall not carry firearms or other weapons.

3. No prospecting will be allowed on tribal lands.

4. No alcoholic beverages or drugs shall be permitted while working on the reservation.

5. A cultural resource clearance is required before any construction begins. The clearance (has/~~has not~~) been done. Clearance (has/~~has~~ not) been granted by Grand River Consultants _____.

6. A wood permit will be obtained from the Forestry Department of the BIA before any firewood is removed.

CONSTRUCTION

1. Construction and maintenance of roads, rehabilitation of disturbed areas and construction of pipeline routes shall be in accordance with the surface use standards as set forth in the booklet, "Surface Operating Standards for Oil and Gas Exploration and Development."

2. The maximum width of access roads will be 30 feet total disturbed area.

EXHIBIT "N"

3. All operators, subcontractors, vendors, and their employees or agents are confined to establish roads and well sites.

4. All trees four inches or greater in diameter shall be cut and bucked into four foot lengths and neatly stacked adjacent to the access road or drill pad. All trees less than four inches in diameter will be cut and trampled by the heavy equipment.

5. All operators, subcontractors, vendors, and their employees or agents may not gather firewood without a duly granted wood permit.

6. If water or fill materials are needed in constructing roads, well sites, or are used in the drilling process, proper permits are needed. The following information is required: The approximate amount of water or materials needed, the location and ownership of the water rights or materials to be used.

7. All artifacts found on tribal lands shall be left in place and the BIA promptly notified.

8. Production water will be disposed of a approved disposal pits or injection wells. The injection well or disposal pit used will be identified by legal description.

9. It is the policy of the BIA to make rights-of-ways available, without cost, to operators when both mineral rights and surface rights are owned by the Ute Indian Tribe. It the surface rights are owned by the Tribe and the mineral rights are owned by another entity, the right-of-way will be approved and charges will be assessed for damages prior to the time the operator begins any construction activities. If the surface is owned by the Ute Indian Tribe, rights-of-ways must be cleared with the other entity.

10. Trash, litter, construction materials, etc., will not be littered along roadways or drilling sites. The operator will initiate a procedure to keep the sites free from litter and keep them groomed in a neat and professional condition.

11. The operator will submit a plan for controlling noxious weeds along rights-of-ways for roads, pipelines, well sites, and other applicable facilities. A list of noxious weeds can be obtained from the appropriate county.

12. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons and saline minerals in the Mahogany Zone of the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale and saline minerals resources. Surface casing program may require adjustment for protection of fresh water aquifers. (See attached tentative casing and cementing program for the Uintah Basin).

13. Burning will not be allowed. All trash must be hauled to the nearest sanitary landfill.

14. The top 6-10 inches of topsoil will be removed and stockpiled on the west edge of the location.

15. The reserve pit (~~will~~/will not) be lined with native clay, commercial bentonite, or plastic sufficient to prevent seepage.

16. Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

17. The operator or his contractor will contact the BIA and the Vernal District BLM, Diamond Mountain Resource Area, 48 hours prior to beginning any work on Tribal land.

18. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM or BIA stipulations prior to any work.

19. South edge of reserve pit will be rounded to allow access around pit.

20.

21.

REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be hauled to a local sanitary landfill.

2. The operator or his contractor will contact the BIA and Vernal BLM, Diamond Mountain Resource Area, 48 hours prior to starting rehabilitation work that involves earth moving equipment and upon completion of restoration measures.

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

4. All disturbed areas must be recontoured to the approximate natural contours.

5. The stockpiled topsoil will be evenly distributed over the disturbed area.

6. Prior to reseeding, all disturbed areas, including the access road, will be scarified and left with a rough surface.

7. Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some such implement will be dragged over the seeded area to assure seed coverage. Seeding mixtures will be specified by the BIA.

8. The access will be blocked to prevent any vehicle use.

9. _____

_____

_____.

PRODUCTION

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed within 90 days after completion with the methods described in the rehabilitation section. Stockpiled topsoil will be used in reclaiming the unused areas.

2. All permanent (on site for six (6) months duration or longer) structures constructed or installed, including the pumpjack, shall be painted a flat, non-reflective, earthtone color to match the standard environmental colors Rocky Mountain 5 State Interagency Committee. All facilities shall be painted within six months of when the production facilities are put in place. Facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) are excluded.

3. Tank batteries will be placed on the SW Corner of Location.

4. A bench mark will be established near each well site in location where it will not be destroyed. The bench mark will be set in concrete with a brass cap. The brass cap will show the well number and elevation to the nearest one-tenth of a foot. The cuts/fills for the well site will also show elevations in relation to the bench mark.

OPERATOR Coors Energy Company DATE 11/28/83

WELL NAME Ute Tribal #2-4

SEC 4 (20T10) T 5S R 3W COUNTY Duchesne

43-013-30879	Indian
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[ ] MAP	[ ] HL
[ ] NID	[ ]	[ ] PI

PROCESSING COMMENTS:

NO OIL OR GAS WELLS WITHIN 1000'

WATER OK

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

DATE: 11-30-83

BY: [signature]

CHIEF PETROLEUM ENGINEER REVIEW:

12/1/83

APPROVAL LETTER:

SPACING: [ ] A-3 _____ UNIT [ ] c-3-a _____ CAUSE NO. & DATE

[ ] c-3-b [X] c-3-c

SPECIAL LANGUAGE:

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [ ] UNIT _____
  - [ ] c-3-b
  - [x] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [x] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.
- [x] VERIFY LEGAL AND SUFFICIENT DRILLING WATER

November 30, 1983

Coors Energy Company
P. O. Box 467
Golden, Colorado 80402

RE: Well No. Ute Tribal #2-4
Sec. 4, Lot 10, T. 5S, R. 3W
2551' FNL, 1900' FEL
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-30879.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
cc: Branch of Fluid Minerals
Bureau of Indian Affairs
Encl.

Water OK/gl

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: COORS ENERGY CORPORATION

WELL NAME: UTE TRIBAL 2-4

SECTION Lot 10 NE¼ 4 TOWNSHIP 5S RANGE 3W COUNTY DUCHESNE

DRILLING CONTRACTOR LOEN ROSS - RATHOLE DIGGER

RIG #

SPUDDED: DATE 2-23-84

TIME 11:00 AM

HOW

DRILLING WILL COMMENCE

REPORTED BY KAREN ROHRER

TELEPHONE # (303) 278-7030

DATE 2-27-84 SIGNED GL

FILE IN TRIPLICATE
FORM OGC-8-X

56 64 03

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Ute Tribal 2-4

Operator Coors Energy Company *Address* PO Box 467, Golden, Colo. 80402

Contractor Olsen Drilling Company *Address* 1616 Glenarm Pl, Denver, Colo. 80202

Location SW/4 NW/4 *Sec.* 4 *T.* 5S *R.* 3W *County* Duchesne

Water Sands

	Depth		Volume	Quality
	From	To	Flow Rate or Head	Fresh or Salty
1.	No water encountered			
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) *Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.*

(b) *If a water analysis has been made of the above reported zone, please forward a copy along with this form.*

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL [XX] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: ----

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

9. WELL NO.: 2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, Sec. 4, Lot 10

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Progress Report			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

2/23/84 Spudded 2/23/84 at 11:00AM, ran 9 joints of 8-5/8" 24.00# K55 STC casing, set at 384', cemented w/290 sks of Class G cement.

Waiting on drilling rig.

RECEIVED
BLM
DIV. OF OIL, GAS & MINING

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

SIGNED R. L. Martin TITLE V.P. Oil/Gas Operations DATE 3-1-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form OGC-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Progress Report	[ ]		
(Other)	[ ]						

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

17. 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.)*

3/8/84 MIRU Olsen Rig #5

3/9/84 to 3/18/84 Drilled to Td of 6790', ran 152 jts of 5½" 15.50# and 14 jts of 17.00# totaling 166 jts of casing to 6775'KB, cemented w/20 bbls 2% KCL mud sweep, 250 sks of Hifill cement, 1200 sks of 50/50 pozmix w/10% salt and 1/4#/sk of floseal.

3/19 to 4/18/84 WOCT.

4/19/84 Perforated 5½" casing from 6382-76' w/4 JSPF. Fraced this zone w/62,000# 20/40 sand, 841 bbls gel water.

4/20 to 4/24/84 Flowed back and swabbed well.

4/25/84 Set RBP at 6090', perf'd at 5828-46' w/4 JSPF.

4/26/84 Fraced this zone w/117,000# 20/40 sand, 10,000# 10/20 sand, 1561 bbls gel water, 139 bbls KCL water flush.

4/27/84 Will start flowing back and swabbing well.

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 4-30-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form OGC-1b

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

(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Progress Report			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

4/27 to 5/4/84 Swabbed well down.

5/5/84 Set RBP at 4200', perf'd from 3987-4010' w/2 shots/ft., spotted 250 gals 7-1/2% HCL acid across perfs. Fraced this zone w/90,000# 20/40 sand, 10,000# 10/20 sand, 1143 bbls gel water and 95 bbls KCL water flush.

5/6 to 5/12/84 Swabbed well down.

RECEIVED
MAY 17 1984
DIVISION OF OIL GAS & MINING

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 5-15-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331-C

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

(See other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL

RECEIVED
MAY 29 1984
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) First day of Production			[ ]
(Other)			[ ]	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

5/16/84 First day of production, started pumping at 12:00 noon.

Sales will be made to: Getty Oil Company
P.O. Box 416
Roosevelt, Utah 84066

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 5-24-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form OGC-3

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

6

56 64 01

7

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

RECEIVED
JUL 12 1984
COLO. OIL & GAS CONS. COMM.

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2551'FNL, 1900'FEL, ~~SW/4NW/4~~ Lot #10
At top prod. interval reported below: same
At total depth: same

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe
7. UNIT AGREEMENT NAME: ----
8. FARM OR LEASE NAME: Ute Tribal
9. WELL NO.: 2-4
10. FIELD AND POOL, OR WILDCAT: Antelope Creek
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO.: 43-013-30879 DATE ISSUED: 11/30/83
12. COUNTY OR PARISH: Duchesne 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/23/84	3/18/84	5/16/84	5992'GL, 6004'KB	----

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6790'	6690'	----	→	0-6790'	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
3987-6382', Green River Formation

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: CBL, DIL, CNL

27. WAS WELL CORED: no

23. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.00#	384'KB	12-1/4"	290 sx.	
~~5-1/2"~~	~~17.00/15.50#~~	~~6775'KB~~	~~7-7/8"~~	~~1250 sx.~~	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8" EUE J55	6413'KB	

31. PERFORATION RECORD (*Interval, size and number*)
6382-76' w/4 SPF
5828-46' w/4 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6382-76'	62,000# 20/40 sand, 841 bbls gel water
5828-46'	117,000# 20/40 sand, 10,000# 10/20 sand, 1700 bbls gel water

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
SEE SECOND PAGE	Pumping	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

TEST WITNESSED BY

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 _____ TITLE _____ DATE _____

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

Form OGC-3

56 64 01

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

RECEIVED
JUL 12 1984
COLO. OIL & GAS CONS. COMM.

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 4, T5S-R3W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD

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

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)
3987-4010' w/2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3987-4010'	250 gals 7½% HCL acid, 90,000# 20/40 sand, 10,000# 10/20 sand, 1238 bbls gel water

33.* PRODUCTION

DATE FIRST PRODUCTION: 5/16/84
PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pumping, 2½" x 1½" x 16' rod pump
WELL STATUS (*Producing or shut-in*): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/6/84	24	1/8"	→	29	9	----	310

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
25	30	→	29	9	----	40+

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

TEST WITNESSED BY: Jim Simonton

35. LIST OF ATTACHMENTS: CBL, CNL, DIL logs

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 7-10-84

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River:	1646'		
Green River (Parachute Creek):	3036'		
Green River (Garden Gulch):	3772'		
Green River (Upper Douglas Creek):	4838'		

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

Form OGC-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER Saltwater Injection Well

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

9. WELL NO.: 2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, Section 4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W, UTM

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Injection Well			XX	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Coors Energy Company requests approval to utilize this well as a saltwater injection well. A complete application for conversion to a saltwater injection well under the State of Utah Oil & Gas & Mining Rule I-5 is attached.

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

SIGNED D. S. Sprague TITLE Director, O/G Operations DATE 2/15/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form OGC-1b

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

(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER: Saltwater Injection Well

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

9. WELL NO.: 2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, Section 4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W, UTN

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Injection Well			XX	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Coors Energy Company requests approval to utilize this well as a saltwater injection well. A complete application for conversion to a saltwater injection well under the State of Utah Oil & Gas & Mining Rule I-5 is attached.

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

SIGNED D. S. Sprague TITLE Director, O/G Operations DATE 2/15/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Coors Energy Company
ADDRESS PO Box 467
Golden, Colorado ZIP 80402
INDIVIDUAL ___ PARTNERSHIP ___ CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Ute Tribal 2-4 WELL
SEC. 4 TWP. 5S RANGE 3W
Duchesne COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	☐
DISPOSAL WELL	☒
LP GAS STORAGE	☐
EXISTING WELL (RULE I-4)	☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:
1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name: Ute Tribal	Well No.: 2-4	Field: Antelope Creek	County: Duchesne
Location of Enhanced Recovery Injection or Disposal Well _____	Sec. 4	Twp. 5S	Rge. 3W
New Well To Be Drilled Yes ☐ No ☒	Old Well To Be Converted Yes ☒ No ☐	Casing Test Yes ☐ No ☐ Date _____	
Depth-Base Lowest Known Fresh Water Within ½ Mile none	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile YES ☐ NO ☒	State What	
Location of Injection Source(s): Green River Formation in 29 wells	Geologic Name(s) and Depth of Source(s): Green River 1400-6900'		
Geologic Name of Injection Zone: Green River	Depth of Injection Interval 5828 to 5846 & 6382-6376'		
a. Top of the Perforated Interval: 5828'	b. Base of Fresh Water: none	c. Intervening Thickness (a minus b) 5828'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones: Sandstone, limestone, dolomite, siltstone, mudstone			
Injection Rates and Pressures: Maximum ~~150~~ 5 BPM B/D; 2000 PSI			

The Names and Addresses of Those to Whom Notice of Application Should be Sent.

Ute Tribal Headquarters	Gulf Oil Co.	BLM
PO Box 190	PO Box 2619	Vernal District Off.
Fort Duchesne, Utah	Casper, Wyoming	170 S. 500 East
84026	82602	Vernal, Utah 84078

State of Colorado)
County of Jefferson)

COORS ENERGY COMPANY
Applicant

Before me, the undersigned authority, on this day personally appeared J. S. Sprague known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 15th day of Feb., 19 85

SEAL My Commission Expires March 3, 1988

Karen A. Rohrer
1746 Cole Blvd.
Jefferson County
State of Colo.

My commission expires _____

Notary Public in and for

(OVER)

FORM DOGM-UIC
(Rule I-5 (b) 2
(Revised 1983)

PLEASE TYPE USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

14-20-H62-3503
COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY
DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

API NO. 43-013-30879

640 Acres
N
W E
S
Locate Well Correctly and Outline Lease

COUNTY Duchesne SEC. 4 TWP. 5S RGE. 3W
COMPANY OPERATING Coors Energy Company
OFFICE ADDRESS PO Box 467
TOWN Golden, Colo. STATE ZIP 80402
FARM NAME Ute Tribal WELL NO. 2-4
DRILLING STARTED 2/23 19 84 DRILLING FINISHED 3/18 19 84
DATE OF FIRST PRODUCTION 5/16/84 COMPLETED 5/16/84
WELL LOCATED NE ¼ SW ¼ NE ¼
1200 FT. FROM SL OF ¼ SEC. & 850 FT. FROM WL OF ¼ SEC.
ELEVATION DERRICK FLOOR 6004 GROUND 5992

TYPE COMPLETION
Single Zone
Multiple Zone XX
Comingled
LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Green River	5828	5846	Not economical		
	6382	6376	Not economical		
	3987	4010	Squeezed off to 3000 psi		

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
8-5/8"	24.00	K55	384'		290		surface
5-1/2"	15.50	K55	6790		1250		surface
	17.00	K55	6790				

TOTAL DEPTH 6790'

PACKERS SET DEPTH 5800'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Green River		
SPACING & SPACING ORDER NO.	Not spaced		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Disposal Well		
PERFORATED INTERVALS	5828-5846'		
	6382-6376'		
	3987-4010'	Squeeze cemented and	
		pressure tested to 3000 psi	
ACIDIZED?	All		
FRACTURE TREATED?	All		

INITIAL TEST DATA

Date	5/16/84	1/23/85	
Oil, bbl./day	29	2	
Oil Gravity	40+	40+	
Gas, Cu. Ft./day	9 CF	9 CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	310	310	
Water-Bbl./day	1-2	1	
Pumping or Flowing	Pumping	Pumping	
CHOKE SIZE	N/A	N/A	
FLOW TUBING PRESSURE	N/A	N/A	

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

Telephone (303) 278-7030 D.S. Sprague, Director, O/G Operations
Name and title of representative of company
Date: 2/15/85

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)

4. Attach Electric or Radioactivity Log of Subject well (if released).

5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.

6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.

7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.

10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.

12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	8-5/8"	384'	290 sx.	surf.	circ. to surface
Intermediate					
Production	5-1/2"	6790'	1250 sx.	surf.	CBL
Tubing	2-3/8"	5800'	Name - Type - Depth of Tubing Packer		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval		Depth - Base of Inj. Interval
6790'	Green River	5828	to	5846'
		6382	to	6376'

Packer will be a compression type similar to Baker R-3, set at 5800'.

COORS ENERGY COMPANY
SALT WATER INJECTION
WELL COMPLETION SKETCHES

UTE TRIBAL #2-4
WELL

Sec. 4 T5S R3W
DUCHESNE COUNTY, UTAH

ANTELOPE CREEK
FIELD/OPERATOR

1/22/85
DATE

WELL CLASS **SALINE WATER INJECTION**

PERMANENT WELL BORE DATA

12 1/4" HOLE TO 384'

5 1/2" 15.50 & 17#/ft. K-55 STC Casing

7 7/8" Hole TO 6790'

GREEN RIVER PERFORATIONS 3987'-4010' SQUEEZE CEMENTED & PRESSURE TESTED TO 3000 psi

CEMENT TOP AT SURFACE

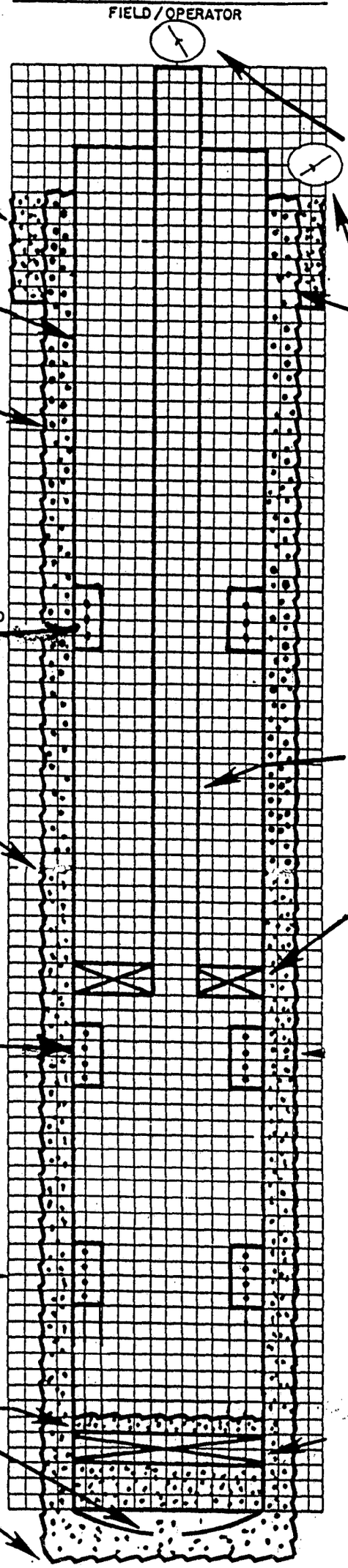
GREEN RIVER PERFORATIONS 5828'-5846' KB

GREEN RIVER PERFORATIONS 6382'-6376' KB

PBTD 6690'

CASING SHOE 6775'

TD 6790'



DATA ON THIS COMPLETION

Pressure gauge on 2 3/8" tubing

Pressure gauge on 5 1/2" casing tubing annulus

384' 8 5/8" 24# K-55 STC Surface pipe, CEMENTED W/ 290' SACKS CEMENT.

2 3/8" 4.70 J-55 EUE TUBING SET AT 5800' KB

4 1/2" TENSION PACKER AT 5800' KB

EXHIBIT "E"

FLOAT COLLAR 6735'

NOT TO SCALE

EXHIBIT "F"

CALCULATION OF FRACTURE GRADIENT IN THE GREEN RIVER FORMATION IN THE UTE 2-4

The UTE 2-4 has already been hydraulically fractured in the Green River. The closest wells in the immediate vicinity are the UTE 1-4 and 3-4 in the same section. The fracture gradient calculations are listed below:

(1) Name	(2) Location	(3) Zone	(4) Depth	(5) Frac Injection Rate/bbl/min.	(6) Frac Surface Pres.(psi)	(7) (0.433 psi/ft x depth) Hydrostatic Pres(psi)	(8) #Perfs	(9) ISIP	(10) (9+7)/4 Fracture Gradient psi/ft.
Ute 2-4	Sec. 4,T5S-R3W	Green River	6382-6376	22	3000	2763	25	2700	0.856
			5828-5846	30	2400	2523	72	2100	0.793
								Avg.	0.825
Ute 1-4	Sec. 4,T5S-R3W	Green River	6370-6645	34	3200	2877	78	2500	0.809
			6133-6326	30	3000	2739	52	Screened out	
			5715-5846	30	3000	2531	13	2700	0.845
			5477-5536	30	3500	2397	16	3100	0.993
								Avg.	0.899
Ute 3-4	Sec. 4,T5S-R3W	Green River	5746-5877	30	3000	2544	16	1900	0.756
			5479-5489	30	3000	2376	20	Screened out	
			4931-4938	31	2200	2135	28	1900	0.817
			4544-4383	31	3150	1967	14	2600	1.055
								Avg:	0.859

Conclusion: If injection pressure does not exceed 2000 psi, the Green River Formation will not be fractured.

E X H I B I T "G"

SOURCE OF PRODUCTION WATERS TO BE INJECTED INTO THE UTE TRIBAL 2-4, Section 4, T5S-R3W

WELL NO.	WELL NAME	LOCATION	SOURCE OF WATER	CHLORIDE (PPM)	TDS MG/L
1	Ute Tribal 1-3	Sec. 3, T5S-R3W	Green River	2,700	6,634
2	1-4	4 "	" "	10,300	19,138
3	1-5	5 "	" "	2,150	5,743
4	1-6	6 "	" "	5,664	8,000
5	1-7	7 "	" "	6,372	7,800
6	1-8	8 "	" "	7,788	9,800
7	1-10	10 "	" "	2,420	10,873
8	1-15	15 "	" "	No water production	
9	1-16	16 "	" "	6,372	9,015
10	1-17	17 "	" "	12,036	14,600
11	1-18	18 "	" "	2,420	708
12	1-19	19 "	" "	11,600	21,361
13	1-20	20 "	" "	7,788	11,200
14	1-21	21 "	" "	13,452	16,800
15	1-28	28 "	" "	17,100	28,650
16	1-29	29 "	" "	7,550	13,270
17	1-30	30 "	" "	5,350	11,433
18	1-31	31 "	" "	8,900	15,571
19	1-32	32 "	" "	7,788	9,800
20	1-33	33 "	" "	2,832	10,438
21	2-5	5 "	" "	9,204	12,300
22	2-7	7 "	" "	10,620	13,100
23	2-8	8 "	" "	708	3,000
24	2-9	9 "	" "	No water production	
25	2-18	18 "	" "	No water production	
26	2-20	20 "	" "	11,328	12,900
27	3-4	4 "	" "	9,204	16,550
28	3-7	7 "	" "	11,328	12,390
29	4-4	4 "	" "	8,200	15,355

Injection Well Data

Ute 2-4	Sec. 4, T5S-R3W	Green River	6,700	11,616

AFFIDAVIT OF PUBLICATION

RECEIVED

MAR 0 8 1985

DIVISION OF OIL
GAS & MINING

County of Duchesne, } ss.
STATE OF UTAH }

I, Craig Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for ....one.... consecutive issues, and that the first publication was on the ....27.... day of ....February.., 19..85, and that the last publication of such notice was in the issue of such newspaper dated the 27 day of February 19..85

Craig Ashby

Subscribed and sworn to before me this 5th day of March, 1985

Joan L. Crozier
Notary Public.

My commision expires MY COMMISSION EXPIRES MARCH 1, 1987, 19.....

Publication fee, $.....

PUBLIC NOTICE
CAUSE NO. UIC-056

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

IN THE MATTER OF THE APPLICATION OF COORS ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL OF THE UTE TRIBAL No. 2-4 WELL, LOCATED IN SECTION 4, TOWNSHIP 5 SOUTH, RANGE 3 WEST, DUCHESNE COUNTY, UTAH, AS A CLASS II SALTWATER DISPOSAL WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Coors Energy Company, P.O. Box 467, Golden, Colorado 80402 has requested administrative approval from the Division of Ute Tribal No. 2-4 well, located in the SW¼NE¼ of Section 4, Township 5 South, Range 3 West, Duchesne County, Utah as a Class II saltwater disposal well.

The proposed operating data for the well is as follows:

Injection interval: Green River Formation 5828' to 5846' & 6382-6376' Maximum Estimated Surface Pressure: 2000 psig, Maximum Estimated Water Injection Rate: 150 BWPD.

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 20th day of February, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
Marjorie L. Larson
Administrative Assistant

Published in the Uintah Basin Standard February 27, 1985.

Affidavit of Publication

RECEIVED

ADM-35B

MAR 13 1985

DIVISION OF OIL
GAS & MINING

STATE OF UTAH,

ss.

County of Salt Lake

.....Cheryl Gierloff.....

CAUSE NO. UIC-056
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF COORS ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL OF THE UTE TRIBAL #2-4 WELL, LOCATED IN SECTION 4, TOWNSHIP 5 SOUTH, RANGE 3 WEST, DUCHESNE COUNTY, UTAH, AS A CLASS II SALTWATER DISPOSAL WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Coors Energy Company, P.O. Box 467, Golden, Colorado 80402 has requested administrative approval from the Division of Oil, Gas and Mining for the Ute Tribal #2-4 well, located in the SW1/4 NE1/4 of Section 4, Township 5 South, Range 3 West, Duchesne County, Utah, for a Class II saltwater disposal facility.

The proposed operating data for the well is as follows:

Injection Interval: Green River Formation 5828' to 5846' & 6382-6276'

Maximum Estimated Surface Pressure: 2000 psig

Maximum Estimated Water Injection Rate: 150 BWPD

The application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 20th day of February, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
MARJORIE L. LARSON
Administrative Assistant

A-57

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

.....Cause No. UIC-056 - Application of Coors.....

.....Energy Company.....

.....

.....

.....

was published in said newspaper on.....

.....March 1, 1985.....

.....Cheryl Gierloff.....
Legal Advertising Clerk

Subscribed and sworn to before me this .....8th..... day of

.....March..... A.D. 19.85.....

B. T. Davis
Notary Public

My Commission Expires

March 1, 1988

NOTARY PUBLIC
B. T. DAVIS
STATE OF UTAH

UIC-056

Publication was sent to the following:

Routine addresses

Coors Energy Company

Ute Tribal Headquarters
PO Box 190
Fort Duchesne, Utah 84026

Gulf OIl Company
PO Box 2619
Casper, Wyoming 82602

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Madonna Prukop

February 21,1985

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 21, 1985

Uintah Basin Standard
Legal Advertizing
Roosevelt, Utah 84066

Gentlemen:

RE: UIC-056

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 6th day of March. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

Marjorie Larson

MARJORIE L. LARSON
Administrative Assistant

mfp
0045A

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 21, 1985

Newspaper Agency
Legal Advertizing
Mezzanine Floor
143 South Main
Salt Lake City, Utah 84111

Gentlemen:

RE: UIC-056

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 6th day of March. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON
Administrative Assistant

mfp
0045A

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF COORS ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL OF THE UTE TRIBAL #2-4 WELL, LOCATED IN SECTION 4, TOWNSHIP 5 SOUTH, RANGE 3 WEST, DUCHESNE COUNTY, UTAH, AS A CLASS II SALTWATER DISPOSAL WELL.	:	CAUSE NO. UIC-056

---ooOoo---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Coors Energy Company, P.O. Box 467, Golden, Colorado 80402 has requested administrative approval from the Division of Ute Tribal #2-4 well, located in the SW1/4 NE1/4 of Section 4, Township 5 South, Range 3 West, Duchesne County, Utah as a Class II saltwater disposal well.

The proposed operating data for the well is as follows:

Injection Interval: Green River Formation 5828' to 5846' & 6382-6376'
Maximum Estimated Surface Pressure: 2000 psig
Maximum Estimated Water Injection Rate: 150 BWPD

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 20th day of February, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Larson

MARJORIE L. LARSON
Administrative Assistant

COORS ENERGY COMPANY APPLICATION FOR SALTWATER DISPOSAL

FOR THE UTE 2-4
SECTION 4, T5S-R3W
DUCHESNE COUNTY, UTAH

RECEIVED

FEB 19 1985

DIVISION OF OIL
GAS & MINING

Coors Energy Company proposes to convert a non-commercial oil well, the Ute 2-4, to a saltwater disposal well. Coors will present all evidence required under Rule I-5 of the Utah Oil & Gas and Mining Board issued January 1, 1982, in order to classify this well as a Class II water injection well.

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RULE I-5-APPLICATION FOR APPROVAL OF CLASS II INJECTION WELLS

(a) Each application for the approval of a newly drilled or newly converted Class II Injection Well shall be filed on Form DOGM-UIC-1. The original and six (6) copies of the application and one complete set of attachments shall be furnished to the Board.

See attached Form DOGM-UIC-1 and complete set of attachments.

****

(b) The application for the approval of Class II Injection Well(s) shall be accompanied by:

(1) A plat showing the location and total depth of the following wells: the Class II Injection well, each water well(s), each abandoned, producing or drilling well and dry hole, within one-half mile of the Class II Injection well. The plat must identify the surface owner(s) of the land within one-half mile of the Class II Injection Well, and each operator of a producing leasehold within one-half mile of each Class II Injection well. Only wells of available public record are required to be included on the plat.

Exhibit "A" Show the location and total depth of all producing wells within a half mile radius of the UTE TRIBAL 2-4. There are no Class II injection wells, water wells, abandoned wells, drilling wells or dry holes within a one-half mile radius of the UTE 2-4.

This well is on Ute Tribal lands, so the Ute Tribe owns both surface and mineral rights for the Ute 2-4. Gulf Oil Company holds the oil and gas lease and Coors Energy is farming out the oil and gas lease from Gulf Oil Company. Coors Energy is the only operator of a producing leasehold within a half mile radius of the UTE 2-4. The non-producing leases shown within the half mile radius are owned by Gulf Oil Company.

****

(2) A copy of the notice of completion Form DOGM-UIC-2, and if required by the Board and/or Director:

(i) for a surface casing intended to protect underground sources of drinking water: resistively, spontaneous potential and caliper logs prior to installation of the casing; and a cement bond, temperature, or density log after the casing is set and cemented.

(ii) For intermediate and long strings of casing intended to facilitate injection: resistivity, spontaneous potential, porosity, and gamma ray logs before the casing is installed; fracture finder logs, and a cement bond, temperature or density log after the casing is set and cemented.

Attached is a copy of Form DOGM-UIC-2. Surface casing was set at 384 feet and cemented to surface with 290 sacks cement. No fresh water acquifers were found during the drilling of the 12¼" surface hole.

Exhibit B is a copy of the compensated density log in the zones of Interest. Exhibit C is a copy of the dual laterolog in the zones of Interest. Exhibit D is a complete copy of the cement bond log for the UTE 2-4.

****

(3) A schematic diagram of the Class II well showing:

i. the total depth or plug-back depth of the well;

ii. the depth of the injection or disposal interval;

iii. the geological name of the injection or disposal zone;

iv. the depths of the tops and bottoms of the casing and cement;

v. the size of the casing and tubing, and the depth of the packer;

vi. an assessment of the presently existing cement bond between the casing and formation;

vii. the location of bottom hole.

Exhibit E is a schematic diagram of the Ute 2-4 showing the above requirements under 3 i, ii, iii, iv, v, vi and vii. Note that the complete cement bond log is shown as Exhibit D.

****

(4) Information showing that injection into the proposed zone will not initiate fractures through the confining strata which could enable the injection fluid or formation fluid to enter a USDW.

(i) The Board may approve injection provided a finding is made from data, the application is required to furnish, and affidavits supporting the validity of such information.

(ii) The applicant is required to provide data including the maximum injection rate, maximum surface injection pressure, injection fluid and the lithology and rock properties of the injection zone and confining strata. The applicant's data must demonstrate that the proposed maximum surface injection pressure combined with the pressure of the well's hydrostatic head above the injection zone results in a pressure which could not initiate fractures in the confining strata and enable the injection fluid or the formation fluid to enter a USDW.

Exhibit F is a summary of the fracturing data from the Ute 2-4, the Ute 1-4 and the Ute 3-4. Both the Ute 1-4 and Ute 3-4 are within a half mile of the Ute 2-4. A fracture gradient is calculated for each of the frac zones in these wells.

Coors proposes to limit injection rate to an estimated 5 BPM and keep surface injection pressure below 2000 psi. This will insure that no new fractures are initiated and all injected fluids remain in the two injection zones at 6382'-6376' and 5828'-5846'. To summarize Coors' injection plans and meet the above mentioned requirements, the following list is provided.

UTE 2-4

Maximum injection rate	5 BPM (estimated) contingent upon step-rate injectivity test results) See (5)i
Maximum surface injection pressure	2000 psi
Injection fluid	Green River production water
Lithology of injection zone	Fine grained sandstone
Rock properties of injection zone	Frac gradiect 0.825 ± psi/ft.
Lithology of confining structure	Limestones and siltstones
Rock properties of confining strata	Assume similar frac gradient as injection zone of 0.825 ± psi/ft.

****

(5) Proposed operating data:

i. design injection rates and pressures and a procedure for controlling injection rates and pressures such as a relief valve, regulator or other pressure control device.

As discussed in Section 4, injection rates will be an estimated 5 BPM and maximum pressure will be limited to 2000 psi at the surface. Coors plans on installing a pressure kill switch on the tubing and casing tubing annulus as a safety device to insure that the maximum pressure of 2000 psi is not exceeded. Coors plans on performing a step-rate injectivity test the same time as a casing integrity test is performed. This step-rate injectivity test through the tubing will determine the maximum injectivity rate at 2000 psi. All results will be reported to the State, Ute Tribal and Federal governments.

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ii. geologic name, depth, and location of injection fluid source;

The source water to be injected into the Ute 2-4 is all from the Green River Formation. All 29 wells listed on Exhibit "F" are completed in the Green River. Generally, the Uinta Formation occurs to a depth of 1400'± in the Antelope Creek Field. The Green River Formation occurs from 1400'± to approximately 7500' to the top of the Wasatch. All 29 source wells are all completed within the Green River Formation. Depth of the 29 source wells vary from 6500' to 6900'±.

****

iii. qualitative and quantitative analysis of representative sample of water to be injected;

Exhibit "G" shows a water analysis from each of the 29 source wells and the Ute 2-4.

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iv. appropriate geological data on the injection one and confining zones including the lithologic description, geologic name, thickness, depth and lateral extent;

The Green River Formation consists of lacustrine rocks with some alluvial facies near the edge of the basin. The facies vary depending on the depth of the lake at the time of deposition. Most of the rocks are siltstone/sandstone/mudstone assemblies, with thick carbonates formed in open lacustrine facies. The best reservoirs are interpreted to be channels and point bars formed in a marginal lacustrine environment.

Perforated zones: 5828-5846, 6376-6382'

1) 6376-6382' - this interval is in the lowermost Green River Formation near the Wasatch transition zone. Mud log and electric log data indicate that it is a very fine grained sandstone/siltstone with about 14-16% porosity. This sand probably formed as a small discrete channel or point bar in a marginal lacustrine environment, and as such, this sand shows little lateral extent.

2) 5828-5846' - This interval is in the Black Shale facies in the Douglas Creek member of the Green River Formation. Mud log and electric log data shows a fine-grained sandstone approximately 20' thick with about 12-14% porosity. The sand unit in this interval is in the same stratigraphic position as producing intervals in nearby wells and is loosely termed the "Castle Peak" sands. The "Castle Peak" sand shows little chance of lateral continuity. It does not occur in offset wells such as the Ute 1-4 and Ute 3-4.

****

v. the geologic name, lateral extent, and depth to the top and bottom of all underground sources of drinking water which may be affected by the injection;

No sources of drinking water will be effected by the injection of production water into the Green River Formation in the Ute 2-4.

No underground sources of drinking water occur for 2½ miles from this well. The only source of underground drinking water would be in the alluvial sands of Antelope Creek 2½ miles west of the well.

****

vi. qualitative analysis of injection formation water on basis for exemption under Rule 1-5(C).

Exhibit "G" shows the water analysis from the Ute 2-4 well.

****

(6) Contingency plans to cope with all shut-ins or well failures so as to prevent migration of polluting fluids into any underground source of drinking water.

As can be seen on the cement bond log shown on Exhibit "D", the entire wellbore has been cemented to surface. The cement quality is very good. In the event the well is shut in, production water from the 2-4 well will be trucked to an approved surface disposal pit. In the event of a well failure, all injection operations will cease and State and Federal authorities will be notified by the appropriate procedures. Since no source of underground drinking water exists for 2½ miles, the possibility of contamination by migration of polluting fluids does not exist in this wellbore.

****

(7) The results of any formation testing programs.

Before surface facilities are installed, Coors will perform a step-rate injectivity test on the well to determine the rates and pressures that the formation will withstand for injection of produced fluids. Results of these tests will be forwarded to the State, Ute Tribe and Federal agencies. No other formation testing programs are planned.

****

(8) A description of the mechanical integrity test, the actual injection procedure and notification to the Division of the date and time of test to provide the Division the opportunity to monitor the test.

Coors plans to run a compression packer to 5800' and pressure up the casing annulus to 2000 psi. A hard copy will be made and sent to the State, Ute Tribal and Federal agencies. At this time, the injection test will be performed into both zones at 5828-5846' and 6376-6382' simultaneously. The Utah State Board of Oil, Gas and Mining, Ute Tribal and Federal agencies will be informed in advance of the time and date of the test for the purpose of witnessing it.

****

(9) For new wells, the status of corrective action on defective wells in the area of review.

No defective wells exist in the area of the Ute 2-4.

****

(10) Any other additional information which the Board shall determine is necessary in order to adequately review the application.

Any additional information will be provided to the Board as requested.

(c) The Board is authorized, subject to EPA approval, to exempt certain aquifiers from classification as a USDW under the following conditions if the application demonstrates.

(1) it does not currently serve as a source of drinking water, and;

(2) it cannnot now and will not in the future serve as a source of drinking water because:

a. It is mineral, hydrocarbon or geothermal energy producing, or can be demonstrated by a permit applicant as part of a permit application for a Class II well operation to contain minerals or hydrocarbons that considering their quantity and location are expected to be commercially producible.

b. It is situated at a depth or location which makes recovery of water for drinking water purposes economically or technologically impractical.

c. It is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; or

d. It is located over a Class III well mining area subject to subsidence or catastrophic collapse; or

(3) The total dissolved solids content of the ground water is more than 3,000 and less than 10,000 mg/l and it is not reasonably expected to supply a public water system.

The two injection zones in the Ute 2-4 do not currently serve as a source of drinking water and will not do so in the future. The depth of 5800-6400' in itself is prohibitive in addition to the mineral content of 11,616 mg/liter total dissolved solids.

(d) Members of the Board, the Division or other State agencies having a lawful interest in the administration of the UIC program shall have the right, at all reasonable times, to enter and inspect all disposal wells, injection wells and producing wells and facilities thereto for the purpose of ascertaining through the taking of samples and necessary testing activities to insure that the operator is complying with the provisions of the orders, rules and regulations made in pursuance of the Oil and Gas Conservation Act.

(e) The Division Director in an emergency shall have the power to order the immediate closure or shut-down of any well or wells which in the opinion of the Director may be endangering underground sources of drinking water.

(f) Each application shall be verified under oath, by a responsible official of the applicant, that the information contained in the application is true and correct to the best of the official's information and belief.

See Exhibit "H" for an affidavit as to the requirements under Section "F". Exhibit "I" is the original survey plat for the Ute 2-4. Exhibit "J" is a sketch of the Surface Facilities for Saltwater Injection into the Ute 2-4. Exhibit "K" is a Certificate of Mailing to all the interested parties.

Exhibit "L" is a copy of the State of Utah Well Completion Report. Note that the zone from 3987 to 4010' has been squeeze cemented off and pressure tested to 3000 psi.

RLN:kr

GEARHART

COMPENSATED DENSITY LOG

FILING NO. 268667

COMPANY COORS ENERGY COMPANY

WELL UTE TRIBAL NO. 2-4

FIELD ANTELOPE CREEK

COUNTY DUCHESNE STATE UTAH

LOCATION: 2551' FNL & 1900' FEL LOT 10

SEC 4 TWP 5S RGE 3W

Other Services: DLL/MSFL

Permanent Datum G.L. Elev. 5992'

Log Measured from K.B. 12 Ft. Above Perm. Datum

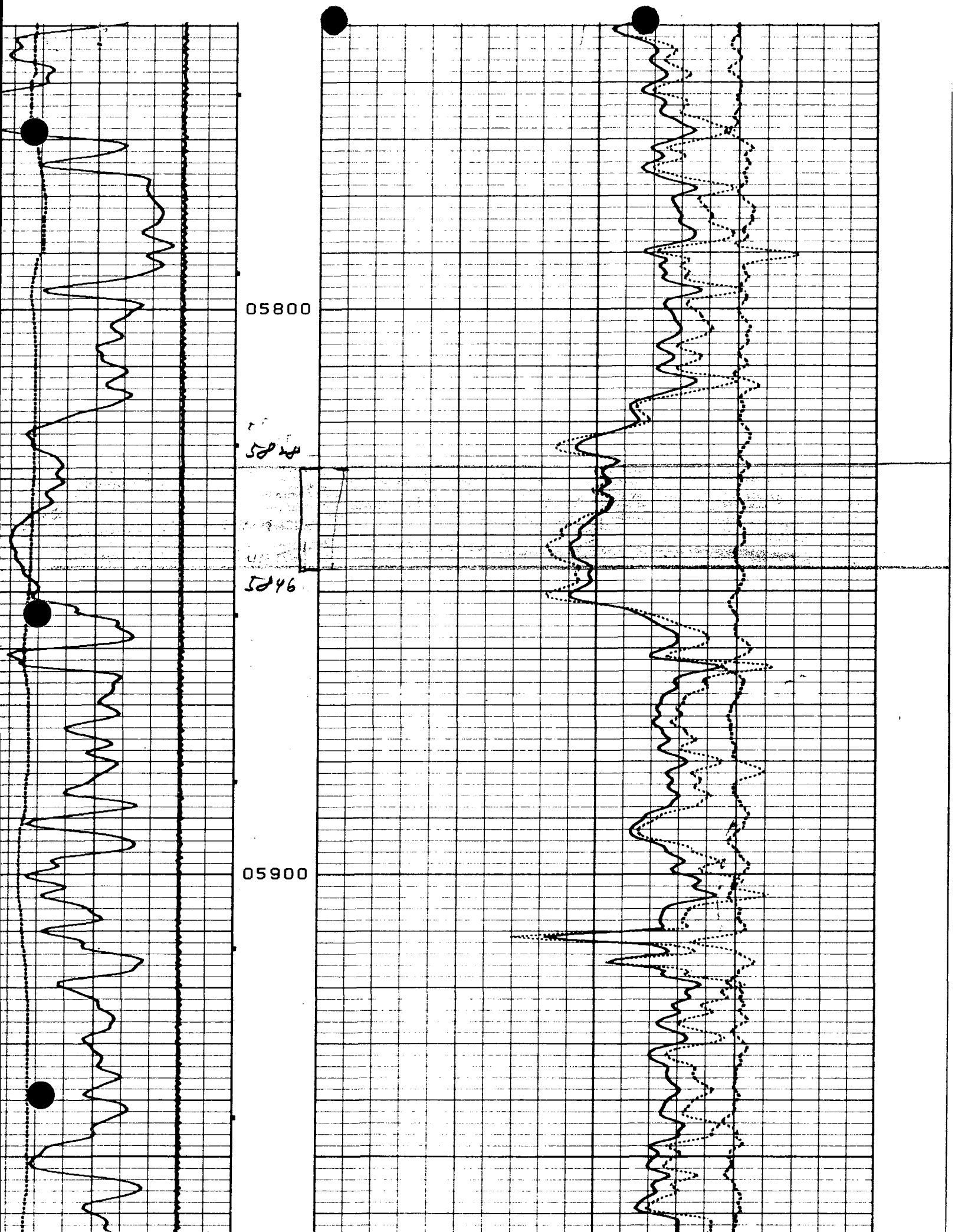
Drilling Measured from K.B.

Elev.: K.B. 6004' D.F. 6003' G.L. 5992'

Date		3-18-84			
Run No.		ONE			
Depth – Driller		6790'			
Depth-Logger		6791'			
Bottom logged interval		6789'			
Top logged interval		380'			
Type fluid in hole		K C L			
Density	Visc.	8.4	27		
pH	Fluid Loss	9.5	–		
Max rec. temp., deg F.		152 °F	°F	°F	°F
Source of Samples		FLOWLINE			
Rm @ Meas. Temp.		.20 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.		– @ – °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.		– @ – °F	@ °F	@ °F	@ °F
Source Rmf	Source Rmc	–	–		
Time: End Circulation		1030 3-18-84			
Time: Logger on Bottom		2051 3-18-84			
Recorded By		SLATKY, WACH			
Witnessed By		MR. BALLOU			

Run No.	Bore-Hole Record Bit	From	To	Casing Record Size	Wgt.	From	To
ONE	12.25	SURFACE	400'	8 5/8	24	SURFACE	400'
TWO	7-7/8	400'	6790'				

EXHIBIT "B"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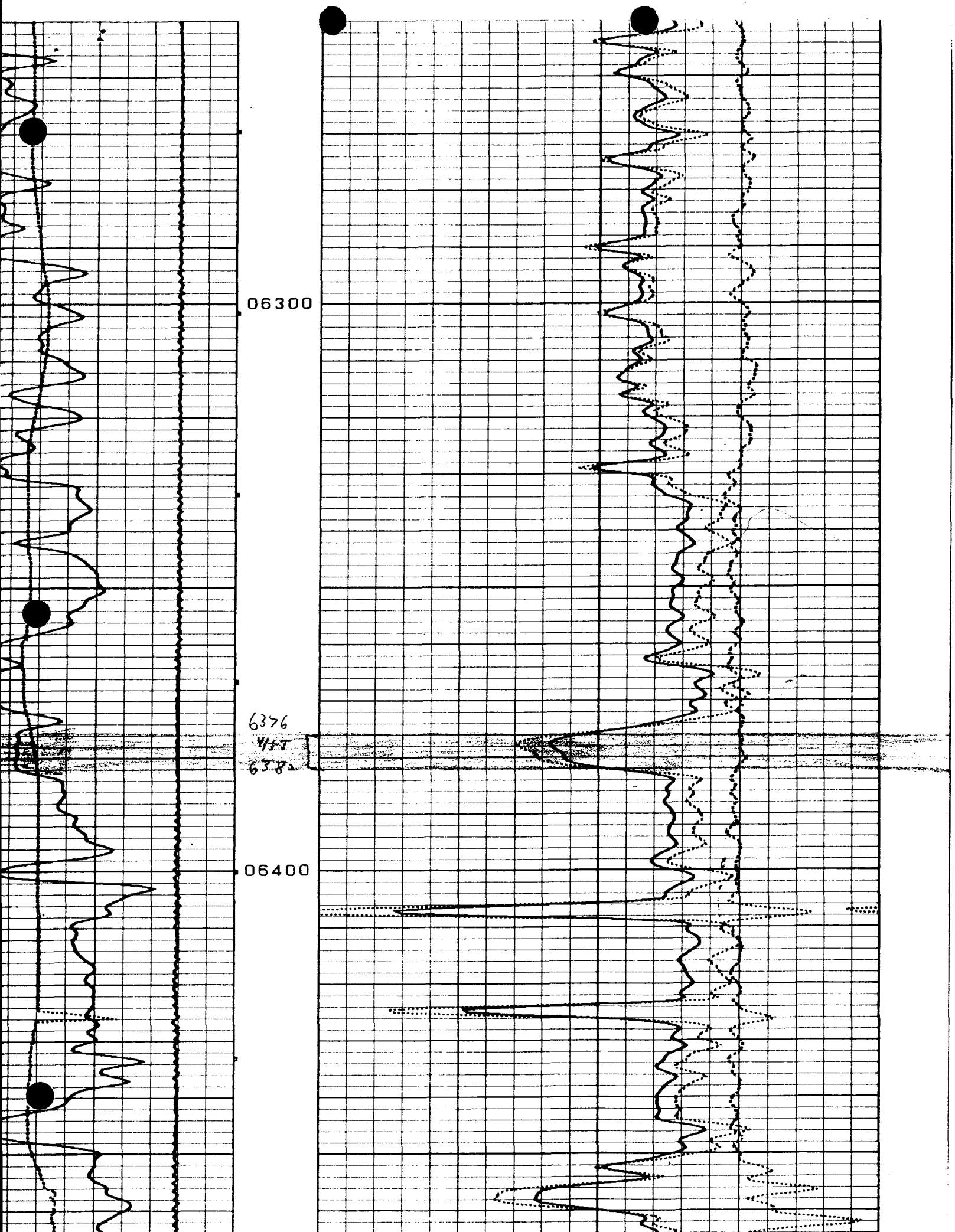
5848
5846
05900


06300
6376
4/4T
6382
06400

GEARHART

DUAL LATEROLOG

FILING NO.	
268667	COMPANY COORS ENERGY COMPANY
	WELL UTE TRIBAL NO. 2-4
	FIELD ANTELOPE CREEK
	COUNTY DUCHESNE STATE UTAH
	LOCATION: 2551' FNL & 1929' FEL LOT 10
	SEC 4 TWP 5S RGE 3W

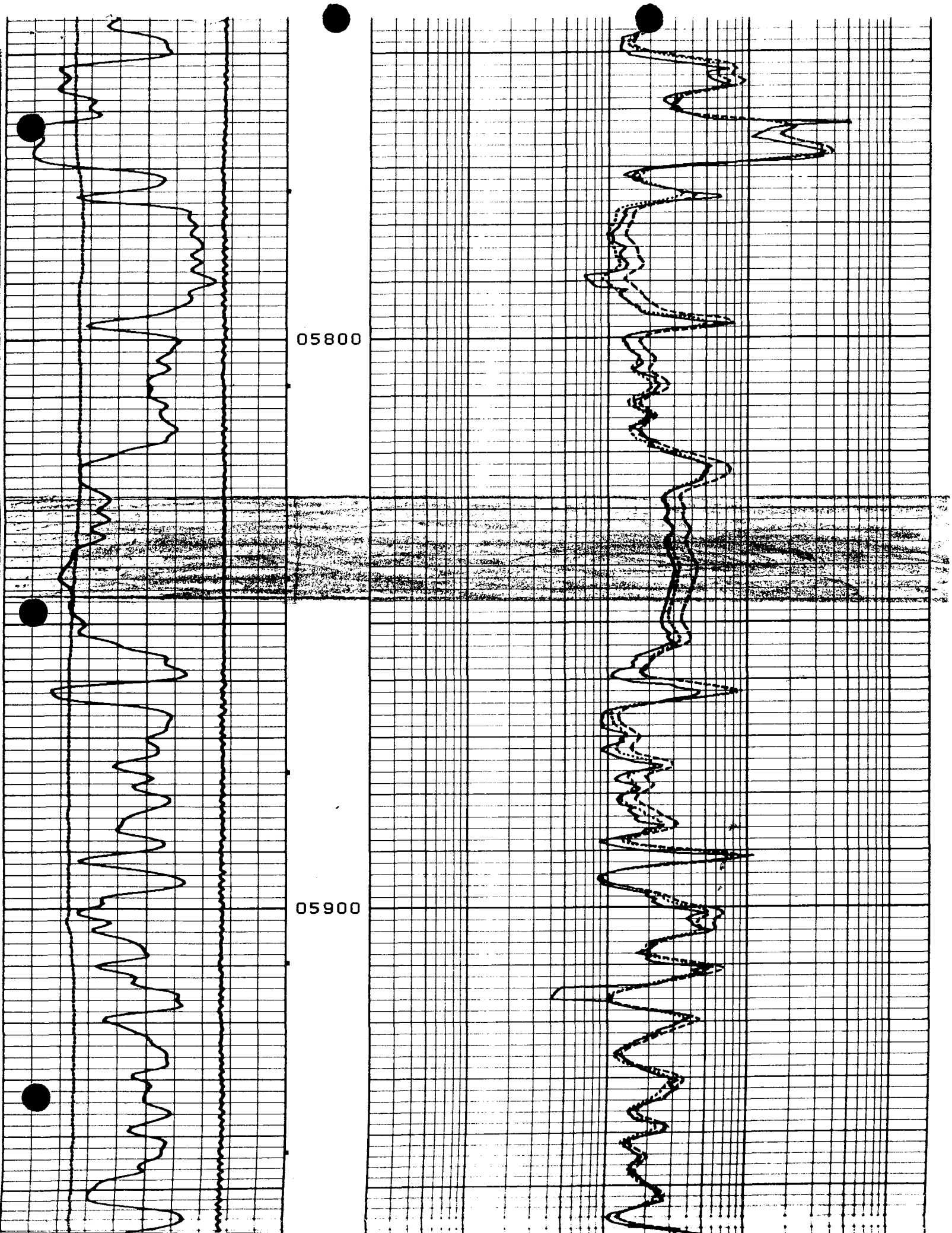
Other Services

Permanent Datum G.L. Elev. 5992'
Log Measured from K.B. , 12 Ft. Above Perm. Datum
Drilling Measured from K.B.

Elev.: K.B. 6004'
D.F. 6003'
G.L. 5992'

Date	3-18-84			
Run No.	ONE			
Depth—Driller	6790'			
Depth—Logger	6791'			
Bottom Logged Interval	6785'			
Top Logged Interval	380'			
Casing—Driller	8 5/8 @ 400'	@	@	@
Casing—Logger	392'			
Bit Size	7.87			
Type Fluid in Hole	KCL			
Density / Viscosity	8.4 / 27			
ph / Fluid Loss	9.5 / – cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.20 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	– @ – °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	– @ – °F	@ °F	@ °F	@ °F
Source of Rmf / Rmc	– / –			
Rm @ BHT	.11 @ 152 °F	@ °F	@ °F	@ °F
Time: End Circulation	1030 3-18-84			
Time: Logger on bottom	1615 3-18-84			
Max. Rec. Temp. Deg. F.	152 °F	°F	°F	°F
Equip. No. / Location	7571 / VERNAL			
Recorded By	SLATKY			
Witnessed By	MR. BALLOU			

EXHIBIT "C"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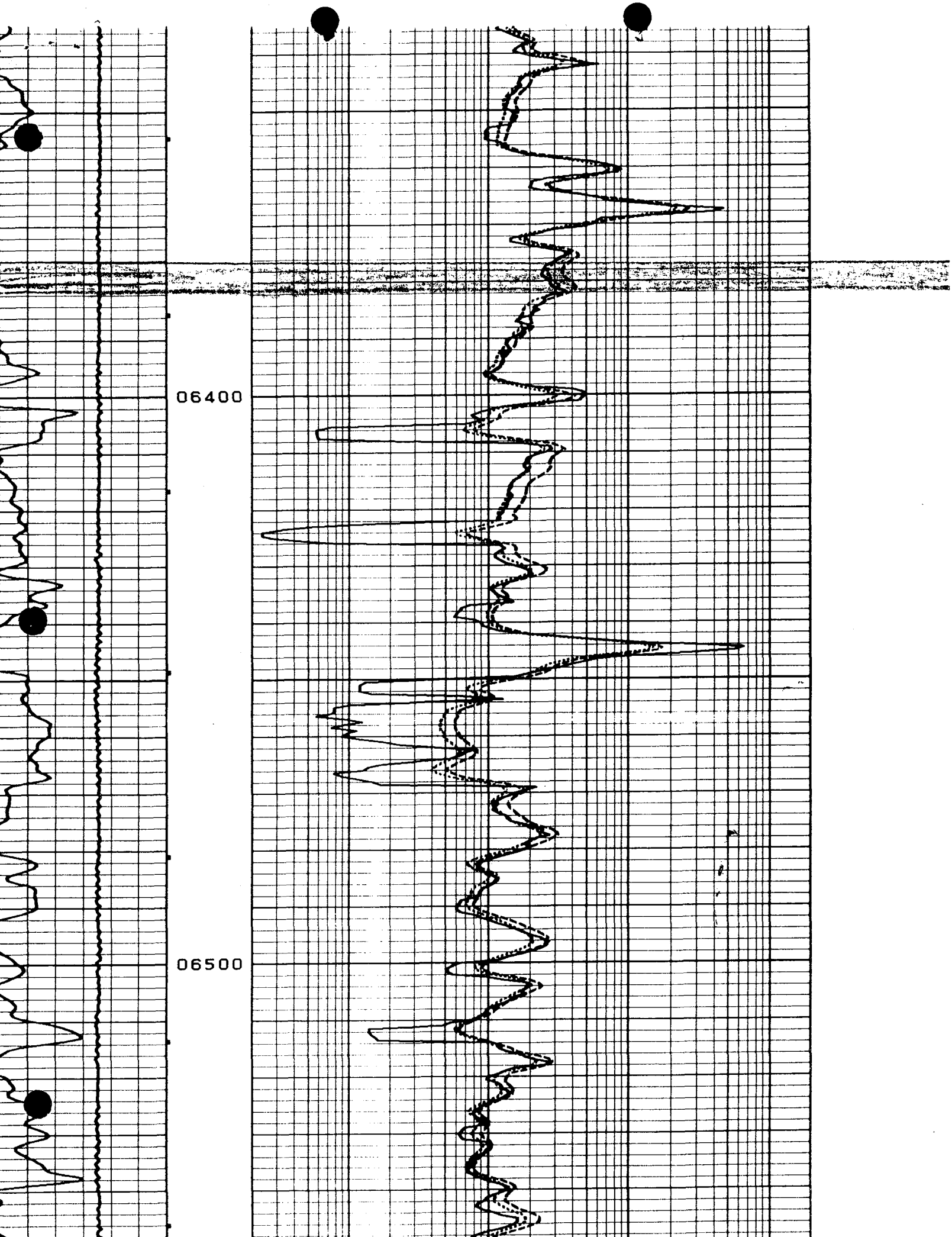
06400
06500

M. RANDY HUBER

P.O. Box 275 Roosevelt, Utah 84066
Bus: (801) 722-9991 Res: (801) 722-3846
Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9717

EXHIBIT "G"

HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28

SOURCE 1-2 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	6.9		
2. H_2S (Qualitative)	17.0 ppm		
3. Specific Gravity	1.000		
4. Dissolved Solids		6634	
5. Suspended Solids			
6. Anaerobic Bacterial Count	10-99 C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		50	
8. Bicarbonate (HCO_3)	HCO_3	1300 ÷61	21 HCO_3
9. Chlorides (Cl)	Cl	2700 ÷35.5	76 Cl
10. Sulfates (SO_4)	SO_4	275 ÷48	6 SO_4
11. Calcium (Ca)	Ca	8 ÷20	1 Ca
12. Magnesium (Mg)	Mg	5 ÷12.2	0 Mg
13. Total Hardness ($CaCO_3$)		40	
14. Total Iron (Fe)		0 ppm	
15. Barium (Qualitative)			
16. Phosphate Residuals	Resistivity ohm meters 1.0 (calc. @ 75°F)		

Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	21
0	Mg	SO_4	6
102	Na	Cl	76

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	20	1680
Na_2SO_4	71.03	0	426
NaCl	58.46	76	4443

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Analysis indicates a calcium carbonate scale

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FLOYD H. COLLETT
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Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9711

HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28

SOURCE 1-4 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	8.3				
2. H_2S (Qualitative)	4.0 ppm				
3. Specific Gravity	1.010				
4. Dissolved Solids		19,138			
5. Suspended Solids					
6. Anaerobic Bacterial Count	100-9999 C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)					
8. Bicarbonate (HCO_3)	HCO_3	1600	÷61	26	HCO_3
9. Chlorides (Cl)	Cl	10,300	÷35.5	290	Cl
Sulfates (SO_4)	SO_4	5	÷48	0	SO_4
1. Calcium (Ca)	Ca	180	÷20	9	Ca
2. Magnesium (Mg)	Mg	15	÷12.2	1	Mg
3. Total Hardness ($CaCO_3$)		510			
4. Total Iron (Fe)		0 ppm			
5. Barium (Qualitative)					
6. Phosphate Residuals	Resistivity ohm meters	.3			

Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

9	Ca	HCO₃	26
1	Mg	SO_4	0
306	Na	Cl	290

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	9	729
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	16	1344
Na_2SO_4	71.03		
NaCl	58.46	290	16,953

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity ohm meters (calc. @ 75°F) 0.32

The INK SPOT Roosevelt Utah

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HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28

SOURCE 1-5 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	8.8				
2. H_2S (Qualitative)	32.0 ppm				
3. Specific Gravity	1.000				
4. Dissolved Solids		5,743			
5. Suspended Solids					
6. Anaerobic Bacterial Count	1-9 C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)		30			
8. Bicarbonate (HCO_3)	HCO_3	1580	÷61	26	HCO_3
9. Chlorides (Cl)	Cl	2150	÷35.5	61	Cl
Sulfates (SO_4)	SO_4	0	÷48	0	SO_4
1. Calcium (Ca)	Ca	0	÷20	0	Ca
2. Magnesium (Mg)	Mg	0	÷12.2	0	Mg
3. Total Hardness ($CaCO_3$)		40			
4. Total Iron (Fe)		0 ppm			
5. Barium (Qualitative)					
6. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

0	Ca	HCO_3	26
0	Mg	SO_4	0
87	Na	Cl	61

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04		
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	26	2184
Na_2SO_4	71.03		
NaCl	58.46	61	3566

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity ohm meters 1.24 (calc. @ 75°F)

SOONER CHEMICALS

SOONER CHEMICAL SPECIALTIES, INC.

Post Office Box 1436 Roosevelt, Utah 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-14--84

SOURCE Ute Tribal 1-6 DATE SAMPLED 5-7-84 ANALYSIS NO. 1611

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.2		
2. H_2S (Qualitative)	3.5		
3. Specific Gravity	1.010		
4. Dissolved Solids		8,000	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1020	
8. Bicarbonate (HCO_3)	HCO_3	1244 ÷61	20 HCO_3
9. Chlorides (Cl)	Cl	5664 ÷35.5	160 Cl
10. Sulfates (SO_4)	SO_4	0 ÷48	0 SO_4
11. Calcium (Ca)	Ca	12 ÷20	1 Ca
12. Magnesium (Mg)	Mg	6 ÷12.2	0 Mg
13. Total Hardness ($CaCO_3$)		56	
14. Total Iron (Fe)		2.0	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	20
0	Mg	SO_4	0
179	Na	Cl	160

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	19	1596
Na_2SO_4	71.03	0	0
NaCl	58.46	160	9354

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 1.240 ohm-meter at 79°F.

Pour Point = 85°F API Gravity = 33.3 at 138°F and 33.94 at 60°F.

SOONER CHEMICALS

SOONER CHEMICAL SPECIALTIES, INC.

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-14-84

SOURCE Ute Tribal 1-7 DATE SAMPLED 8-7-84 ANALYSIS NO. 1612

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.3		
2. H_2S (Qualitative)	5.0		
3. Specific Gravity	1.010		
4. Dissolved Solids		7,800	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		610	
8. Bicarbonate (HCO_3)	HCO_3	744 ÷61	12 HCO_3
9. Chlorides (Cl)	Cl	6,372 ÷35.5	179 Cl
10. Sulfates (SO_4)	SO_4	0 ÷48	0 SO_4
11. Calcium (Ca)	Ca	40 ÷20	2 Ca
12. Magnesium (Mg)	Mg	12 ÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		150	
14. Total Iron (Fe)		1.5	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

2	Ca	HCO_3	12
1	Mg	SO_4	0
188	Na	Cl	179

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	2	162
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	9	756
Na_2SO_4	71.03		
NaCl	58.46	179	10,464

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.825 ohm-meter at 78°F.

Oil Pour Point = 83°F. API Gravity = 45 at 138°F and 38.8 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-15-84

SOURCE Ute Tribal 1-8 DATE SAMPLED 8-7-84 ANALYSIS NO. 1620

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.7		
2. H_2S (Qualitative)	22		
3. Specific Gravity	1.010		
4. Dissolved Solids		9,800	
5. Suspended Solids			
6. Anaerobic Bacterial Count	C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		~~618~~ 680	
8. Bicarbonate (HCO_3)	HCO_3	830 ÷61	14 HCO_3
9. Chlorides (Cl)	Cl	7,788 ÷35.5	219 Cl
10. Sulfates (SO_4)	SO_4	450 ÷48	9 SO_4
11. Calcium (Ca)	Ca	24 ÷20	1 Ca
12. Magnesium (Mg)	Mg	29 ÷12.2	2 Mg
13. Total Hardness ($CaCO_3$)		180	
14. Total Iron (Fe)		2.0	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	14
2	Mg	SO_4	9
239	Na	Cl	219

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	2	146
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	11	924
Na_2SO_4	71.03	9	639
NaCl	58.46	219	12,803

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.780 ohm-meter at 78°F.

Oil Pour Point = 84°F. API Gravity = 38.6 at 140°F. and 32.84 at 60°F.

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HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-26

SOURCE 1-10 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.7		
2. H_2S (Qualitative)	6.5 ppm		
3. Specific Gravity	1.001		
4. Dissolved Solids		10,873	
5. Suspended Solids			
6. Anaerobic Bacterial Count	1-9 C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)			
8. Bicarbonate (HCO_3)	HCO_3	30 ÷61	40 HCO_3
9. Chlorides (Cl)	Cl	2420 ÷35.5	125 Cl
Sulfates (SO_4)	SO_4	4450 ÷48	3 SO_4
1. Calcium (Ca)	Ca	165 ÷20	1 Ca
2. Magnesium (Mg)	Mg	24 ÷12.2	2 Mg
3. Total Hardness ($CaCO_3$)		19	
4. Total Iron (Fe)		140	
5. Barium (Qualitative)		0	
6. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO₃	40
2	Mg	SO₄	3
165	Na	Cl	125

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	84
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	2	146
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	37	3108
Na_2SO_4	71.03	3	213
NaCl	58.46	125	7308

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity ohm meters .605 (calc. @ 75°F)

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-21-84

SOURCE 1-16 DATE SAMPLED 8-16-84 ANALYSIS NO. 1630

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	8.3				
2. H_2S (Qualitative)	12				
3. Specific Gravity	1.010				
4. Dissolved Solids		9,015			
5. Suspended Solids					
6. Anaerobic Bacterial Count	C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)		1160			
8. Bicarbonate (HCO_3)	HCO_3	1415	÷61	23	HCO_3
9. Chlorides (Cl)	Cl	6372	÷35.5	179	Cl
Sulfates (SO_4)	SO_4	0	÷48	0	SO_4
11. Calcium (Ca)	Ca	36	÷20	2	Ca
12. Magnesium (Mg)	Mg	15	÷12.2	1	Mg
13. Total Hardness ($CaCO_3$)		150			
14. Total Iron (Fe)		1.1			
15. Barium (Qualitative)		0			
16. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

2	Ca	HCO_3	23
1	Mg	SO_4	0
199	Na	Cl	179

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	2	162
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	20	1680
Na_2SO_4	71.03		
NaCl	58.46	179	10,464

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.500 ohm-meter at 74° F.

Oil Gr. at 60° F. = 33 Pour point = 83° F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-15-84

SOURCE Ute Tribal 1-17 DATE SAMPLED 8-7-84 ANALYSIS NO. 1616

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.6		
2. H_2S (Qualitative)	10		
3. Specific Gravity	1.010		
4. Dissolved Solids		~~1060~~ 14,600	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1060	
8. Bicarbonate (HCO_3)	HCO_3	1293 ÷61	21 HCO_3
9. Chlorides (Cl)	Cl	12036 ÷35.5	339 Cl
10. Sulfates (SO_4)	SO_4	50 ÷48	1 SO_4
11. Calcium (Ca)	Ca	20 ÷20	1 Ca
12. Magnesium (Mg)	Mg	0 ÷12.2	0 Mg
13. Total Hardness ($CaCO_3$)		50	
14. Total Iron (Fe)		1.0	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	21
0	Mg	SO_4	1
360	Na	Cl	339

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	20	1680
Na_2SO_4	71.03	1	71
NaCl	58.46	339	19,819

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.410 ohm=meter at 79° F

Oil Pour Point 76°F. API Gravity = 38.6 at 140° F and 32.84 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-15-84

SOURCE Ute Tribal 1-18 DATE SAMPLED 8-7-84 ANALYSIS NO. 1619

	Analysis		Mg/l (ppm)			*Meq/l
1. PH	7.8					
2. H_2S (Qualitative)	7.0					
3. Specific Gravity	1.010					
4. Dissolved Solids			2420			
5. Suspended Solids						
6. Anaerobic Bacterial Count	_____ C/Ml					
7. Methyl Orange Alkalinity ($CaCO_3$)			420			
8. Bicarbonate (HCO_3)		HCO_3	512	÷61	8	HCO_3
9. Chlorides (Cl)		Cl	~~96~~ 708	÷35.5	20	Cl
10. Sulfates (SO_4)		SO_4	0	÷48	0	SO_4
11. Calcium (Ca)		Ca	96	÷20	5	Ca
12. Magnesium (Mg)		Mg	34	÷12.2	3	Mg
13. Total Hardness ($CaCO_3$)			380			
14. Total Iron (Fe)			1.8			
15. Barium (Qualitative)			0			
16. Phosphate Residuals						

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

5	Ca	HCO₃	8
3	Mg	SO₄	0
20	Na	Cl	20

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
$Ca(HCO_3)_2$	81.04		5		405
$CaSO_4$	68.07				
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17		3		220
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00				
Na_2SO_4	71.03				
NaCl	58.46		20		1169

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 2.10 ohm-meter at 77° F.

Oil Pour Point = 81° F. API Gravity = 38 at 148° F. and 31.8 at 60°F.

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HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28-84

SOURCE 1-15 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)			*Meq/l	
1. PH	9.2					
2. H_2S (Qualitative)	8.0 ppm					
3. Specific Gravity	1.010					
4. Dissolved Solids		21,301				
5. Suspended Solids						
6. Anaerobic Bacterial Count	100-9999 C/Ml					
7. Methyl Orange Alkalinity ($CaCO_3$)		25				
8. Bicarbonate (HCO_3)		HCO_3 1020	÷61		27	HCO_3
9. Chlorides (Cl)		Cl 11,000	÷35.5		327	Cl
Sulfates (SO_4)		SO_4 10	÷48		0	SO_4
1. Calcium (Ca)		Ca 12	÷20		1	Ca
2. Magnesium (Mg)		Mg 0	÷12.2		0	Mg
3. Total Hardness ($CaCO_3$)		24				
4. Total Iron (Fe)		0				
5. Barium (Qualitative)						
6. Phosphate Residuals						

Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	27
0	Mg	SO_4	0
353	Na	Cl	327

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	84
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	26	2184
Na_2SO_4	71.03		
NaCl	58.46	327	19,116

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity ohm meters (calc. @ 75° F) 0.295

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-15-84

SOURCE Ute Tribal 1-20 DATE SAMPLED 8-7-84 ANALYSIS NO. 1615

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.7		
2. H_2S (Qualitative)	9.0		
3. Specific Gravity	1.010		
4. Dissolved Solids		11,200	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1420	
8. Bicarbonate (HCO_3)	HCO_3	1732 ÷61	28 HCO_3
9. Chlorides (Cl)	Cl	7788 ÷35.5	219 Cl
10. Sulfates (SO_4)	SO_4	50 ÷48	1 SO_4
11. Calcium (Ca)	Ca	140 ÷20	7 Ca
12. Magnesium (Mg)	Mg	38 ÷12.2	3 Mg
13. Total Hardness ($CaCO_3$)		510	
14. Total Iron (Fe)		1.6	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

7	Ca	HCO_3	28
3	Mg	SO_4	1
238	Na	Cl	219

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	7	567
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	3	220
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	18	1512
Na_2SO_4	71.03	1	71
NaCl	58.46	219	12,803

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.680 ohm-meter at 79°F

Oil Pour Point 36°F. API Gravity = 44.8 at 130°F. and 39.24 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 1-23-85

SOURCE Ute 1-21 DATE SAMPLED 1-20-85 ANALYSIS NO. 1671

	Analysis		Mg/l (ppm)			*Meq/l
1. PH	7.2					
2. H_2S (Qualitative)	2.0					
3. Specific Gravity	1.017					
4. Dissolved Solids			16,800			
5. Suspended Solids						
6. Anaerobic Bacterial Count	_____ C/Ml					
7. Methyl Orange Alkalinity ($CaCO_3$)			1060			
8. Bicarbonate (HCO_3)		HCO_3	1293	÷61	21	HCO_3
9. Chlorides (Cl)		Cl	13,452	÷35.5	379	Cl
10. Sulfates (SO_4)		SO_4	300	÷48	6	SO_4
11. Calcium (Ca)		Ca	240	÷20	12	Ca
12. Magnesium (Mg)		Mg	0	÷12.2	0	Mg
13. Total Hardness ($CaCO_3$)			600			
14. Total Iron (Fe)			18.0			
15. Barium (Qualitative)			0			
16. Phosphate Residuals						

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

12	Ca	HCO_3	21
0	Mg	SO_4	6
394	Na	Cl	379

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
$Ca(HCO_3)_2$	81.04		12		972
$CaSO_4$	68.07				
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17				
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00		9		756
Na_2SO_4	71.03		6		426
NaCl	58.46		379		22,156

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.330 ohm-meter at 70° F.

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HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

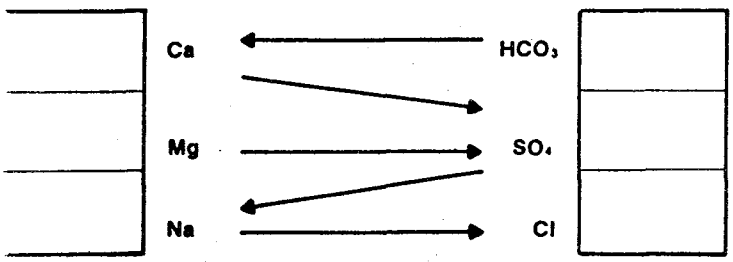
COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28-84

SOURCE 1-28 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.9		
2. H_2S (Qualitative)	2.0 ppm.		
3. Specific Gravity	1.015		
4. Dissolved Solids		26,050	
5. Suspended Solids			
6. Anaerobic Bacterial Count	0 C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		20	
8. Bicarbonate (HCO_3)	HCO_3	860 ÷61	14 HCO_3
9. Chlorides (Cl)	Cl	17,100 ÷35.5	482 Cl
Sulfates (SO_4)	SO_4	20 ÷48	0 SO_4
1. Calcium (Ca)	Ca	60 ÷20	3 Ca
2. Magnesium (Mg)	Mg	17 ÷12.2	1 Mg
3. Total Hardness ($CaCO_3$)		220	
4. Total Iron (Fe)		0	
5. Barium (Qualitative)			
6. Phosphate Residuals			

Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	3	243
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	10	840
Na_2SO_4	71.03		
NaCl	58.46	464	27,125

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resist (ohm meters) (calc @ 75° F)

The INK SPOT Roosevelt Utah

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HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 1-24-85

SOURCE 1-29 DATE SAMPLED 1-23-85 ANALYSIS NO.

	Analysis		Mg/l (ppm)		*Meq/l	
1. PH	8.5					
2. H_2S (Qualitative)	2.5 ppm.					
3. Specific Gravity	1.010					
4. Dissolved Solids			13,270			
5. Suspended Solids						
6. Anaerobic Bacterial Count		C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)			500			
8. Bicarbonate (HCO_3)		HCO_3	630	÷61	10	HCO_3
9. Chlorides (Cl)		Cl	7550	÷35.5	213	Cl
Sulfates (SO_4)		SO_4	0	÷48	0	SO_4
1. Calcium (Ca)		Ca	144	÷20	7	Ca
2. Magnesium (Mg)		Mg	24	÷12.2	2	Mg
3. Total Hardness ($CaCO_3$)			460			
4. Total Iron (Fe)			0			
5. Barium (Qualitative)						
6. Phosphate Residuals						

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

7	Ca	HCO_3	10
2	Mg	SO_4	0
214	Na	Cl	213

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	7	567
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	2	146
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	1	84
Na_2SO_4	71.03	213	12,452
NaCl	58.46		

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS

M. RANDY HUBER
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HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy Co. ADDRESS Roosevelt DATE: 1-14-85

SOURCE 1-30 DATE SAMPLED 1-23-85 ANALYSIS NO.

	Analysis		Mg/l (ppm)		*Meq/l	
1. PH	8.5 (Lab)					
2. H_2S (Qualitative)	9 (Lab)					
3. Specific Gravity	1.009					
4. Dissolved Solids			11,433			
5. Suspended Solids			ND			
6. Anaerobic Bacterial Count	ND C/Ml					
7. ~~Methyl Orange Alkalinity ($CaCO_3$)~~ Carbonate (CO_3)			80	÷ 60	1	CO_3
8. Bicarbonate (HCO_3)		HCO_3	1,820	÷61	30	HCO_3
9. Chlorides (Cl)		Cl	5,350	÷35.5	151	Cl
Sulfates (SO_4)		SO_4	10	÷48	0	SO_4
1. Calcium (Ca)		Ca	16	÷20	1	Ca
2. Magnesium (Mg)		Mg	17	÷12.2	1	Mg
3. Total Hardness ($CaCO_3$)			110			
4. Total Iron (Fe)			0			
5. Barium (Qualitative)			ND			
6. Phosphate Residuals			ND			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Ca	1
Mg	1
Na	180

HCO_3	31
SO_4	0
Cl	151

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	29	2,436
Na_2SO_4	71.03		
NaCl	58.46	151	8,827

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS

TLL:rb

The INK SPOT · Roosevelt, Utah

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HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors energy ADDRESS Roosevelt DATE: 8/28

SOURCE 1-21 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	8.0				
2. H_2S (Qualitative)	62.0 ppm				
3. Specific Gravity	1.005				
4. Dissolved Solids		15,571			
5. Suspended Solids					
6. Anaerobic Bacterial Count	1-9 C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)		5			
8. Bicarbonate (HCO_3)		HCO_3 680	÷61	11	HCO_3
9. Chlorides (Cl)		Cl 8,900	÷35.5	251	Cl
10. Sulfates (SO_4)		SO_4 5	÷48	0	SO_4
11. Calcium (Ca)		Ca 168	÷20	8	Ca
12. Magnesium (Mg)		Mg 22	÷12.2	2	Mg
13. Total Hardness ($CaCO_3$)		510			
14. Total Iron (Fe)		0			
15. Barium (Qualitative)					
16. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

8	Ca	HCO_3	11
2	Mg	SO_4	0
252	Na	Cl	251

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	8	648
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	2	140
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	1	84
Na_2SO_4	71.03		
NaCl	58.46	251	14,073

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resist ohm meters (calc. @ 75°F) 0.385

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HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

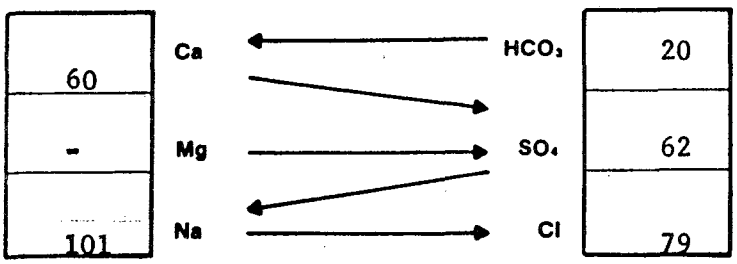
COMPANY Coors Energy ADDRESS Roosevelt DATE: 1-24-85

SOURCE 1-AA33 DATE SAMPLED 1-23-85 ANALYSIS NO.

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	9.2		
2. H_2S (Qualitative)	16.0 ppm.		
3. Specific Gravity	1.000		
4. Dissolved Solids		10,438	
5. Suspended Solids			
6. Anaerobic Bacterial Count	C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1000	
8. Bicarbonate (HCO_3)	HCO_3	1220 ÷61	20 HCO_3
9. Chlorides (Cl)	Cl	2832 ÷35.5	79 Cl
10. Sulfates (SO_4)	SO_4	3000 ÷48	62 SO_4
11. Calcium (Ca)	Ca	120 ÷20	60 Ca
12. Magnesium (Mg)	Mg	÷12.2	Mg
13. Total Hardness ($CaCO_3$)			
14. Total Iron (Fe)		0 ppm.	
15. Barium (Qualitative)			
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
$Ca(HCO_3)_2$	81.04		20		1620
$CaSO_4$	68.07		40		2722
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17				
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00				
Na_2SO_4	71.03		22		1562
NaCl	58.46		79		4618

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS

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HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28

SOURCE 2-4 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	7.9				
2. H_2S (Qualitative)	1.0 ppm				
3. Specific Gravity	1.002				
4. Dissolved Solids		11,616			
5. Suspended Solids					
6. Anaerobic Bacterial Count	100-9999 C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)					
8. Bicarbonate (HCO_3)		HCO_3 1000	÷61	16	HCO_3
9. Chlorides (Cl)		Cl 6700	÷35.5	177	Cl
Sulfates (SO_4)		SO_4 5	÷48	0	SO_4
1. Calcium (Ca)		Ca 52	÷20	3	Ca
2. Magnesium (Mg)		Mg 12	÷12.2	1	Mg
3. Total Hardness ($CaCO_3$)		180			
4. Total Iron (Fe)		0			
5. Barium (Qualitative)					
6. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

3	Ca	HCO_3	16
1	Mg	SO_4	0
189	Na	Cl	177

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	3	243
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	12	1008
Na_2SO_4	71.03		
NaCl	58.46	177	10,342

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

Resistivity ohm meters 0.52 (calc. @ 75°F)

REMARKS

The INK SPOT · Roosevelt, Utah

SOONER CHEMICALS

SOONER CHEMICAL SPECIALTIES, INC.

Post Office Box 1436 Roosevelt, Utah 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-14-84

SOURCE Ute Tribal 2-5 DATE SAMPLED 8-7-84 ANALYSIS NO. 1610

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.9		
2. H_2S (Qualitative)	9.0		
3. Specific Gravity	1.010		
4. Dissolved Solids		12,300	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1270	
8. Bicarbonate (HCO_3)	HCO_3	1549 ÷61	25 HCO_3
9. Chlorides (Cl)	Cl	9204 ÷35.5	259 Cl
10. Sulfates (SO_4)	SO_4	0 ÷48	0 SO_4
11. Calcium (Ca)	Ca	28 ÷20	1 Ca
12. Magnesium (Mg)	Mg	10 ÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		110	
14. Total Iron (Fe)		2.0	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	25
1	Mg	SO_4	0
282	Na	Cl	259

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	23	1932
Na_2SO_4	71.03		
NaCl	58.46	259	18,397

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.510 ohm-meter at 78°F.

Pour Point = 84°F. API Gravity = 41.4 at 136°F and 36.66 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-14-84

SOURCE Ute Tribal 2-7 DATE SAMPLED 8-7-84 ANALYSIS NO. 1614

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.65		
2. H_2S (Qualitative)	6.5		
3. Specific Gravity	1.015		
4. Dissolved Solids		13,150	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		1100	
8. Bicarbonate (HCO_3)	HCO_3	1342 ÷61	22 HCO_3
9. Chlorides (Cl)	Cl	10,620 ÷35.5	299 Cl
10. Sulfates (SO_4)	SO_4	0 ÷48	0 SO_4
11. Calcium (Ca)	Ca	24 ÷20	1 Ca
12. Magnesium (Mg)	Mg	7 ÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		90	
14. Total Iron (Fe)		1.3	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	22
1	Mg	SO_4	0
319	Na	Cl	299

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	20	1680
Na_2SO_4	71.03		
NaCl	58.46	299	17,480

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.440 ohm-meter at 79°F.

Oil Pour Point = 84°F. API Gravity = 42.4 at 135°F and 36.66 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-14-84

SOURCE Ute Tribal 2-8 DATE SAMPLED 8-7-84 ANALYSIS NO. 1613

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.9		
2. H_2S (Qualitative)	8.5		
3. Specific Gravity	1.005		
4. Dissolved Solids		3,000	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		560	
8. Bicarbonate (HCO_3)	HCO_3	684 ÷61	11 HCO_3
9. Chlorides (Cl)	Cl	708 ÷35.5	20 Cl
10. Sulfates (SO_4)	SO_4	1200 ÷48	25 SO_4
11. Calcium (Ca)	Ca	12 ÷20	1 Ca
12. Magnesium (Mg)	Mg	15 ÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		90	
14. Total Iron (Fe)		1.0	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	11
1	Mg	SO_4	25
54	Na	Cl	20

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	9	756
Na_2SO_4	71.03	25	1775
NaCl	58.46	20	1169

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 1.650 ohm-meter at 78° F.

OilPour point = 82°F. API Gravity 38.6 at 126°F. and 33.84 at 60°F.

SOONER CHEMICALS

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WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS DATE: 8-15-84

SOURCE Ute Tribal 2-20 DATE SAMPLED 8-7-84 ANALYSIS NO. 1617

	Analysis	Mg/l (ppm)			*Meq/l
1. PH	7.4				
2. H_2S (Qualitative)	2.0				
3. Specific Gravity	1.010				
4. Dissolved Solids		12,900			
5. Suspended Solids					
6. Anaerobic Bacterial Count	C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)		320			
8. Bicarbonate (HCO_3)	HCO_3	405	÷61	7	HCO_3
9. Chlorides (Cl)	Cl	11,328	÷35.5	319	Cl
10. Sulfates (SO_4)	SO_4	0	÷48	0	SO_4
11. Calcium (Ca)	Ca	48	÷20	2	Ca
12. Magnesium (Mg)	Mg	117	÷12.2	10	Mg
13. Total Hardness ($CaCO_3$)		600			
14. Total Iron (Fe)		2.5			
15. Barium (Qualitative)		0			
16. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

2	Ca	HCO_3	7
10	Mg	SO_4	0
314	Na	Cl	319

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	2	162
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	5	366
$MgSO_4$	60.19		
$MgCl_2$	47.62	5	238
$NaHCO_3$	84.00		
Na_2SO_4	71.03		
NaCl	58.46	314	18,356

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.480 ohm-meter at 79°F.

Oil Pour Point 93°F. API Gravity = 42.3 at 139° F and 36.72 at 60° F.

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HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

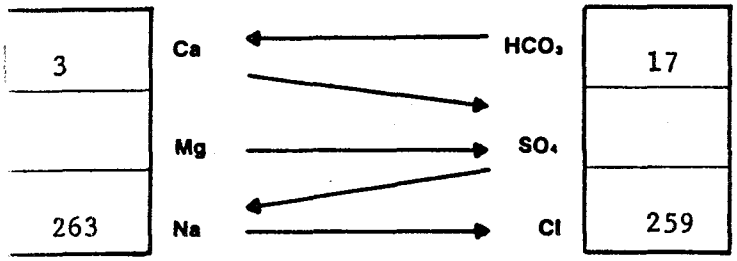
COMPANY Coors Energy ADDRESS Roosevelt DATE: 1-24-85

SOURCE 3-4 DATE SAMPLED 1-23-85 ANALYSIS NO.

	Analysis		Mg/l (ppm)			*Meq/l	
1. PH	8.3						
2. H_2S (Qualitative)	2.5 ppm.						
3. Specific Gravity	1.010						
4. Dissolved Solids			16,550				
5. Suspended Solids							
6. Anaerobic Bacterial Count		C/Ml					
7. Methyl Orange Alkalinity ($CaCO_3$)			800				
8. Bicarbonate (HCO_3)		HCO_3	1073	÷61		17	HCO_3
9. Chlorides (Cl)		Cl	9204	÷35.5		259	Cl
Sulfates (SO_4)		SO_4		÷48			SO_4
1. Calcium (Ca)		Ca	60	÷20		3	Ca
2. Magnesium (Mg)		Mg		÷12.2			Mg
3. Total Hardness ($CaCO_3$)							
4. Total Iron (Fe)			1.0 ppm.				
5. Barium (Qualitative)							
6. Phosphate Residuals							

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	3	243
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	14	1176
Na_2SO_4	71.03		
NaCl	58.46	259	15,141

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS

SOONER CHEMICALS

SOONER CHEMICAL SPECIALTIES, INC.

Post Office Box 1436 Roosevelt, Utah 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS _____ DATE: 8-15-84

SOURCE Ute Tribal 3--7 DATE SAMPLED 8-7-84 ANALYSIS NO. 1618

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.75		
2. H_2S (Qualitative)	2.0		
3. Specific Gravity	1.012		
4. Dissolved Solids		12,390	
5. Suspended Solids			
6. Anaerobic Bacterial Count	_____ C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)		460	
8. Bicarbonate (HCO_3)	HCO_3	561 ÷61	9 HCO_3
9. Chlorides (Cl)	Cl	11,328 ÷35.5	319 Cl
10. Sulfates (SO_4)	SO_4	0 ÷48	0 SO_4
11. Calcium (Ca)	Ca	24 ÷20	1 Ca
12. Magnesium (Mg)	Mg	7 ÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		90	
14. Total Iron (Fe)		2.6	
15. Barium (Qualitative)		0	
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	9
1	Mg	SO_4	0
326	Na	Cl	319

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	7	588
Na_2SO_4	71.03	0	0
NaCl	58.46	319	18,649

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.490 ohm-meter at 78° F.

Oil Pour Point = 82°F API Gravity = 39.2 at 138°F. AND 33.58 at 60°F.

M. RANDY HUBER

P.O. Box 275 Roosevelt, Utah 84066
Bus: (801) 722-9991 Res: (801) 722-3846
Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9717

FLOYD H. COLLETT

P.O. Box 275 Roosevelt, Utah 84066
Bus: (801) 722-9991 Res: (801) 722-3832
Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9711

HUCO CHEMICALS

OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

COMPANY Coors Energy ADDRESS Roosevelt DATE: 8-28

SOURCE 4-4 DATE SAMPLED 8-13-84 ANALYSIS NO.

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.3		
2. H_2S (Qualitative)	5.0 ppm		
3. Specific Gravity	1.005		
4. Dissolved Solids		15,355	
5. Suspended Solids			
6. Anaerobic Bacterial Count	100-9999 C/Ml		
7. Methyl Orange Alkalinity ($CaCO_3$)			
8. Bicarbonate (HCO_3)		HCO_3 1360 ÷61	22 HCO_3
9. Chlorides (Cl)		Cl 8200 ÷35.5	231 Cl
Sulfates (SO_4)		SO_4 0 ÷48	0 SO_4
1. Calcium (Ca)		Ca 50 ÷20	3 Ca
2. Magnesium (Mg)		Mg 12 ÷12.2	1 Mg
3. Total Hardness ($CaCO_3$)		190	
4. Total Iron (Fe)		0	
5. Barium (Qualitative)			
6. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

3	Ca	HCO₃	22
1	Mg	SO_4	0
249	Na	Cl	231

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	3	243
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	18	1512
Na_2SO_4	71.03		
NaCl	58.46	231	13,504

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity ohm meters 0.405 (calc. @ 75°F)

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

AFFIDAVIT OF EXHIBIT "H"

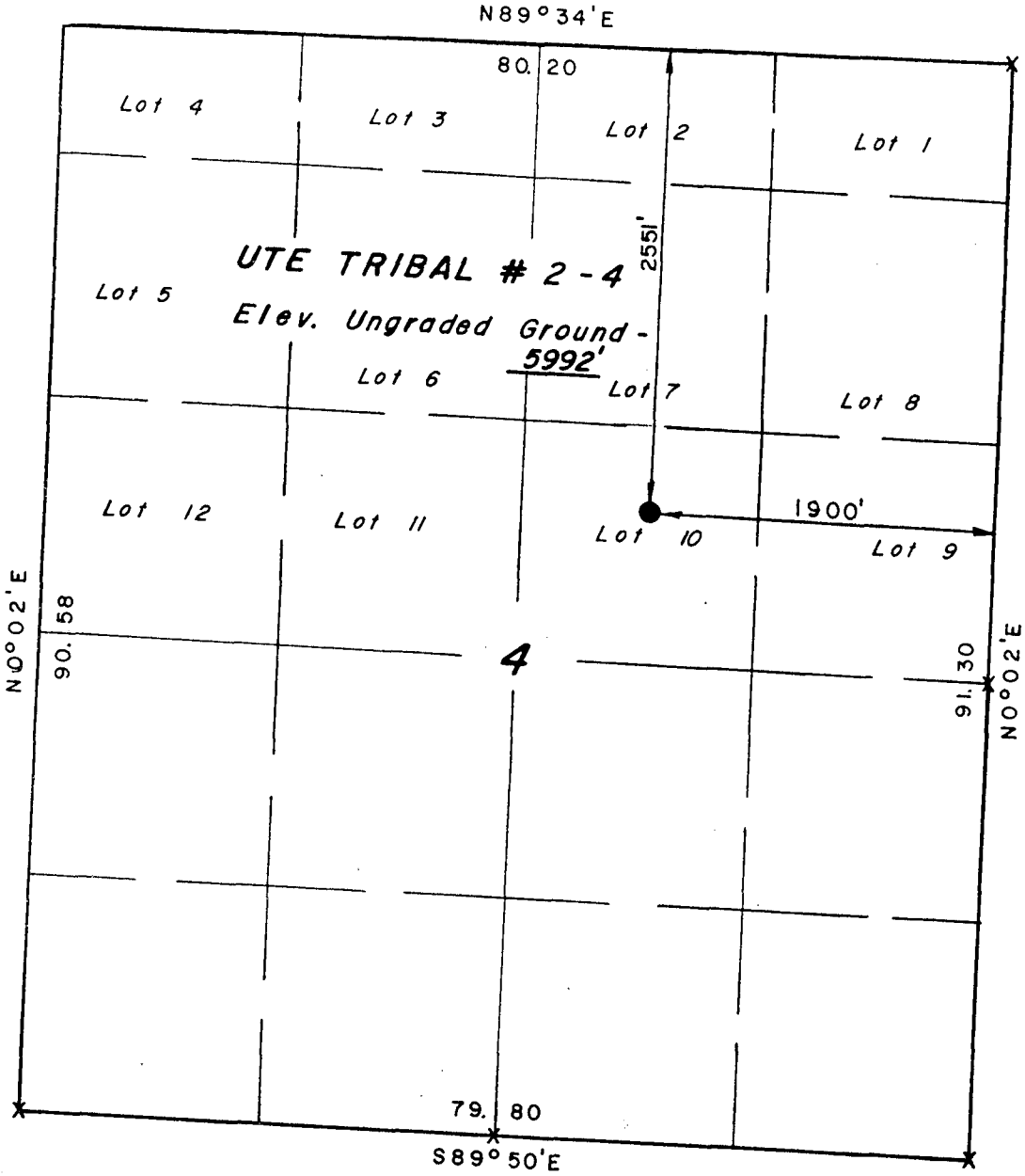
I hereby certify that the statements made in this plan are, to the best of my knowledge, true, complete, and correct; and that the work associated with this plan will be carried on by Coors Energy Company, and its contractors and subcontractors, in conformity with the plan and the terms and conditions under which it is approved.

Coors Energy Company will abide by all rules of the Utah Oil, Gas & Mining Board pertaining to Class II injection wells including operating requirements under Rule I-6, Monitoring and Reporting Requirements under Rule I-7, duration of underground injection under Rule I-8 and transfer of authority to inject under Rule I-9.

2-15-85
Date

R. L. Martin
Vice President, Oil & Gas Operations

T 5 S, R 3 W, U.S.B. & M.



X = Section Corners Located

PROJECT

COORS ENERGY CO.

Well location, *UTE TRIBAL #2-4*, located as shown in Lot 10, Section 4, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

EXHIBIT "I"

CERTIFICATE

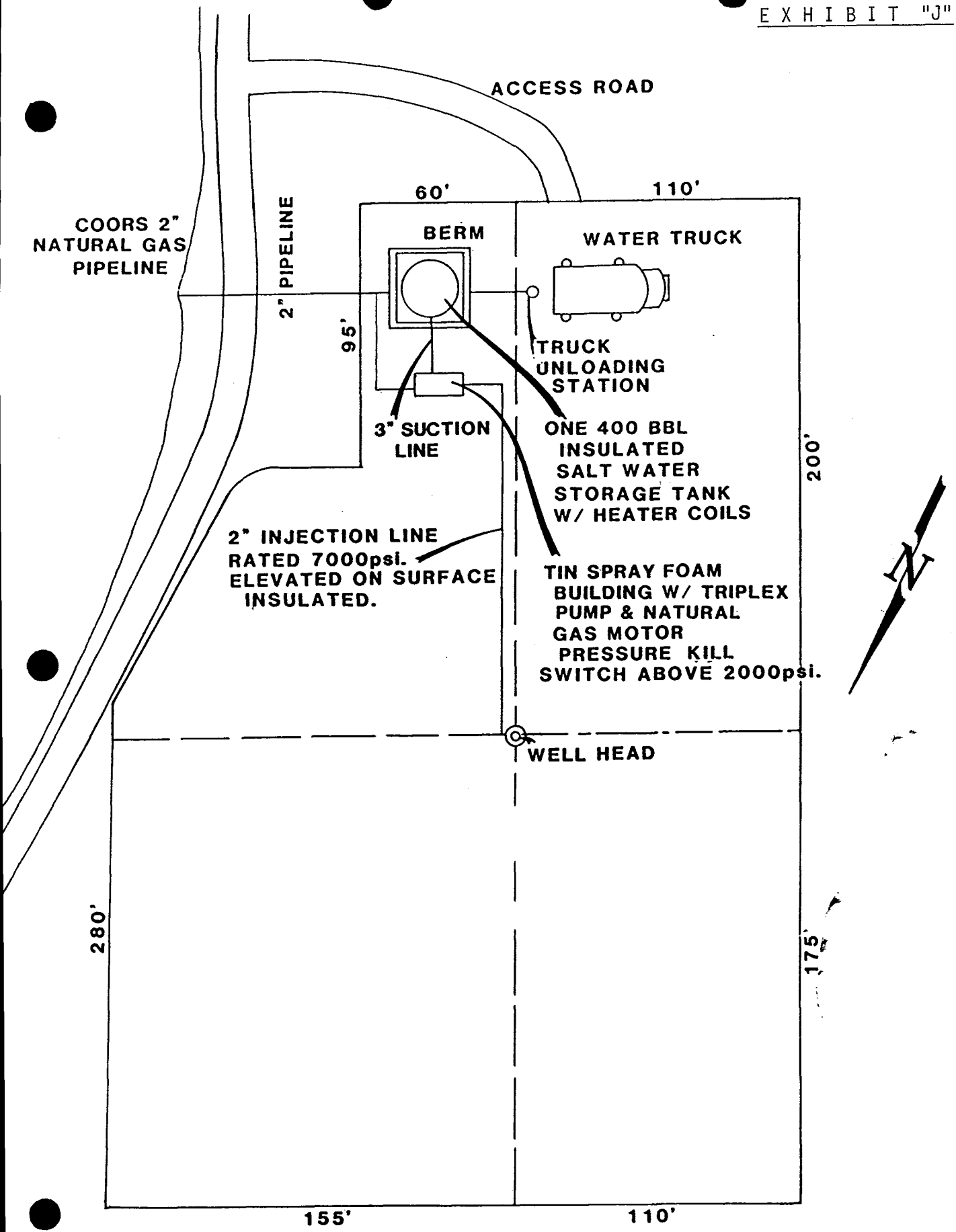
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION № 3137
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 9/21/83
PARTY DB JF RP	REFERENCES GLO Plat
WEATHER FAIR	FILE COORS ENERGY

EXHIBIT "J"



SALT WATER INJECTION FACILITY

UTE TRIBAL #2-4

SEC. 4 T5S R3W DUCHESNE COUNTY, UTAH

UTE TRIBAL 2-4

CERTIFICATE OF MAILING

The undersigned hereby certifies that on this date _____, I have mailed by Certified Mail, Return Receipt Requested, Postage Prepaid, a copy of the attached Notice, Application and survey plat, without Exhibits, for the Coors Energy Saltwater disposal well to the following persons:

Gulf Oil Corporation
PO Box 2619
Casper, Wyoming 82602

State of Utah
Division of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Ute Indian Tribe
Energy & Mineral Division
PO Box 190
Ft. Duchesne, Utah 84026

United States Dept. of the Interior
Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Karen Rohrer
Karen Rohrer
Secretary
Oil & Gas Operations

2-15-85
Date

Sworn to before me and subscribed in my presence this 15th day of February, 1985.

My Commission Expires July 18, 1988

Notary Public

P.O. Box 467
Business Address

Golden, Colo. 80402

EXHIBIT "K"

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

(See other instructions on reverse side)

56 04 01

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Coors Energy Company (303) 278-7030

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 2551'FNL, 1900'FEL, SW/4NW/4
At top prod. interval reported below: same
At total depth: same

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe
7. UNIT AGREEMENT NAME: ----
8. FARM OR LEASE NAME: Ute Tribal
9. WELL NO.: 2-4
10. FIELD AND POOL, OR WILDCAT: Antelope Creek
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 4, T5S-R3W
12. COUNTY OR PARISH: Duchesne
13. STATE: Utah

14. PERMIT NO.: 43-013-30879 DATE ISSUED: 11/30/83

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/23/84	3/18/84	5/16/84	5992'GL, 6004'KB	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6790'	6690'	----	→	0-6790'	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 3987-6382', Green River Formation

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: CBL, DIL, CNL

27. WAS WELL CORED: no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.00#	384'KB	12-1/4"	290 sx.	
5-1/2"	17.00/15.50#	6775'KB	7-7/8"	1250 sx.	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8" EUE J55	6413'KB	

31. PERFORATION RECORD (Interval, size and number)
6382-76' w/4 SPF
5828-46' w/4 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6382-76'	62,000# 20/40 sand, 841 bbls gel water
5828-46'	117,000# 20/40 sand, 10,000# 10/20 sand, 1700 bbls gel water

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
SEE SECOND PAGE	Pumping	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS: EXHIBIT "L"

36. I hereby certify that the foregoing and attached information is compl

SIGNED _____ TITLE _____ DATE _____

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

UGC-3

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

56 64 01

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Duchesne | 13. STATE: Utah

15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD

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

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)
3987-4010' w/2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3987-4010'	250 gals 7½% HCL acid, 90,000# 20/40 sand, 10,000# 10/20 sand, 1238 bbls gel water

33.* PRODUCTION

DATE FIRST PRODUCTION: 5/16/84 | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pumping, 2½" x 1½" x 16' rod pump | WELL STATUS (*Producing or shut-in*): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/6/84	24	1/8"		29	9	----	310

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
25	30		29	9	----	40+

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

TEST WITNESSED BY: Jim Simonton

35. LIST OF ATTACHMENTS: CBL, CNL, DIL logs

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 7-10-84

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement"*: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River:	1646'		
Green River (Parachute Creek):	3036'		
Green River (Garden Gulch):	3772'		
Green River (Upper Douglas Creek):	4838'		

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH

COORS ENERGY COMPANY APPLICATION FOR SALTWATER DISPOSAL

FOR THE UTE 2-4
SECTION 4, T5S-R3W
DUCHESNE COUNTY, UTAH

Coors Energy Company proposes to convert a non-commercial oil well, the Ute 2-4, to a saltwater disposal well. Coors will present all evidence required under Rule I-5 of the Utah Oil & Gas and Mining Board issued January 1, 1982, in order to classify this well as a Class II water injection well.

****

RULE I-5-APPLICATION FOR APPROVAL OF CLASS II INJECTION WELLS

(a) Each application for the approval of a newly drilled or newly converted Class II Injection Well shall be filed on Form DOGM-UIC-1. The original and six (6) copies of the application and one complete set of attachments shall be furnished to the Board.

See attached Form DOGM-UIC-1 and complete set of attachments.

****

(b) The application for the approval of Class II Injection Well(s) shall be accompanied by:

(1) A plat showing the location and total depth of the following wells: the Class II Injection well, each water well(s), each abandoned, producing or drilling well and dry hole, within one-half mile of the Class II Injection well. The plat must identify the surface owner(s) of the land within one-half mile of the Class II Injection Well, and each operator of a producing leasehold within one-half mile of each Class II Injection well. Only wells of available public record are required to be included on the plat.

Exhibit "A" Show the location and total depth of all producing wells within a half mile radius of the UTE TRIBAL 2-4. There are no Class II injection wells, water wells, abandoned wells, drilling wells or dry holes within a one-half mile radius of the UTE 2-4.

This well is on Ute Tribal lands, so the Ute Tribe owns both surface and mineral rights for the Ute 2-4. Gulf Oil Company holds the oil and gas lease and Coors Energy is farming out the oil and gas lease from Gulf Oil Company. Coors Energy is the only operator of a producing leasehold within a half mile radius of the UTE 2-4. The non-producing leases shown within the half mile radius are owned by Gulf Oil Company.

****

(2) A copy of the notice of completion Form DOGM-UIC-2, and if required by the Board and/or Director:

(i) for a surface casing intended to protect underground sources of drinking water: resistively, spontaneous potential and caliper logs prior to installation of the casing; and a cement bond, temperature, or density log after the casing is set and cemented.

(ii) For intermediate and long strings of casing intended to facilitate injection: resistivity, spontaneous potential, porosity, and gamma ray logs before the casing is installed; fracture finder logs, and a cement bond, temperature or density log after the casing is set and cemented.

Attached is a copy of Form DOGM-UIC-2. Surface casing was set at 384 feet and cemented to surface with 290 sacks cement. No fresh water acquifers were found during the drilling of the 12¼" surface hole.

Exhibit B is a copy of the compensated density log in the zones of Interest. Exhibit C is a copy of the dual laterolog in the zones of Interest. Exhibit D is a complete copy of the cement bond log for the UTE 2-4.

****

(3) A schematic diagram of the Class II well showing:

i. the total depth or plug-back depth of the well;

ii. the depth of the injection or disposal interval;

iii. the geological name of the injection or disposal zone;

iv. the depths of the tops and bottoms of the casing and cement;

v. the size of the casing and tubing, and the depth of the packer;

vi. an assessment of the presently existing cement bond between the casing and formation;

vii. the location of bottom hole.

Exhibit E is a schematic diagram of the Ute 2-4 showing the above requirements under 3 i, ii, iii, iv, v, vi and vii. Note that the complete cement bond log is shown as Exhibit D.

****

(4) Information showing that injection into the proposed zone will not initiate fractures through the confining strata which could enable the injection fluid or formation fluid to enter a USDW.

(i) The Board may approve injection provided a finding is made from data, the application is required to furnish, and affidavits supporting the validity of such information.

(ii) The applicant is required to provide data including the maximum injection rate, maximum surface injection pressure, injection fluid and the lithology and rock properties of the injection zone and confining strata. The applicant's data must demonstrate that the proposed maximum surface injection pressure combined with the pressure of the well's hydrostatic head above the injection zone results in a pressure which could not initiate fractures in the confining strata and enable the injection fluid or the formation fluid to enter a USDW.

Exhibit F is a summary of the fracturing data from the Ute 2-4, the Ute 1-4 and the Ute 3-4. Both the Ute 1-4 and Ute 3-4 are within a half mile of the Ute 2-4. A fracture gradient is calculated for each of the frac zones in these wells.

Coors proposes to limit injection rate to an estimated 5 BPM and keep surface injection pressure below 2000 psi. This will insure that no new fractures are initiated and all injected fluids remain in the two injection zones at 6382'-6376' and 5828'-5846'. To summarize Coors' injection plans and meet the above mentioned requirements, the following list is provided.

UTE 2-4

Maximum injection rate	5 BPM (estimated) contingent upon step-rate injectivity test results) See (5)i
Maximum surface injection pressure	2000 psi
Injection fluid	Green River production water
Lithology of injection zone	Fine grained sandstone
Rock properties of injection zone	Frac gradiect 0.825 ± psi/ft.
Lithology of confining structure	Limestones and siltstones
Rock properties of confining strata	Assume similar frac gradient as injection zone of 0.825 ± psi/ft.

****

(5) Proposed operating data:

i. design injection rates and pressures and a procedure for controlling injection rates and pressures such as a relief valve, regulator or other pressure control device.

As discussed in Section 4, injection rates will be an estimated 5 BPM and maximum pressure will be limited to 2000 psi at the surface. Coors plans on installing a pressure kill switch on the tubing and casing tubing annulus as a safety device to insure that the maximum pressure of 2000 psi is not exceeded. Coors plans on performing a step-rate injectivity test the same time as a casing integrity test is performed. This step-rate injectivity test through the tubing will determine the maximum injectivity rate at 2000 psi. All results will be reported to the State, Ute Tribal and Federal governments.

****

ii. geologic name, depth, and location of injection fluid source;

The source water to be injected into the Ute 2-4 is all from the Green River Formation. All 29 wells listed on Exhibit "F" are completed in the Green River. Generally, the Uinta Formation occurs to a depth of 1400'± in the Antelope Creek Field. The Green River Formation occurs from 1400'± to approximately 7500' to the top of the Wasatch. All 29 source wells are all completed within the Green River Formation. Depth of the 29 source wells vary from 6500' to 6900'±.

****

iii. qualitative and quantitative analysis of representative sample of water to be injected;

Exhibit "G" shows a water analysis from each of the 29 source wells and the Ute 2-4.

****

iv. appropriate geological data on the injection one and confining zones including the lithologic description, geologic name, thickness, depth and lateral extent;

The Green River Formation consists of lacustrine rocks with some alluvial facies near the edge of the basin. The facies vary depending on the depth of the lake at the time of deposition. Most of the rocks are siltstone/sandstone/mudstone assemblies, with thick carbonates formed in open lacustrine facies. The best reservoirs are interpreted to be channels and point bars formed in a marginal lacustrine environment.

Perforated zones: 5828-5846, 6376-6382'

1) 6376-6382' - this interval is in the lowermost Green River Formation near the Wasatch transition zone. Mud log and electric log data indicate that it is a very fine grained sandstone/siltstone with about 14-16% porosity. This sand probably formed as a small discrete channel or point bar in a marginal lacustrine environment, and as such, this sand shows little lateral extent.

2) 5828-5846' - This interval is in the Black Shale facies in the Douglas Creek member of the Green River Formation. Mud log and electric log data shows a fine-grained sandstone approximately 20' thick with about 12-14% porosity. The sand unit in this interval is in the same stratigraphic position as producing intervals in nearby wells and is loosely termed the "Castle Peak" sands. The "Castle Peak" sand shows little chance of lateral continuity. It does not occur in offset wells such as the Ute 1-4 and Ute 3-4.

****

v. the geologic name, lateral extent, and depth to the top and bottom of all underground sources of drinking water which may be affected by the injection;

No sources of drinking water will be effected by the injection of production water into the Green River Formation in the Ute 2-4.

No underground sources of drinking water occur for 2½ miles from this well. The only source of underground drinking water would be in the alluvial sands of Antelope Creek 2½ miles west of the well.

****

vi. qualitative analysis of injection formation water on basis for exemption under Rule 1-5(C).

Exhibit "G" shows the water analysis from the Ute 2-4 well.

****

(6) Contingency plans to cope with all shut-ins or well failures so as to prevent migration of polluting fluids into any underground source of drinking water.

As can be seen on the cement bond log shown on Exhibit "D", the entire wellbore has been cemented to surface. The cement quality is very good. In the event the well is shut in, production water from the 2-4 well will be trucked to an approved surface disposal pit. In the event of a well failure, all injection operations will cease and State and Federal authorities will be notified by the appropriate procedures. Since no source of underground drinking water exists for 2½ miles, the possibility of contamination by migration of polluting fluids does not exist in this wellbore.

****

(7) The results of any formation testing programs.

Before surface facilities are installed, Coors will perform a step-rate injectivity test on the well to determine the rates and pressures that the formation will withstand for injection of produced fluids. Results of these tests will be forwarded to the State, Ute Tribe and Federal agencies. No other formation testing programs are planned.

****

(8) A description of the mechanical integrity test, the actual injection procedure and notification to the Division of the date and time of test to provide the Division the opportunity to monitor the test.

Coors plans to run a compression packer to 5800' and pressure up the casing annulus to 2000 psi. A hard copy will be made and sent to the State, Ute Tribal and Federal agencies. At this time, the injection test will be performed into both zones at 5828-5846' and 6376-6382' simultaneously. The Utah State Board of Oil, Gas and Mining, Ute Tribal and Federal agencies will be informed in advance of the time and date of the test for the purpose of witnessing it.

****

(9) For new wells, the status of corrective action on defective wells in the area of review.

No defective wells exist in the area of the Ute 2-4.

****

(10) Any other additional information which the Board shall determine is necessary in order to adequately review the application.

Any additional information will be provided to the Board as requested.

(c) The Board is authorized, subject to EPA approval, to exempt certain aquifiers from classification as a USDW under the following conditions if the application demonstrates.

(1) it does not currently serve as a source of drinking water, and;

(2) it cannnot now and will not in the future serve as a source of drinking water because:

a. It is mineral, hydrocarbon or geothermal energy producing, or can be demonstrated by a permit applicant as part of a permit application for a Class II well operation to contain minerals or hydrocarbons that considering their quantity and location are expected to be commercially producible.

b. It is situated at a depth or location which makes recovery of water for drinking water purposes economically or technologically impractical.

c. It is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; or

d. It is located over a Class III well mining area subject to subsidence or catastrophic collapse; or

(3) The total dissolved solids content of the ground water is more than 3,000 and less than 10,000 mg/l and it is not reasonably expected to supply a public water system.

The two injection zones in the Ute 2-4 do not currently serve as a source of drinking water and will not do so in the future. The depth of 5800-6400' in itself is prohibitive in addition to the mineral content of 11,616 mg/liter total dissolved solids.

(d) Members of the Board, the Division or other State agencies having a lawful interest in the administration of the UIC program shall have the right, at all reasonable times, to enter and inspect all disposal wells, injection wells and producing wells and facilities thereto for the purpose of ascertaining through the taking of samples and necessary testing activities to insure that the operator is complying with the provisions of the orders, rules and regulations made in pursuance of the Oil and Gas Conservation Act.

(e) The Division Director in an emergency shall have the power to order the immediate closure or shut-down of any well or wells which in the opinion of the Director may be endangering underground sources of drinking water.

(f) Each application shall be verified under oath, by a responsible official of the applicant, that the information contained in the application is true and correct to the best of the official's information and belief.

See Exhibit "H" for an affidavit as to the requirements under Section "F". Exhibit "I" is the original survey plat for the Ute 2-4. Exhibit "J" is a sketch of the Surface Facilities for Saltwater Injection into the Ute 2-4. Exhibit "K" is a Certificate of Mailing to all the interested parties.

Exhibit "L" is a copy of the State of Utah Well Completion Report. Note that the zone from 3987 to 4010' has been squeeze cemented off and pressure tested to 3000 psi.

RLN:kr

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Coors Energy Company
ADDRESS PO Box 467
Golden, Colorado ZIP 80402
INDIVIDUAL ____ PARTNERSHIP ____ CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Ute Tribal 2-4 WELL
SEC. 4 TWP. 5S RANGE 3W
Duchesne COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	☐
DISPOSAL WELL	☒
LP GAS STORAGE	☐
EXISTING WELL (RULE I-4)	☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:
1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name: Ute Tribal	Well No.: 2-4	Field: Antelope Creek	County: Duchesne
Location of Enhanced Recovery Injection or Disposal Well _____	Sec. 4	Twp. 5S	Rge. 3W
New Well To Be Drilled Yes ☐ No ☒	Old Well To Be Converted Yes ☒ No ☐	Casing Test Yes ☐ No ☐ Date _____	
Depth-Base Lowest Known Fresh Water Within ½ Mile none	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile YES ☐ NO ☒	State What	
Location of Injection Source(s): Green River Formation in 29 wells	Geologic Name(s) and Depth of Source(s): Green River 1400-6900'		
Geologic Name of Injection Zone: Green River	Depth of Injection Interval 5828 to 5846 & 6382-6376'		
a. Top of the Perforated Interval: 5828'	b. Base of Fresh Water: none	c. Intervening Thickness (a minus b) 5828'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones: Sandstone, limestone, dolomite, siltstone, mudstone			
Injection Rates and Pressures: Maximum 150 B/D; 2000 PSI			

The Names and Addresses of Those to Whom Notice of Application Should be Sent.

Ute Tribal Headquarters	Gulf Oil Co.	BLM
PO Box 190	PO Box 2619	Vernal District Off.
Fort Duchesne, Utah	Casper, Wyoming	170 S. 500 East
84026	82602	Vernal, Utah 84078

State of Colorado)
County of Jefferson)

COORS ENERGY COMPANY
Applicant

Before me, the undersigned authority, on this day personally appeared [signature] known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 15th day of Feb, 19 85

SEAL My Commission Expires March 3, 1988

Karen A. Fisher
1746 Cole Blvd.
Notary Public in and for Jefferson County State of Colo.

My commission expires _____

(OVER)

FORM DOGM-UIC-2
(Rule I-5 (b) 2
(Revised 1983)

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

14-20-H62-3503
COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

API NO. 43-013-30879

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

640 Acres
N
W
E
S
Locate Well Correctly and Outline Lease

COUNTY Duchesne SEC. 4 TWP. 5S RGE. 3W

COMPANY OPERATING Coors Energy Company

OFFICE ADDRESS PO Box 467

TOWN Golden, Colo. STATE ZIP 80402

FARM NAME Ute Tribal WELL NO. 2-4

DRILLING STARTED 2/23 19 84 DRILLING FINISHED 3/18 19 84

DATE OF FIRST PRODUCTION 5/16/84 COMPLETED 5/16/84

WELL LOCATED NE ¼ SW ¼ NE ¼

1200 FT. FROM SL OF ¼ SEC. & 850 FT. FROM WL OF ¼ SEC.

ELEVATION DERRICK FLOOR 6004 GROUND 5992

TYPE COMPLETION

Single Zone

Multiple Zone XX

Comingled

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Green River	5828	5846	Not economical		
	6382	6376	Not economical		
	3987	4010	Squeezed off to	3000 psi	

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
8-5/8"	24.00	K55	384'		290		surface
5-1/2"	15.50	K55	6790		1250		surface
	17.00	K55	6790				

TOTAL DEPTH 6790'

PACKERS SET DEPTH 5800'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Green River		
SPACING & SPACING ORDER NO.	Not spaced		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Disposal Well		
PERFORATED INTERVALS	5828-5846'		
	6382-6376'		
	3987-4010'	Squeeze cemented and	
		pressure tested to 3000 psi	
ACIDIZED?	All		
FRACTURE TREATED?	All		

INITIAL TEST DATA

Date	5/16/84	1/23/85	
Oil, bbl./day	29	2	
Oil Gravity	40+	40+	
Gas, Cu. Ft./day	9 CF	9 CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	310	310	
Water-Bbl./day	1-2	1	
Pumping or Flowing	Pumping	Pumping	
CHOKE SIZE	N/A	N/A	
FLOW TUBING PRESSURE	N/A	N/A	

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

Telephone (303) 278-7030 D.S. Sprague, Director, O/G Operation

Name and title of representative of company

Date: 2/15/85

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.

2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).

3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)

4. Attach Electric or Radioactivity Log of Subject well (if released).

5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.

6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.

7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.

8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.

9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.

10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.

12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	8-5/8"	384'	290 sx.	surf.	circ. to surface
Intermediate					
Production	5-1/2"	6790'	1250 sx.	surf.	CBL
Tubing	2-3/8"	5800'	Name - Type - Depth of Tubing Packer		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval		Depth - Base of Inj. Interval
6790'	Green River	5828	to	5846'
		6382	to	6376'

Packer will be a compression type similar to Baker R-3, set at 5800'.

Form OGC-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

37

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
MAR 12 1985
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: P.O. Box 467, Golden, Colorado 80401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, SW/4NW/4

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL, 6004'KB

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) NTL-2B			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Last day of Production 2/7/85

This well is shut in ~~it~~ is not economical to operate. It will continue to be shut in pending on approval for SWD well.

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

SIGNED James A. Simonton TITLE Oil/Gas Supervisor DATE 3/8/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 26, 1985

Coors Energy Company
P.O. Box 467
Golden, Colorado 80402

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-056

Administrative approval is hereby granted to convert the following listed well to a Class II saltwater disposal well.

Ute Tribal #2-4
Section 4, Township 5 South, Range 3 West
Duchesne County, Utah

This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

Dianne R. Nielson

Dianne R. Nielson
Director

mfp
7627U

RECEIVED
FEB 14 1986
DIVISION OF
OIL, GAS & MINING

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

February 12, 1986

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

Attn: Mr. R. J. Firth

Dear Mr. Firth:

I have enclosed the latest status report we have obtained for your information pertaining to the disposal of produced salt water by reinjecting this water into the same reservoirs that it was produced from.

We feel this is the most suitable method of handling salt water from oil well production and much better from an environmental standpoint than dumping into large central surface ponds because of the danger of contamination of fresh surface water and shallow fresh water aquifers. Certainly the larger the surface pond, the greater the chance of large scale contamination.

We have been trying to work with the Ute Tribe to permit a salt water reinjection well on Tribal property for over a year, but as you can see they have refused approval even though the U.S. Bureau of Land Management has approved our application.

We don't know whether you have any rights on Tribal property, but we felt you should have this information in the event the State of Utah would want to keep abreast of the situation.

Very truly yours,

R. L. Martin

R. L. Martin
Vice President
Oil & Gas Operations

RLM:kr
Enclosure

UTE INDIAN TRIBE

UINTAH AND OURAY AGENCY

Fort Duchesne, Utah 84026

In Reply:

Doug:
BIA is still trying to pursue
Not totally shut down yet
J

January 17, 1986

Superintendent
U. S. Department of Interior
Bureau of Indian Affairs
Uintah-Ouray Agency
Fort Duchesne, UT 84026

Dear Superintendent:

The Energy and Mineral Resource Department has been instructed on December 12, 1985, by the Ute Tribal Business Committee to terminate all negotiations concerning injection wells within the boundaries of the Uintah and Ouray Indian Reservation.

Respectfully,

ENERGY AND MINERAL RESOURCE DEPARTMENT

Ferron Secakuku

Ferron Secakuku, Director

FS/gw

cc: E. L. DuShane
Jason Cuch
Charles Cameron
FS File
EMRD Chrono (2)

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 24, 1986

Coors Energy Company
P.O. Box 467
Golden, Colorado 80402

Gentlemen:

RE: Ute Tribal #2-4, Sec. 4, Township 5 South, Range 3 West, Duchesne County, Utah

According to our records the above referenced well was approved for injection. We have not received a notice advising us that the this well has commenced injection. In order to update our records, we respectfully request information indicating the status of the afore mentioned well.

Thank you in advance for your cooperation. If you have any questions please don't hesitate to call or write.

Sincerely,

Marlayne Poulsen

Marlayne Poulsen
UIC Secretary

mfp
0012-U

RECEIVED
APR 07 1986
DIVISION OF
OIL, GAS & MINING

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80402

April 2, 1986

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

Attn: Ms. Marlayne Poulsen
UIC Secretary

Re: Ute Tribal 2-4 Proposed SWD Well

Dear Ms. Poulsen:

The referenced well has not been converted to a saltwater disposal status because the Ute Indian Tribe will not grant approval.

The Tribe apparently has taken the position to suspend considering all underground SWD applications for an indefinite period of time.

Very truly yours,

D. S. Sprague
Director
Oil & Gas Operations

DSS:kr

Form DOGM-1b

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

012806

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [XX] GAS WELL [XX] OTHER

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, Sec. 4, Lot 10

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) T&A			[ ]
(Other)			[ ]				

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

17. 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.)*

This well is temporarily abandoned due to low production, effective 11/1/86.

RECEIVED
JAN 26 1987
DIVISION OF
OIL, GAS & MINING

SI STATUS
FOR DOGM RECORDS.
1-29-87

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 1/22/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form 0[illegible]1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [X] GAS WELL [X] OTHER Temporarily abandoned

2. NAME OF OPERATOR
Coors Energy Company

3. ADDRESS OF OPERATOR
PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2551'FNL, 1900'FEL, Lot 10

5. LEASE DESIGNATION AND SERIAL NO.
14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SOW-GRRU
Ute Tribe

7. UNIT AGREEMENT NAME
---- 122104

8. FARM OR LEASE NAME
Ute Tribal

9. WELL NO.
2-4

10. FIELD AND POOL, OR WILDCAT
Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4, T5S-R3W

14. PERMIT NO.
43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5992'GL

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

RECEIVED DEC 17 1987 DIVISION OF OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Shut in Report			[ ]

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

17. 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.)*

This well is presently temporarily abandoned due to low production.

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

SIGNED R. L. Martin TITLE V.P. O/G Operations DATE 12-8-87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form 0[illegible]-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL [X] GAS WELL [X] OTHER: Temporarily abandoned

7. UNIT AGREEMENT NAME: ----

2. NAME OF OPERATOR: Coors Energy Company

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

9. WELL NO.: 2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'FNL, 1900'FEL, Lot 10

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Shut in Report			[ ]
(Other)			[ ]	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

This well is presently temporarily abandoned due to low production.

RECEIVED
MAY 13 1988
DIVISION OF
OIL, GAS & MINING

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

SIGNED R. L. Martin — TITLE V.P. O/G Operations — DATE 5-9-88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

May 5, 1987

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

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [XX] GAS WELL [XX] OTHER

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551'fnl, 1900'fel, Sec 4, Lot 10

RECEIVED MAR 01 1989 DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 4, T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) SWD Well			[ ]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

In compliance with Oil and Gas conservation rule R615-5-5, Coors Energy submits the results of mechanical integrity test and step-rate injectivity test.

Subject well has 2-7/8" OD tubing set at 5700' on a production packer. The tubing-casing annulus above the packer was pressure tested to 2500 psi for one hour on 2/13/89. This test was witnessed by a BLM representative.

The step-rate injection test, also ran on 2/13/89, shows a minimum wellhead fracture initiation pressure of 1800 psi. Coors will set their injection pump high pressure kill switch at 1700 psi to prevent exceeding fracture pressure. Both tests are recorded on the attached Smith Energy Services treatment report. Also attached is a graphical presentation of the step-rate test.

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

SIGNED D.S. Sprague TITLE Manager Engineering Services DATE 2/27/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

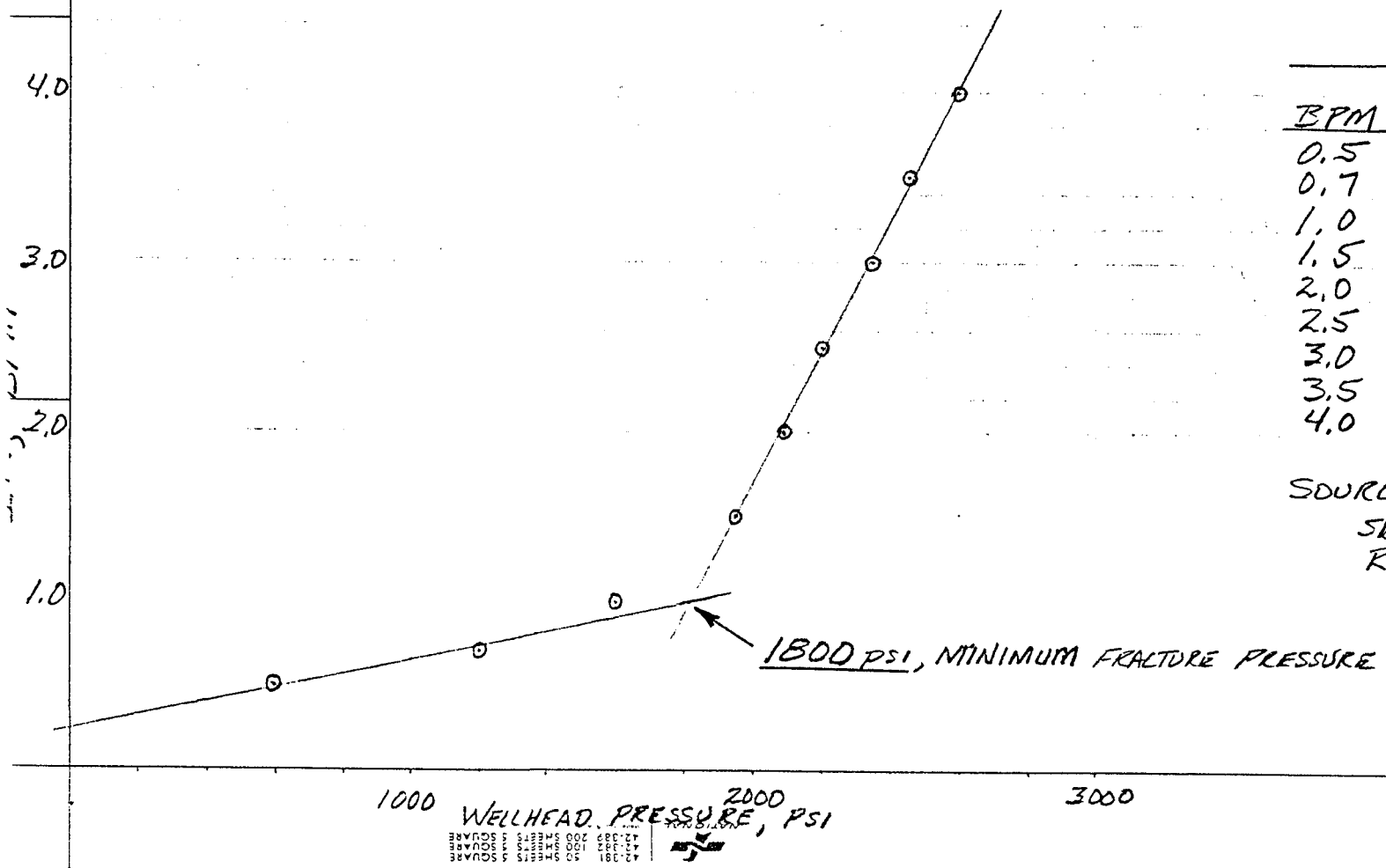
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.

UTE TRIBAL 2-4

STEP-RATE INJECTION TEST

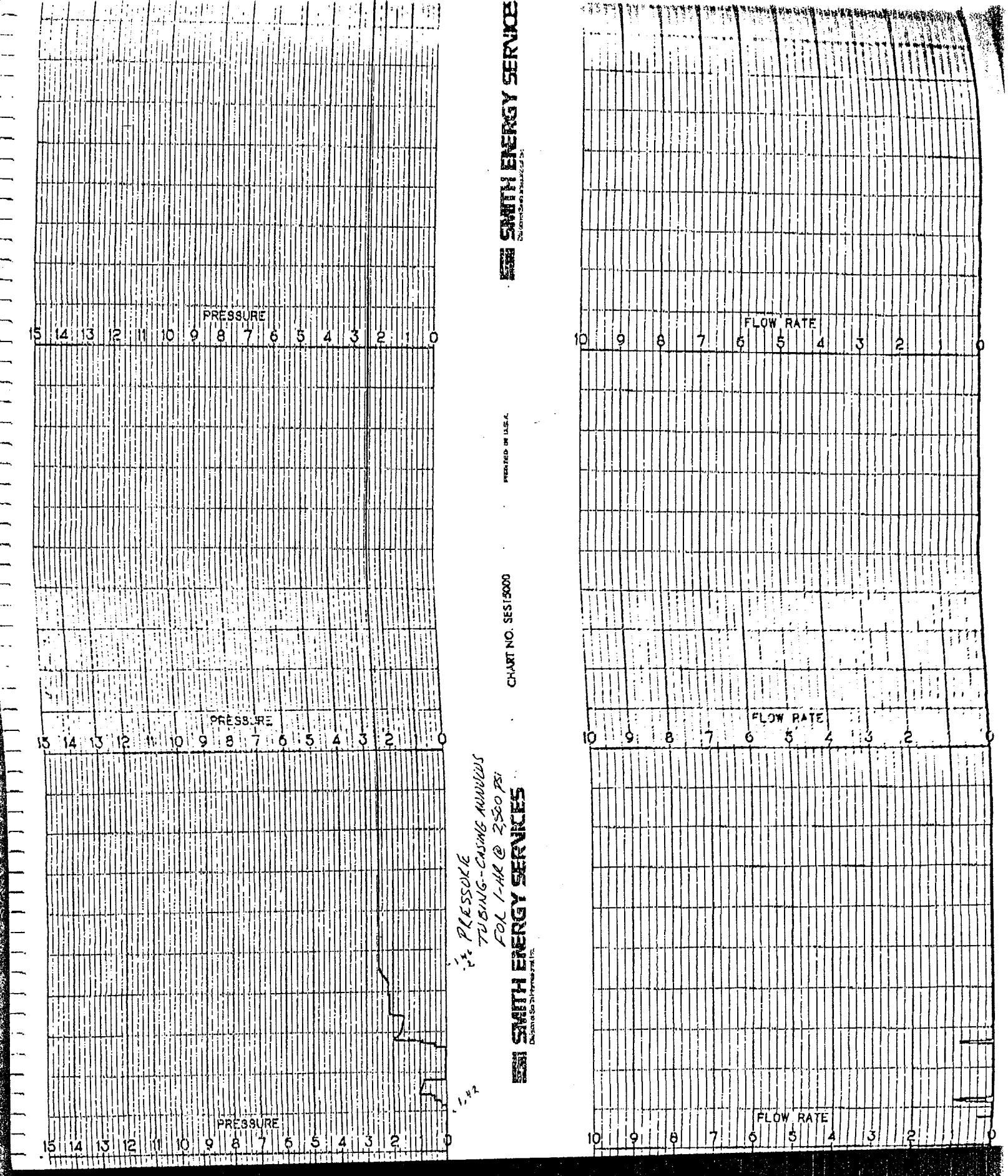


DATA

BPM	WH PRESS
0.5	600
0.7	1200
1.0	1600
1.5	1950
2.0	2090
2.5	2200
3.0	2350
3.5	2450
4.0	2600

SOURCE: SMITH ENERGY SERVICES, TREATMENT REPORT DATED 2-13-89

2-24-89 DSS


SMITH ENERGY SERVICES
PRESSURE
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
FLOW RATE
10 9 8 7 6 5 4 3 2 1 0
PRESSURE
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
FLOW RATE
10 9 8 7 6 5 4 3 2 1 0
PRESSURE
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
FLOW RATE
10 9 8 7 6 5 4 3 2 1 0
PRESSURE
TUBING-CASING ANNULUS
FOR 1-HR @ 2,500 PSI
SMITH ENERGY SERVICES
CHART NO. SES15000
PRINTED IN U.S.A.

SMITH ENERGY SERVICES
A DIVISION OF ALLIED PRODUCTS CORPORATION

TREATMENT REPORT

Date 2/13/89 Field Rep. 01472 New Well
Operator Coors Energy Old Well
Well Name Ute Tribal 2 - 4 Lease
Field Sec. 4 TWP RGE
County Duchesne State Utah District 42

FORMATION DATA

Form 1 Green River Perf. Dia. in. Perfs.
Form 2 Perf. Dia. in. Perfs.
New Zones Oil Gas Injection X Disposal Other (specify)
Treatment History: Vol Gal Fluid Remarks

	BHT F	BHP PSI	Por %	Perm md
Form 1.				
Form 2.				
Form 3.				
Form 4.				

Source:

PIPE DATA

Treating Cond.: Casing Tubing Annulus Manifold
Cond. Cap. gal: Casing Tubing Annulus Hole
Tubing O.D. 2.875 in Wt. lb/ft Grade Run to
Casing O.D. 5½ in Wt. lb/ft Grade Set at
Casing O.D./Liner O.D. in Wt. lb/ft Grade Set From to
Packer set at 5700 Packer type production Packer string: ID 2.441 in. O.D. 2.875 in. PB/TD Hole Dia at pay in.

TREATMENT DATA (At Blender)

Pad Fluid Pad Vol gal KCL % Aux Mtrls
Frac Fluid 1 Fluid 1 Vol gal KCL % Aux Mtrls
Frac Fluid 2 Fluid 2 Vol gal KCL % Aux Mtrls
Frac Fluid 3 Fluid 3 Vol gal KCL % Aux Mtrls
Frac Fluid 4 Fluid 4 Vol gal KCL % Aux Mtrls
Flush Flush Vol gal KCL % Flush Aux Mtrls
Acid Acid Vol gal strength % Acid Aux Mtrls
Acid Flush Acid Flush Vol gal KCL % Acidize via
Ball Sealer Dia in. Type Stg 1 Stg 2 Stg 3 Stg 4 Stg 5 Stg 6 Stg 7
Other Hole loaded with production H_2O

Recommended Procedure
test backside to 2500 psi for 1 hour
pump injection test

Prop Type	Mesh	Wt (lbs)
1.		
2.		
3.		
4.		

Max Prop lb/gal Tot lbs.

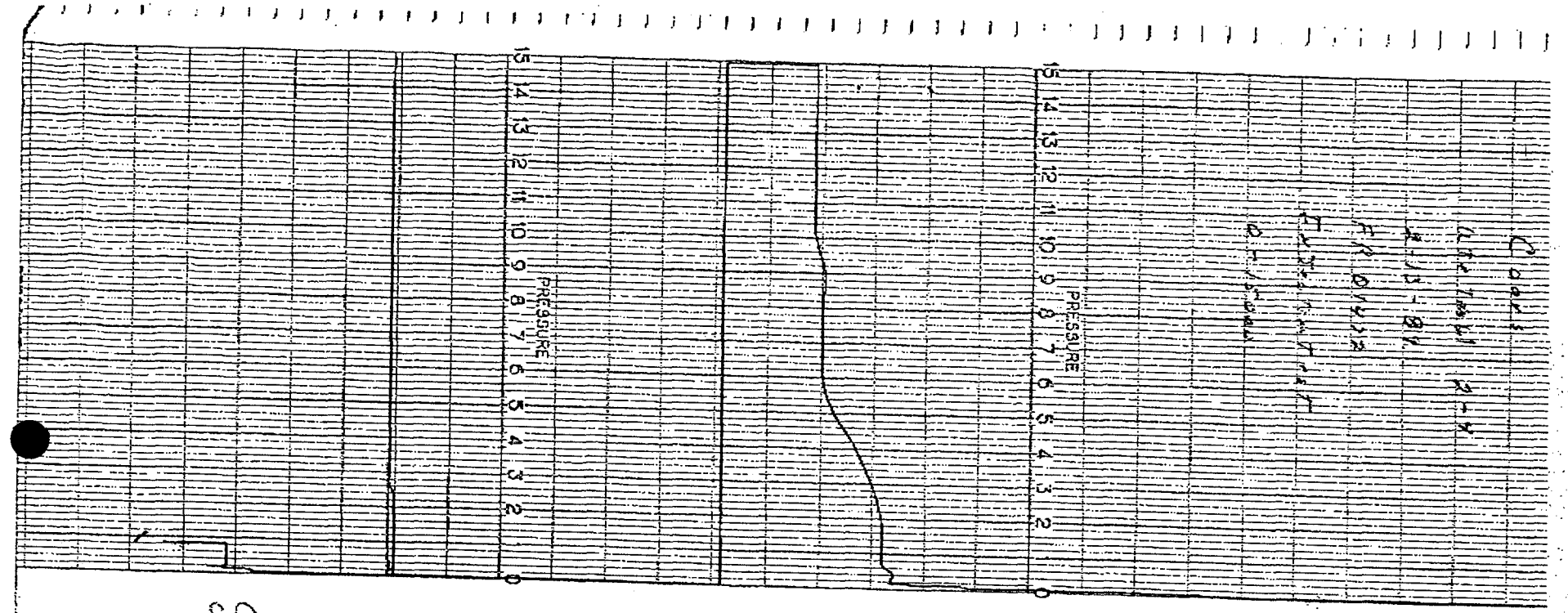
Source: Coors Energy

Treating Press (PSI): Max 3000 Ave. 1500 Operator's Max 3000 ISDP 2100 Final In Min
Ave. Inj. Rate 2.5 Total load to recover 128 BBL

TREATMENT PROCEDURE

Time AM/PM	Treating Press. (PSI) Tubing	Treating Press. (PSI) CSG/ANN	Inj. Rate BPM	Prop Conc # Gal	Total BBLS Pumped	Remarks
1:42		0				start up
1:46		2500	.1		.2	shut down
2:57	0	-	0		0	start up on injection test
3:46	2740	-	5		128	shut down 2100 ISIP

SMITH ENERGY Rep Clyde Marks Customer Rep Bill Muir
DISTRIBUTION



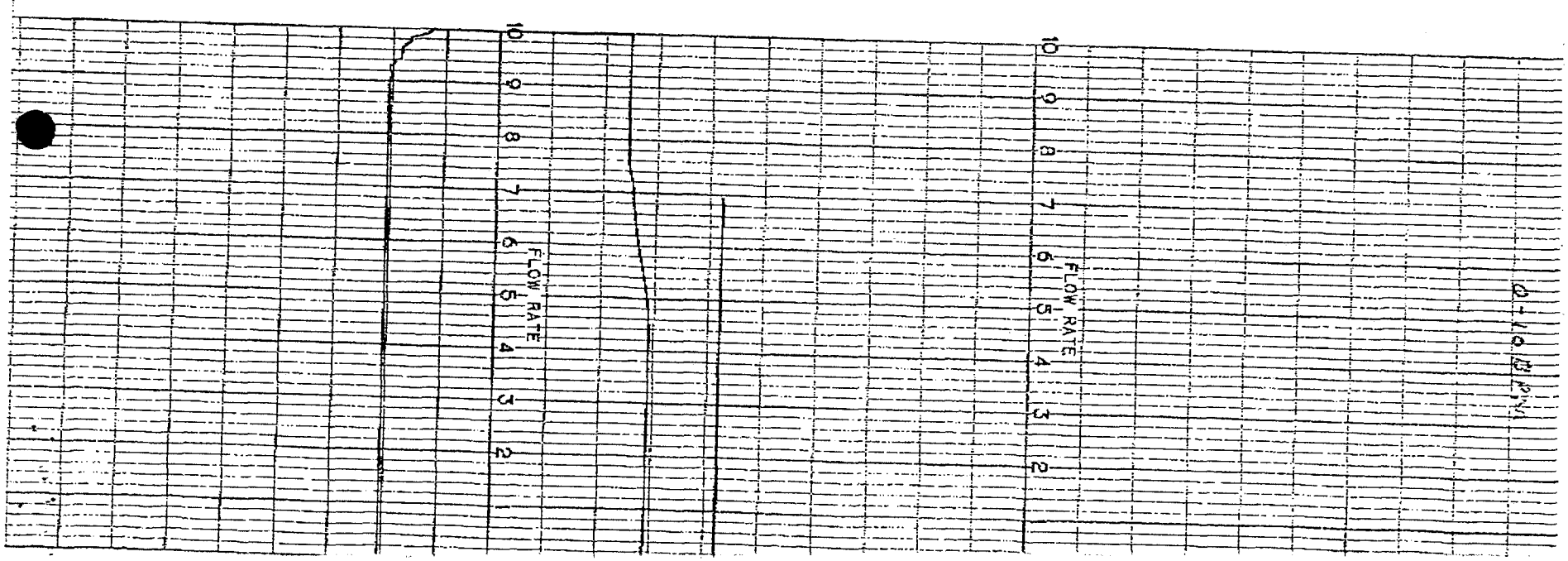
Coors
Ute Tribal 2-4
2-13-84
FR 01472
Extension Test
0-15000

Coors
01472

CHART NO. SES15000 PRINTED IN U.S.A.

SMITH ENERGY SERVICES
Dresser Smith Industries, Inc.

CHART NO. SES15000 PRINTED IN U.S.A.



0-10 BPM

PRESSURE

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

PRESSURE

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

PRESSURE

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

PRESSURE

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

PRINTED IN U.S.A.

CHART NO. SES15000

SMITH ENERGY SERVICES

PRINTED IN U.S.A.

CHART NO. SES15000

10 9 8 7 6 5 4 3 2

FLOW RATE

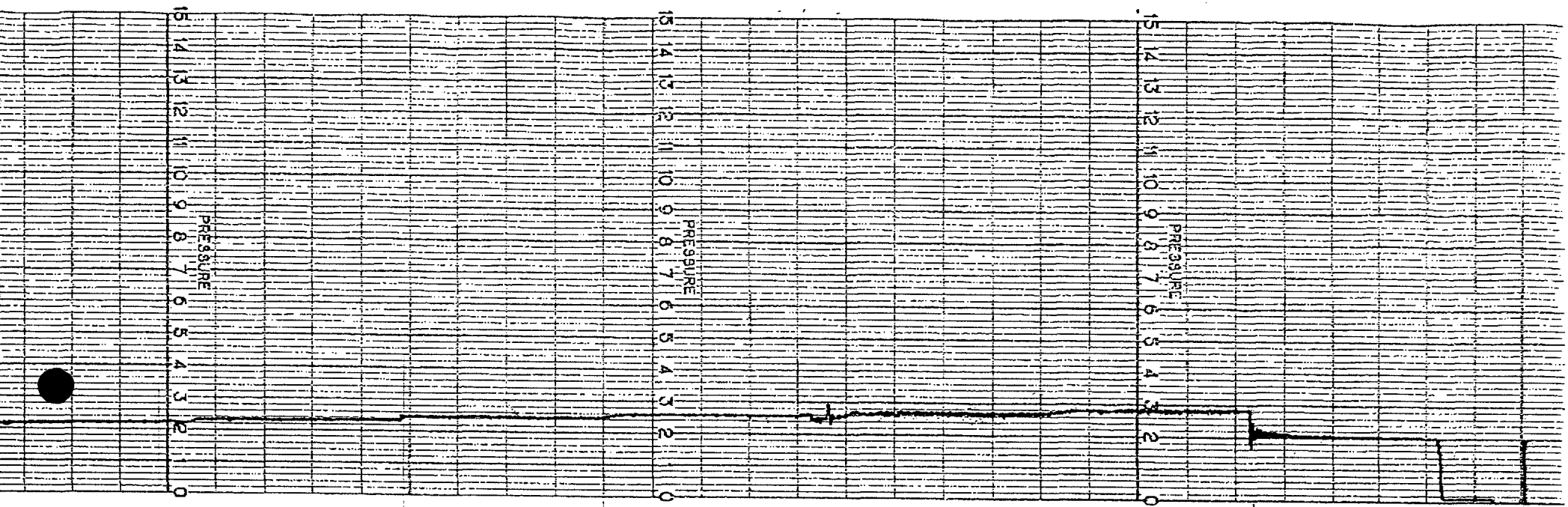
10 9 8 7 6 5 4 3 2

FLOW RATE

10 9 8 7 6 5 4 3 2

FLOW RATE

10 9 8 7 6 5 4 3 2



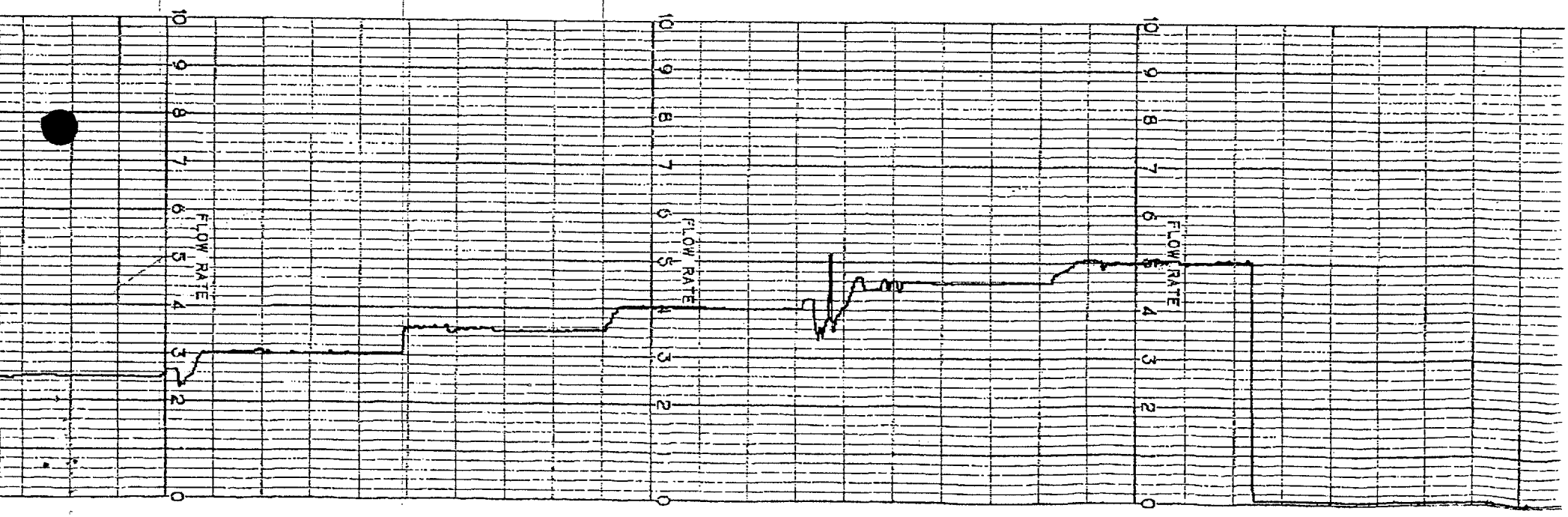
PRINTED IN U.S.A.

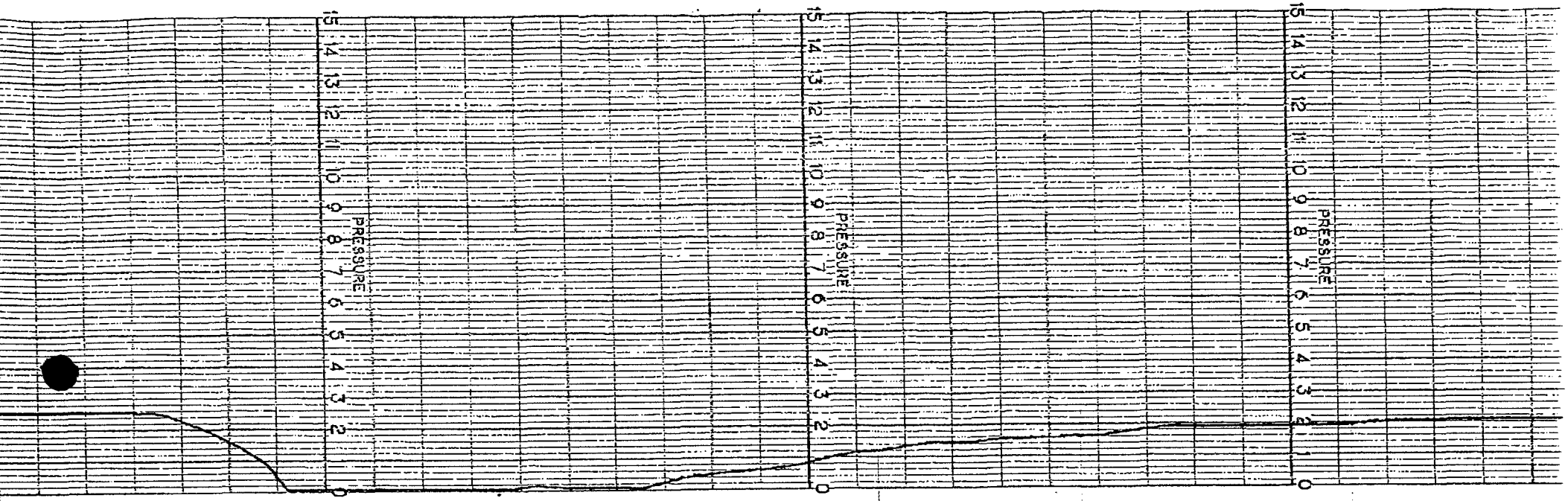
SMITH ENERGY SERVICES

CHART NO. SES15000

PRINTED IN U.S.A.

SMITH ENERGY SERVICES

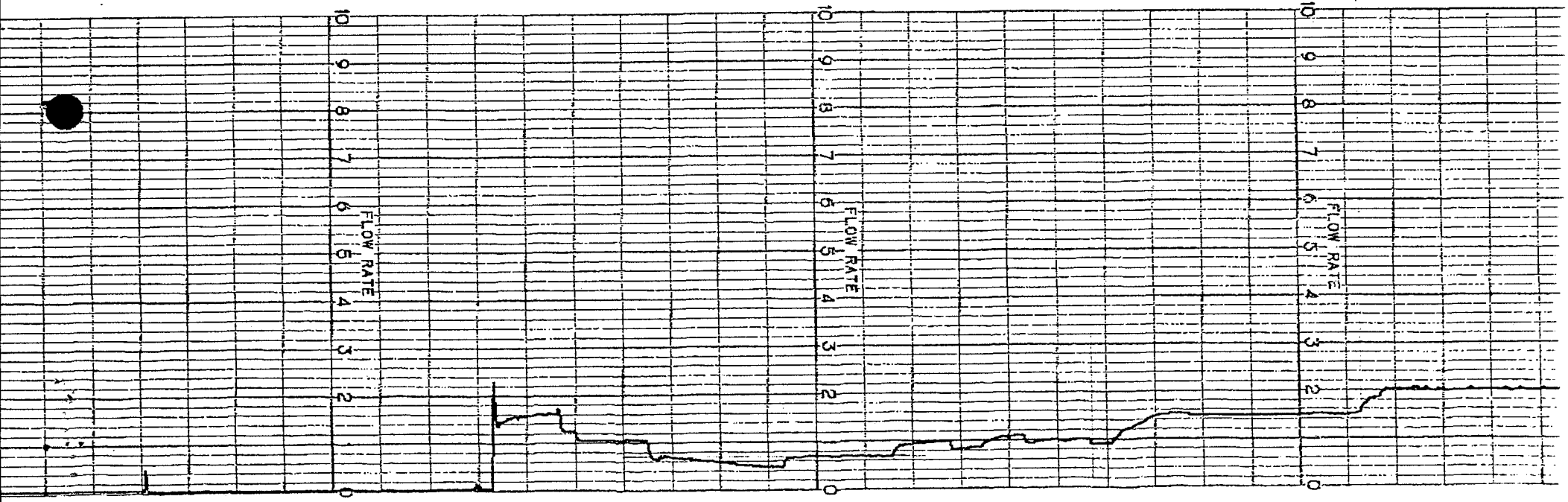




END PRESSURE TEST

START STEP RATE TEST

SMITH ENERGY SERVICES
CHART NO. SES15000
PRINTED IN U.S.A.
SMITH ENERGY SERVICES
CHART NO. SES15000



FORM 9

7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.
14-20-H62-3503

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Tribe

1. OIL WELL [XX] GAS WELL [XX] OTHER

7. UNIT AGREEMENT NAME
----

2. NAME OF OPERATOR
Coors Energy Company

8. FARM OR LEASE NAME
Ute Tribal

3. ADDRESS OF OPERATOR
PO Box 467, Golden, Colorado 80402

9. WELL NO.
2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2551'FNL, 1900'FEL, Lot 10
At proposed prod. zone
same

RECEIVED APR 10 1989 DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT
Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4, T5S-R3W

14. API NO.
43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5992'GL

12. COUNTY
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

APPROX. DATE WORK WILL START _____

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Shut in Report			

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

DATE OF COMPLETION _____

17. 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.)

* Must be accompanied by a cement verification report.

This well is presently temporarily abandoned due to low productivity.

Coors has plans to convert the 2-4 to a saltwater disposal well and are presently awaiting EPA approval to commence injection.

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

SIGNED Larry Campbell TITLE Director, Energy Services DATE 4-5-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

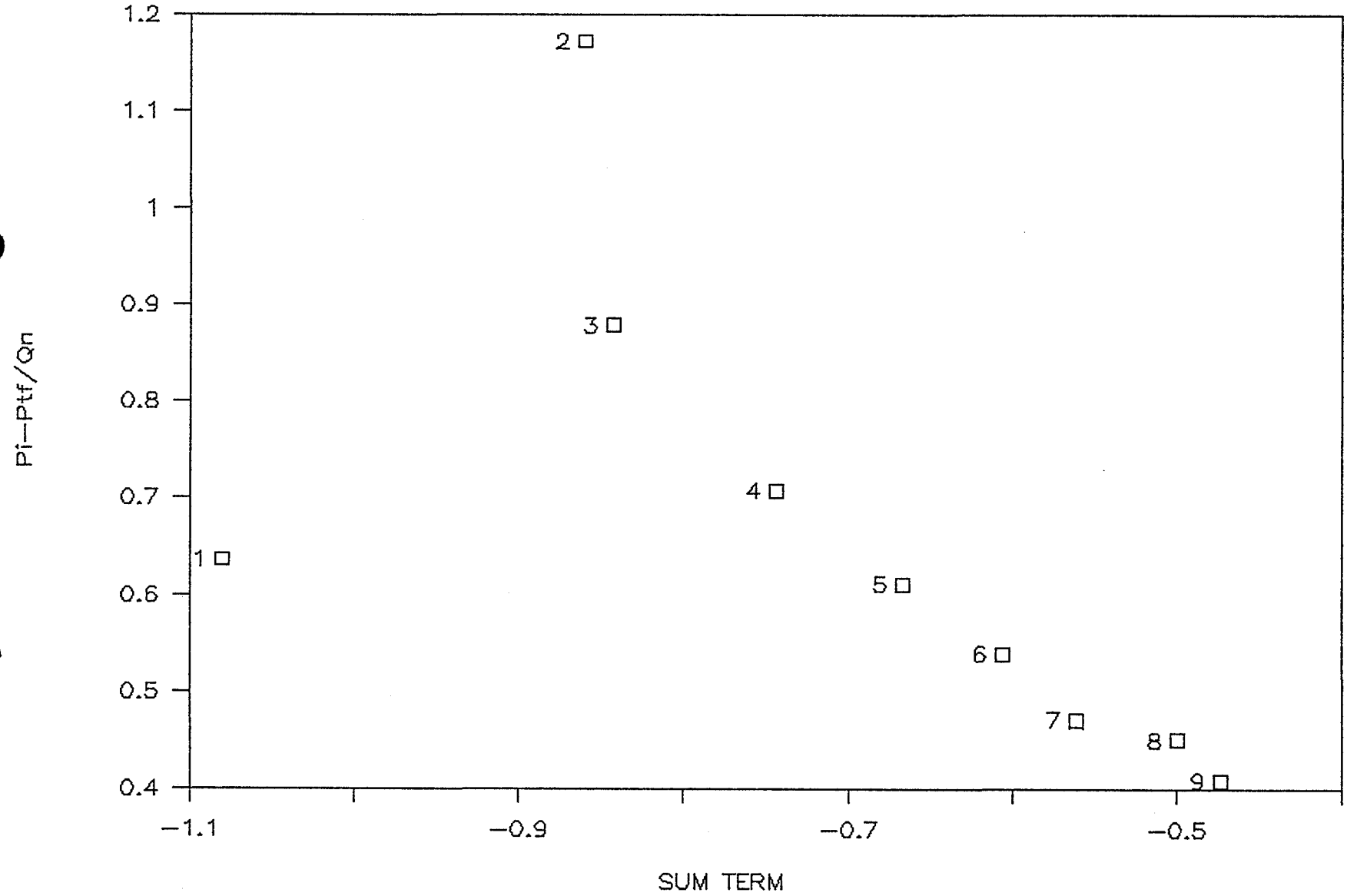
CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

COORS ENERGY COMPANY

STEP-RATE TEST 2-4 WELL



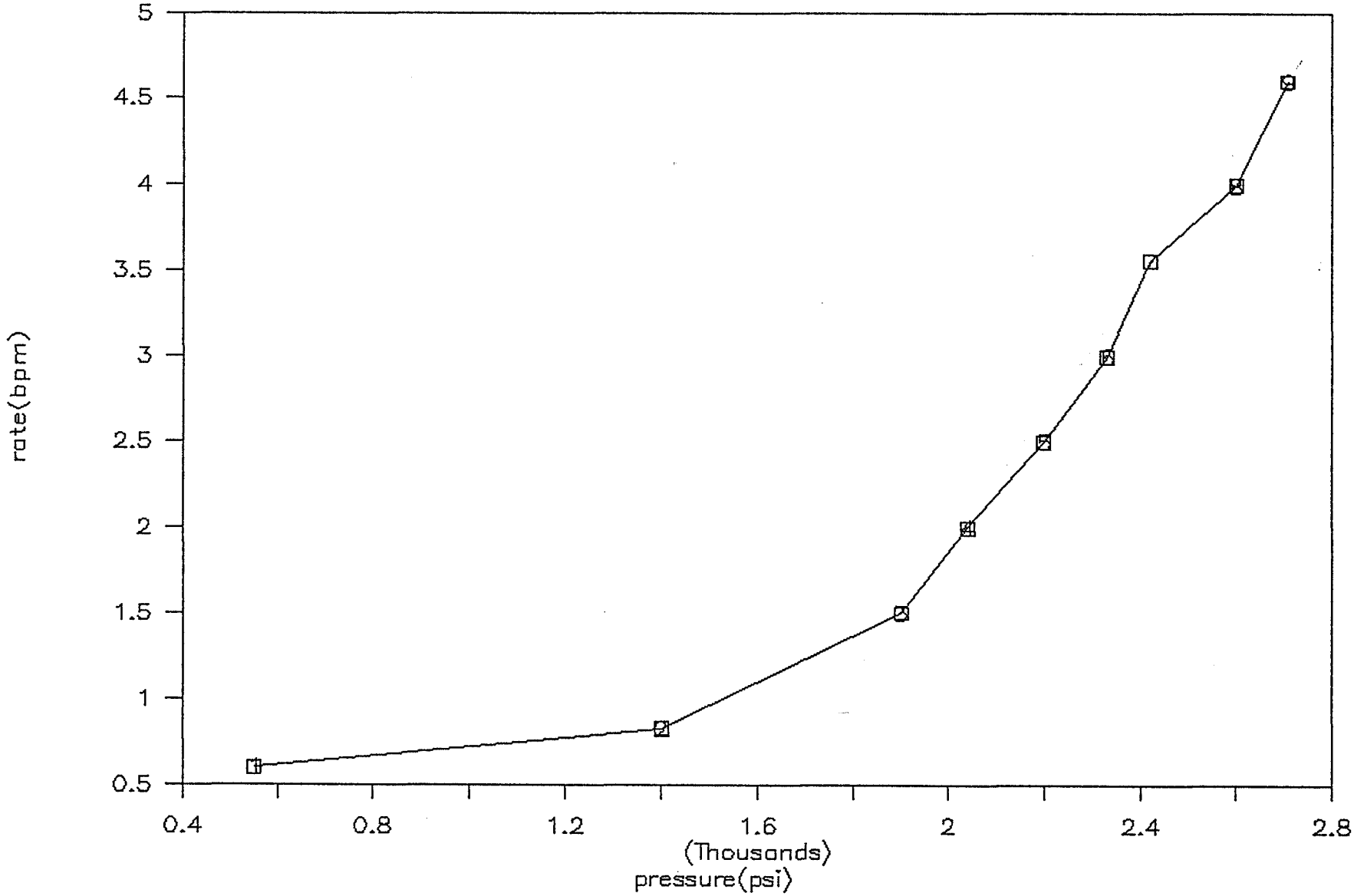
NUMBER	TIME	Q	Ptf(psi)	đ TERM	DELTA PSI
0	0.00	0	0		
1	0.08	-864	550	-1.08073	0.63657
2	0.17	-1195	1400	-0.85979	1.17155
3	0.25	-2160	1900	-0.84270	0.87963
4	0.33	-2880	2040	-0.74388	0.70833
5	0.42	-3600	2200	-0.66682	0.61111
6	0.50	-4320	2330	-0.60592	0.53935
7	0.58	-5126	2420	-0.56169	0.47210
8	0.67	-5760	2600	-0.49959	0.45139
9	0.75	-6624	2710	-0.47370	0.40912

Press Enter to continue ?

1LIST 2RUN 3LOAD" 4SAVE" 5CONT 6,"LPT1 7TRON 8TROFF 9KEY 0SCREEN

COORS ENERGY COMPANY

STEP–RATE TEST 2–4 WELL



step	rate	pressure
1	0.6	550
2	0.83	1400
3	1.5	1900
4	2	2040
5	2.5	2200
6	3	2330
7	3.56	2420
8	4	2600
9	4.6	2710

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

RECEIVED
APR 12 1989
DIVISION OF
OIL, GAS & MINING

APR 10 1989

Ref: 8WM-DW

D. S. Sprague
Manager, Engineering Services
Coors Energy Company
Post Office Box 467
Golden, Colorado 80402

RE: UIC Permit Application
UTS 249730879
Ute Tribal 2-4 SWD
Antelope Creek Field
5S 3W 5-4

Dear Mr. Sprague:

This is to inform you that your permit application for the above mentioned well was received by our office on March 28, 1989, and has been assigned to Mr. Gus Stolz. If you have any questions concerning the application, you may contact Gus at (303) 293-1416.

Sincerely,

Edna E. Walton

Edna E. Walton
UIC Permits Coordinator

cc: ✓Mr. Gil Hunt
Utah Div. of Oil, Gas & Mining

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.
14-20-H62-3503

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER TA

7. UNIT AGREEMENT NAME
----

2. NAME OF OPERATOR
Coors Energy Company

8. FARM OR LEASE NAME
Ute Tribal

3. ADDRESS OF OPERATOR
PO Box 467, Golden, Colorado 80402

9. WELL NO.
2-4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 2551'FNL, 1900'FEL, Lot 10

RECEIVED
MAY 03 1989
DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT
Antelope Creek

At proposed prod. zone
same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4, T5S-R3W

14. API NO.
43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5992'GL

12. COUNTY
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
APPROX. DATE WORK WILL START				DATE OF COMPLETION			

17. 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.)

* Must be accompanied by a cement verification report.

This is to advise you that Coors Energy Company started operations to convert this well to a saltwater disposal well in March, 1989 and during the workover operations, the well made 85 BO which had accumulated in the wellbore.

This oil was transferred to the Ute Tribal 3-4 tank battery and sold. The Ute Tribal 2-4 is presently TA and waiting on EPA approval to commence saltwater injection operations.

VLC

Has this prod. been accounted for? DTS

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

SIGNED D.S. Sprague TITLE Manager, Engineering Services DATE 4-28-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION & SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Injection Well

7. UNIT AGREEMENT NAME: ----

2. NAME OF OPERATOR: Coors Energy Company

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

9. WELL NO.: 2-4SWD

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface: 2551'FNL, 1900'FEL, SW/NE

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

At proposed prod. zone: same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

RECEIVED MAY 22 1989 DIVISION OF OIL, GAS & MINING

14. API NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

12. COUNTY: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- TEST WATER SHUT-OFF ☐
- FRACTURE TREAT ☐
- SHOOT OR ACIDIZE ☐
- REPAIR WELL ☐
- (Other) ☐
- PULL OR ALTER CASING ☐
- MULTIPLE COMPLETE ☐
- ABANDON ☐
- CHANGE PLANS ☐

APPROX. DATE WORK WILL START _____

SUBSEQUENT REPORT OF:

- WATER SHUT-OFF ☐
- FRACTURE TREATMENT ☐
- SHOOTING OR ACIDIZING ☐
- (Other) First Injection ☐
- REPAIRING WELL ☐
- ALTERING CASING ☐
- ABANDONMENT* ☐

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

DATE OF COMPLETION _____

17. 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.)

* Must be accompanied by a cement verification report.

Day of first injection of saltwater into the Ute Tribal 2-4 is 5/10/89.

Injection rate - 1 bbl. per minute

Injection pressure - 1600 psi

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

SIGNED D.S. Sprague TITLE Manager, Engineering DATE 5/18/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER X=Salt Water Injection Well

7. UNIT AGREEMENT NAME: ----------

2. NAME OF OPERATOR: Coors Energy Company

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: P.O. Box 467 Golden, Colorado 80401

9. WELL NO.: 2-4 SWD

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2551' FNL, 1900' FEL, SW/NE

RECEIVED MAY 25 1989 DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.4,T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992' GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) X=Produced water injection			☐
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Produced water injection into the Ute Tribal 2-4 SWD was initiated on a continuous basis on May 10, 1989. The well is currently accepting water at 1/2 bbl. per minute at 1750 psi surface psi. The annulus psi is being continuously recorded. Current volumes average 120 bbls. of water daily. The pump is designed to shut down at 1800 psi.

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

SIGNED Jim Simonton TITLE O/G Supervisor DATE 5/22/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other Salt Water Injection Well
2. NAME OF OPERATOR: Coors Energy Company
3. ADDRESS OF OPERATOR: P.O. Box 467 Golden, Colorado 80401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 2551'FNL, 1900'FEL, SW/4NE/4
   AT TOP PROD. INTERVAL: Same
   AT TOTAL DEPTH: Same
5. LEASE: 14-20-H62-3503
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe
7. UNIT AGREEMENT NAME: ---------
8. FARM OR LEASE NAME: Ute Tribal
9. WELL NO.: 2-4 SWD
10. FIELD OR WILDCAT NAME: Antelope Creek
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.4, T5S-R3W
12. COUNTY OR PARISH: Duchesne
13. STATE: Utah
14. API NO.: 43-013-30879
15. ELEVATIONS (SHOW DF, KDB, AND WD): 5992' GL

RECEIVED JUN 27 1989 DIVISION OF OIL, GAS & MINING

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)*

Permission is requested to acidize perforated interval 5828' - 5846' and 6382' - 76' with 5000 gallons of 7 1/2% acid. The acid job is necessitated by the greater than expected injection pressure required. Current injection rate is 1/2 BPM @ 1700 psi which is the maximum injection pressure allowed.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 6-29-89
By: [illegible]

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED Jim Simonton TITLE O/G Supervisor DATE 6/6/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action is Necessary

*See Instructions on Reverse Side

File

NATIONAL OILWELL

P.O. BOX 1532 ROOSEVELT, UTAH 84066 OFFICE: (801) 722-3693

55-SW-4

WATER ANALYSIS REPORT

COMPANY COORS ENERGY ADDRESS _____ DATE: 8-29-89

SOURCE Ute Tribal 2-4 SWD Disposal DATE SAMPLED 8-28-89 ANALYSIS NO. _____

Analysis		Mg/L (ppm)		*Meq/L
1. pH	9.0			
2. H_2S (Qualitative)	7.0			
3. Specific Gravity	1.005			
4. Dissolved Solids		13,750		
5. Suspended Solids				
6. Anaerobic Bacterial Count	CI C/MI			
7. (Methyl Orange) Alkalinty (HCO_3)		2260		
8. Bicarbonate (HCO_3)	HCO_3	2757	÷61	45 HCO_3
9. Chlorides (Cl)	Cl	6018	÷35.5	170 Cl
10. Sulfates (SO_4)	SO_4	40	÷48	1 SO_4
11. Calcium (Ca)	Ca	24	÷20	1 Ca
12. Magnesium (Mg)	Mg	19	÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		140		
14. Total Iron (Fe)		1.1		
15. Barium (Ba)				
16. Phosphate Residuals				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3	45
1	Mg	SO_4	1
214	Na	Cl	170

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X Meq/L	= Mg/L
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	43	3612
Na_2SO_4	71.03	1	73
NaCl	58.46	170	9938

REMARKS _____

U.S. ENVIRONMENTAL PROTECTION AGENCY	Address(EPA Regional Office) 999-18th Street, Ste 500 Denver, CO 80202-2405 (303)293-1416	
Notice of Inspection	Date 8/31/89	Hour 5:20 pm

Firm Name	Firm Address
Coors Energy Co	Roosevelt, UT
Inspector Name & Title GUSTAV STOLZ, JR. (Petroleum Engr.)	Inspector Signature Gustav Stolz Jr.

Notice of Inspection is hereby given according to Section 1445(b) if Safe Drinking Water Act (42 Y.S.C. §300 f et seq.).

Reason for Inspection

For the purpose of inspecting records, files, paper, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Act and an applicable permit or rule.

Section 1445(b) of the SDWA (42 U.S.C. § 300 j-4 (b)) is quoted on the reverse of this form.

Section 1445.

* * * * *

(b)(1) Except as provided in paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials and a written notice to any supplier of water or other person subject to (A) a national primary drinking water regulation prescribed under section 1412, (B) any applicable underground injection control program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

(2) No entry may be made under the first sentence of paragraph (1) in an establishment, facility, or other property of a supplier of water or other person subject to a national primary drinking water regulation if the establishment, facility, or other property is located in a State which has primary enforcement responsibility for public water systems unless, before written notice of such entry is made, the Administrator (or his representative) notifies the State agency charged with responsibility for safe drinking water of the reasons for such entry. The Administrator shall, upon a showing by the State agency that such an entry will be detrimental to the administration of the State's program of primary enforcement responsibility, take such showing into consideration in determining whether to make such entry. No State agency which receives notice under this paragraph of an entry proposed to be made under paragraph (1) may use the information contained in the notice to inform the person whose property is proposed to be entered of the proposed entry; and if a State agency so uses such information, notice to the agency under this paragraph is not required until such time as the Administrator determines the agency has provided him satisfactory assurances that it will no longer so use information contained in a notice under this paragraph.

(c) Whoever fails or refuses to comply with any requirement of subsection (1) or to allow the Administrator, the Comptroller General, or representatives of either, to enter and conduct any audit or inspection authorized by subsection (b) shall be subject to a civil penalty of not to exceed $25,000.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

JAN 30 1990

RECEIVED
FEB 02 1990
DIVISION OF
OIL, GAS & MINING

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. S. Sprague
Manager, Engineering Services
Coors Energy Company
P. O. Box 467
Golden, Colorado 80402

RE: Completeness Letter: Permit No. UTS249730879, Ute Tribal #2-4 SWD, Antelope Creek Field, Duchesne County, Utah

Dear Mr. Sprague:

Please be advised that with our receipt of your Standby Trust Agreement and Surety Bond No. 2644123 between Coors Energy Company and American Casualty Company of Reading, PA. in the penal sum of $15,000.00, the above-cited **Underground Injection Control (UIC) Permit Application is hereby declared complete** in accordance with 40 CFR 124.3, 144.31, and 146.24. You should be aware that I may ask for additional information as I prepare your draft permit. If so, I will ask that you forward it directly to my attention.

Assuming that everything is satisfactory, you can expect your Draft Permit to be issued in about 30 days. A Public Notice will advise the general public of their opportunity to comment within thirty (30) days of the date of its publication. This will also be your opportunity to comment on the proposed Draft Permit.

The Final Permit can then be issued if there are no public comments. If comments are received, they must be addressed and changes made, if appropriate. Additional time may be required if any of the commenters desire a hearing.

Please address any further questions you have to me at Mail Code 8WM-DW or telephone (303) 293-1416; thank you again for your cooperation.

Sincerely,

Gustav Stolz, Jr. (PE)
UIC Petroleum Engineer

cc: The Ute Indian Tribe
BCC: DIVISION OF OIL, GAS & MINING (UTAH)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

APR 12 1990

RECEIVED
APR 20 1990
DIVISION OF
OIL, GAS & MINING

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

UIC
GLH ✓
DJJ ✓
BGH
COMPUTER
MICROFILM ✓
FILE

Mr. D. S. Sprague, Manager
Engineering Services
Coors Energy Company
P.O. Box 467
Golden, Colorado 80402

RE: Final Permit Transmittal,
UIC Number UTS2497-3100,
Ute Tribal #2-4 SWD Well
Antelope Creek Field,
Duchesne County, Utah

Dear Mr. Sprague:

Transmitted herewith is your Underground Injection Control (UIC) Final Permit for the proposed Ute Tribal #2-4 SWD Well, Antelope Creek Field, Duchesne County, Utah.

The public comment period on the proposed permit action ended on April 9, 1990. There were no comments from either the general public or the landowner who may have been affected by the proposed action. We did receive a letter from you in which you advised that the proposed injection fluids were "...produced Green River **and Wasatch** Formations brine fluids..."; this has been corrected in the Final Permit. The omission of **and Wasatch** from the Draft Permit was an inadvertent typographical omission.

Please note that under the terms of the final permit, you are ONLY authorized to **construct the proposed injection well.** To begin injection, you must fulfill Permit Condition 2 of Part II, Section C, PRIOR TO COMMENCING INJECTION, and then obtain written authorization from EPA to commence injection. In summary, these requirements for your injection well are:

1) the performance of an acceptable, witnessed mechanical integrity test (MIT), and done 2/13/89

2) the submission of a Well Rework Record (Form 7520-12).

You may telephone Mr. Tom Pike, Section Chief, UIC Compliance and Implementation, Denver, Colorado, [(303) 293-1544], to make the necessary arrangements for EPA to witness your required MIT.

Please direct any questions **to the attention of Gustav Stolz at Mail Code 8WM-DW** or you may telephone him at (300) 293-1416.

Sincerely,

Max H. Dodson
Director
Water Management Division

Enclosures: Final Permit

cc: Darren Cuch
UIC Program Director
Ute Indian Tribe

bcc: Dianne R. Nielson,
Director, Utah Div.
OG&M
David E. Little,
District Manager, BLM, Vernal

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

UNDERGROUND INJECTION CONTROL PROGRAM

FINAL PERMIT

Class II Salt Water Disposal Well

Permit No. UTS2497-3100

Well Name: Ute Tribal #2-4 SWD

Field: Antelope Creek Field

County & State: Duchesne County, Utah

issued to:

Coors Energy Company

P.O. Box 467

Golden, Colorado 80402

Date Prepared: April 9, 1990

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PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Coors Energy Company
P.O. Box 467
Golden Colorado 80402

is hereby authorized to convert an existing temporarily abandoned gas production well, commonly known as Ute Tribal #2-4 SWD well, located on the Ute Indian Reservation in the SW/4 NE/4 Section 4, Township 5S, Range 3W of Duchesne County, Utah, into service as a Class II injection well. Injection shall be for the purpose of produced Green River and Wasatch Formations brine fluids disposal into portions of the Green River Sandstone (Eocene) Formation in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of thirty (30) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B.), or except on automatic expiration due to prolonged postponement of construction (Part II, Section A. 6.). The permit shall be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the Ute Indian Tribe or the Utah Division of Oil, Gas and Mining unless either the Tribe or the Utah Division of Oil, Gas, and Mining has adequate authority, and chooses, to adopt and enforce this permit as a Tribal or State permit.

Issued this 12th day of April, 1990.

This permit shall become effective April 12, 1990.

Max H. Dodson, Director
Water Management Division *

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION

1. Casing and Cementing. The existing construction history and well schematic of an uneconomical producing oil well, together with the proposed conversion construction details and schematic submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. The surface and production (long string) casing have been cemented to surface and cement bond logs were submitted with the application. All cement used in the prior construction of the well was designed for the life expectancy of the well. The existing, temporarily abandoned Green River Formation oil well is proposed to be converted to injection service with appropriate modifications of the existing construction; the specific injection interval and construction modifications will be identified on the Well Rework Record (EPA Form 7520-12).

The proposed Conversion Rework Procedure of the existing, temporarily abandoned oil well is included in The Appendix A. The existing Green River production perforations (5,828-5,846' and 6,376-6,382' Kelly Bushing [KB]) have already been injectivity tested and readied for injection service.

2. Tubing and Packer Specifications. Two and seven-eighths (2 7/8)-inch diameter injection tubing will be utilized with an appropriate packer set at approximately 5,695' KB as shown in Appendix A) inside the 5 1/2-inch long string casing; the casing/tubing annulus will be filled with corrosion-inhibited fluid. Injection between the outermost casing protecting the underground sources of drinking water (USDWs) and the wellbore is prohibited.

3. Formation Logging and Testing. The tubing/casing annulus was **mechanical integrity tested (MIT-2/13/89) to 2,500 psi** and uncontaminated samples of the injection interval fluids have been obtained and analyzed. No additional formation logging or testing will be required prior to authorization to inject.

4. Monitoring Devices. The operator shall provide at the time of well conversion and maintain in good operating condition:

(a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;

(b) Two, one-half (1/2) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1) the permanent attachment of one-half (1/2)

inch MIP gauges, or (2) the attachments for equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing annulus. The gauges used shall be of a design to provide (1) a full pressure range of 100 percent greater than the anticipated operating pressure, and (2) a certified deviation accuracy of five (5) percent or less; and

(c) A non-resettable flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

5. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted injection well. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of any workovers or alterations and prior to resuming injection activities, in accordance with Part II, Section C.2.(a).

6. Postponement of Conversion. If the well is not completed, for injection service, within one (1) year from the effective date of this permit, the permit will automatically expire, unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay in construction and confirm the protection of all USDWs. The extension under this section may not exceed one year. Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once a permit expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

B. CORRECTIVE ACTION

The Coors Ute Tribal #1-4 and #3-4, #4-4, and #3-5-E3 are currently active oil production wells and the Ute Tribal #6-4 and #2-3 are shut-in (TA) oil production wells in the Green River Formation; all are within the one-half-mile-radius area of review (AOR). However, the proposed Green River injection zone is present in **only** the Tribal #1-4 and #3-4 wells, and both of these wells are adequately cemented through the injection/production Green River Formation, such that no USDW's will be endangered.

Therefore, the permittee will not be required to take corrective action on any of these six oil production wells within the one-half-mile-radius area of review (AOR).

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with items (a) and (b) as follows:

(a) All conversion construction is complete, and the permittee has submitted a completed Well Rework Record, (Form 7520-12 in Appendix B); and

(i) The Director has inspected or otherwise reviewed the newly converted injection well and notified the operator that it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date of the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. [Note: However, in all circumstances, item (b) below must also be satisfied.]; and

(b) The permittee demonstrates that the well has mechanical integrity in accordance with 40 CFR 146.8 and has received notice from the Director that such a demonstration is satisfactory. The permittee shall notify EPA thirty (30) days prior to conducting this test so that a representative may be present to observe the test.

2. Mechanical Integrity. (Subsequent to Initial Demonstration)

(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. This test shall be for a minimum of 45 minutes at: 1) a pressure of 300 psig measured at the surface, if the well is shut-in, or 2) a pressure differential of 200 psig, if injection activities are continued during the test. The tubing/casing annulus shall be filled with a non-corrosive fluid (either a non-toxic

liquid or the injection liquid) at least 24 hours in advance of the test. Pressure values shall be recorded at five-minute intervals or less. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease in pressure over the 45 minute period.

(b) Schedule for Demonstrations of Mechanical Integrity. A demonstration of mechanical integrity shall be made at regular intervals, no less frequently than every five (5) years from the effective date of this permit, in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. Initiation of mechanical integrity demonstrations will be according to the following provisions.

(i) It shall be the permittee's responsibility to arrange and conduct the routine five-year demonstrations. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(c) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR 146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit. Furthermore, injection activities shall be terminated immediately; and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Intervals. Injection shall be permitted for portions of the Greeen River (Eocene) Formation in the subsurface interval of approximately 5,828-5,846' and 6,376-6,382' KB. Injection perforations may be added or squeezed-off so long as they are within the entire Green River Formation interval, and any reworking of the well is properly reported (EPA Form 7520-12) and the well is mechanically integrity tested.

4. Injection Pressure Limitation.

(a) Injection pressure measured at the surface, shall not exceed 1700 pounds per square inch (psig), (the "kill-switch" pressure setting) as indicated by the permittee for injection into the Green River Formation.

(b) The injection pressure limitation in paragraph (a) may be increased by the Director if the fracture pressure of the injection formation will not be exceeded, and the permittee demonstrates either:

(i) that the proposed increase in surface injection pressure is necessary to overcome friction losses in the system. This demonstration shall be made by performing a valid step-rate injection test in the respective proposed injection zone(s). The Director will determine any allowable increase based upon the step-rate test results and other parameters reflecting actual injection operations, or

(ii) that the proposed increase in surface injection pressure is necessary to inject the volume rate of fluid set by Part II, Section C. 5., below. The demonstration required under this paragraph will be based upon the specific injection operation and a step-rate test.

(c) The permittee shall give thirty (30) days advance notice to the Director if the increase in paragraph (b) will be sought. Details of the proposed test shall be submitted at least seven (7) days in advance of the proposed test date so that the Director has adequate time to review and approve the test procedures. Results of all tests shall be submitted to the Director within ten (10) days of the test for his approval, in writing, before the permittee may begin continuous operation at an increased pressure.

(d) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

5. Injection Volume (Rate) Limitation.

(a) No more than 1,000 barrels of water per day (BWPD) of produced brine fluids shall be reinjected into the Green River/Wasatch Formation in this well. Further, in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(a) of this permit.

(b) The permittee may request an increase in the allowable rate as shown in paragraph (a). Any such request shall be made in writing to the Director.

(c) Should any increase in rate be requested, the permittee shall demonstrate to the satisfaction of the Director that the increase in volume will not cause migration of formation or injected fluids into any USDW, nor cause any injected fluids to move beyond the one-half mile Area of Review boundary.

6. Injection Fluid Limitation. The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, at any time during the operation of the facility. Fluids to be injected other than the Green River/Wasatch Formation brine fluids in the range of approximately 12,500-22,200 mg/l TDS, shall be limited to occasional minor amounts of well treatment fluids, such as dilute and spent acids, corrosion inhibiting fluids, etc., as related to oil and/or gas production from the Green River/Wasatch Formations in the Antelope Creek Field area. Any additional fluid additives contained in the produced fluids shall also be identified and reported along with the routine annual report information in D.1.(a)(i) below. The source of any fluids other than those explicitly allowed by the permit must be reported to the Director within thirty (30) days of any change in injection fluids.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with a corrosion inhibiting solution; the industry-acceptable solution proposed by the permittee is approved by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

(a) Analysis of the injection fluids, performed:

(i) quarterly for Total Dissolved Solids, major ions, pH, Specific Conductivity, and Specific Gravity; and,

(ii) whenever there is a change in the source of injection fluids.

(b) Weekly observations of injection pressure, flow rate and cumulative volume. At least one observation of

injection pressure, volume flow rate, and cumulative volume, shall be recorded at regular intervals no greater than thirty (30) days.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time of sampling or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples;

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(g) The results of such analyses.

3. Recordkeeping.

(a) The permittee shall retain records concerning:

(i) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The permittee shall maintain copies (or originals) of all pertinent monthly observation records [Part II., Section D.1.(b)] available for inspection at the lease facility.

4. Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the monitoring required by Part II, Section D. 1. of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover the period from the effective date of the permit through December 31. Subsequently, the Annual Report shall cover the period of January 1 through December 31, and shall be submitted by February 15 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before further conversion, workover, or abandonment of the well.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless he:

(a) has provided notice to the Director, and

(b) has demonstrated that the well will be used in the future, and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee has submitted an acceptable surety performance bond (American Casualty Company of Reading, PA., No. 2644123) in the amount of $15,000, which demonstrates permittee financial responsibility for plugging and abandonment requirements, together with an executed companion standby trust agreement, Colorado National Bank of Denver, Trustee.

(b) The permittee may, upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from surety performance bond coverage to another acceptable financial assurance demonstration. Any such change must be approved by the Director. A minor permit modification will be maade to reflect the change in financial assurance demonstration without any further opportunity for public comment.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) above, the permittee must submit a subsequent alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of following events occur:

(a) the institution issuing the aaaalternate financial responsibility demonstration or trust agreement files for bankruptcy; or

(b) the authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. Also the permit is subject to minor modifications for cause as specified in 40 CFR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow-up demonstration of mechanical integrity, and well-specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CFR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee, and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such non-compliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CFR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning EPA at (303) 293-1413 (during normal business hours) or at (303) 293-1788 (for reporting at all other times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

(ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue;

and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information became known to him.

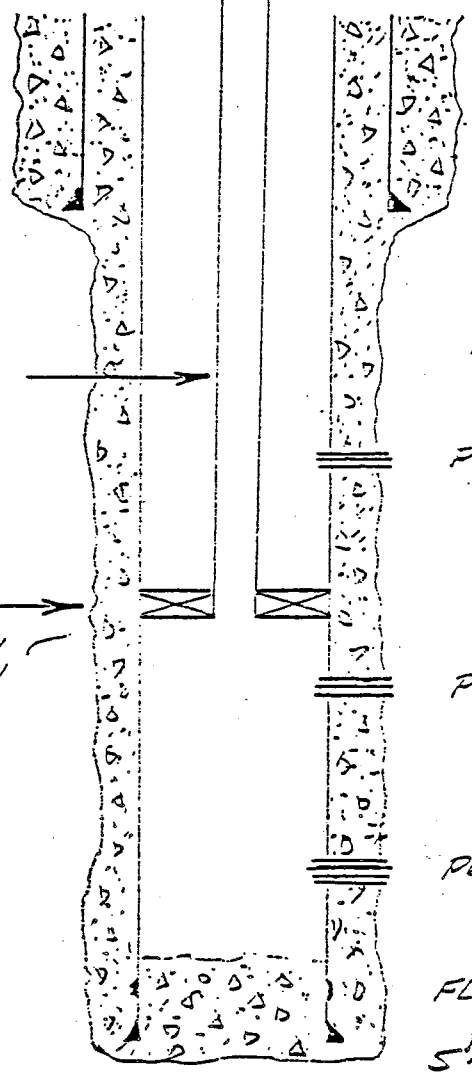
APPENDIX A - (Construction Procedures)

Existing/Converted Construction Schematic

SCHEMATIC WELLBORE DIAGRAM

COOKS ENERGY COMPANY
UTE TRIBAL 2-4

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH



12 1/4" SURFACE HOLE

8 5/8" 24#/FT K-55 @ 334'
CMT W/ 290 SKS CL G
TOC @ SURFACE

7 7/8" HOLE FROM 334' TO TD

2 7/8" OD TUBING
EUE J-55

PERFORATED 3987'-4010'
SQUEEZED W/ 250 SKS CL H
FINAL SQUEEZE @ 3000 PSI

MTN STATES
5 1/2" X 2 7/8" ARROW
SET 1 PACKER W/
7000 # TENSION
@ 5695'

PERFORATED 5828'-5846'
4 JSPF

PERFORATED 6376'-6382'
4 JSPF

FLOAT COLLAR @ 6733'

5 1/2" 15.50 #/FT K-55 @ 6775'
(14 JTS OF 17 #/FT ON TOP)
CMT W/ 250 SKS LIGHT AND
1200 SKS 50/50 POZMIX
W/ 10% SALT
TOC @ SURFACE

TD: 6790'

APPENDIX B - (Reporting Forms and Instructions)

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: WELL COMPLETION REPORT
3. EPA Form 7520-11: ANNUAL WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD

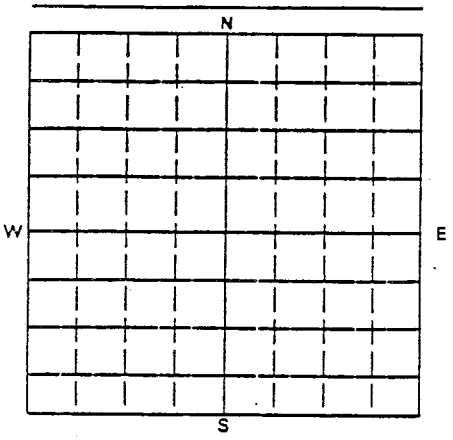
EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells _____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-7 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

COMPLE..ON REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-91

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W
E
S

STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval
Average	Maximum	Feet to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average	Maximum	

Type of Injection Fluid *(Check the appropriate block(s))*

- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name | Well Number

Name of Injection Zone

Date Drilling Began | Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING

OD Size	Wt/Ft — Grade — New or Used	Depth

CEMENT / HOLE

Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION

Interval Treated	Materials and Amount Used

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

AME AND OFFICIAL TITLE *(Please type or print)*

DATE SIGNED

Form 7520-10 (2-84)

UIC Permit Number UTS2497-3100

EPA

D STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W
E
S

STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Lease Name | Well Number

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)* | SIGNATURE | DATE SIGNED

UIC Permit Number UTS2497-3100

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY		TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth Before Rework	☐ Individual ☐ Area Number of Wells _____
	Total Depth After Rework	
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UIC Permit Number UTS2497-3100

EPA Form 7520-12 (2-84)

Form Approved. OMB No. 2000-0042 Approval expires 9-30-91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

- ☐ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

- ☐ CLASS I
- ☐ CLASS II
  - ☐ Brine Disposal
  - ☐ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative	Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprinsonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UIC Permit Number UTS2497-3100

EPA Form 7520-13 (1-84)

APPENDIX C - (Plugging & Abandonment Plan)

1. Plugging & Abandonment Plan
2. Plugging & Abandonment Plan Schematic

EPA

PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

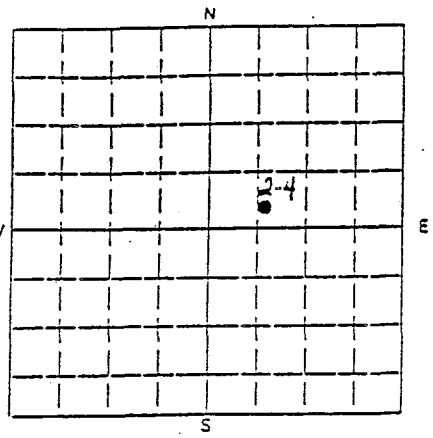
Ute Tribal 2-4

NAME AND ADDRESS OF OWNER/OPERATOR

Coors Energy Company
PO Box 467
Golden, Colorado 80402

STATE	COUNTY	PERMIT NUMBER
UT	Duchesne	UTS2497-3100

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



SURFACE LOCATION DESCRIPTION

SW ¼ OF NE ¼ OF ¼ SECTION 4 TOWNSHIP 5S RANGE 3W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 2551 ft. from (N/S) N Line of quarter section

and 1900 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
- ☒ CLASS II
  - ☒ Brine Disposal
  - ☐ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

Lease Name Ute Tribal

Well Number 2-4

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8-5/8"	24.00#		384'	12-1/4"
5-1/2"	15.50/17.00#		6775'	7-7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5-1/2	5-1/2	5-1/2	5-1/2			
Depth to Bottom of Tubing or Drill Pipe (ft.)	6432'	5896'	434'	50'			
Sacks of Cement To Be Used (each plug)	20	21	12	6			
Slurry Volume To Be Pumped (cu. ft.)	23	24	13	7			
Calculated Top of Plug (ft.)	6326'	5778'	334'	surf			
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8	15.8	15.8	15.8			
Type Cement or Other Material (Class III)	G	G	G	G			

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
6376'	6382'		
5828'	5846'		

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH

Estimated Cost to Plug Wells

$15,000

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

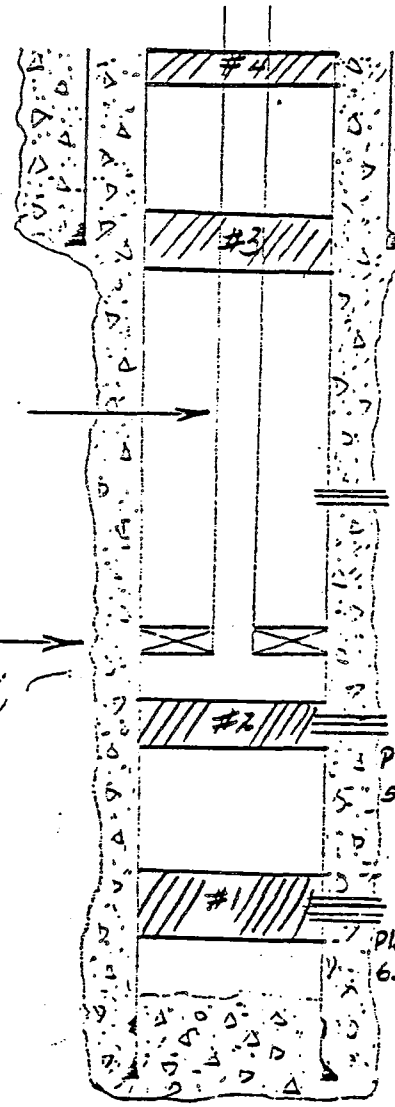
NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
Manager, Engineering Services Doug Sprague	D. S. Sprague	3/24/89

Plugging & Abandonment

SCHEMATIC WELLBORE DIAGRAM

COOKS ENERGY COMPANY
UTE TRIBAL 2-4

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

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MAR 05 1990
DIVISION OF
OIL, GAS & MINING

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PUBLIC NOTICE OF INTENT TO ISSUE

AN UNDERGROUND INJECTION CONTROL (UIC) CLASS II PERMIT

TO

COORS ENERGY COMPANY

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to solicit public comment on the proposal by the Region VIII Office of the U.S. Environmental Protection Agency (EPA) to issue an UIC permit to inject fluids underground via a Class II injection well, identified as Ute Tribal #2-4 SWD water disposal well, Antelope Creek Field, on the Uintah/Ouray Indian Reservation in the SW/4 NE/4 Section 4, T5S, R3W of Duchesne County, Utah.

BACKGROUND

The U. S. Environmental Protection Agency (EPA) Region VIII is currently reviewing an application for an Underground Injection Control (UIC) Permit from Coors Energy Company, P.O. Box 467, Golden, Colorado 80402, regarding the proposed injection of brine fluids for the purpose of their disposal. These brine fluids are associated with oil and/or gas production from the Green River/Wasatch Formation in Antelope Creek Field, located on the Uintah/Ouray Indian Reservation in Duchesne County, Utah. Coors Energy Company has proposed to dispose these fluids into a newly converted, existing uneconomical oil well by reinjection into the Green River/Wasatch (Eocene) Formation (approximately 5,828-5,846' and 6,376-6,382' KB). Coors proposes to utilize the newly converted Ute Tribal #2-4 SWD Class IID injection well located in the Antelope Creek Field on the Uintah/Ouray Indian Reservation.

The Green River/Wasatch Formation produced water quality in this area is greater than 12,000 mg/l total dissolved solids (TDS) and currently does not serve as a source of drinking water, nor is it reasonably expected to do so in the future because of the greater-than 12,000 mg/l TDS. A number of uncontaminated produced water samples from this proposed injection zone have been analyzed and the analyses submitted with the permit

application. The Green River/Wasatch Formation water quality varies from 12,500 to 22,200 mg/l TDS as indicated by these analyses.

Coors Energy Company has submitted all of the required information and data necessary for the issuance of this proposed UIC Permit. EPA has made a preliminary determination to approve this permit application and that, by doing so, all underground sources of drinking water (USDWs) will be protected. Therefore, EPA is hereby serving notice of intent to issue this UIC permit for the proposed underground injection activities. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations.

PUBLIC COMMENTS

All non-proprietary data submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for this Coors Energy Company proposed Class II injection well in the Antelope Creek Field, Uintah/Ouray Indian Reservation. This information is available for public inspection at this location from 9:00 a.m. to 5:00 p.m., or by contacting the following office:

Environmental Protection Agency, Region VIII
Ground Water Section, 8WM-DW
999 - 18th Street, Suite 500
Denver, Colorado 80202-2405
Telephone (303) 293-1416
Attn: Gustav Stolz

Public comments are encouraged and will be accepted, in writing, at the Denver Office for a period of 30 days after publication of this notice. A request for a public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

FINAL PERMIT DECISIONS AND APPEAL PROCESS.

After the close of the public comment period, EPA will issue a final permit decision, and will notify all commenters regarding this decision. The final decision may be to: issue, deny, modify, or revoke and reissue the permit. The final decision shall become effective thirty (30) days after the final decision is issued, unless no commenters requested a substantial change in the draft permit and no substantial changes were made from the draft permit to the final permit, in which case the permit shall become effective immediately upon issuance.

Within thirty (30) days after the final permit decision has been issued, any person who filed comments on the draft permit; participated in a public hearing; or takes issue with any changes in the draft permit, may petition the Director to review the permit decision. Commenters are referred to 40 CFR Sections 124.15 through 124.20 for procedural requirements of the appeal process.

MAR 0 6 1990
Date of Publication

for Max H. Dodson
Director
Water Management Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

FEB 28 1990

RECEIVED
MAR 06 1990
DIVISION OF
OIL, GAS & MINING

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. S. Sprague, Manager
Engineering Services
Coors Energy Company
P.O. Box 467
Golden, Colorado 80402

RE: Draft Permit Cover Letter,
UIC Permit No. UTS2487-3100
Ute Tribal #2-4 SDW,
Antelope Creek Field,
Duchesne County, Utah

Dear Mr. Sprague:

Transmitted herewith is an Underground Injection Control (UIC) Draft Permit for your proposed Ute Tribal #2-4 SWD brine fluids disposal injection well in Antelope Creek Field, Duchesne County, Utah. A Statement of Basis is enclosed which discusses the development of the Permit in significant detail.

A Public Notice, a copy of which is enclosed, is to be published in the Vernal Express in the near future. This notice advises the general public of their opportunity to comment. An individual notice has also been sent to the surface landowners in the area who may be affected by the proposed action.

The public comment period on the proposed permit action will run for thirty (30) days from the date of publication. You may call Ms. Edna Walton at (303) 293-1700 to obtain the exact deadline for public comments. Please note that this time period is also your opportunity to carefully inspect these documents and to comment on those you may disagree with, and/or to be sure that

you are aware of and agree with all of the permit conditions stated therein.

Please direct all related correspondence to the attention of Gustav Stolz at Mail Code 8WM-DW or telephone at (303) 293-1416.

Sincerely,

Max H. Dodson
Director
Water Management Division

Enclosures: Draft Permit
Statement of Basis
Public Notice

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
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MAR 0 6 1990

Date of Publication

for Max H. Dodson
Director
Water Management Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

UNDERGROUND INJECTION CONTROL PROGRAM

DRAFT PERMIT

Class II Salt Water Disposal Well

Permit No. UTS2497-3100

Well Name: Ute Tribal #2-4 SWD

Field: Antelope Creek Field

County & State: Duchesne County, Utah

issued to:

Coors Energy Company

P.O. Box 467

Golden, Colorado 80402

Date Prepared: February 12, 1990

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PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Coors Energy Company
P.O. Box 467
Golden Colorado 80402

is hereby authorized to convert an existing temporarily abandoned gas production well, commonly known as Ute Tribal #2-4 SWD well, located on the Ute Indian Reservation in the SW/4 NE/4 Section 4, Township 5S, Range 3W of Duchesne County, Utah, into service as a Class II injection well. Injection shall be for the purpose of produced Green River Formation brine fluids disposal into portions of the Green River Sandstone (Eocene) Formation in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of thirty (30) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B.), or except on automatic expiration due to prolonged postponement of construction (Part II, Section A. 6.). The permit shall be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the Ute Indian Tribe or the Utah Division of Oil, Gas and Mining unless either the Tribe or the Utah Division of Oil, Gas, and Mining has adequate authority, and chooses, to adopt and enforce this permit as a Tribal or State permit.

Issued this _____ day of _____, 1990.

This permit shall become effective _____.

DRAFT

_____
Max H. Dodson, Director
Water Management Division *

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION

1. Casing and Cementing. The existing construction history and well schematic of an uneconomical producing oil well, together with the proposed conversion construction details and schematic submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. The surface and production (long string) casing have been cemented to surface and cement bond logs were submitted with the application. All cement used in the prior construction of the well was designed for the life expectancy of the well. The existing, temporarily abandoned Green River Formation oil well is proposed to be converted to injection service with appropriate modifications of the existing construction; the specific injection interval and construction modifications will be identified on the Well Rework Record (EPA Form 7520-12).

The proposed Conversion Rework Procedure of the existing, temporarily abandoned oil well is included in The Appendix A. The existing Green River production perforations (5,828-5,846' and 6,376-6,382' Kelly Bushing [KB]) have already been injectivity tested and readied for injection service.

2. Tubing and Packer Specifications. Two and seven-eighths (2 7/8)-inch diameter injection tubing will be utilized with an appropriate packer set at approximately 5,695' KB as shown in Appendix A) inside the 5 1/2-inch long string casing; the casing/tubing annulus will be filled with corrosion-inhibited fluid. Injection between the outermost casing protecting the underground sources of drinking water (USDWs) and the wellbore is prohibited.

3. Formation Logging and Testing. The tubing/casing annulus was **mechanical integrity tested (MIT-2/13/89) to 2,500 psi** and uncontaminated samples of the injection interval fluids have been obtained and analyzed. No additional formation logging or testing will be required prior to authorization to inject.

4. Monitoring Devices. The operator shall provide at the time of well conversion and maintain in good operating condition:

(a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;

(b) Two, one-half (1/2) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1) the permanent attachment of one-half (1/2)

inch MIP gauges, or (2) the attachments for equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing annulus. The gauges used shall be of a design to provide (1) a full pressure range of 100 percent greater than the anticipated operating pressure, and (2) a certified deviation accuracy of five (5) percent or less; and

(c) A non-resettable flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

5. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted injection well. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of any workovers or alterations and prior to resuming injection activities, in accordance with Part II, Section C.2.(a).

6. Postponement of Conversion. If the well is not completed, for injection service, within one (1) year from the effective date of this permit, the permit will automatically expire, unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay in construction and confirm the protection of all USDWs. The extension under this section may not exceed one year. Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once a permit expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

B. CORRECTIVE ACTION

The Coors Ute Tribal #1-4 and #3-4, #4-4, and #3-5-E3 are currently active oil production wells and the Ute Tribal #6-4 and #2-3 are shut-in (TA) oil production wells in the Green River Formation; all are within the one-half-mile-radius area of review (AOR). However, the proposed Green River injection zone is present in **only** the Tribal #1-4 and #3-4 wells, and both of these wells are adequately cemented through the injection/production Green River Formation, such that no USDW's will be endangered.

Therefore, the permittee will not be required to take corrective action on any of these six oil production wells within the one-half-mile-radius area of review (AOR).

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with items (a) and (b) as follows:

(a) All conversion construction is complete, and the permittee has submitted a completed Well Rework Record, (Form 7520-12 in Appendix B); and

(i) The Director has inspected or otherwise reviewed the newly converted injection well and notified the operator that it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date of the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. [Note: However, in all circumstances, item (b) below must also be satisfied.]; and

(b) The permittee demonstrates that the well has mechanical integrity in accordance with 40 CFR 146.8 and has received notice from the Director that such a demonstration is satisfactory. The permittee shall notify EPA thirty (30) days prior to conducting this test so that a representative may be present to observe the test.

2. Mechanical Integrity. (Subsequent to Initial Demonstration)

(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. This test shall be for a minimum of 45 minutes at: 1) a pressure of 300 psig measured at the surface, if the well is shut-in, or 2) a pressure differential of 200 psig, if injection activities are continued during the test. The tubing/casing annulus shall be filled with a non-corrosive fluid (either a non-toxic

liquid or the injection liquid) at least 24 hours in advance of the test. Pressure values shall be recorded at five-minute intervals or less. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease in pressure over the 45 minute period.

(b) Schedule for Demonstrations of Mechanical Integrity. A demonstration of mechanical integrity shall be made at regular intervals, no less frequently than every five (5) years from the effective date of this permit, in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. Initiation of mechanical integrity demonstrations will be according to the following provisions.

(i) It shall be the permittee's responsibility to arrange and conduct the routine five-year demonstrations. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(c) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR 146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit. Furthermore, injection activities shall be terminated immediately; and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Intervals. Injection shall be permitted for portions of the Greeen River (Eocene) Formation in the subsurface interval of approximately 5,828-5,846' and 6,376-6,382' KB. Injection perforations may be added or squeezed-off so long as they are within the entire Green River Formation interval, and any reworking of the well is properly reported (EPA Form 7520-12) and the well is mechanically integrity tested.

4. Injection Pressure Limitation.

(a) Injection pressure measured at the surface, shall not exceed 1700 pounds per square inch (psig), (the "kill-switch" pressure setting) as indicated by the permittee for injection into the Green River Formation.

(b) The injection pressure limitation in paragraph (a) may be increased by the Director if the fracture pressure of the injection formation will not be exceeded, and the permittee demonstrates either:

(i) that the proposed increase in surface injection pressure is necessary to overcome friction losses in the system. This demonstration shall be made by performing a valid step-rate injection test in the respective proposed injection zone(s). The Director will determine any allowable increase based upon the step-rate test results and other parameters reflecting actual injection operations, or

(ii) that the proposed increase in surface injection pressure is necessary to inject the volume rate of fluid set by Part II, Section C. 5., below. The demonstration required under this paragraph will be based upon the specific injection operation and a step-rate test.

(c) The permittee shall give thirty (30) days advance notice to the Director if the increase in paragraph (b) will be sought. Details of the proposed test shall be submitted at least seven (7) days in advance of the proposed test date so that the Director has adequate time to review and approve the test procedures. Results of all tests shall be submitted to the Director within ten (10) days of the test for his approval, in writing, before the permittee may begin continuous operation at an increased pressure.

(d) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

5. Injection Volume (Rate) Limitation.

(a) No more than 1,000 barrels of water per day (BWPD) of produced brine fluids shall be reinjected into the Green River/Wasatch Formation in this well. Further, in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(a) of this permit.

(b) The permittee may request an increase in the allowable rate as shown in paragraph (a). Any such request shall be made in writing to the Director.

(c) Should any increase in rate be requested, the permittee shall demonstrate to the satisfaction of the Director that the increase in volume will not cause migration of formation or injected fluids into any USDW, nor cause any injected fluids to move beyond the one-half mile Area of Review boundary.

6. Injection Fluid Limitation. The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, at any time during the operation of the facility. Fluids to be injected other than the Green River/Wasatch Formation brine fluids in the range of approximately 12,500-22,200 mg/l TDS, shall be limited to occasional minor amounts of well treatment fluids, such as dilute and spent acids, corrosion inhibiting fluids, etc., as related to oil and/or gas production from the Green River/Wasatch Formations in the Antelope Creek Field area. Any additional fluid additives contained in the produced fluids shall also be identified and reported along with the routine annual report information in D.1.(a)(i) below. The source of any fluids other than those explicitly allowed by the permit must be reported to the Director within thirty (30) days of any change in injection fluids.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with a corrosion inhibiting solution; the industry-acceptable solution proposed by the permittee is approved by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

(a) Analysis of the injection fluids, performed:

(i) quarterly for Total Dissolved Solids, major ions, pH, Specific Conductivity, and Specific Gravity; and,

(ii) whenever there is a change in the source of injection fluids.

(b) Weekly observations of injection pressure, flow rate and cumulative volume. At least one observation of

injection pressure, volume flow rate, and cumulative volume, shall be recorded at regular intervals no greater than thirty (30) days.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time of sampling or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples;

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(g) The results of such analyses.

3. Recordkeeping.

(a) The permittee shall retain records concerning:

(i) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The permittee shall maintain copies (or originals) of all pertinent monthly observation records [Part II., Section D.1.(b)] available for inspection at the lease facility.

4. Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the monitoring required by Part II, Section D. 1. of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover the period from the effective date of the permit through December 31. Subsequently, the Annual Report shall cover the period of January 1 through December 31, and shall be submitted by February 15 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before further conversion, workover, or abandonment of the well.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless he:

(a) has provided notice to the Director, and

(b) has demonstrated that the well will be used in the future, and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee has submitted an acceptable surety performance bond (American Casualty Company of Reading, PA., No. 2644123) in the amount of $15,000, which demonstrates permittee financial responsibility for plugging and abandonment requirements, together with an executed companion standby trust agreement, Colorado National Bank of Denver, Trustee.

(b) The permittee may, upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from surety performance bond coverage to another acceptable financial assurance demonstration. Any such change must be approved by the Director. A minor permit modification will be maade to reflect the change in financial assurance demonstration without any further opportunity for public comment.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) above, the permittee must submit a subsequent alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of following events occur:

(a) the institution issuing the aaaalternate financial responsibility demonstration or trust agreement files for bankruptcy; or

(b) the authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. Also the permit is subject to minor modifications for cause as specified in 40 CFR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow-up demonstration of mechanical integrity, and well-specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CFR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee, and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such non-compliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CFR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning EPA at (303) 293-1413 (during normal business hours) or at (303) 293-1788 (for reporting at all other times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

(ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue;

and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information became known to him.

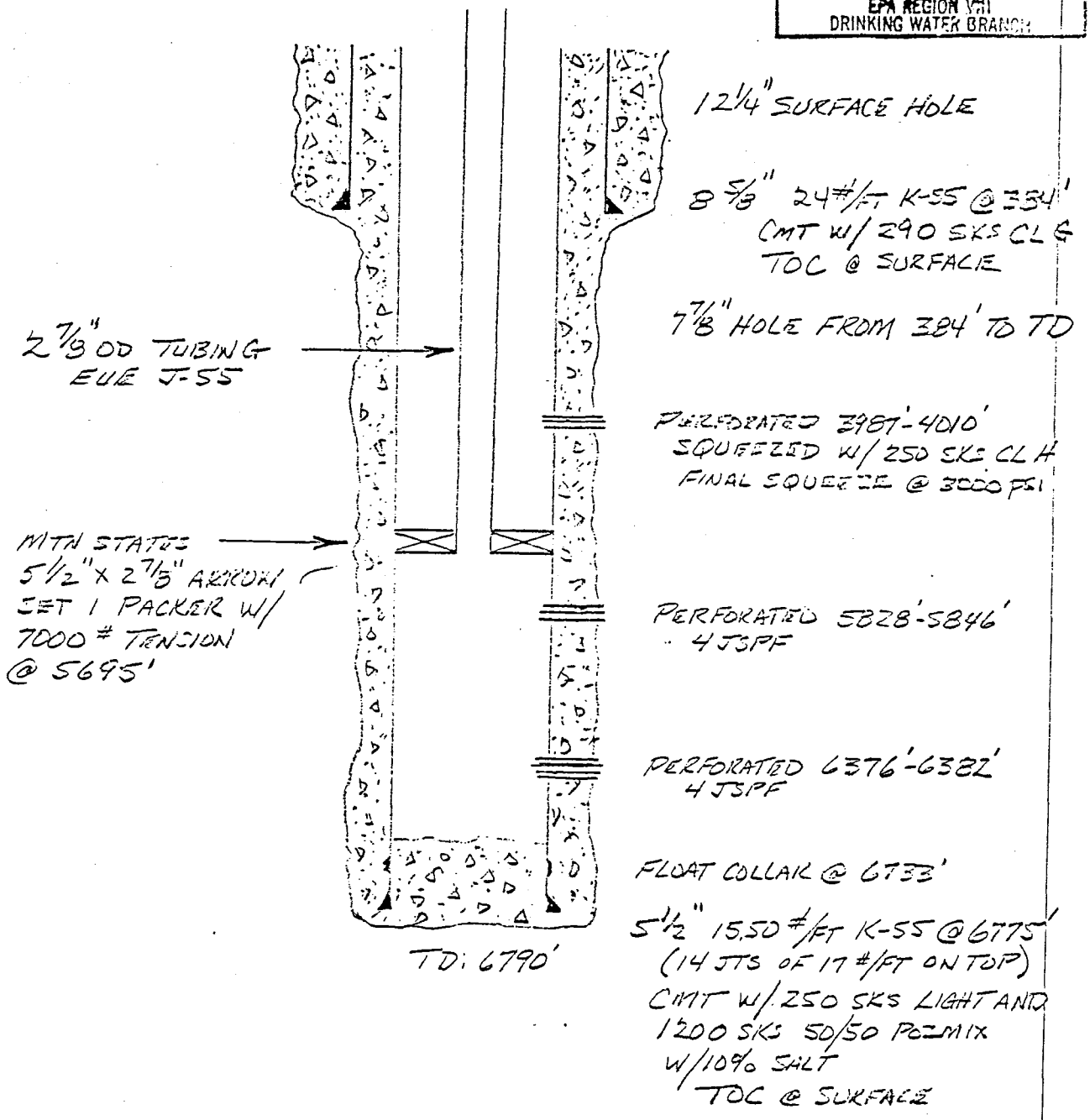
APPENDIX A - (Construction Procedures)

Existing/Converted Construction Schematic

SCHEMATIC WELLBORE DIAGRAM

COOKS ENERGY COMPANY
UTE TRIBAL 2-4

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH



APPENDIX B - (Reporting Forms and Instructions)

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: WELL COMPLETION REPORT
3. EPA Form 7520-11: ANNUAL WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD

Form Approved. OMB No. 2040-0042. Expires 9-30-91

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells _____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-7 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-91

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W
E
S

STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)	
Average	Maximum		

Type of Injection Fluid *(Check the appropriate block(s))*

- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name | Well Number

Name of Injection Zone

Date Drilling Began | Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS. LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)* | DATE SIGNED

UIC Permit Number UTS2497-3100

EPA Form 7520-10 (2-84)

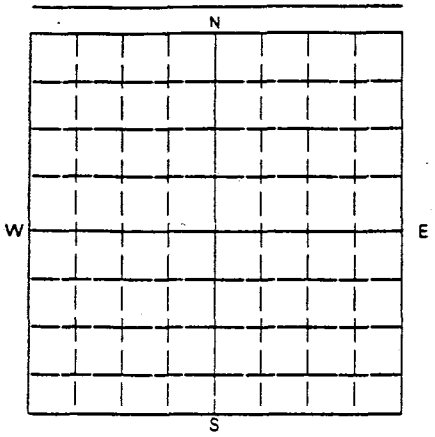
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Lease Name Well Number

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG

CERTIFICATION

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NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UIC Permit Number UTS2497-3100

EPA Form 7520-11 (2-84)

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

STATE | COUNTY | PERMIT NUMBER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

☐ Individual
☐ Area
Number of Wells _____

Well Number

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*

SIGNATURE

DATE SIGNED

UIC Permit Number UTS2497-3100

Form Approved. OMB No. 2000-0042 Approval expires 9-30-91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

- ☐ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

- ☐ CLASS I
- ☐ CLASS II
  - ☐ Brine Disposal
  - ☐ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative	Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprinsonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UIC Permit Number UTS2497-3100

EPA Form 7520-12 (1-84)

APPENDIX C - (Plugging & Abandonment Plan)

1. Plugging & Abandonment Plan
2. Plugging & Abandonment Plan Schematic

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

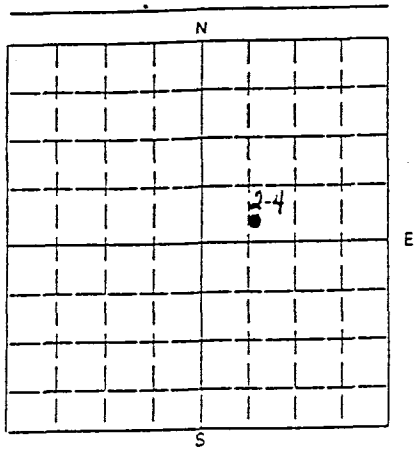
Ute Tribal 2-4

NAME AND ADDRESS OF OWNER/OPERATOR

Coors Energy Company
PO Box 467
Golden, Colorado 80402

PERMIT NUMBER UTS2497-3100

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY
UT	Duchesne

SURFACE LOCATION DESCRIPTION

SW ¼ OF NE ¼ OF ¼ SECTION 4 TOWNSHIP 5S RANGE 3W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 2551 ft. from (N/S) N Line of quarter section

and 1900 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION

- [X] Individual Permit
- [ ] Area Permit
- [ ] Rule

Number of Wells 1

Lease Name Ute Tribal

WELL ACTIVITY

- [ ] CLASS I
- [X] CLASS II
  - [X] Brine Disposal
  - [ ] Enhanced Recovery
  - [ ] Hydrocarbon Storage
- [ ] CLASS III

Well Number 2-4

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8-5/8"	24.00#		384'	12-1/4"
5-1/2"	15.50/17.00#		6775'	7-7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- [X] The Balance Method
- [ ] The Dump Bailer Method
- [ ] The Two-Plug Method
- [ ] Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5-1/2	5-1/2	5-1/2	5-1/2			
Depth to Bottom of Tubing or Drill Pipe (ft.)	6432'	5896'	434'	50'			
Sacks of Cement To Be Used (each plug)	20	21	12	6			
Slurry Volume To Be Pumped (cu. ft.)	23	24	13	7			
Calculated Top of Plug (ft.)	6326'	5778'	334'	surf.			
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8	15.8	15.8	15.8			
Type Cement or Other Material (Class III)	G	G	G	G			

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED *(If any)*

From	To	From	To
6376'	6382'		
5828'	5846'		

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH

Estimated Cost to Plug Wells

$15,000

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

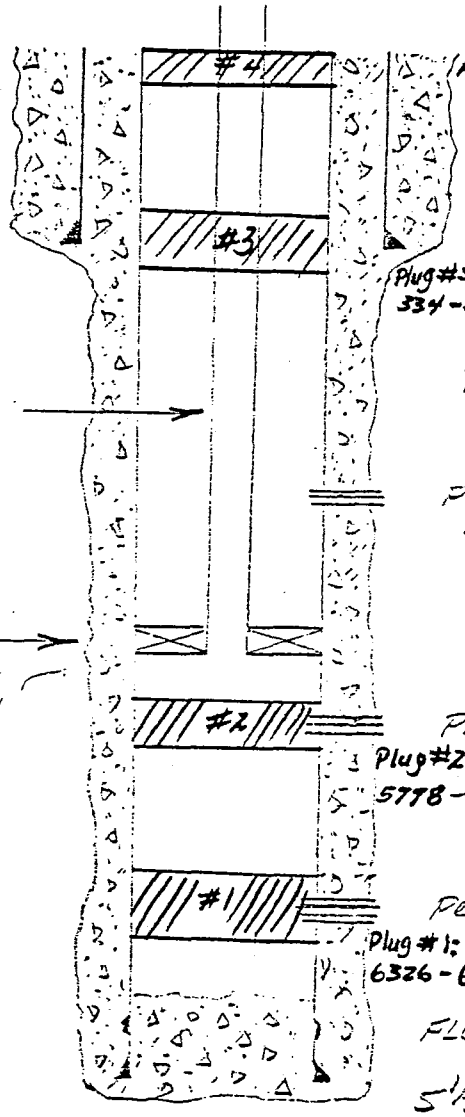
NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Manager, Engineering Services Doug Sprague	D. S. Sprague	3/24/89

Plugging & Abandonment

SCHEMATIC WELLBORE DIAGRAM

COOKS ENERGY COMPANY
UTE TRIBAL 2-4

RECEIVED
MAR 28 1989
EPA REGION VIII
DRINKING WATER BRANCH



Plug #4: 0-50'

12 1/4" SURFACE HOLE

8 5/8" 24#/FT K-55 @ 354'
CMT W/ 290 SKS CL G
TOC @ SURFACE

Plug #3: 334-434'

7 7/8" HOLE FROM 384' TO TD

2 7/8" OD TUBING
EUE J-55

PERFORATED 3987'-4010'
SQUEEZED W/ 250 SKS CL H
FINAL SQUEEZE @ 3000 PSI

MTN STATES
5 1/2" X 2 7/8" AKKOM
SET 1 PACKER W/
7000 # TENSION
@ 5695'

PERFORATED 5828'-5846'

Plug #2: 4 JSPF
5778-5896'

PERFORATED 6376'-6382'

Plug #1: 4 JSPF
6326-6432'

FLOAT COLLAR @ 6733'

5 1/2" 15.50 #/FT K-55 @ 6775'
(14 JTS OF 17 #/FT ON TOP)
CMT W/ 250 SKS LIGHT AND
1200 SKS 50/50 POZMIX
W/ 10% SALT
TOC @ SURFACE

TD: 6790'

STATEMENT OF BASIS

COORS ENERGY COMPANY

UTE TRIBAL #2-4 SWD

UIC PERMIT NUMBER: UTS2497-3100

SPECIFIC WELL INFORMATION:

Ute Tribal #2-4 SWD
UTS2497-3100
SW NE Section 4, T5S R3W
Antelope Creek Field
Duchesne County, Utah

CONTACTS:

U.S. Environmental Protection Agency
Region VIII, 8WM-DW
Ground Water Section (8WM-DW)
999 - 18th Street, Suite 500
Denver, Colorado 80202-2405
Attn: Gustav Stolz, Jr.
UIC Petroleum Engineer
Telephone: (303) 293-1416

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION

On March 24, 1989, Coors Energy Company, of Golden, Colorado, filed a letter with EPA submitting the necessary information for their permit application for an underground injection control (UIC) permit. The UIC permit application is for the reinjection disposal of produced Green River/Wasatch Formation brine fluids of approximately 12,500-22,200 mg/l total dissolved solids (TDS) into the existing uneconomical former oil production well located in the Antelope Creek Field as indicated above.

The well will reinject into the existing 5,828-5,846' and 6,376-6,382' KB perforated interval of the Green River/Wasatch Sand Formation in the Antelope Creek Field. It was proposed that an approximate maximum of 1,000 barrels of produced brine fluids will be reinjected each day. The formation water quality was indicated to be in the range of 12,500-22,200 mg/l TDS from the analyses of a number of produced water samples from the production/reinjection interval, thus no aquifer exemption will be required. In addition,

the near-surface aluvium sands (at a depth of about less than 400 feet and well above the Green River/Wasatch injection zone) have been determined by the State of Utah to be the lower-most underground source of drinking water (USDW) in this general Antelope Creek Field area.

Coors has submitted all required information and data necessary for an injection permit issuance in accordance with 40 CFR Parts 144, 146, and 147, and an appropriate draft permit has been prepared.

The permit will be issued for the remaining operating life, about fifteen years, of the existing oil recovery operation in the Antelope Creek Field; therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR 144.39, 144.40, and 144.41). However, this permit will be reviewed every five years.

This Statement of Basis gives the derivation of the site specific permit conditions and reasons for them on the basis of the direct implementation regulations promulgated for the Ute Indian Tribal lands on the Uintah/Ouray Reservation in the State of Utah under the UIC program provisions of the Safe Drinking Water Act. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146, and 147), are not included in the following discussion.

Part II.
Section A - Well Construction
CASING & CEMENTING: (Condition 1)

The casing and cementing construction details include the schematic of the proposed injection well (Appendix A) which was submitted by the applicant with the permit application. These details are incorporated into the permit, and shall be binding on the permittee. The 8 5/8-inch surface casing is set at 384 feet (KB) in 12 1/4-inch hole with 290 sacks cement circulated to surface. The 5 1/2-inch, 15.5-pound/foot long string casing was set at 6775 feet in the Green River Formation with 1750 sacks of cement (through a float collar at 6733 feet) which was circulated to surface in the former oil production well.

Thin sand stringers, occuring at depths as as shallow as 1600 feet, contain water with salinities which are calculated to be greater than 12,000 mg/l total dissolved solids (TDS). The Green River/Wasatch is thus isolated from the shallow USDW's by both the surface and long string casing which are cemented from TD to surface. There is excellent cement bonding from 2,000' KB downward through the Green River/Wasatch below bottom injection perforations at 6,382' KB.

TUBING & PACKER SPECIFICATIONS: (Condition 2)

The plan submitted by the permittee to use 2 7/8-inch injection tubing with the packer placement at 5,695' KB as indicated in Appendix A. The plan is prudent for injection into the Green River/Wasatch Sand Formation, is incorporated into the permit, and shall be binding on the permittee. Because the packer setting depth may vary, the permittee is required to set the packer a distance of no more than 150 feet above the upper (5,828-46') perforations.

FORMATION LOGGING AND TESTING: (Condition 3)

No additional formation logging nor testing is required.

MONITORING DEVICES: (Condition 4)

In order to allow a representative of EPA to inspect the well and take injection pressure measurements, the Agency is requiring the operator to install one-half inch FIP fittings with cut-off valves on the tubing and the tubing/casing annulus of each well.

The Agency is also requiring the installation of a sampling tap on the injection pump discharge line for the purpose of periodically obtaining representative samples of the injection fluid. For the measurement of injection rates and cumulative volumes, a flow meter will also be installed; the rate and cumulative volume meter(s) will be certified for at least 95% accuracy throughout the range of injection rates used.

Section B - Corrective Action

The applicant submitted the required Area of Review (AOR) information with the permit application. A review of this AOR indicates that the two oil production wells which penetrate the injection interval within the one-half mile AOR have long string casing adequately cemented to a depth of approximately 1000 feet, which is more than 4700 feet above the injection/production perforated intervals. In each case, the cement for the surface casing strings was circulated to the surface.

Therefore, the permittee is not required to take any corrective action on either of these two oil/gas producing wells which are within the one-half-mile AOR.

Section C - Well Operation

MECHANICAL INTEGRITY: (Condition 1, 2)

As-built construction details have been submitted and verify adequate injection well construction.

A mechanical integrity test of the injection casing, tubing and packer will be conducted prior to commencement of injection operations in the proposed injection well. This well was recently tested for mechanical integrity at 2,500 psig (February 13, 1989).

Demonstrations of mechanical integrity of the injection casing, tubing and packer will also be conducted within 30 days after any workovers/alterations and prior to recommencing injection.

INJECTION INTERVAL: (Condition 3)

The injection interval will be limited to the Green River/Wasatch Sand Formation in the total interval of 5,828-6,382' (KB) as indicated in the permit and as requested in the permit application. The proposed injection zones are sandstone stringers within the Green River Formation. The sands are clear to light gray, very fine to fine-grained with calcareous bonding. **The confining zones are the thick shale sections above, below, and separating the porous injection intervals.** The production perforated intervals of the Green River/Wasatch Sand injection zone have been identified and were perforated on the basis of well log interpretation by a qualified well log analyst; however, they may be modified during workover operations if it becomes necessary.

INJECTION PRESSURE LIMITATION: (Condition 4)

The applicant requested a maximum surface injection pressure of 1,100 psig. A maximum surface injection pressure of 1,800 psig (formation "breakdown pressure") was identified in a recent (2/13/89) step-rate test on Green River/Wasatch Formation. On this basis, an estimated fracture gradient of 0.73 psi/ft can be calculated. A surface injection pressure greater than 1,700 psig will be permitted only after further demonstration that such injection pressure will not exceed the Green River/Wasatch Formation injection zones fracture pressure. Therefore, the permitted 1,700 psig maximum allowable injection pressure is considered adequate to protect all USDWs.

$$\text{Frac. Grad.} = [Pm + Ph]/d = [1{,}700 + (0.433)(Sg)]/d$$

$$= [1{,}700 + (0.433)(1.016)]/5{,}840$$

Frac. Grad. = 0.73 psi/ft

Where:
- Pm = maximum injection pressure at wellhead, psig
- Sg = specific gravity of injected fluid, unitless
- d = injection depth, feet
- 0.433 = fresh water pressure gradient, psi/ft

INJECTION VOLUME (RATE) LIMITATION: (Condition 5)

The Ute Tribal #2-4 SWD injection volume (rate) will be limited to a maximum of 1,000 barrels of water per day (BWPD) as proposed in the permit, unless a subsequent injectivity test(s) demonstrates that the Green River/Wasatch Sand Formation injection zone fracture pressure will not be exceeded. An EPA estimated Green River/Wasatch Sand, before stimulation, injection rate of 1,475 barrels per day (BWPD) can be calculated using the steady state radial flow equation as follows:

$$Q = 7.07\ K\ h\ [Ps - Pf]\ /\ [u]\ [\ln re/rw]$$

Where:
- Q = injection rate, barrels per day
- K = formation permeability, darcy (injectivity test estimated, 0.03 darcy)
- h = formation thickness, feet (log estimated, 36 feet)
- Ps = injection pressure at the sand face (4170), psi [estimated as (0.44)(5840) + 1600 = 4170 psi
- Pf = formation pore pressure, psi [estimated as (0.433)(1.016)(5840) = 2570 psi]
- Ps - Pf = 4170 - 2570 = 1600 psi
- u = water viscosity, cp (1.0 cp)
- re = distant drainage radius, feet (1320)
- rw = well bore radius, feet (0.333)

$$Q = (7.07)(0.03)(36)([1600)/(1.0)(8.28) = 1475\ BWPD$$

Section D - Monitoring, Recordkeeping & Reporting of Results
INJECTION WELL MONITORING PROGRAM. (Condition 1[a])

The permittee is required to monitor water quality of the injected fluids at quarterly intervals until such time as four consecutive quarterly injected water quality analyses reports document no significant change, and the permittee requests the analyses frequency be reduced. The periodic water samples of injected fluids shall be analyzed for TDS, major ions, pH, Specific Conductivity, and Specific Gravity, as will those when the source of injection fluid changes.

Section E - Plugging and Abandonment
PLUGGING & ABANDONMENT PLAN: (Condition 2)

The Plugging and Abandonment Plan submitted for the proposed injection well by the applicant as part of the permit application has been reviewed, found to adequately protect the USDWs, is incorporated into the permit and shall be binding on the permittee.

A 20-sack, 100' plug #1 will be set across the 6,376-82' KB (lower, Wasatch) perforated interval and a similar (plug #2) across the 5,828-46' KB (upper, Green River) perforated interval. Each of these two balanced plugs are to be inside the long string 50' below, through, and 50' above each respective set of injection perforations. A 100' balanced plug #3 will be set from 434' to 334' inside the long string, from 50' below to 50' above the surface casing shoe to further protect the USDWs behind the surface casing.

The 50' plug #4 will be set from surface to approximately 50' in the top of the surface casing.

Section F - Financial Responsibility

The permittee has filed an acceptable $15,000 Surety Bond and a companion Standby Trust Agreeement with their UIC permit application. This will serve as a demonstration of financial responsibility for the plugging and abandonment of this permitted injection well, is incorporated into the permit, and shall be binding on the permittee. The permittee has estimated that plugging and abandonment costs for the Ute Tribal #2-4 SWD injection well will be approximately $15,000.

Area-of-Review Fill-up Time Calculations

Coors has applied for a permit to convert and operate an Antelope Creek Field injection well for the express purpose of disposing of the Green River/Wasatch Formation produced brine fluids of approximately 12,500-22,200 mg/l TDS back into the Green River/ Wasatch (Eocene) Formation.

The fillup volume for the Green River/Wasatch proposed injection zone is calculated below.

The Green River/Wasatch injection volume will be limited to a maximum of 1000 barrels per day (BWPD) as requested by the permittee in the permit application. The Green River/Wasatch Formation injection zone fracture pressure will not be exceeded at this rate. An estimated, approximate injection rate, before stimulation, of 1475 BWPD can be calculated using the radial flow equation and has been shown earlier. A volume of approximately 21,100,000 barrels of injected water is estimated by EPA to be required to fill up the Green River/Wasatch injection formation within the one-half-mile radius AOR. On this basis, the fill-up time is estimated to be approximately 57.8 years if this zone were disposed into at the maximum permitted daily rate of 1000 BWPD through its life. The remaining life of the Antelope Creek Field (oil) is estimated to be approximately fifteen-twenty more years. These calculations are shown below.

$V = \pi (r^2)(h)(\phi)/5.6$
$V = (3.14)(2640)^2(36)(0.15)/5.6$
$\underline{V = 21.1 \text{ MM Bbl}}$.

r = radius of review, feet
h = inj. zone thickness, ft
ϕ = porosity, frac.
5.6 = conversion, cu.ft./bbl.

Time = V / Q x 365
Time = (21.1 MM)/(1000)(365)
<u>Time = 57.8 Yrs</u>.

Time = Fill-up time, years
V = (as above)
Q = Inj. Rate, Bbl/d
365 = conversion, days/year.

KH orig UIC file
cc G. Hunt
R. Firth

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

APR 30 1990

RECEIVED
MAY 02 1990
DIVISION OF
OIL, GAS & MINING

UIC
GLH ✓
DJJ
BGH ✓
COMPUTER
MICROFILM ✓
FILE

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. S. Sprague
Manager, Engineering Services
Coors Energy Company
P. O. Box 467
Golden, Colorado 80402

SW 4 T 5S R3W
Ute 2-4

RE: Authorization to Inject,
UIC Permit No. UTS2497-3100,
Ute Tribal #2-4 SWD Well,
Antelope Creek Field,
Duchesne County, Utah

Dear Mr. Sprague:

Thank you for your April 20, 1990, letter, completed Well Rework Record, and witnessed mechanical integrity test (MIT) results for the above-cited, recently permitted injection facility.

This letter is your authorization to commence injection now that these documents have been reviewed and approved and that all other "prior to injection" permit conditions have been satisfied.

Please direct any questions you have on this action to the attention of Gustav Stolz at Mail Code 8WM-DW or you may telephone him at (303) 293-1416.

Sincerely,

for Roger Freeth

Max H. Dodson
Director
Water Management Division

cc: Darren Cuch
The Ute Indian Tribe
bcc: Dianne R. Nielson, Div. of Oil , Gas & Mining, SLC, UT
BIA, Fort Duchesne, Utah
David E. Little, BLM District Manager, Vernal, Utah

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe

1. OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Injection Well

7. UNIT AGREEMENT NAME: ---

2. NAME OF OPERATOR: Coors Energy Company

8. FARM OR LEASE NAME: Ute Tribal

3. ADDRESS OF OPERATOR: P.O. Box 467 Golden, Colorado 80401

9. WELL NO.: 2-4 SWD

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 2551' FNL & 1900' FEL, SW/4 NE/4

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.4-T5S-R3W

14. PERMIT NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992' GL

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

RECEIVED MAY 15 1990 DIVISION OF OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE	XX	ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.)*

Permission is requested to acidize perforated interval 5828 - 46' & 6382 - 76' w/3750 gals. 15% HCL with additives. The acid job is necessitated by the greater than expected injection pressure required. Current injection rate is 1 BPM @ 1650 psi.

OIL AND GAS
DRN | RJF
JRB | 1. GLH
DTS | SLS
2-TAS
3. MICROFILM
4. UIC FILE

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

SIGNED Jim Simonton TITLE Oil/Gas Supervisor DATE 5/11/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action is Necessary

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 5-21-90
By: [illegible]

*See Instructions on Reverse Side

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.

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

UIC
GLH
DJJ
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COMPUTER
MICROFILM
FILE

MAY 29 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER SWD

2. NAME OF OPERATOR: Coors Energy Company

3. ADDRESS OF OPERATOR: PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface: 2551'FNL, 1900'FEL, SW/NE
At proposed prod. zone: same

5. LEASE DESIGNATION & SERIAL NO.: 14-20-H62-3503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ----

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Ute Tribal

9. WELL NO.: 2-4SWD

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4, T5S-R3W

12. COUNTY: Duchesne

13. STATE: Utah

14. API NO.: 43-013-30879

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5992'GL

OIL AND GAS
DRN
JRB 1- GLH
DTS SLG

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐
REPAIR WELL	☐	CHANGE PLANS	☐
(Other)			

APPROX. DATE WORK WILL START _____

2-TAS
3. WATER SHUT-OFF
4. FILE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐

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

DATE OF COMPLETION _____

17. 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.)

* Must be accompanied by a cement verification report.

5/14/90 MIRU Smith Energy to reopen perfs from 3987-4010' to provide an additional zone for injection and increase the capacity of the well to accept water. Pumped 15 bbls formation water and 2500 gals. 15% acid and 2500 gals. 7-1/2% HCL acid w/additives, dropped 100 ball sealers, flushed with 30 bbls formation water and 5 gals. surfactant chemical. (this was to treat lower zones from 5828-6382')

5/15 to 5/17/90 Flowed back water, then MIRU Ross and Pomrenke to perf from 3983-4006' with 4" casing gun, 4 SPF totaling 92 new holes (this zone was previously squeezed off).

5/18 to 5/21/90 Set pkr at 3849', pumped 250 gals. 15% HCL acid and displaced with 20 BW, pumped 750 gals. 15% acid w/15 7/8" 1.3 SG ball sealers, and displaced with 85 bbls prod. water with 60 balls, total of 24 bbls acid and 75 7/8" 1.3 SG ball sealers.

Received verbal approval from Mr. Gus Stolz of the EPA to inject into the following perfs: 3983-4006', 5828-5846', 6376-6382'.

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

SIGNED D.S. Sprague TITLE Manager, Engineering DATE 5-23-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

(3/89)

See Instructions On Reverse Side

G. Hunt for file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

RECEIVED
JUN 18 1990
DIVISION OF
OIL, GAS & MINING

MINOR PERMIT MODIFICATION

Coors Energy Company
Ute Tribal #2-4 SWD
UIC Permit No: UTS2497-3100
Antelope Creek Field,
Duchesne County, Utah

Pursuant to Permit Condition PART III, Section B.1. PERMIT ACTIONS, of the above-referenced Underground Injection Control (UIC) Permit, this permit is hereby modified with respect to the following permit condition specified below.

Modification -- As Originally Written:

Permit Condition "PART II, Section C.4. Injection Pressure Limitation. Injection pressure measured at the surface, shall not exceed 1,700 pounds per square inch (psig), (the 'kill-switch' pressure setting) as indicated by the permittee for injection into the Green River Formation."

As Hereby Modified:

Permit Condition "PART II, Section C.4. Injection Pressure Limitation. Injection pressure measured at the surface, shall not exceed 1,900 pounds per square inch (psig), (the 'kill-switch' pressure setting) as indicated by the permittee for injection into the Green River Formation."

All other provisions and conditions of this UIC Permit remain effective as originally issued and/or previously modified.

JUN 14 1990
Date

Roger S. Fenetto
for Max H. Dodson, Director
Water Management Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

MICROFICHE

JUN 14 1990

UIC	
GLH	✓
DJJ	✓
BGH	
COMPUTER	
MICROFILM	
FILE	

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. S. Sprague
Manager, Engineering Services
Coors Energy Company
P. O. Box 467
Golden, Colorado 80402

RE: Minor Permit Modification,
UIC Permit No. UTS2497-3100,
Ute Tribal #2-4 SWD Well,
Antelope Creek Field,
Duchesne County, Utah
43-013-30879
SS Sec 4

Dear Mr. Sprague:

Your request to increase the injection pressure in the above-cited injection well is being granted as a Minor Permit Modification to the indicated permit. Your Well Rework Record and Step Rate Test results document satisfactory justification for your requested modification of Permit Condition II.C.4.

Your request is hereby granted in accordance with the enclosed Minor Permit Modification. This Minor Modification becomes effective upon your receipt of this letter.

Please direct any questions on this action to the attention of Gustav Stolz at Mail Code 8WM-DW or you may telephone him at (303) 293-1416.

Sincerely,

Roger L. Trenelle
for Max H. Dodson, Director
Water Management Division

Enclosures: Minor Permit Modification

cc: Darren Cuch, The Ute Indian Tribe
✓Dianne R. Nielson, Division of Oil, Gas & Mining, SLC, UT
BIA, Fort Duchesne, Utah
David E. Little, BLM District Manager, Vernal, Utah

orig G. Hunt for file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

SEP 06 1990

SEP 06 1990

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UIC
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MICROFILM
FILE

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Ref: 8WM-DW

RECEIVED
SEP 10 1990
DIVISION OF
OIL, GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. D. S. Sprague
Manager, Engineering Services
Coors Energy Company
P. O. Box 467
Golden, Colorado 80402

RE: Final Major Permit Modification,
UIC Permit No. UTS2497-3100
Ute Tribal #2-4 SWD Well
Antelope Creek Field
Duchesne County, Utah

Dear Mr. Sprague:

Transmitted herewith is the Final Underground Injection Control (UIC) Major Permit Modification package for the above-cited Coors Ute Tribal #2-4 SWD well UIC Permit.

The comment period on the proposed Draft Major Permit Modification for this UIC permit closed on August 18, 1990. There were no substantial comments from you, the general public, nor the landowner who may have been affected by the proposed action and the Draft Major Permit Modification was not substantially modified. This permit modification action, therefore, becomes effective on the date of issuance.

Please direct any questions concerning this permit action to the attention of Gustav Stolz at Mail Code 8WM-DW or you may telephone him at (303) 293-1416.

Sincerely,

for Roger Fenelle

Max H. Dodson, Director
Water Management Division

Enclosures: Final Major Permit Modification

cc: Darren Cuch, The Ute Indian Tribe
Dianne R. Nielson, Division of Oil, Gas & Mining, SLC, UT
BIA, Fort Duchesne, Utah
David E. Little, BLM District Manager, Vernal, Utah

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

FINAL MAJOR PERMIT MODIFICATION

Coors Energy Company
Ute Tribal #2-4 SWD
UIC Permit No: UTS2497-3100
Antelope Creek Field,
Duchesne County, Utah

Pursuant to Permit Condition PART III, Section B.1. PERMIT ACTIONS, of the above-referenced Underground Injection Control (UIC) Permit, this permit is hereby modified with respect to the following permit conditions specified below.

MODIFICATION - [PART II, Section C.3.]

Final Permit Version:

"Injection Intervals. Injection shall be permitted for portions of the Green River (Eocene) Formation in the subsurface interval of approximately 5,828-5,846' and 6,376-6,382' KB. Injection perforations may be added or squeezed-off so long as they are within the entire Green River Formation interval, and any reworking of the well is properly reported (EPA Form 7520-12) and the well is mechanically integrity tested."

Is Modified To Read:

"Injection Intervals. Injection shall be permitted for portions of the **entire gross** Green River (Eocene) Formation in the subsurface interval of approximately **2,745-6,382' KB; initial perforations will be at approximately 3,983-4,006'**, 5,828-5,846 and 6,376-6,382' KB. Injection perforations may be added or squeezed-off **via a minor permit modification** so long as they are within the gross Green River Formation interval, **no underground sources of drinking water (USDWs) are affected,** and any reworking of the well is properly reported (EPA Form 7520-12) and the well is mechanically integrity tested."

All other provisions and conditions of this UIC Permit remain effective as originally issued and/or previously modified.

SEP 06 1990
Date

Max H. Dodson, Director
Water Management Division

UTAH NATURAL RESOURCES
Oil, Gas & Mining
355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut 84180-1203. (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

MARYELLEN VIALPANDO
COORS ENERGY
PO BOX 467
GOLDEN CO 80402-0467

Utah Account No. N5090

Report Period (Month/Year) 7 / 92

Amended Report ☐

Well Name API Number	Entity	Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
UTE TRIBAL 1-20D 4301331239	11006	04S 04W 20	GRRV		14-20-H62-4465		
UTE TRIBAL 6-16D 4301331204	11142	04S 04W 16	GRRV		I-109-IND-5351		
FEDERAL 2-10HB 4304732009	11255	07S 21E 10	UNTA		To PHOC eff. 8-1-92	"Change in Progress"	
UTE TRIBAL 1-21D 4301331347	11345	04S 04W 21	GRRV		14-20-H62-4455		
UTE TRIBAL 1-22D 4301331349	11346	04S 04W 22	GRRV		14-20-H62-4453		
UTE TRIBAL 1-15D 4301330712	5616	4S 4W 15	GRRV		I-109-IND-5351		
CC UTE 1-24D 4301331234	11024	4S 5W 24	GRRV		14-20-H62-4466		
UTE TRIBAL 1-3D 43-013-31242	11036	4S 4W 3	GRRV		14-20-H62-4446		
UTE TRIBAL 2-4 43-013-30879	9930	5S 3W 4	GRRV		WIW 14-20-H62-3503		
UTE TRIBAL 2-9 43-013-30789	9393	5S 3W 9	GRRV		14-20-H62-3508		
UTE TRIBAL 4-10D 43-013-31226	10977	4S 4W 10	GRRV		I-109-IND-5351		
UTE TRIBAL 7-29 43-013-31339	9389	5S 3W 29	DRL		14-20-H62-3518		
UTE TRIBAL 2-18D 43-013-31212	10898	4S 4W 18	DRL		I-109-IND-5351		
		TOTAL					

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete. Date

Authorized signature

Telephone

PLEASE COMPLETE FORMS IN BLACK INK

Coors
ENERGY COMPANY
P.O. BOX 467 GOLDEN, COLORADO 80401

September 1, 1992

RECEIVED
SEP 04 1992
DIVISION OF
OIL, GAS & MINING

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

Attn: Mr. Ron Firth

Dear Mr. Firth:

This letter is to advise you that effective September 1, 1992 Coors Energy Company has sold its oil and gas properties located in Duchesne County, Utah to the following Company:

Evertson Oil Company, Inc.
P.O. Box 397
Kimball, Nebraska 69145
Mr. Bruce F. Evertson, President
Phone No.: (308) 235-4871

The sale includes the following wells:

WELL NAME	API NO.
State 2-6	43-013-30891
Ute Tribal 1	43-013-20045
Ute Tribal 1-10	43-013-30805
Ute Tribal 1-10D	43-013-31211
Ute Tribal 1-15	43-013-30880
Ute Tribal 1-15D	43-013-30712
Ute Tribal 1-16	43-013-30804
Ute Tribal 1-17	43-013-30790
Ute Tribal 1-18	43-013-30761
Ute Tribal 1-19	43-013-30803
Ute Tribal 1-20	43-013-30764
Ute Tribal 1-20D	43-013-31239
Ute Tribal 1-21	43-013-30883
Ute Tribal 1-24D	43-013-31234

WELL NAME	API NO.
Ute Tribal 1-28	43-013-30802
Ute Tribal 1-29	43-013-30763
Ute Tribal 1-3	43-013-30823
Ute Tribal 1-30	43-013-30852
Ute Tribal 1-32	43-013-30853
Ute Tribal 1-33	43-013-30806
Ute Tribal 1-3D	43-013-31242
Ute Tribal 1-4	43-013-30762
Ute Tribal 1-5	43-013-30785
Ute Tribal 1-6	43-013-30793
Ute Tribal 1-7	43-013-30788
Ute Tribal 1-7D	43-013-31198
Ute Tribal 1-8	43-013-30759
Ute Tribal 2-10	43-013-31187
Ute Tribal 2-10D	43-013-31219
Ute Tribal 2-15D	43-013-31200
Ute Tribal 2-16	43-013-31166
Ute Tribal 2-18	43-013-
Ute Tribal 2-18D	43-013-30881
Ute Tribal 2-20	43-013-30882
Ute Tribal 2-29	43-013-30849
Ute Tribal 2-3	43-013-31097
Ute Tribal 2-31	43-013- 31188
Ute Tribal 2-4	43-013-30879 (WIW)
Ute Tribal 2-5	43-013-30824
Ute Tribal 2-7	43-013-30825
Ute Tribal 2-8	43-013-30826
Ute Tribal 2-8D	43-013-31199
Ute Tribal 2-9	43-013-30789
Ute Tribal 3	43-013-15319
Ute Tribal 3-10D	43-013-31217
Ute Tribal 3-20	43-013-31175
Ute Tribal 3-29	43-013-30850
Ute Tribal 3-4	43-013-30878
Ute Tribal 3-5-E3	43-013-30938
Ute Tribal 3-7	43-013-30828
Ute Tribal 3-8	43-013-31101
Ute Tribal 4	43-013-15321
Ute Tribal 4-10D	43-013-31226
Ute Tribal 4-17D	43-013-31201
Ute Tribal 4-18	43-013-31099
Ute Tribal 4-18D	43-013-30838
Ute Tribal 4-29	43-013-30851
Ute Tribal 4-4	43-013-30848
Ute Tribal 4-5	43-013-31306
Ute Tribal 4-8	43-013-31164
Ute Tribal 4-9	43-013-31165
Ute Tribal 5	43-013-15322
Ute Tribal 5-18	43-013-31180
Ute Tribal 5-29-E3	43-013-30939

RECEIVED
SEP 04 1992
DIVISION OF
OIL GAS & MINING

WELL NAME	API NO.
Ute Tribal 5-8	43-013-31307
Ute Tribal 6	43-013-15323
Ute Tribal 6-10D	43-013-31236
Ute Tribal 6-16D	43-013-31204
Ute Tribal 6-29	43-013-31305
Ute Tribal 6-4	43-013-31100
Ute Tribal 7	43-013-15324
Ute Tribal 7-16D	43-013-31221
Ute Tribal 7-29	43-013-31339
Ute Tribal 8	43-013-30028
Ute Tribal 8-16D	43-013-31220
Ute Tribal 1-21D	43-013-31347
Ute Tribal 1-22D	43-013-31349

On this date, we are also notifying the BLM, BIA and the Ute Tribe of this change of operator.

Would you please forward this letter on to anyone else at the State office who might need to have this information. Let us know if we can be of further assistance or if you have any questions.

Very truly yours,

Doug S. Sprague
Manager
Engineering & Operations

DSS:kr

RECEIVED
SEP 04 1992
DIVISION OF
OIL GAS & MINING

EVERTSON OIL COMPANY, INC.
P. O. BOX 397
KIMBALL, NE 69145
308/235-4871

RECEIVED
SEP 25 1992
DIVISION OF
OIL GAS & MINING

September 21, 1992

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

Dear Lisha:

Enclosed please find a listing of wells purchased from Coors Energy Company. These are all the wells on which Evertson Oil Company, Inc. will be taking over operations effective September 1, 1992.

I assume that Coors Energy Company has submitted the change of operator forms as required.

I will be forwarding the bonding information required by the U.S. Department of Interior, Bureau of Indian Affairs, as soon as that information is available.

Should you have any questions or need additional information, please let me know.

Sincerely,

James G. Stephen

James G. Stephen

JGS/iks
enc.

/9258

EVERTSON OIL COMPANY, INC.
SCHEDULE OF WELLS

Well Number	Well Name	State	County	Township	Range	Section	Quadrant
1510103	Ute Tribal 1-3	Utah	Duchesne	5S	3W	3	SW/SW
1510104	Ute Tribal 1-4	Utah	Duchesne	5S	3W	4	NE/NE
1510105	Ute Tribal 1-5	Utah	Duchesne	5S	3W	5	NW/NE
1510106	Ute Tribal 1-6	Utah	Duchesne	5S	3W	6	SE/SE
1510107	Ute Tribal 1-7	Utah	Duchesne	5S	3W	7	SE/SW
1510108	Ute Tribal 1-8	Utah	Duchesne	5S	3W	8	NW/NW
1510110	Ute Tribal 1-10	Utah	Duchesne	5S	3W	10	NW/NW
1510115	Ute Tribal 1-15	Utah	Duchesne	5S	3W	15	NW/NW
1510116	Ute Tribal 1-16	Utah	Duchesne	5S	3W	16	SE/SE
1510117	Ute Tribal 1-17	Utah	Duchesne	5S	3W	17	NE/NE
1510118	Ute Tribal 1-18	Utah	Duchesne	5S	3W	18	NE/NE
1510119	Ute Tribal 1-19	Utah	Duchesne	5S	3W	19	SE/SE
1510120	Ute Tribal 1-20	Utah	Duchesne	5S	3W	20	NW/NE
1510121	Ute Tribal 1-21	Utah	Duchesne	5S	3W	21	SW/SW
1510128	Ute Tribal 1-28	Utah	Duchesne	5S	3W	28	SW/NW
1510129	Ute Tribal 1-29	Utah	Duchesne	5S	3W	29	NE/SE
1510130	Ute Tribal 1-30	Utah	Duchesne	5S	3W	30	SW/NE
1510132	Ute Tribal 1-32	Utah	Duchesne	5S	3W	32	SE/NE
1510133	Ute Tribal 1-33	Utah	Duchesne	5S	3W	33	NW/NW
1510203	Ute Tribal 2-3	Utah	Duchesne	5S	3W	3	SE/SW
1510204	Ute Tribal 2-4	Utah	Duchesne	5S	3W	4	SW/NE
1510205	Ute Tribal 2-5	Utah	Duchesne	5S	3W	5	SW/SW
1510207	Ute Tribal 2-7	Utah	Duchesne	5S	3W	7	NE/NE
1510208	Ute Tribal 2-8	Utah	Duchesne	5S	3W	8	SW/NW
1510209	Ute Tribal 2-9	Utah	Duchesne	5S	3W	9	NE/NE
1510210	Ute Tribal 2-10	Utah	Duchesne	5S	3W	10	SW/NW
1510216	Ute Tribal 2-16	Utah	Duchesne	5S	3W	16	SW/SW
1510218	Ute Tribal 2-18	Utah	Duchesne	5S	3W	18	SE/NE
1510220	Ute Tribal 2-20	Utah	Duchesne	5S	3W	20	SW/NE
1510229	Ute Tribal 2-29	Utah	Duchesne	5S	3W	29	SE/SE
1510231	Ute Tribal 2-31	Utah	Duchesne	5S	3W	31	NE/NW
1510304	Ute Tribal 3-4	Utah	Duchesne	5S	3W	4	NE/SW

EVERTSON OIL COMPANY, INC.
SCHEDULE OF WELLS

Well Number	Well Name	State	County	Township	Range	Section	Quadrant
1510305	Ute Tribal 3-5-E3	Utah	Duchesne	5S	3W	5	NW/SE
1510307	Ute Tribal 3-7	Utah	Duchesne	5S	3W	7	SE/NE
1510308	Ute Tribal 3-8	Utah	Duchesne	5S	3W	8	NE/NW
1510320	Ute Tribal 3-20	Utah	Duchesne	5S	3W	20	SE/NW
1510329	Ute Tribal 3-29	Utah	Duchesne	5S	3W	29	SE/NW
1510404	Ute Tribal 4-4	Utah	Duchesne	5S	3W	4	SW/SW
1510405	Ute Tribal 4-5	Utah	Duchesne	5S	3W	5	SE/NE
1510408	Ute Tribal 4-8	Utah	Duchesne	5S	3W	8	NW/SW
1510409	Ute Tribal 4-9	Utah	Duchesne	5S	3W	9	SW/SE
1510418	Ute Tribal 4-18	Utah	Duchesne	4S	3W	18	NW/NE
1510429	Ute Tribal 4-29	Utah	Duchesne	5S	3W	29	NW/NW
1510508	Ute Tribal 5-8	Utah	Duchesne	5S	3W	8	SE/NW
1510518	Ute Tribal 5-18	Utah	Duchesne	5S	3W	18	NE/SE
1510529	Ute Tribal 5-29-E3	Utah	Duchesne	5S	3W	29	SW/NE
1510604	Ute Tribal 6-4	Utah	Duchesne	5S	3W	4	SE/SW
1510629	Ute Tribal 6-29	Utah	Duchesne	5S	3W	29	SE/NE
1510729	Ute Tribal 7-29	Utah	Duchesne	5S	3W	29	SE/NE
1520001	Ute Tribal 1	Utah	Duchesne	4S	4W	9	NW/SW
1520003	Ute Tribal 3	Utah	Duchesne	4S	4W	16	SW/NE
1520004	Ute Tribal 4	Utah	Duchesne	4S	4W	16	NE/SW
1520005	Ute Tribal 5	Utah	Duchesne	4S	4W	16	SW/NW
1520006	Ute Tribal 6	Utah	Duchesne	4S	4W	17	SW/NE
1520007	Ute Tribal 7	Utah	Duchesne	4S	4W	17	SW/NW
1520008	Ute Tribal 8	Utah	Duchesne	4S	4W	16	NW/NW
1520103	Ute Tribal 1-3D	Utah	Duchesne	4S	4W	3	SE/SE
1520107	Ute Tribal 1-7D	Utah	Duchesne	4S	4W	7	SE/SE
1520110	Ute Tribal 1-10D	Utah	Duchesne	4S	4W	10	SW/SE
1520115	Ute Tribal 1-15D	Utah	Duchesne	4S	4W	15	SW/NE
1520120	Ute Tribal 1-20D	Utah	Duchesne	4S	4W	20	SW/SW
1520121	Ute Tribal 1-21D	Utah	Duchesne	4S	4W	21	NE/NW
1520122	Ute Tribal 1-22D	Utah	Duchesne	4S	4W	22	NE/NW
1520124	Ute Tribal 1-24D	Utah	Duchesne	4S	5W	24	NW/NW
1520208	Ute Tribal 2-8D	Utah	Duchesne	4S	4W	8	NW/SE

EVERTSON OIL COMPANY, INC.
SCHEDULE OF WELLS

Well Number	Well Name	State	County	Township	Range	Section	Quadrant
1520210	Ute Tribal 2-10D	Utah	Duchesne	4S	4W	10	SW/4
1520215	Ute Tribal 2-15D	Utah	Duchesne	4S	4W	15	NW/NW
1520218	Ute Tribal 2-18D	Utah	Duchesne	5S	3W	18	SE/NE
1520310	Ute Tribal 3-10D	Utah	Duchesne	4S	4W	10	SE/SW
1520410	Ute Tribal 4-10D	Utah	Duchesne	4S	4W	10	NE/SE
1520417	Ute Tribal 4-17D	Utah	Duchesne	4S	4W	17	NW/SE
1520418	Ute Tribal 4-18D	Utah	Duchesne	4S	4W	18	NW/NW
1520610	Ute Tribal 6-10D	Utah	Duchesne	4S	4W	10	SE/NE
1520616	Ute Tribal 6-16D	Utah	Duchesne	4S	4W	16	NE/NW
1520716	Ute Tribal 7-16D	Utah	Duchesne	4S	4W	16	SE/NE
1520816	Ute Tribal 8-16D	Utah	Duchesne	4S	4W	16	NE/SE
1521009	Coyote Ute Tr. 10-9	Utah	Duchesne	4S	4W	9	NW/SE

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

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
801-538-5340

October 9, 1992

Bruce Evertson
Evertson Oil Company Inc.
P. O. Box 397
Kimball, Nebraska 69145

Dear Mr. Evertson:

Re: Coors Energy Company to Evertson Oil Company Inc.

Please sign and return the attached "Transfer of Authority to Inject" forms.

If you have any questions or need assistance please contact me at the number listed above.

Sincerely,

Lisha Romero

Lisha Romero
Administrative Analyst

cc: Operator File(s)

an equal opportunity employer

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
OCT 1 5 1992
DIVISION OF
OIL GAS & MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Ute Tribal 2-4SWD

Field or Unit name: Antelope Creek API no. 43-013-30879

Well location: QQ SW/NE section 4 township 5S range 3W county Duchesne

Effective Date of Transfer: 9/1/92

CURRENT OPERATOR

Transfer approved by:

Name Doug Sprague Company Coors Energy Company

Signature [signature] Address PO Box 467

Title Manager, Oil/Gas Operations Golden, CO 80402

Date 9/30/92 Phone (303) 278-7030

Comments:

NEW OPERATOR

Transfer approved by:

Name Bruce Evertson Company Evertson Oil Co., Inc.

Signature [signature] Address PO Box 397

Title President Kimball, NE 69145

Date 9/30/92 Phone (308) 235-4871

Comments:

(State use only)
Transfer approved by [signature] Title UIC Manager

Approval Date 10-20-92

(3/89)

308/235-4871

EVERTSON OIL COMPANY, INC.
P.O. BOX 397
KIMBALL, NE 69145

RECEIVED
OCT 15 1992
DIVISION OF
OIL GAS & MINING

October 12, 1992

Lisha Romero
State of Utah
Division of Oil, Gas and Mining
3 Triad Center Suite 350
Salt Lake City, UT 84180-5340

Dear Ms. Romero:

Enclosed please find Transfer of Authority Form 5 from Coors Energy Company to Evertson Oil Company, Inc. effective 9-1-92.

Should you have any questions, please let me know.

Sincerely,

James G. Stephen

James G. Stephen
Comptroller

JGS/iks
/9265

enc.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-	LCR/GIL
2-	DTS/7-LCR
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.

XXX 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: 9-01-92)

TO (new operator) EVERTSON OIL COMPANY INC
(address) PO BOX 397
KIMBALL, NEBRASKA 69145
BRUCE F. EVERTSON, PRES.
phone (308) 235-4871
account no. N6350 (11-24-92)

FROM (former operator) COORS ENERGY
(address) PO BOX 467
GOLDEN, COLORADO 80402-0467
DOUG SPRAGUE, MGR
phone (303) 278-7030
account no. N 5090

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

Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
*SEE ATTACHMENT						

OPERATOR CHANGE DOCUMENTATION

lcr 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 9-4-92) (Req. UIC Form 5)

lcr 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Req. 9-14-92) (Rec'd 9-25-92)

lcr 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: #163850. Eff. 8-24-92

lcr 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.

lcr 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (11-25-92)

lcr 6. Cardex file has been updated for each well listed above. (12-3-92)

lcr 7. Well file labels have been updated for each well listed above. (11-25-92)

lcr 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.

lcr 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.

- OVER -

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

lfc 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___.
lfc

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.
DTS 12-7-92

N/A 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: _____ 19____.

FILING

lfc 1. Copies of all attachments to this form have been filed in each well file.

lfc 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

921125 Bhm/Vernal "Operator still Coors Energy - Waiting on BIA approval."

921125 Operator changed per admin.

WE71/34-35

PETROGLYPH GAS PARTNERS, L.P.

335 NORTH WASHINGTON • SUITE 140
P.O. BOX 1807 • HUTCHINSON, KS 67504-1807
(316) 665-8500 • FAX (316) 665-5961

VIA FACSIMILE (801) 359-3940

February 16, 1994

FEB 18 1994

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

Ms. Cordova:

This letter is to advise you that effective February 1, 1994 Evertson Oil Company, Inc. intends to sell and Petroglyph Gas Partners, L.P. intends to purchase oil and gas properties located in Duchesne County, Utah as identified below:

Well Name	API No.
State 2-6	43-013-30891
Ute Tribal 1	43-013-20045
Ute Tribal 1-10	43-013-30805
Ute Tribal 1-10D	43-013-31211
Ute Tribal 1-15	43-013-30880
Ute Tribal 1-15D	43-013-30712
Ute Tribal 1-16	43-013-30804
Ute Tribal 1-17	43-013-30790
Ute Tribal 1-18	43-013-30761
Ute Tribal 1-19	43-013-30803
Ute Tribal 1-20	43-013-30764
Ute Tribal 1-20D	43-013-31239
Ute Tribal 1-21	43-013-30883
Ute Tribal 1-24D	43-013-31234
Ute Tribal 1-28	43-013-30802
Ute Tribal 1-29	43-013-30763
Ute Tribal 1-3	43-013-30823
Ute Tribal 1-30	43-013-30852
Ute Tribal 1-32	43-013-30853
Ute Tribal 1-33	43-013-30806
Ute Tribal 1-3D	43-013-31242
Ute Tribal 1-4	43-013-30762
Ute Tribal 1-5	43-013-30785
Ute Tribal 1-6	43-013-30793
Ute Tribal 1-7	43-013-30788
Ute Tribal 1-7D	43-013-31198

Ute Tribal 1-8	43-013-30759
Ute Tribal 2-10	43-013-31187
Ute Tribal 2-10D	43-013-31219
Ute Tribal 2-15D	43-013-31200
Ute Tribal 2-16	43-013-31166
Ute Tribal 2-18	~~43-013-~~31166 43-013-30881
~~Ute Tribal 2-18D~~	~~43-013-30881~~ 43-013-31012 /Drl.
Ute Tribal 2-20	43-013-30882
Ute Tribal 2-29	43-013-30849
Ute Tribal 2-3	43-013-31097
Ute Tribal 2-31	43-013-~~30827~~ 31188
Ute Tribal 2-4	43-013-30879 (WIW)
Ute Tribal 2-5	43-013-30824
Ute Tribal 2-7	43-013-30825
Ute Tribal 2-8	43-013-30826
Ute Tribal 2-8D	43-013-31199
Ute Tribal 2-9	43-013-30789
Ute Tribal 3	43-013-15319
Ute Tribal 3-10D	43-013-31217 (WIW) Hand comm.
Ute Tribal 3-20	43-013-31175
Ute Tribal 3-29	43-013-30850
Ute Tribal 3-4	43-013-30878
Ute Tribal 3-5-E3	43-013-30938
Ute Tribal 3-7	43-013-30828
Ute Tribal 3-8	43-013-31101
Ute Tribal 4	43-013-15321 (WDW)
Ute Tribal 4-10D	43-013-31226
Ute Tribal 4-17D	43-013-31201
Ute Tribal 4-18	43-013-31099
Ute Tribal 4-18D	43-013-30838
Ute Tribal 4-29	43-013-30851
Ute Tribal 4-4	43-013-30848
Ute Tribal 4-5	43-013-31306
Ute Tribal 4-8	43-013-31164
Ute Tribal 4-9	43-013-31165
Ute Tribal 5	43-013-15322
Ute Tribal 5-18	43-013-31180
Ute Tribal 5-29-E3	43-013-30939
Ute Tribal 5-8	43-013-31307
Ute Tribal 6	43-013-15323
Ute Tribal 6-10D	43-013-31236
Ute Tribal 6-16D	43-013-31204
Ute Tribal 6-29	43-013-31305
Ute Tribal 6-4	43-013-31100
Ute Tribal 7	43-013-15324
Ute Tribal 7-16D	43-013-31221

Ute Tribal 7-29	43-013-31339 (DRL)
Ute Tribal 8	43-013-30028
Ute Tribal 8-16D	43-013-31220
Ute Tribal 1-21D	43-013-31347
Ute Tribal 1-22D	43-013-31349

Petroglyph Operating Company, Inc., a wholly owned subsidiary of Petroglyph Gas Partners, L.P., will be the operator of these properties. At this time, we request a state assigned operator number.

We are also notifying the BLM, BIA and the Ute Tribe regarding this change of operator. Please forward this letter to anyone in the State office who may need to have this information. If you have any questions or need further assistance, please feel free to contact me at (316) 665-8500.

Sincerely,

Angela R. Bare

Angela R. Bare
Operations Administrator

ARB/ms

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: 14-20-H62- 3503

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: UTE TRIBAL

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

7. Unit Agreement Name: N/A

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Ute Tribal 2-4 SWD

2. Name of Operator: EVERTSON OIL COMPANY, INC.

9. API Well Number: 43-013- 30879

3. Address and Telephone Number: P.O.Box 397, Kimball, NE 69145 308-235-4871

10. Field and Pool, or Wildcat: Antelope Creek Field Green River Pool

4. Location of Well

Footages: 2551'FNL & 1900' FEL

County: DUCHESNE

QQ, Sec., T., R., M.: SWNE 4- T5S-R3W, U.S.M.

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date ~~work will start~~ of change 3-1-94

SUBSEQUENT REPORT
(Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] Other
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off

Date of work completion

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

* Must be accompanied by a cement verification report.

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

change of operator from Evertson Oil Copmany, Inc. to Petroglyph Operating Company, Inc. effective 3-1-94

RECEIVED APR

13. Name & Signature: EVERTSON OIL COMPANY, INC. ~~Bruce F. Evertson~~ Title: V. President Date: 2-25-94

(This space for State use only)

(1\93) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: 14-20-H62- 3503

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: UTE TRIBAL

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

7. Unit Agreement Name: N/A

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Ute Tribal 2-4 .SWD

2. Name of Operator: PETROGLYPH OPERATING COMPANY, INC.

9. API Well Number: 43-013- 30879

3. Address and Telephone Number: P. O. BOX 1807, Hutchinson, KS 67504-1807 316-665-8500

10. Field and Pool, or Wildcat: Antelope Creek Field Green River Pool

4. Location of Well

Footages: 2551'FNL & 1900' FEL

County: DUCHESNE

QQ, Sec., T., R., M.: SWNE 4- T5S-R3W, U.S.M.

State: UTAH

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

NOTICE OF INTENT (Submit in Duplicate)

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

Approximate date ~~work will start~~ of change 3-1-94

SUBSEQUENT REPORT (Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [ ] Other

Date of work completion

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

* Must be accompanied by a cement verification report.

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

change of operator from Evertson Oil Company, Inc. to Petroglyph Operating Company, Inc. effective 3-1-94

RECEIVED MAR 7

13. Name & Signature: PETROGLYPH OPERATING COMPANY, INC. R. A. CHRISTENSEN Title: President Date: 2-25-94

(This space for State use only)

(1\93)

(See Instructions on Reverse Side)

FORM 5

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: UTE TRIBAL

LEASE NUMBER: 14-20-H62-3503

and hereby designates

NAME: PETROGLYPH OPERATING COMPANY, INC.

ADDRESS: P.O.Box 1807, Hutchinson, KS 67504-1807

as his agent ☐/operator ☒, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable, and identify each applicable oil and gas well by name and API number. Attach additional pages as needed.)

T5S-R3W, U.S.M. ALL SEC. 4
UTE 1-4, 43-013-30762; UTE 2-4SWD, 43-013-30879; UTE 3-4, 43-013-30878; UTE 4-4, 43-013-30848; UTE 6-4, 43-013-31100

Duchesne County, Utah

RECEIVED
APR 7
DIV. OF OIL, GAS & MINING

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 3-1-94

BY: (Name) ROBERT C. MURDOCK

(Signature) Robert C. Murdock

(Title) PRESIDENT OF PETROGLYPH ENERGY, INC.

(Phone) 316-665-8500

OF: (Company) PETROGLYPH GAS PARTNERS, L.P.
BY PETROGLYPH ENERGY, INC.,
GENERAL PARTNER

(Address) P. O. BOX 1807
Hutchinson, KS 67504-1807

FORM 5

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: UTE TRIBAL

LEASE NUMBER: 14-20-H62-3503

and hereby designates

NAME: PETROGLYPH OPERATING COMPANY, INC.

ADDRESS: P. O. BOX 1807, Hutchinson, KS 67504-1807

as his agent ☐/operator ☒, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable, and identify each applicable oil and gas well by name and API number. Attach additional pages as needed.)

T5S-R3W, U.S.M. ALL SEC. 4
UTE 1-4, 43-013-30762; UTE 2-4SWD, 43-013-30879; UTE 3-4, 43-013-30878; UTE 4-4, 43-013-30848; UTE 6-4, 43-013-31100

Duchesne County, Utah

RECEIVED
APR 7
DIV. OF OIL, GAS & MINING

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 3-1-94

BY: (Name) KYLE R. MILLER

(Signature) [signature]

(Title) President

(Phone) 303-292-0900

OF: (Company) INLAND RESOURCES INC.

(Address) 475 Seventeenth St., Suite 1500

Denver, CO 80202

(7/92)

PAO 1162-003

RECEIVED
APR 7
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

BOND NO. B04528

COLLECTIVE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, PETROGLYPH GAS PARTNERS, L. P. AND INLAND RESOURCES INC., OF: 335 North Washington, #170, Hutchinson, KS 67501, as principals, and PLANET INDEMNITY COMPANY of 410 17th St., #1675, Denver, CO 80202, as surety, are held and firmly bound unto the United States of America in the sum of seventy-five thousand dollars ($75,000), lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves and each of us, our and each of our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated this 16th day of March, 19 94.

The condition of this obligation is such that whereas the said principals, as lessee, have heretofore or may hereafter enter into or otherwise acquire an interest in oil and gas mining leases on the Uintah and Ouray Reservation in the State of Utah, of various dates and periods of duration, covering lands or interests in lands held by the United States in trust for individual Indians, or bands or tribes of Indians, or subject to restrictions against alienation without the consent of the Secretary of the Interior, or his authorized representative, which leases and permits have been or may hereafter be granted or approved by the Secretary of the Interior, or his authorized representative, and the identification of which herein is expressly waived by both principals and surety hereto.

WHEREAS the principals and surety agree that the coverage of this bond shall extend to and include all extensions and renewals of the leases and permits covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth therein.

WHEREAS the surety hereby waives any right to notice of any modification of any such lease or permit, or obligation thereunder whether effected by extension of time for performance, by commitment of such lease to unit, cooperative, or communitization agreement, by waiver, suspension, or change in rental, except an increase thereof, by minimum royalty payment, except an increase thereof, by compensatory royalty payment, or otherwise, this bond to remain in full force and effect notwithstanding.

WHEREAS the principals and surety agree that the neglect or forebearance of any obligee under this bond in enforcing the payment of any rental or royalty or the performance of any other convenant, condition, or agreement of any such lease or permit shall not in any way release the principals and surety, or either of them, from any liability under this bond; and

WHEREAS the principals and surety agree that in the event of any default under any such lease or permit, the obligee may prosecute any claim, suit, action, or other proceeding against the principals and surety, or either of them, without the necessity of joining the other.

CERTIFICATE OF AUTHORITY NO. 14596

GENERAL POWER OF ATTORNEY

CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That **PLANET INDEMNITY COMPANY,** a corporation organized and existing under the laws of the State of Colorado, and having its principal office in the City of Denver, Colorado does hereby constitute and appoint:

MILDRED L. MASSEY

its true and lawful attorney-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, in an amount not to exceed:

**********SEVENTY-FIVE THOUSAND AND NO/100 DOLLARS**********

and the execution of all such instrument(s) in pursuance of these presents, shall be binding upon said **PLANET INDEMNITY COMPANY** as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be cerified to and may be revoked, pursuant to and by authority of Article V, Section 6(C) of the By-Laws adopted by the Board of Directors of **PLANET INDEMNITY COMPANY,** at a meeting called and held on this third day of March, 1987, of which the following is a true transcript of said Section 6(C):

"The President or any Vice President, Assistant Vice President, Secretary or Resident Secretary shall have power and authority

(1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and

(2) to appoint special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-laws of the Company, and

(3) to remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given to him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the third day of March, 1987, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, PLANET INDEMNITY COMPANY has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, E. H. Frank, III, on this the twenty eighth day of August, 1991.

PLANET INDEMNITY COMPANY CORPORATE SEAL COLORADO

E.H. Frank, III President

STATE OF COLORADO
COUNTY OF DENVER

On this 28th Day of August, 1991, before me came the individual who executed the preceding instrument, to me personally known, and, being duly sworn, said that he is the therein described and authorized officer of **PLANET INDEMNITY COMPANY;** that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the city of Denver, Colorado, the day and year first above written.

NANCY E. J. BRENHOLTZ NOTARY PUBLIC STATE OF COLORADO

Notary Public, Denver County, Colorado

CERTIFICATION

I, the undersigned officer of **PLANET INDEMNITY COMPANY,** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16th day of March, 19 94

PLANET INDEMNITY COMPANY CORPORATE SEAL COLORADO

Greg E. Chilson Assistant Secretary

Only a certified copy of Power of Attorney bearing the Certificate of Authority No. printed in red on the upper right corner is binding. Photocopies, carbon copies or other reproductions of this document are invalid and not binding upon the Company.

ANY INSTRUMENT ISSUED IN EXCESS OF THE PENALTY AMOUNT STATED ABOVE IS TOTALLY VOID AND WITHOUT VALIDITY.

UN1021 (11/93)

FAO 1162-OG3

RECEIVED

APR 7 1994

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

BOND NO. B04556

COLLECTIVE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, PETROGLYPH OPERATING COMPANY, INC., OF: 335 North Washington, Suite 170, Hutchinson, KS 67501, as principal, and PLANET INDEMNITY COMPANY of 410 17th Stree, #1675, Denver, CO 80202, as surety, are held and firmly bound unto the United States of America in the sum of seventy-five thousand dollars ($75,000), lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves and each of us, our and each of our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated this 16th day of March, 19 94.

The condition of this obligation is such that whereas the said principal___, as lessee___ has heretofore or may hereafter enter into or otherwise acquire an interest in oil and gas mining leases on the Uintah and Ouray Reservation in the State of Utah, of various dates and periods of duration, covering lands or interests in lands held by the United States in trust for individual Indians, or bands or tribes of Indians, or subject to restrictions against alienation without the consent of the Secretary of the Interior, or his authorized representative, which leases and permits have been or may hereafter be granted or approved by the Secretary of the Interior, or his authorized representative, and the identification of which herein is expressly waived by both principal___ and surety hereto.

WHEREAS the principal___ and surety agree that the coverage of this bond shall extend to and include all extensions and renewals of the leases and permits covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth therein.

WHEREAS the surety hereby waives any right to notice of any modification of any such lease or permit, or obligation thereunder whether effected by extension of time for performance, by commitment of such lease to unit, cooperative, or communitization agreement, by waiver, suspension, or change in rental, except an increase thereof, by minimum royalty payment, except an increase thereof, by compensatory royalty payment, or otherwise, this bond to remain in full force and effect notwithstanding.

WHEREAS the principal___ and surety agree that the neglect or forebearance of any obligee under this bond in enforcing the payment of any rental or royalty or the performance of any other convenant, condition, or agreement of any such lease or permit shall not in any way release the principal___ and surety, or either of them, from any liability under this bond; and

WHEREAS the principal___ and surety agree that in the event of any default under any such lease or permit, the obligee may prosecute any claim, suit, action, or other proceeding against the principal___ and surety, or either of them, without the necessity of joining the other.

CERTIFICATE OF AUTHORITY NO. 14557

GENERAL POWER OF ATTORNEY

CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That **PLANET INDEMNITY COMPANY,** a corporation organized and existing under the laws of the State of Colorado, and having its principal office in the City of Denver, Colorado does hereby constitute and appoint:

ROY C. DIE

its true and lawful attorney-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, in an amount not to exceed:

**********FIFTY THOUSAND AND NO/100 DOLLARS**********

and the execution of all such instrument(s) in pursuance of these presents, shall be binding upon said **PLANET INDEMNITY COMPANY** as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be cerified to and may be revoked, pursuant to and by authority of Article V, Section 6(C) of the By-Laws adopted by the Board of Directors of **PLANET INDEMNITY COMPANY,** at a meeting called and held on this third day of March, 1987, of which the following is a true transcript of said Section 6(C):

"The President or any Vice President, Assistant Vice President, Secretary or Resident Secretary shall have power and authority

(1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and

(2) to appoint special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-laws of the Company, and

(3) to remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given to him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the third day of March, 1987, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, **PLANET INDEMNITY COMPANY** has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, E. H. Frank, III, on this the twenty eighth day of August, 1991.

PLANET INDEMNITY COMPANY CORPORATE SEAL COLORADO

E.H. Frank, III President

STATE OF COLORADO
COUNTY OF DENVER

On this 28th Day of August, 1991, before me came the individual who executed the preceding instrument, to me personally known, and, being duly sworn, said that he is the therein described and authorized officer of **PLANET INDEMNITY COMPANY;** that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the city of Denver, Colorado, the day and year first above written.

NANCY J. BRENHOLTZ NOTARY PUBLIC STATE OF COLORADO

Notary Public, Denver County, Colorado

CERTIFICATION

I, the undersigned officer of **PLANET INDEMNITY COMPANY,** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23rd day of February, 19 94

SEAL

Greg E. Chilson Assistant Secretary

Only a certified copy of Power of Attorney bearing the Certificate of Authority No. printed in red on the upper right corner is binding. Photocopies, carbon copies or other reproductions of this document are invalid and not binding upon the Company.

ANY INSTRUMENT ISSUED IN EXCESS OF THE PENALTY AMOUNT STATED ABOVE IS TOTALLY VOID AND WITHOUT VALIDITY.

UN1021 (11/93)

RECEIVED
APR 7
DIV. OF OIL, GAS & MINING

SURETY PERFORMANCE BOND

U.S. Environmental Protection Agency
Underground Injection Control
Financial Responsibility Requirement

BOND COVERS THE PLUGGING OF INJECTION WELLS

Date bond executed: March 23, 1994

Effective date: March 23, 1994

Principal: Petroglyph Operating Company, Inc.
(Legal name of owner or operator)

335 North Washington, Suite 170, Hutchinson, KS 67501
(Business address of owner or operator)

Type of organization: Corporation
(Individual, joint venture, partnership, or corporation)

State of incorporation: Kansas

Surety(ies): Planet Indemnity Company
(Name)

410 Seventeenth Street, Suite 1675, Denver, CO 80202
(Business address)

EPA identification number, name, address, and plugging and abandonment amount(s) for each injection well guaranteed by this bond. (Indicate plugging and abandonment amounts for each well. Attach separate list if necessary.)

Injection Well Information	Plugging & Abandonment Amount
Ute Tribal 3-10 D, SE4/SW4 Sec 10-4S-4W,	$15,000.00
Duchesne County, Utah	
Friar Ute Tribal 4, NE4/SW4 Sec 19-4S-4W,	$15,000.00
Duchesne County, Utah	
Ute Tribal 2-4, SW4/NE4 Sec 4-5S-3W	$15,000.00
Duchesne County, Utah	

Total penal sum of bond: $ 45,000.00

Surety's bond number: B04570

KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging and abandonment plan and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s) from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and

abandonment requirements of 40 CFR 144, for an injection well which this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment in accordance with the plugging and abandonment plan and other permit requirements or provisions for operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.

Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

(The following paragraph is an optional rider that may be included but is not required.)

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new plugging and abandonment amount, provided that the penal sum does not increase by more than 20% in any one year, and no decrease in the penal

sum takes place without the written permission of the EPA Regional Administrator(s).

In WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c) as such regulation was constituted on the date this bond was executed.

PRINCIPAL:	CORPORATE SURETY(IES)
Petrolglyph Operating Company, Inc.	Planet Indemnity Company
(Name)	(Name)
335 North Washington, Suite 170 Hutchinson, KS 67501	410 Seventeenth Street, Suite 1675 Denver, CO 80202
(Address)	(Address)
(Signature(s))	(Signature(s))
Robert A. Christensen, President	Roy C. Die, Attorney-in-Fact
(Title(s))	(Title(s))
Corporate Seal	Corporate Seal
	Colorado
State of Incorporation	State of Incorporation
$	$ 504,000.00
Bond Premium	Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)

CERTIFICATE OF AUTHORITY NO. 14613

GENERAL POWER OF ATTORNEY

CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That **PLANET INDEMNITY COMPANY,** a corporation organized and existing under the laws of the State of Colorado, and having its principal office in the City of Denver, Colorado does hereby constitute and appoint:

ROY C. DIE

its true and lawful attorney-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, in an amount not to exceed:

**********FIFTY THOUSAND AND NO/100**********

and the execution of all such instrument(s) in pursuance of these presents, shall be binding upon said **PLANET INDEMNITY COMPANY** as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be cerified to and may be revoked, pursuant to and by authority of Article V, Section 6(C) of the By-Laws adopted by the Board of Directors of **PLANET INDEMNITY COMPANY,** at a meeting called and held on this third day of March, 1987, of which the following is a true transcript of said Section 6(C):

"The President or any Vice President, Assistant Vice President, Secretary or Resident Secretary shall have power and authority

(1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and

(2) to appoint special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-laws of the Company, and

(3) to remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given to him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the third day of March, 1987, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, **PLANET INDEMNITY COMPANY** has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, E. H. Frank, III, on this the twenty eighth day of August, 1991.

PLANET INDEMNITY COMPANY CORPORATE SEAL COLORADO

E.H. Frank, III President

STATE OF COLORADO
COUNTY OF DENVER

On this 28th Day of August, 1991, before me came the individual who executed the preceding instrument, to me personally known, and, being duly sworn, said that he is the therein described and authorized officer of **PLANET INDEMNITY COMPANY;** that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the city of Denver, Colorado, the day and year first above written.

NANCY E. J. BRENHOLTZ NOTARY PUBLIC STATE OF COLORADO

Notary Public, Denver County, Colorado

CERTIFICATION

I, the undersigned officer of **PLANET INDEMNITY COMPANY,** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23rd day of March, 1994

PLANET INDEMNITY COMPANY CORPORATE SEAL COLORADO

Greg E. Chilson Assistant Secretary

Only a certified copy of Power of Attorney bearing the Certificate of Authority No. printed in red on the upper right corner is binding. Photocopies, carbon copies or other reproductions of this document are invalid and not binding upon the Company.

ANY INSTRUMENT ISSUED IN EXCESS OF THE PENALTY AMOUNT STATED ABOVE IS TOTALLY VOID AND WITHOUT VALIDITY.

UN1021 (11/93)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
APR 7

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Ute Tribal 2-4SWD

Field or Unit name: Antelope Creek API no. 43-013-30879

Well location: QQ SW/NE section 4 township 5S range 3W county Duchesne

Effective Date of Transfer: 3-1-94

CURRENT OPERATOR

Transfer approved by:

Name ~~Bruce Evertson~~ Phillip A. Kriz Company Evertson Oil Company, Inc.

Signature Address P.O. Box 397

Title V. President Kimball, NE 69145

Date 2/24/94 Phone (308) 278-4871

Comments:

NEW OPERATOR

Transfer approved by:

Name R. A. Christensen Company Petroglyph Operating Company, Inc.

Signature Address P.O. Box 1807

Title President Hutchinson, KS 67504-1807

Date 2.25.94 Phone (316) 665-8500

Comments:

(State use only)
Transfer approved by Title UIC Manager

Approval Date 8-29-94

X Aprv. Copies mailed both operators. fec

(3/89)

LAW OFFICES OF

morris, laing, evans, brock & kennedy, chartered

FOURTH FLOOR, 200 WEST DOUGLAS, WICHITA, KANSAS 67202-3084
TELEPHONE (316) 262-2671 FAX (316) 262-6226/262-5991

RALPH R. BROCK
JOSEPH W. KENNEDY
ROBERT I. GUENTHNER
DAVID C. ADAMS
KEN M. PETERSON
RICHARD D. GREENE
A. J. SCHWARTZ, JR.
DONALD E. SCHRAG
WILLIAM B. SORENSEN, JR.
DENNIS M. FEENEY

JEFFERY L. CARMICHAEL
ROBERT W. COYKENDALL
ROBERT K. ANDERSON
SUSAN R. SCHRAG
ROBERT E. NUGENT
MICHAEL LENNEN
KARL R. SWARTZ
ROGER L. THEIS
JANA DEINES ABBOTT
RICHARD F. HAYSE*

THOMAS R. DOCKING
GERALD N. CAPPS
DIANE S. WORTH
TIM J. MOORE
GARY E. PATTERSON
BRUCE A. NEY
JANET H. WARD

*RESIDENT IN TOPEKA OFFICE

ROBERT B. MORTON
EVA POWERS*
OF COUNSEL

VERNE M. LAING
RETIRED

LESTER L. MORRIS
1901-1966
FERD E. EVANS, JR.
1919-1991

April 5, 1994

RECEIVED
APR 7
DIV. OF OIL, GAS & MINING

Ms. Lisha Cordoba
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Petroglyph Gas Partners, L. P.

Dear Ms Cordoba:

I have spoken with you on occasion in the past concerning Petroglyph Gas Partners, L. P.'s acquisition of a 50% interest in a number of oil and gas leases in Utah. Most of these leases are on the Uintah and Ouray, Ute Reservation near Duchesne. I am enclosing the following documents in regard to this acquisition:

1. Copy of Collective Bond No. B04528 in the principal amount of $75,000 by Petroglyph Gas Partners, L. P. and Inland Resources Inc. as principal and Planet Indemnity Company as surety in favor of the Bureau of Indian Affairs;

2. Copy of Collective Bond No. B04556 in the principal amount of $75,000 by Petroglyph Operating Company, Inc. as principal and Planet Indemnity Company as surety in favor of the Bureau of Indian Affairs;

3. Copy of Surety Performance Bond in the principal amount of $45,000 by Petroglyph Operating Company, Inc. as Principal and Planet Indemnity Company as surety in favor of the U.S. Environmental Protection Agency;

TOPEKA OFFICE
800 S.W. JACKSON SUITE 914 TOPEKA, KS 66612-2214 TEL. (913) 232-2662 FAX (913) 232-9983

4. Twenty-eight (28) Form 5 Designation of Agent or Operator executed by Inland Resources Inc. designating Petroglyph Operating Company as Operator of the wells described therein, in triplicate;

5. Twenty-eight (28) Form 5 Designation of Agent or Operator executed by Petroglyph Gas Partners, L.P. designating Petroglyph Operating Company as Operator of the wells described therein, in triplicate;

6. Seventy-five (75) Form 9 Sundry Notice executed by Evertson Oil Company showing the change in Operations from Evertson Oil Company to Petroglyph Operating Company;

7. Seventy-five (75) Form 9 Sundry Notice executed by Petroglyph Gas Partners, L. P. showing the change in Operations from Evertson Oil Company to Petroglyph Operating Company;

8. UIC Form 5 Transfer of Authority to Inject for the Ute Tribal 2-4 SWDW, in triplicate;

9. UIC Form 5 Transfer of Authority to Inject for the Ute Tribal 4 SWDW, in triplicate; and

10. UIC Form 5 Transfer of Authority to Inject for the Ute Tribal 3-10D SWDW, in triplicate.

I thank you for your continued assistance with this matter. Please do not hesitate to give me a call if I have overlooked or omitted anything.

Sincerely,

Roger L. Theis
For the Firm

RLT:mk

Enclosures

cc: Robert A. Christensen

LAW OFFICES OF

morris, laing, evans, brock & kennedy, chartered

FOURTH FLOOR, 200 WEST DOUGLAS, WICHITA, KANSAS 67202-3084
TELEPHONE (316) 262-2671 FAX: (316) 262-6226/262-5991

RALPH R. BROCK
JOSEPH W. KENNEDY
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*RESIDENT IN TOPEKA OFFICE

ROBERT B. MORTON
EVA POWERS*
OF COUNSEL

VERNE M. LAING
RETIRED

LESTER L. MORRIS
1901-1966

FERD E. EVANS, JR.
1919-1991

April 25, 1994

RECEIVED
APR 28 1994

Ms. Lisha Cordoba
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Petroglyph Gas Partners, L. P.

Dear Ms Cordoba:

Enclosed in triplicate per our recent conversations are Sundry Notices pertaining to the Ute Tribal 1-29, 2-5, 5-29E3, and #8 wells which were inadvertently initially overlooked in this transaction as follows:

1. Form 9 Sundry Notice executed by Evertson Oil Company showing the change in Operations from Evertson Oil Company to Petroglyph Operating Company;

2. Form 9 Sundry Notice executed by Petroglyph Gas Partners, L. P. showing the change in Operations from Evertson Oil Company to Petroglyph Operating Company;

I thank you for your continued assistance with this matter. Please do not hesitate to give me a call if you need anything further.

Sincerely,

Roger L. Theis
For the Firm

RLT:mk

Enclosures

cc: Robert A. Christensen

TOPEKA OFFICE
800 S.W. JACKSON SUITE 914 TOPEKA, KS 66612-2214 TEL. (913) 232-2662 FAX (913) 232-9983

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

IN REPLY REFER TO:
3162.3
(UT08438)

JUN 3 0 1994

Petroglyph Operating Company, Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

Re: **See attached list for the well numbers and lease numbers**
Duchesne County, Utah

Gentlemen:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced wells. After a review by this office, the change in operator request is approved. Effective immediately, Petroglyph Operating Company, Inc., is responsible for all operations performed on the referenced wells. All liability will now fall under your bond, a $75,000 BIA Collective Bond, for all operations conducted on the referenced wells on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (801) 789-1362.

Sincerely,

Howard B. Cleavinger II
Assistant District Manager for Minerals

cc: Evertson Oil Company
BIA

traglyph - Assignments, and Change of Operator

Township 5 South, Range 3 West, USM

ase No.	Section No.	Well Name	Location
-20-H62-3502	3	Ute Tribal 1-3	SWSW
		Ute Tribal 2-3	SESW
-20-H62-3503	4	Ute Tribal 1-4	NENE
		Ute Tribal 2-4 SWD	SWNE
		Ute Tribal 3-4	NESW
		Ute Tribal 4-4	SWSW
		Ute Tribal 6-4	SESW
I-20-H62-3504	5	Ute Tribal 1-5	SWNE
		Ute Tribal 2-5	SWSW
		Ute Tribal 3-5 E3	NWSE
		Ute Tribal 4-5	SENE
I-20-H62-3505	6	Ute Tribal 1-6*	SESE
		Ute Tribal 3-6	SENE
4-20-H62-3506	7	Ute Tribal 1-7*	SESW
		Ute Tribal 2-7	NENE
		Ute Tribal 3-7	SENE
4-20-H62-3507	8	Ute Tribal 1-8	NWNW
		Ute Tribal 2-8	SWNW
		Ute Tribal 3-8	NENW
		Ute Tribal 4-8	NWSW
		Ute Tribal 5-8	SENW
4-20-H62-3508	9	Ute Tribal 2-9	NENE
		Ute Tribal 4-9	SWSE
14-20-H62-3509	10	Ute Tribal 1-10	NWNW
		Ute Tribal 2-10	NENW

(*) = Lease No. incorrect on Sundry Notice submitted

Township 5 South, Range 3 West, USM

Lease No.	Section No.	Well Name	Location
14-20-H62-3510	15	Ute Tribal 1-15	NWNW
14-20-H62-3511	16	Ute Tribal 1-16*	SESE
		Ute Tribal 2-16	SWSW
14-20-H62-4633	17	Ute Tribal 1-17*	NENE
14-20-H62-3513	18	Ute Tribal 1-18	NENE
		Ute Tribal 2-18	SENE
		Ute Tribal 4-18	NWNE
		Ute Tribal 5-18	NESE
14-20-H62-3514	19	Ute Tribal 1-19	SESE
14-20-H62-3515	20	Ute Tribal 1-20	NWNE
		Ute Tribal 2-20	SWNE
		Ute Tribal 3-20*	SENW
14-20-H62-3516	21	Ute Tribal 1-21	SWSW
14-20-H62-3517	28	Ute Tribal 1-28	SWNW
14-20-H62-3518	29	Ute Tribal 1-29	NESE
		Ute Tribal 2-29	SESE
		Ute Tribal 3-29	SENW
		Ute Tribal 4-29	NWNW
		Ute Tribal 5-29E3	SWNE
		Ute Tribal ~~7-29~~ 6-29	SENE
		Ute Tribal 7-29	NESE
14-20-H62-3519	30	Ute Tribal 1-30	SWNE
14-20-H62-3520	31	Ute Tribal 1-31*	NWNE
		Ute Tribal 2-31	NENW
14-20-H62-3521	32	Ute Tribal 1-32	SENE
14-20-H62-3522	33	Ute Tribal 1-33	NENW

Township 4 South, Range 4 West, USM

Lease No.	Section No.	Well Name	Location
4-20-H62-4446	3	Ute Tribal 1-3D	SESE
4-20-H62-4453	22	Ute Tribal 1-22D	NENW
4-20-H62-4454	10	Ute Tribal 6-10D	SENE
4-20-H62-4455	21	Ute Tribal 1-21D	NENW
4-20-H62-4465	20	Ute Tribal 1-20D	NWNE
4-20-H62-4466	24	Ute Tribal 1-24D	NWNW

Township 4 South, Range 4 West, USM

Lease No.	Section No.	Well Name	Location
I-109-IND-5351	7	Ute Tribal 1-7D	SESE
	8	Ute Tribal 2-8D	NWSE
	9	Ute Tribal #1	NWSW
	10	Ute Tribal 1-10D	SWSE
	10	Ute Tribal 2-10D	SWSW
	10	Ute Tribal 3-10D/WDW	SESW
	10	Ute Tribal 4-10D	NESE
	15	Ute Tribal 1-15D	SWSW
	15	Ute Tribal 2-15D	NWNW
	16	Ute Tribal #3	SENE
	16	Ute Tribal #5	SWNW
	16	Ute Tribal 6-16D	NENW
	16	Ute Tribal 7-16D	SENE
	16	Ute Tribal #8	NWNW
	16	Ute Tribal 8-16D	NESE
	16	Ute Tribal 14-16D	NENW
	17	Ute Tribal #6	SWNE
	17	Ute Tribal #7	SWNW
	17	Ute Tribal 4-17D	NWSE
	18	Ute Tribal 2-18D	NESE
	18	Ute Tribal 4-18D	NWNW

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:
[] **Well File** _____
(Location) Sec___Twp___Rng___
(API No.) _____

[] **Suspense**
(Return Date) _____
(To - Initials) _____

[X] **Other** Oper. Chg.

1. Date of Phone Call: 7-28-94 Time: 10:00

2. DOGM Employee (name) L. Cordova (Initiated Call [X])
Talked to:
Name Charlie Cameron (Initiated Call [ ]) - Phone No. (801) 722-2406
of (Company/Organization) BIA / Uintah & Ouray

3. Topic of Conversation: Bonding 3/UIC wells
(2-4/WIW, 3-10D/WDW, 4/WDW)

4. Highlights of Conversation:
Bfm Aprvd. 2-4 & 3-10D / BIA Bond #75,000, EPA Bond #45,000/B04570
* No aprv. #4/WDW (No individual sundries, on other doc & UIC F5) - EPA Bond B04570
(Bfm/BIA Aprv. eff. 8-22-94)

* 940729 BIA/Charlie Cameron
2/#75,000 Bonds are in place w/BIA, as far as the 3/UIC wells in question, he is not absolutely sure whether or not BIA/Bonds will cover the wells. DOGM may want to pursue add'l bond coverage. He can give us a definite reply within the next 2-3 weeks. I informed him of bonding w/EPA of which he was not aware of.
* 940824 Charlie Cameron/BIA Unable to give a definite answer at this time.
* 940829 DOGM/UIC Additional bonding not necessary at this time.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LEC/CIR
2- LWP 7-PL
3- DTS/8-SJ
4- VLC 9-FILE
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.

XXX 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: 2-1-94)

TO (new operator) PETROGLYPH OPERATING CO
(address) PO BOX 1839
HUTCHINSON KS 67504-1839

phone (316) 665-8500
account no. N 3800

FROM (former operator) EVERTSON OIL COMPANY INC
(address) PO BOX 397
KIMBALL NE 69145

phone (308)235-4871
account no. N6350

Well(s) (attach additional page if needed): *WIW **WDW

Name: *UTE TRIBAL 2-4/GRRV	API: 43-013-30879	Entity: 9930	Sec 4	Twp 5S	Rng 3W	Lease Type: INDIAN
Name: **UTE TRIBAL 3-10D/GRRV	API: 43-013-31217	Entity: 10910	Sec 10	Twp 4S	Rng 4W	Lease Type: INDIAN
Name: **UTE TRIBAL 4/UNTA	API: 43-013-15321	Entity: 10942	Sec 16	Twp 4S	Rng 4W	Lease Type: INDIAN
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-7-94)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 2-18-94 & 4-7-94)

Lec 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: #C0180242. (eff. 2-18-94)

Lec 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.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (7-8-94)

LWP 6. Cardex file has been updated for each well listed above. (7-11-94)

LWP 7. Well file labels have been updated for each well listed above. (7-11-94)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (7-8-94)

Lec 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.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

fee 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) (2/75,000 BIA & 3/15,000 EPA)

N/A/fee 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.

OTS 9/8/94

N/A 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: September 14 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

940829 2-4 & 3-10D Aprv. BIA/Blm 6-30-94

#4 Aprv. BIA/Blm 8-22-94.

(all other wells handled on separate changes.)

WE71/34-35

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

5. Lease Designation and Serial No.
14-20-H62-3503

6. If Indian, Allottee or Tribe Name
Ute Tribe

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

7. If Unit or CA, Agreement Designation
14-20-H62-4650

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other Water Disposal Well

8. Well Name and No.
Ute Tribal 2-4

2. Name of Operator
Petroglyph Operating Company, Inc.

9. API Well No.
43-013-30879

3. Address and Telephone No.
P.O. Box 607, Roosevelt, UT 84066 (801) 722-2531

10. Field and Pool, or Exploratory Area
Antelope Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2551' FNL & 1900'FEL
SW NE Sec. 4-T5S-R3W

11. County or Parish, State
Duchesne, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other reperforating & acidizing	☐ 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.)*

Petroglyph Operating Company, Inc. would like to notify you by subsequent report that the above referenced well was reperforated on 5-18-95, 5828-5846', 4 spf.

RTTS pkr @ 5805'. Spotted 750 gal 15% HCL, followed by 1250 gals 15% HCL. MIR @ 3 BPM @ 2500 psi. Increased rate 5 BPM @ 3000 psi. ISIP 2250 psi. 15 min. 2100.

Flowed back. Commenced injection on 5-20-95.

RECEIVED
JUL 10 1995
DIV. OF OIL, GAS & MINING

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

Signed Dan M Lindley Title Manager of Operations Date 5-31-95

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side

RECEIVED JUN 1 3 1995

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-H62-3503

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA, Agreement Designation
14-20-H62-4650

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
Ute Tribal 2-4

2. Name of Operator
Petroglyph Operating Company, Inc.

9. API Well No.
43-013-30879

3. Address and Telephone No.
6209 N. Highway 61 Hutchinson, KS 67502 (316) 665-8500

10. Field and Pool, or Exploratory Area
Antelope Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SWNE 2551 FNL & 1900 FEL
4-5S-3W

11. County or Parish, State
Duchesne County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
XX☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	XX☒ Other well name change	☐ 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.)*

In an effort to bring all of the existing wells and the anticipated wells to be drilled into a uniform numbering system, based on 40 acre locations, each well name will be changed to consist of its section location followed by the correct number of its well spot, based upon 16 wells per section.

Petroglyph Operating Company, Inc. would like to notify by subsequent report that the above referenced well name has been changed to **Ute Tribal 04-07**. This will be effective January 1, 1996.

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

Signed _____ Title President Date 1/25/96

(This space for Federal or State office use)

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

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

***See Instruction on Reverse Side**

PETROGLYPH Operating Company, Inc.
6209 North Highway 61, Hutchinson, Kansas 67502 • P.O. Box 1839, Hutchinson, Kansas 67504-1839

January 26, 1996

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

RE: Well Name Change for Wells in the Antelope Creek Field, Duchesne County, UT

Mr. Firth:

In an effort to bring all of the existing wells and wells to be drilled into a uniform numbering system, based on 40 acre locations and 16 wells per section, each well name will be changed to consist of its section location followed by the correct number of its well spot.

Enclosed please find sundry notices changing the well name for all wells located in Antelope Creek. We are making this change effective January 1, 1996. Also enclosed for your convenience is a list consisting of the "old" well names and the "new" well names.

Your assistance during this time of transition is greatly appreciated. If you have any questions regarding the enclosed information, please do not hesitate to contact me at (316) 665-8500.

Sincerely,

Angela R. Ely

Angela R. Ely
Administrative Operations Manager

ARE/ms

Enclosures

pc: Dennis Ingram
Lisha Cordova

ae\data\lgl-ut\blm\1-26WELL.DOC

316-665-8500 • Fax 316-665-8577

AgrmtNbt	LeaseNbr	LeaseName	Old	New	API	Footage	Field	Town	Range	Sec	Qtr
14-20-H62-4650	14-20-H62-3509	Ute Tribal	1-10	10-12	43-013-30805	2001 FSL & 600 FWL	Antelope Creek	5S	3W	10	NWSW
14-20-H62-4650	14-20-H62-3510	Ute Tribal	1-15	15-04	43-013-30880	907 FNL & 515 FWL	Antelope Creek	5S	3W	15	NWNW
14-20-H62-4650	14-20-H62-3511	Ute Tribal	1-16	16-16	43-013-30804	505 FSL & 600 FEL	Antelope Creek	5S	3W	16	SESE
14-20-H62-4650	14-20-H62-4633	Ute Tribal	1-17	17-01	43-013-30790	638 FNL & 610 FEL	Antelope Creek	5S	3W	17	NENE
14-20-H62-4650	14-20-H62-3513	Ute Tribal	1-18	18-01	43-013-30761	550 FNL & 521 FEL	Antelope Creek	5S	3W	18	NENE
14-20-H62-4650	14-20-H62-3514	Ute Tribal	1-19	19-16	43-013-30803	556 FSL & 603 FEL	Antelope Creek	5S	3W	19	SESE
14-20-H62-4650	14-20-H62-3515	Ute Tribal	1-20	20-02	43-013-30764	404 FNL & 1539 FEL	Antelope Creek	5S	3W	20	NWNE
14-20-H62-4650	14-20-H62-3516	Ute Tribal	1-21	21-13	43-013-30883	611 FSL & 786 FWL	Antelope Creek	5S	3W	21	SWSW
14-20-H62-4650	14-20-H62-3517	Ute Tribal	1-28	28-05	43-013-30802	2583 FNL & 712 FWL	Antelope Creek	5S	3W	28	SWNW
14-20-H62-4650	14-20-H62-3518	Ute Tribal	1-29 inj	29-09 inj	43-013-30763	1324 FSL & 1160 FEL	Antelope Creek	5S	3W	29	NESE
14-20-H62-4650	14-20-H62-3502	Ute Tribal	1-3	03-13	43-013-30823	659 FSL & 659 FWL	Antelope Creek	5S	3W	3	SWSW
14-20-H62-4650	14-20-H62-3519	Ute Tribal	1-30	30-07	43-013-30852	1980 FNL & 1980 FEL	Antelope Creek	5S	3W	30	SWNE
14-20-H62-4650	14-20-H62-3520	Ute Tribal	1-31	31-02	43-013-30827	519 FNL & 1942 FEL	Antelope Creek	5S	3W	31	NWNE
14-20-H62-4650	14-20-H62-3521	Ute Tribal	1-32	32-08	43-013-30853	2100 FNL & 660 FEL	Antelope Creek	5S	3W	32	SENE
14-20-H62-4650	14-20-H62-3522	Ute Tribal	1-33	33-04	43-013-30806	723 FNL & 802 FWL	Antelope Creek	5S	3W	33	NWNW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	1-4	04-01	43-013-30762	1331 FNL & 1277 FEL	Antelope Creek	5S	3W	4	NENE
14-20-H62-4650	14-20-H62-3504	Ute Tribal	1-5	05-07	43-013-30785	2430 FNL & 1777 FEL	Antelope Creek	5S	3W	5	SWNE
14-20-H62-4650	14-20-H62-3505	Ute Tribal	1-6	06-16	43-013-30793	833 FSL & 902 FEL	Antelope Creek	5S	3W	6	SESE
14-20-H62-4650	14-20-H62-3506	Ute Tribal	1-7	07-14	43-013-30788	559 FSL & 1957 FWL	Antelope Creek	5S	3W	7	SESW
14-20-H62-4650	14-20-H62-3507	Ute Tribal	1-8 inj	08-04 inj	43-013-30759	754 FNL & 888 FWL	Antelope Creek	5S	3W	8	NWNW
14-20-H62-4650	14-20-H62-3504	Ute Tribal	11-5	05-09	43-013-31468	2150 FSL & 639 FEL	Antelope Creek	5S	3W	5	NESE
14-20-H62-4650	14-20-H62-3517	Ute Tribal	12-28	28-12	43-013-31529	1861 FSL & 496 FWL	Antelope Creek	5S	3W	28	NWSW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	12-4	04-12	43-013-31470	2000 FSL & 600 FWL	Antelope Creek	5S	3W	4	NWSW
14-20-H62-4650	14-20-H62-3504	Ute Tribal	12-5	05-11	43-013-31454	1856 FSL & 1457 FWL	Antelope Creek	5S	3W	5	NESW
14-20-H62-4650	14-20-H62-3507	Ute Tribal	13-8	08-13	43-013-31468	660 FSL & 660 FWL	Antelope Creek	5S	3W	8	SWSW
14-20-H62-4650	14-20-H62-3518	Ute Tribal	14-29	29-10	43-013-31475	1955 FSL & 2125 FEL	Antelope Creek	5S	3W	29	NWSE
14-20-H62-4650	14-20-H62-3504	Ute Tribal	14-5	05-14	43-013-31455	590 FSL & 1984 FWL	Antelope Creek	5S	3W	5	SESW
14-20-H62-4650	14-20-H62-3518	Ute Tribal	15-29	29-15	43-013-31530	649 FSL & 1831 FEL	Antelope Creek	5S	3W	29	SWSE
14-20-H62-4650	14-20-H62-3504	Ute Tribal	15-5	05-15	43-013-31461	990 FSL & 1900 FEL	Antelope Creek	5S	3W	5	SWSE
14-20-H62-4650	14-20-H62-3504	Ute Tribal	16-5	05-16	43-013-31527	708 FSL & 523 FEL	Antelope Creek	5S	3W	5	SESE
14-20-H62-4650	14-20-H62-3506	Ute Tribal	16-7	07-16	43-013-31463	440 FSL & 410 FEL	Antelope Creek	5S	3W	7	SESE
14-20-H62-4650	14-20-H62-3507	Ute Tribal	1A-8	08-01	43-013-31568	660 FSL & 660 FEL	Antelope Creek	5S	3W	8	NENE
14-20-H62-4650	14-20-H62-3509	Ute Tribal	2-10	10-03	43-013-31187	600 FNL & 1650 FWL	Antelope Creek	5S	3W	10	NENW
14-20-H62-4650	14-20-H62-3511	Ute Tribal	2-16	16-13	43-013-31166	750 FSL & 500 FWL	Antelope Creek	5S	3W	16	SWSW
14-20-H62-4650	14-20-H62-3513	Ute Tribal	2-18	18-08	43-013-30881	1929 FNL & 612 FEL	Antelope Creek	5S	3W	18	SENE
14-20-H62-4650	14-20-H62-3515	Ute Tribal	2-20	20-07	43-013-30882	1980 FNL & 1980 FEL	Antelope Creek	5S	3W	20	SWNE
14-20-H62-4650	14-20-H62-3518	Ute Tribal	2-29	29-16	43-013-30849	500 FSL & 500 FEL	Antelope Creek	5S	3W	29	SESE
14-20-H62-4650	14-20-H62-3502	Ute Tribal	2-3	03-14	43-013-31097	1050 FSL & 1980 FWL	Antelope Creek	5S	3W	3	SESW
14-20-H62-4650	14-20-H62-3520	Ute Tribal	2-31	31-03	43-013-31188	442 FNL & 2338 FWL	Antelope Creek	5S	3W	31	NENW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	2-4 inj	04-07 inj	43-013-30879	2551 FNL & 1900 FEL	Antelope Creek	5S	3W	4	SWNE
14-20-H62-4650	14-20-H62-3504	Ute Tribal	2-5	05-13	43-013-30824	723 FSL & 588 FWL	Antelope Creek	5S	3W	5	SWSW
14-20-H62-4650		State	2-6	06-10	43-013-30891	2525 FSL & 1836 FEL	Antelope Creek	5S	3W	6	NW SE
14-20-H62-4650	14-20-H62-3506	Ute Tribal	2-7	07-01	43-013-30825	567 FNL & 706 FEL	Antelope Creek	5S	3W	7	NENE
14-20-H62-4650	14-20-H62-3507	Ute Tribal	2-8	08-05	43-013-30826	1980 FNL & 500 FWL	Antelope Creek	5S	3W	8	SWNW
14-20-H62-4650	14-20-H62-3508	Ute Tribal	2-9	09-01	430-13-30789	770 FNL & 1059 FEL	Antelope Creek	5S	3W	9	NENE
14-20-H62-4650	14-20-H62-3507	Ute Tribal	2A-8	08-02	43-013-31569	506 FNL & 1956 FEL	Antelope Creek	5S	3W	8	NWNE
14-20-H62-4650	14-20-H62-3513	Ute Tribal	3-18	18-03	43-013-31528	614 FNL & 1983 FWL	Antelope Creek	5S	3W	18	NENW

AgrmtNbt	LeaseNbr	LeaseName	Old	New	API	Footage	Field	Town	Range	Sec	Qtr
14-20-H62-4650	14-20-H62-3515	Ute Tribal	3-20	**20-06**	43-013-31175	2050 FNL & 1950 FWL	Antelope Creek	5S	3W	20	SENW
14-20-H62-4650	14-20-H62-3518	Ute Tribal	3-29	**29-06**	43-013-30850	1900 FNL & 1980 FWL	Antelope Creek	5S	3W	29	SENW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	3-4	**04-11**	43-013-30878	1999 FSL & 1738 FWL	Antelope Creek	5S	3W	4	NESW
14-20-H62-4650	14-20-H62-3504	Ute Tribal	3-5 E3 inj	**05-10 inj**	43-013-30938	2068 FSL & 2093 FEL	Antelope Creek	5S	3W	5	NWSE
14-20-H62-4650	14-20-H62-3505	Ute Tribal	3-6	**06-08**	43-013-31189	2323 FNL & 691 FEL Lot # 9	Antelope Creek	5S	3W	6	SENE
14-20-H62-4650	14-20-H62-3506	Ute Tribal	3-7	**07-08**	43-013-30828	1864 FNL & 972 FEL	Antelope Creek	5S	3W	7	SENE
14-20-H62-4650	14-20-H62-3507	Ute Tribal	3-8	**08-03**	43-013-31101	505 FNL & 439 FWL	Antelope Creek	5S	3W	8	NENW
14-20-H62-4650	14-20-H62-4633	Ute Tribal	4-17	**17-04**	43-013-31464	697 FNL & 636 FWL	Antelope Creek	5S	3W	17	NWNW
14-20-H62-4650	14-20-H62-3513	Ute Tribal	4-18 inj	**18-02 inj**	43-013-31099	812 FNL & 1768 FEL	Antelope Creek	5S	3W	18	NWNE
14-20-H62-4650	14-20-H62-3518	Ute Tribal	4-29	**29-04**	43-013-30851	660 FNL & 660 FWL	Antelope Creek	5S	3W	29	NWNW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	4-4	**04-13**	43-013-30848	807 FSL & 886 FWL	Antelope Creek	5S	3W	4	SWSW
14-20-H62-4650	14-20-H62-3504	Ute Tribal	4-5	**05-08**	43-013-31306	2500 FNL & 550 FEL	Antelope Creek	5S	3W	5	SENE
14-20-H62-4650	14-20-H62-3507	Ute Tribal	4-8	**08-12**	43-013-31164	2100 FSL & 515 FWL	Antelope Creek	5S	3W	8	NWSW
14-20-H62-4650	14-20-H62-3508	Ute Tribal	4-9	**09-15**	43-013-31165	550 FSL & 2000 FEL	Antelope Creek	5S	3W	9	SWSE
14-20-H62-4650	14-20-H62-3503	Ute Tribal	4A-4	**04-04**	43-013-31574	1205 FNL & 660 FWL Lot # 5	Antelope Creek	5S	3W	4	NWNW
14-20-H62-4650	14-20-H62-3513	Ute Tribal	5-18 inj	**18-09 inj**	43-013-31180	2151 FSL & 667 FEL	Antelope Creek	5S	3W	18	NESE
14-20-H62-4650	14-20-H62-3518	Ute Tribal	5-29 E3	**29-07**	43-013-30939	1969 FNL & 2093 FEL	Antelope Creek	5S	3W	29	SWNE
14-20-H62-4650	14-20-H62-3503	Ute Tribal	5-4	**04-05**	43-013-31462	1969 FNL & 660 FWL Lot # 12	Antelope Creek	5S	3W	4	SWNW
14-20-H62-4650	14-20-H62-3507	Ute Tribal	5-8 inj	**08-06 inj**	43-013-31307	1550 FNL & 1550 FWL	Antelope Creek	5S	3W	8	SENW
14-20-H62-4650	14-20-H62-3518	Ute Tribal	6-29	**29-08A**	43-013-31305	2600 FNL & 600 FEL	Antelope Creek	5S	3W	29	SENE
14-20-H62-4650	14-20-H62-3503	Ute Tribal	6-4	**04-14**	43-013-31100	660 FSL & 2000 FWL	Antelope Creek	5S	3W	4	SESW
14-20-H62-4650	14-20-H62-3503	Ute Tribal	6A-4	**04-06**	43-013-31526	2427 FNL & 2028 FWL Lot # 11	Antelope Creek	5S	3W	4	SENW
14-20-H62-4650	14-20-H62-3513	Ute Tribal	7-18	**18-07**	43-013-31533	2236 FNL & 1855 FEL	Antelope Creek	5S	3W	18	SWNE
14-20-H62-4650	14-20-H62-3518	Ute Tribal	7-29	**29-08B**	43-013-31339	2675 FNL & 725 FEL	Antelope Creek	5S	3W	29	NESE
14-20-H62-4650	14-20-H62-3517	Ute Tribal	11-28	**28-11**	43-013-31575	2171 FSL & 2107 FWL	Antelope Creek	5S	3W	28	NESE
14-20-H62-4650	14-20-H62-3513	Ute Tribal	10-18	**18-10**	43-013-31595	1954 FSL & 1894 FEL	Antelope Creek	5S	3W	18	NWSE
14-20-H62-4650	14-20-H62-3517	Ute Tribal	13-28	**28-13**	43-013-31576	712 FSL & 553 FWL	Antelope Creek	5S	3W	28	SWSW
14-20-H62-4650	14-20-H62-3517	Ute Tribal	6-28	**28-06**	43-013-31594		Antelope Creek	5S	3W	28	SENW
14-20-H62-4650	14-20-H62-3521	Ute Tribal	1A-32	**32-01**	43-013-31577	759 FNL & 502 FEL	Antelope Creek	5S	3W	32	NENE

PETROGLYPH Operating Company, Inc.
6209 North Highway 61, Hutchinson, Kansas 67502 • P.O. Box 1839, Hutchinson, Kansas 67504-1839

January 26, 1996

John Carson
United States EPA
U.I.C. Program
999 18th Street, Ste. 500
Denver, CO 80202-2466

RE: Well Name Change for Wells in the Antelope Creek Field, Duchesne County, UT
EPA Area Permit # UT2736-00000

Mr. Carson:

In an effort to bring all of the existing wells and wells to be drilled into a uniform numbering system, based on 40 acre locations and 16 wells per section, each well name will be changed to consist of its section location followed by the correct number of its well spot.

We are making this change effective January 1, 1996. Following is a list consisting of the "old" well names and the "new" well names of SWD, enhanced recovery and injection wells.

NEW WELL NAME	OLD	LOCATION	PERMIT #
Ute Tribal 04-07	2-4	SW NE Sec. 4-T5S-R3W	UT2497-03100
Ute Tribal 08-04	1-8	NW NW Sec. 8-T5S-R3W	UT2736-04201
Ute Tribal 08-06	5-8	SE NW Sec. 8-T5S-R3W	UT2736-04203
Ute Tribal 18-02	4-18	NW NE Sec. 18-T5S-R3W	UT2736-04202
Ute Tribal 18-09	5-18	NE SE Sec. 18-T5S-R3W	UT2736-04204
Ute Tribal 29-09	1-29	SE/4 Sec. 29-T5S-R3W	UT2736-04233
Ute Tribal 05-10	3-5 E3	SE/4 Sec. 5-T5S-R3W	UT2736-04234

If you have any questions regarding the enclosed information, please do not hesitate to contact me at (316) 665-8500.

Sincerely,

Angela R. Ely

Angela R. Ely
Administrative Operations Manager

ARE/ms

Enclosure

pc: Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

ae\data\lgl-ut\blm\1-26CARS.DOC
1/27/96 11:19 AM

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
14-20-H62-3503

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Ute Tribal 04-07

2. Name of Operator
Petroglyph Operating Company, Inc.

9. API Well No.
43-013-30879

3. Address and Telephone No.
P.O. Box 607, Roosevelt, UT 84066 (435) 722-2531

10. Field and Pool, or Exploratory Area
Antelope Creek

4. Location of Well (Footage, Sec., T., R., or Survey Description)
2551' FNL 1900' FEL
SWNE Sec. 4-T5S-R3W

11. County or Parish, State
Duchesne County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
	☐ Recompletion	☐ New Construction
☐ Subsequent Report	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ 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.)*

The above referenced well disposed of 319 BW on 6/11/98, changing the status of this well to active.

RECEIVED
NOV 13 1998
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Lanna Kelly Title Operations Coordinator Date 11/11/98

(This space for Federal or State official use)
Approved by _____ Title _____ Date _____
Conditions of Approval, if any:

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

*See Instruction on Reverse Side