

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

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

MAY 17 1990

DIVISION OF
OIL, GAS, AND MINING

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

Not Applicable

7. Unit Agreement Name

Not Applicable

8. Farm or Lease Name

Shimmin Trust

9. Well No.

4

10. Field and Pool, or Wildcat

Wildcat - 001

11. Sec., T., R., M., or Blk. and Survey or Area

Section 11, T12S, R10E

12. County or Parrish

Carbon

13. State

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Cockrell Oil Corporation

(713) 651-1271

3. Address of Operator

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

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface

540' FSL, 1950' FWL (SE 1/4 SW 1/4)

At proposed prod. zone

Same

14. Distance in miles and direction from nearest town or post office*

Eight Miles Northeast of Helper, Utah

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

540'

16. No. of acres in lease

320

17. No. of acres assigned to this well

40

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

N/A

19. Proposed depth

3700' plug back

20. Rotary or cable tools

Rotary

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

7398' GR

22. Approx. date work will start*

June 1, 1990

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" K-55	24.0#	300'	Circulate to Surface
7-7/8"	5-1/2" K-55	15.5#	Total Depth	400± sx

PLEASE REFER TO ATTACHED DRILLING PROGNOSIS.

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

Dale Heitzman
Dale Heitzman

Title

Consultant

Date May 11, 1990

(This space for Federal or State office use)

Permit No.

43-007-30103

Approval Date

Approved by

Conditions of approval, if any:

Title

APPROVED BY THE STATE
OF UTAH, DIVISION OF
OIL, GAS, AND MINING
DATE: *5/13/90*
BY: *[Signature]*
WELL SPACING:

*See Instructions On Reverse Side

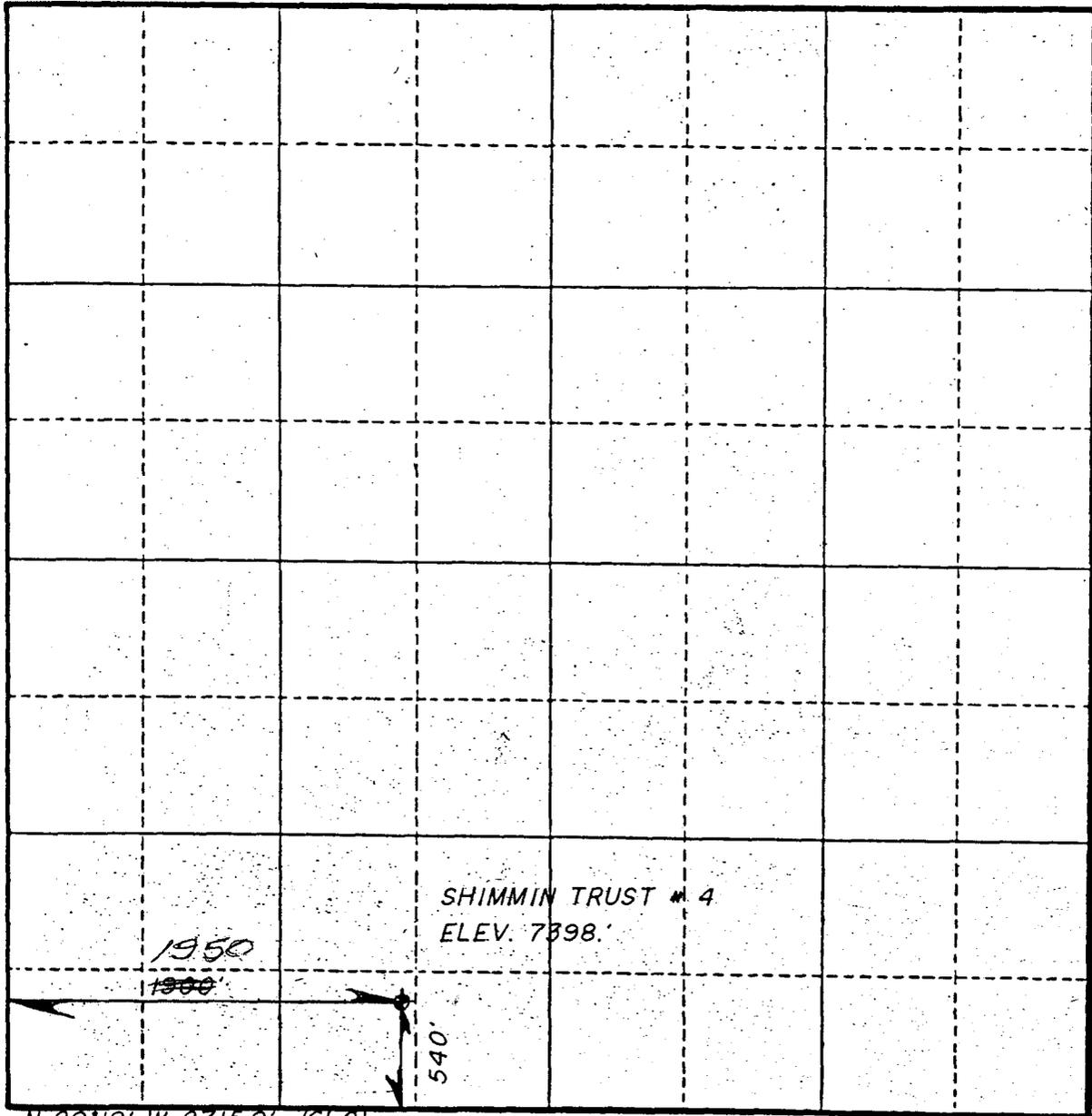
SHIMMIN TRUST NO. 4

SECTION 11 TOWNSHIP 12 SOUTH RANGE 10 EAST SALT LAKE BASE & MERIDIAN

NORTH CARBON COUNTY UTAH

FOUND BC.

FOUND BC.



FOUND BC.

FOUND BC.

N 89°19' W 2715.9' (GLO)

Scale 1'' = 880 Feet

SOUTH

SURVEYOR'S CERTIFICATE

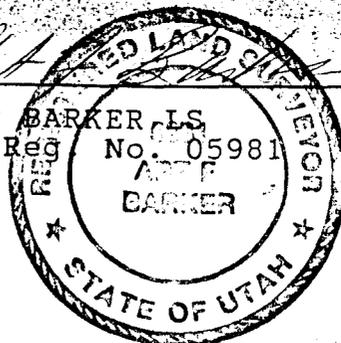
I, Art F Barker, a duly registered Land Surveyor in the state of Utah, do hereby certify that the survey represented by this plat is correct to the best of my knowledge and belief.

By

ART F BARKER, LS
Utah Reg No. 05981

Date

5/11/90



COCKRELL OIL CORPORATION

#4 Shimmin Trust
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 11, T12S, R10E
Carbon County, Utah

Proposed Drilling Prognosis

1. Estimated Tops of Important Geologic Markers:

Flagstaff	Surface
Mesaverde B/Main Coal	3050'
Mesaverde B/All Coals	3500'
Total Depth	3700'

2. Estimated Depths of Anticipated Water, Oil and Gas:

Mesaverde Coal 300'-3500' Methane Gas

Fresh water zones, if any, encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: (Schematic Attached)

Type : 9 or 10" Double Gate Hydraulic with one (1) blind ram and one (1) pipe ram and Annular Preventer; equipped with automatic choke manifold.

Pressure Rating : 3000 psi BOP, 3000 psi choke manifold, 3000 psi Annular Preventer.

BOP and related pressure control equipment will be tested to 70% of the minimum internal yield pressure prior to drilling out the surface casing shoe and tested every thirty (30) days thereafter and recorded in the driller's log.

4. Mud Program:

<u>Interval</u>	<u>Type</u>
0- 300'	Fresh Water
300-3700'	Air Drill

If unable to drill with air then will convert to native mud (fresh water). No chemicals will be used.

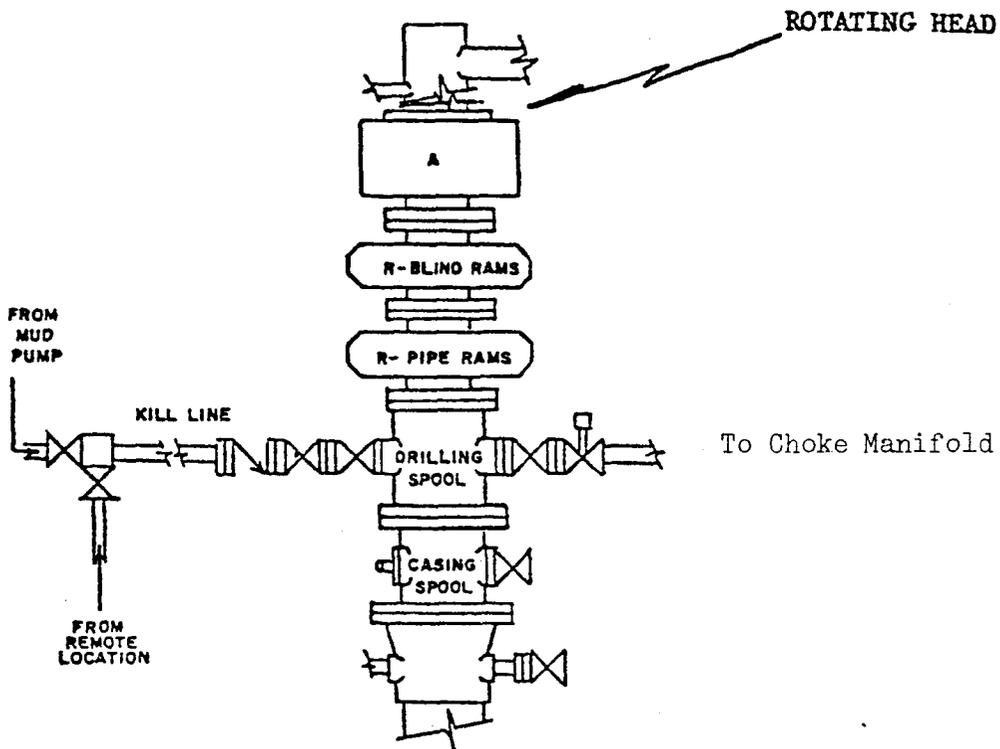
Weight: 8.0# Viscosity: 35-45 Fluid Loss: 15 cc/less

5. Evaluation Program:

- DST's : None anticipated
- Cores : At the discretion of the wellsite geologist
- Logs : At Total Depth electric logs will be run to the base/surface casing. Type of logs will be determined at Total Depth.

6. Adverse Conditions:

No extreme formation pressures, temperatures or H₂S gas is anticipated during drilling at this depth.



Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
 - a) inside blowout preventer
 - b) lower kelly cock
 - c) upper kelly cock
 - d) stand pipe valve
 - e) lines to mud pump
 - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

COCKRELL OIL CORPORATION

#4 Shimmin Trust
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 11, T12S, R10E
Carbon County, Utah

Supplement to Application for Permit to Drill

1. Location and Type of Water Supply:

- A. Target Trucking will supply water from Summit Creek located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 11, Township 12 South, Range 10 East. A water permit will be obtained and a copy furnished the Utah Oil & Gas Commission.

2. Methods of Handling Waste Disposal:

- A. Sewage - self-contained, chemical toilets will be provided for human waste disposal.
- B. Garbage and other waste materials - all trash will be contained in a portable trash cage. Upon completion of operations, all trash will be hauled to an approved sanitary landfill.
- C. Cuttings and drilling fluids - the cuttings will be deposited in the reserve pit. Drilling fluids will be contained in reserve pit and allowed to evaporate. The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of one-half (1/2) the total depth below the original ground surface on the lowest point within the pit. The reserve pit will not be lined as only fresh water will be used if drilling with air is not utilized.

3. Plans for Reclamation of the Surface:

- A. Backfilling, leveling and re-contouring are planned as soon as the reserve pit dries. Waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities. If production is established, the unneeded areas of the location will be reclaimed as soon as the reserve pit dries.
- B. Upon completion of backfilling, leveling and re-contouring, the stock-piled topsoil will be evenly spread over the reclaimed area(s). All disturbed surfaces (including access road and well pad areas) will be reseeded using the seed mixture recommended by the Surface Owner.
- C. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock and wildlife from becoming entrapped, and the fencing will be maintained until leveling and cleanup are accomplished.

3. Plans for Reclamation of the Surface: Continued

- D. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- E. The reclamation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Rehabilitation operations should be completed by the Fall of 1991.

4. Other Information:

- A. The surface is owned by Shimmin Trust. Telephone: (801) 637-3412
Cockrell Oil Corporation has agreed to their requirements as to the rehabilitation of the surface. The Shimmin Trust is the mineral owner also.

Shimmin Trust
c/o Funnon Shimmin
1551 East North Coal Creek Road
Wellington, Utah 84542

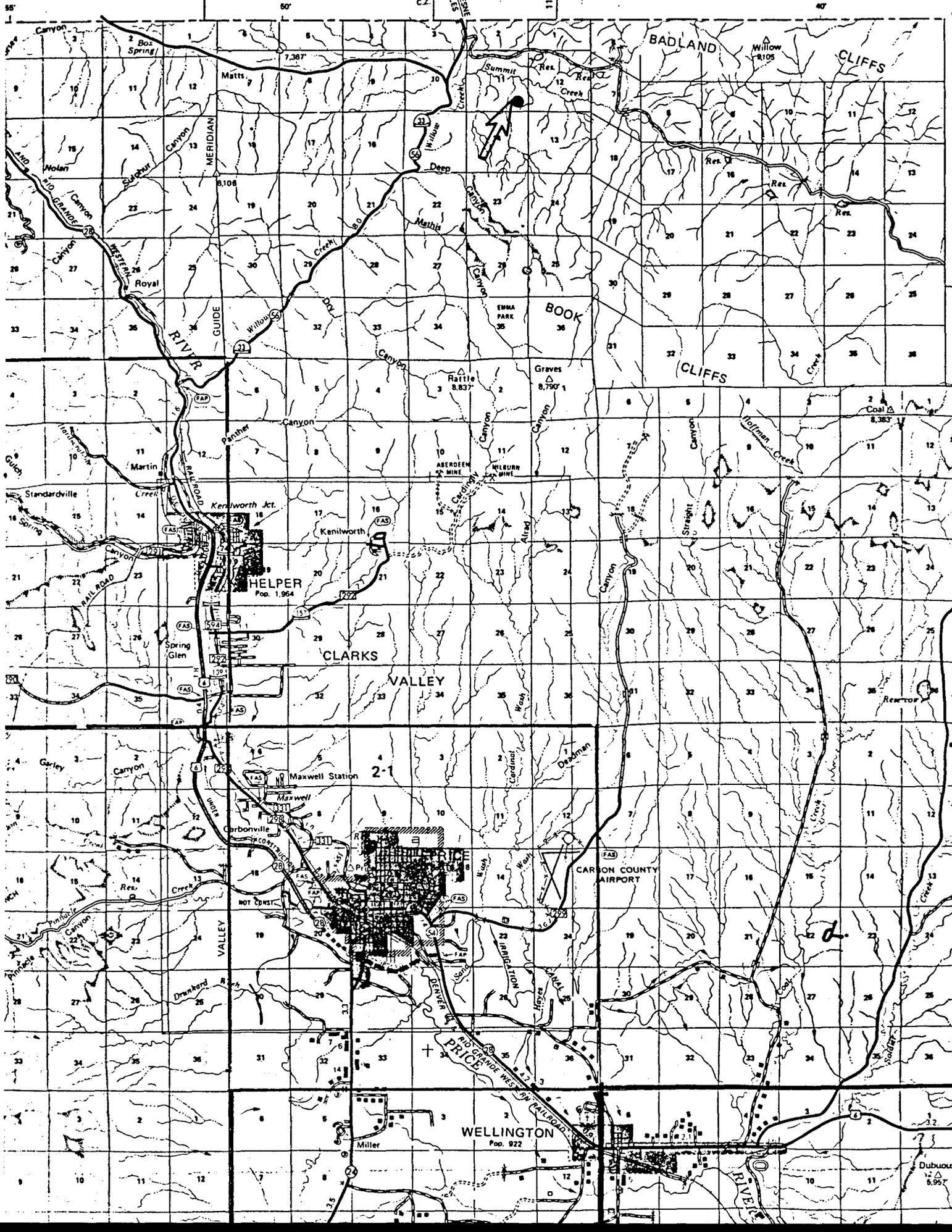
- B. If additional information is required, please contact the following:

Dale Heitzman/Consultant
Heitzman Drill-Site Services
P. O. Box 3579
Casper, Wyoming 82602
Phone: (307) 266-4840 - Office
(307) 265-1558 - Home

R. 9 E.

R. 10 E.

R. 11 E.



T. 12 S.

39° 45'

NO. 1

500,000 C.Z.

SHEET

40'

TO

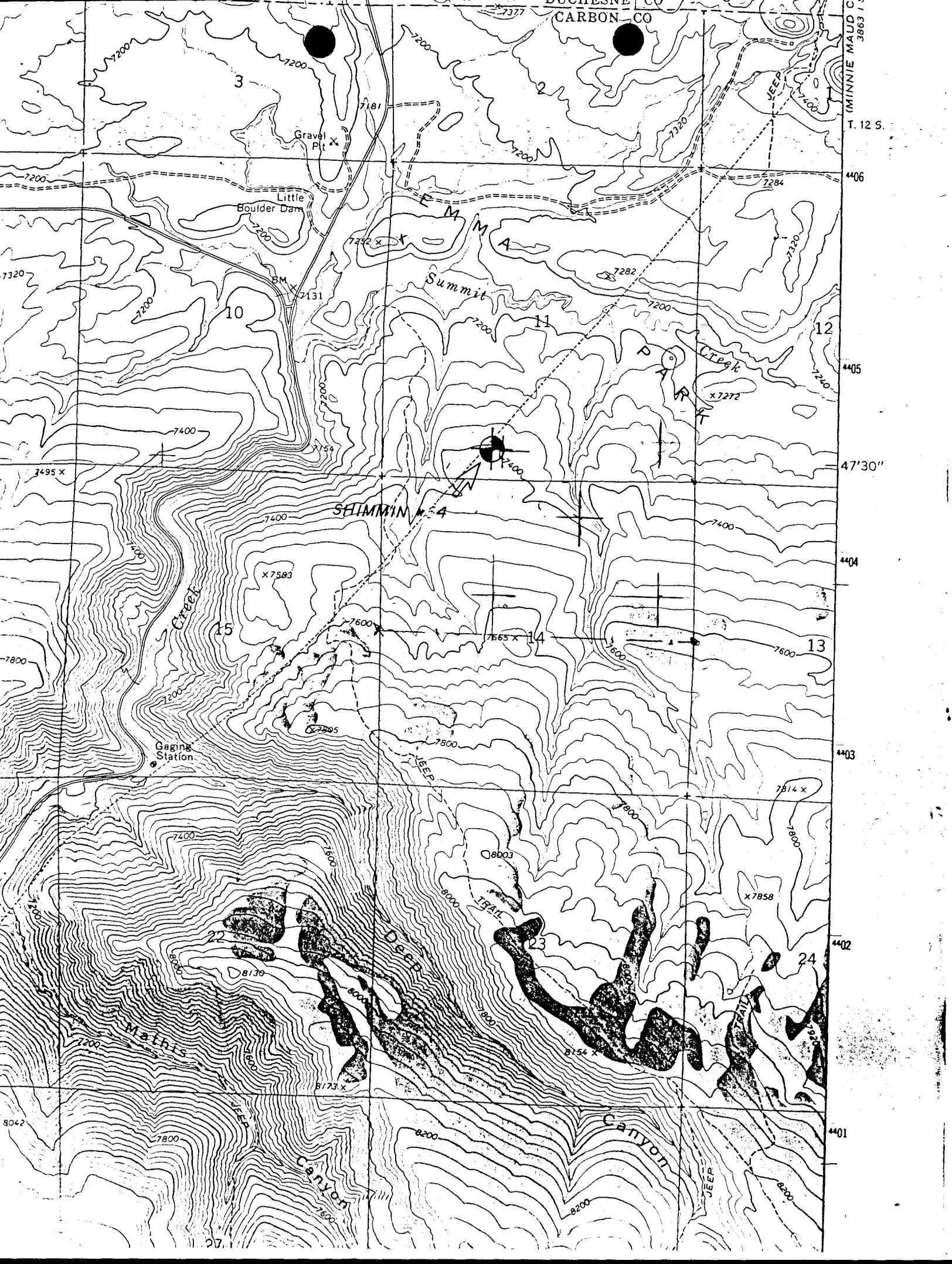
LINE

TO

450,000 C.Z.

T. 14 S.

SHEET



4406

4405

4404

4403

4402

4401

4400

4400

4400

4400

4400

4400

4400

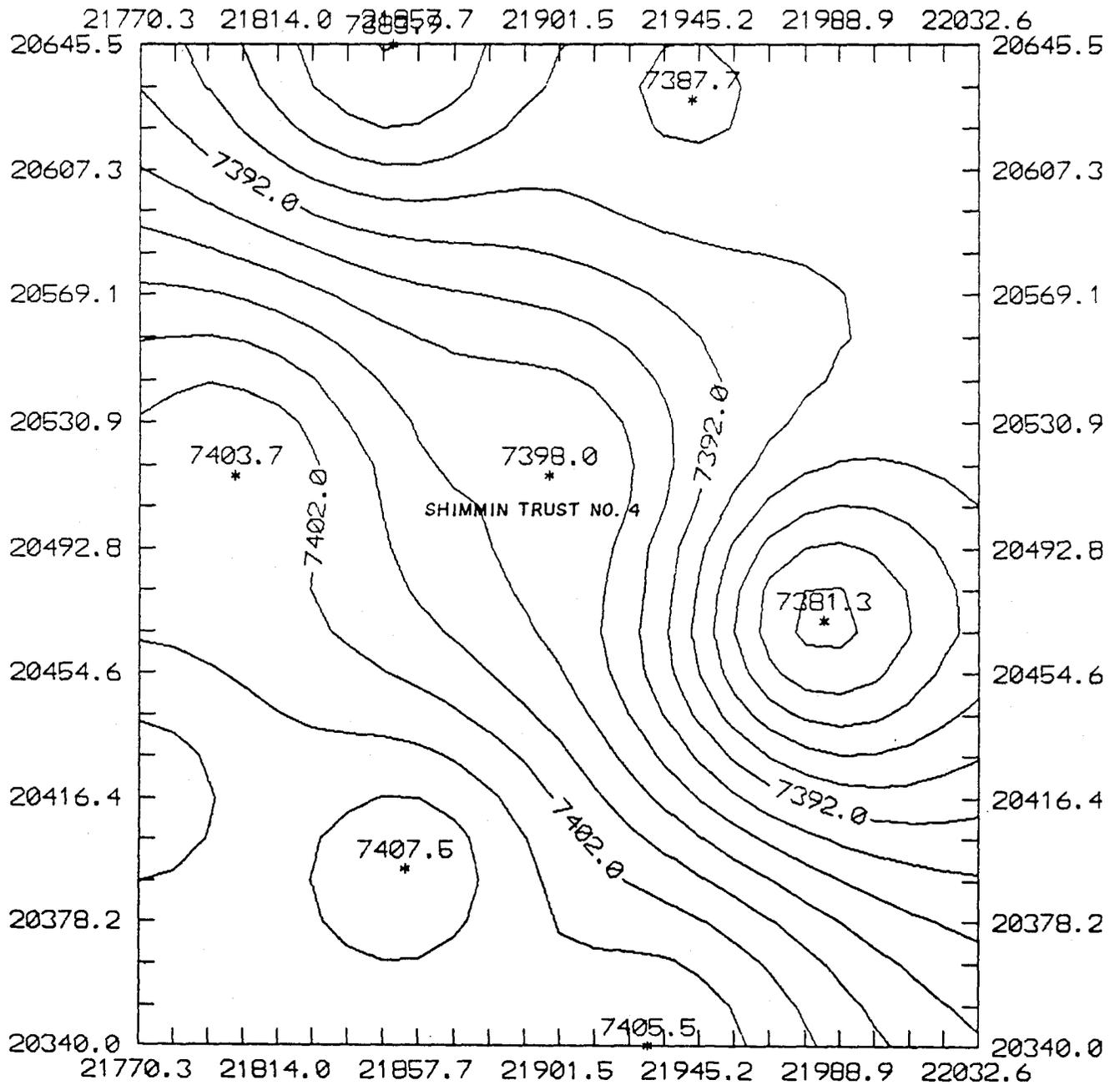
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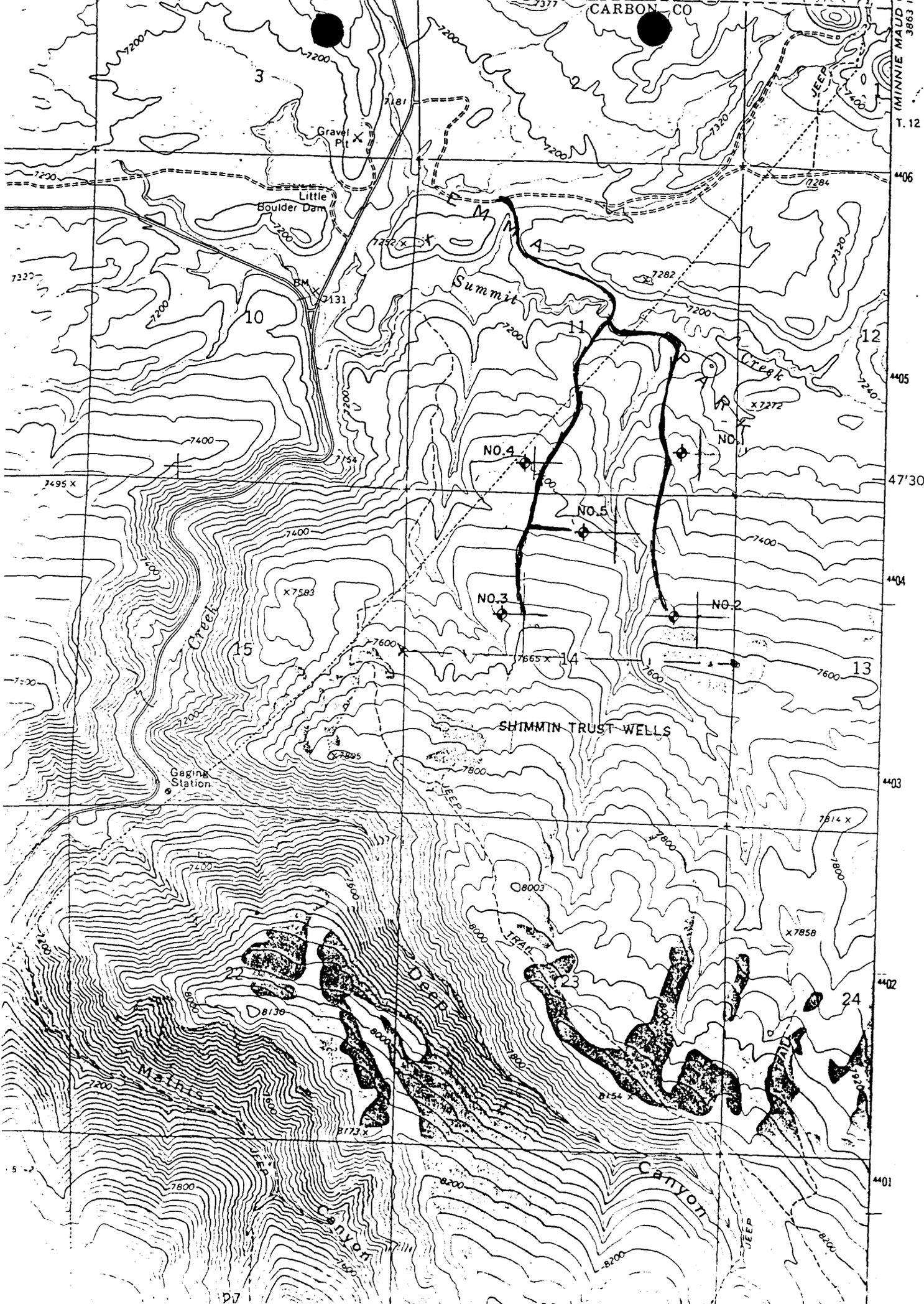
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STATE ACTIONS

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

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)

3. APPROXIMATE DATE PROJECT WILL START:
June 1, 1990

4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments

5. TYPE OF ACTION: Lease Permit License Land Aquisition
 Land Sale Land Exchange Other_____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. DESCRIPTION:
Cockrell Oil Corporation proposes to drill a wildcat well, the Shimmin Trust #4, on a private lease in Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.

8. LAND AFFECTED (site location map required) (indicate county)
SE/4, SW/4, Section 11, Township 12 South, Range 10 East, Carbon County, Utah

9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
No significant impacts are likely to occur

11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:

John Baza
PHONE: 538-5340

12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
DATE: 6-4-90 Petroleum Engineer

MAY 2 5 1990

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: COCKRELL OIL COMPANY WELL NAME: #4 SHIMMAN TRUST
SECTION: 11 TWP: 12S RNG: 10E LOC: 540 FSL 1950 FWL
QTR/QTR SE/SW COUNTY: CARBON FIELD: WILDCAT
SURFACE OWNER: SHIMMAN TRUST
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 5/2/90 11:00

PARTICIPANTS: Art Barker-Surveyor, Jack Bendell-Cockrell, Blain Hemi-Hemi Const., Wayne Nielson-Nielson Const., William Smith-Consulting Engineer, Tony Siaperas-Siaperas Const., Dale Hietzman-Hietzman Consulting, Stan Dudley-Consultant

REGIONAL SETTING/TOPOGRAPHY: West-central Book Cliffs area. The location is on a north facing dip slope of the Flagstaff Limestone Formation. The slope is a fairly flat slope which dips to the north at about 4 degrees.

LAND USE:

CURRENT SURFACE USE: Domestic grazing.

PROPOSED SURFACE DISTURBANCE: A square pad approximately 100'X 100' will be constructed with a 100'X 40' extension for the reserve pit. An access road approximately 1 mile long will be constructed to provide access to the 5 wells in this drilling program. Minor access roads will be constructed to each well site.

AFFECTED FLOODPLAINS AND/OR WETLANDS: The location is about 1/4 mile upslope from Summit Creek. The drilling of this well should have no effect on the creek.

FLORA/FAUNA: Sage, scattered grasses, Rabbit Brush, some cactus/Deer, Elk, Rabbits, Birds

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey-silt with abundant angular cobbles and boulders. Soil formation is thin and mixed with broken and partially weathered limestone.

SURFACE FORMATION & CHARACTERISTICS: Flagstaff Limestone. Interbedded shales and limestones

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation. Locations should be stable.

PALEONTOLOGICAL POTENTIAL: None observed.

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Mesa Verde Coal/3000'-3500'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated.

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Mostly onsite materials. Roadbed gravel will be brought in for surfacing.

SITE RECLAMATION: As per landowner instructions.

RESERVE PIT

CHARACTERISTICS: The reserve pit will be rectangular with dimensions of 10'X 40'X 10'.

LINING: None needed if mud program is followed as outlined in APD.

MUD PROGRAM: 0-300'/fresh water, 300-3700'/air drill if possible, if not, freshwater mud.

DRILLING WATER SUPPLY: Summit Creek

STIPULATIONS FOR APD APPROVAL

Berm should be placed around outside of location.

ATTACHMENTS

Photographs will be placed on file.

June 6, 1990

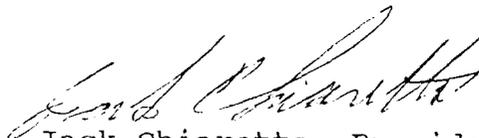
Division of Water Rights
Attn: Mark Page
453 South Carbon Avenue
Price, Utah 84501

Re: Cockrell Oil Company

Dear Mark:

Cockrell Oil Company has leased 10 acre feet of water from the Carbon Canal Company. The water is to be taken from Summit and Willow Creeks, and used in an exploration drilling program. This water will come from the Company's primary water right, No. 91-366. Cockrell will file the necessary paper work with your Division, and pay all the necessary fees.

Sincerely,


Jack Chiaretta, President
Carbon Canal Company

APPLICATION FOR TEMPORARY CHANGE OF WATER

RECEIVED

Rec. by _____

Fee Paid \$ _____

Receipt # _____

MAY 22 1990

Microfilmed _____

Roll # _____

RECEIVED
JUN 08 1990

STATE OF UTAH

WATER RIGHTS PRICE

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-93 Utah Code Annotated 1953, as amended.

OIL, GAS & MINING

*WATER RIGHT NO. 91 Area _____ *APPLICATION NO. 190 - 91 - 02

Changes are proposed in (check those applicable)

point of diversion. place of use. nature of use. period of use.

1. OWNER INFORMATION

Name: Cockrell Oil Corporation *Interest: _____%

Address: 1600 Smith Road, Suite 4600

City: Houston State: Texas Zip Code: 77002-7348

2. *PRIORITY OF CHANGE: _____ *FILING DATE: _____

*Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: 91-366 Morse Decree, First Class
Certificate #a-229

Prior Approved Temporary Change Applications for this right: _____

***** HERETOFORE *****

4. QUANTITY OF WATER: 7.98 cfs and/or _____ ac-ft.

5. SOURCE: Price River

6. COUNTY: Carbon

7. POINT(S) OF DIVERSION: S. 560 ft. & E. 680 ft. from N $\frac{1}{4}$ Cor. Sec. 1, T14S, R9E, SLB&M/

Description of Diverting Works: Concrete Diversion Dam, Earthen Ditches.

8. POINT(S) OF REDIVERSION

The water has been rediverted from _____ at a point: _____

Description of Diverting Works: _____

9. POINT(S) OF RETURN

The amount of water consumed is 7.98 cfs or _____ ac-ft.

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

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

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

Temporary Change

10. NATURE AND PERIOD OF USE

Irrigation: From March 1 to November 30
Stockwatering: From to
Domestic: From to
Municipal: From to
Mining: From to
Power: From to
Other: From to

11. PURPOSE AND EXTENT OF USE

Irrigation: 12,576.07 acres. Sole supply of 488.10 acres.
Stockwatering (number and kind):
Domestic: Families and/or Persons.
Municipal (name):
Mining: Mining District in the Mine.
Ores mined:
Power: Plant name: Type: Capacity:
Other (describe):

12. PLACE OF USE

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

13. STORAGE

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

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

14. QUANTITY OF WATER: cfs and/or 10.0 ac-ft.
15. SOURCE: Summit Creek and Willow Creek
Balance of the water will be abandoned: , or will be used as heretofore: X
16. COUNTY: Carbon
17. POINT(S) OF DIVERSION: 1) Summit Creek: S. 2500 ft. & E. 2200 ft. from NE Cor. Sec. 11;
2) Willow Creek: N. 330 ft. & W. 320 ft. from SE Cor. Sec. 3;
3) Willow Creek: N. 1900 ft. & W. 1400 ft. from SE Cor. Sec. 10; all T12S, R10E, SLB&M.

Description of Diverting Works: Portable pump to tank truck
COMMON DESCRIPTION: 9.5 miles NE of Helper, Utah Matts Summit Quad

18. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:
Description of Diverting Works:

19. POINT(S) OF RETURN

The amount of water to be consumed is cfs or 10.0 ac-ft.
The amount of water to be returned is cfs or ac-ft.
The water will be returned to the natural stream/source at a point(s):

20. NATURE AND PERIOD OF USE

Irrigation: From ___/___/___ to ___/___/___
Stockwatering: From ___/___/___ to ___/___/___
Domestic: From ___/___/___ to ___/___/___
Municipal: From ___/___/___ to ___/___/___
Mining: From ___/___/___ to ___/___/___
Power: From ___/___/___ to ___/___/___
Other: From 06/01/90 to 05/31/91

21. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons.
Municipal (name): _____
Mining: _____ Mining District at the _____ Mine.
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Gas Well Drilling (5 Wells), Road Construction and Maintenance.

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): SE 1/4 SE 1/4 & SE 1/4 SW 1/4 Section 11;
NW 1/4 NE 1/4, SE 1/4 NW 1/4 & SE 1/4 NE 1/4 Section 14, Township 12 South, Range 10
East, S.L.B.&M.

23. STORAGE

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

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary):
The Applicant is filing for temporary use for the drilling of five (5) gas wells. The earthen holding dam will be designed to allow the free flow of water through Summit Creek or Willow Creek.

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

Dale Heitzman
Signature of Applicant(s)
Dale Heitzman/Consultant for
Cockrell Oil Corporation

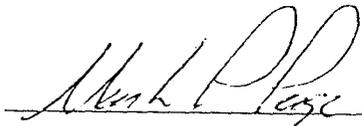
STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t90-91-02

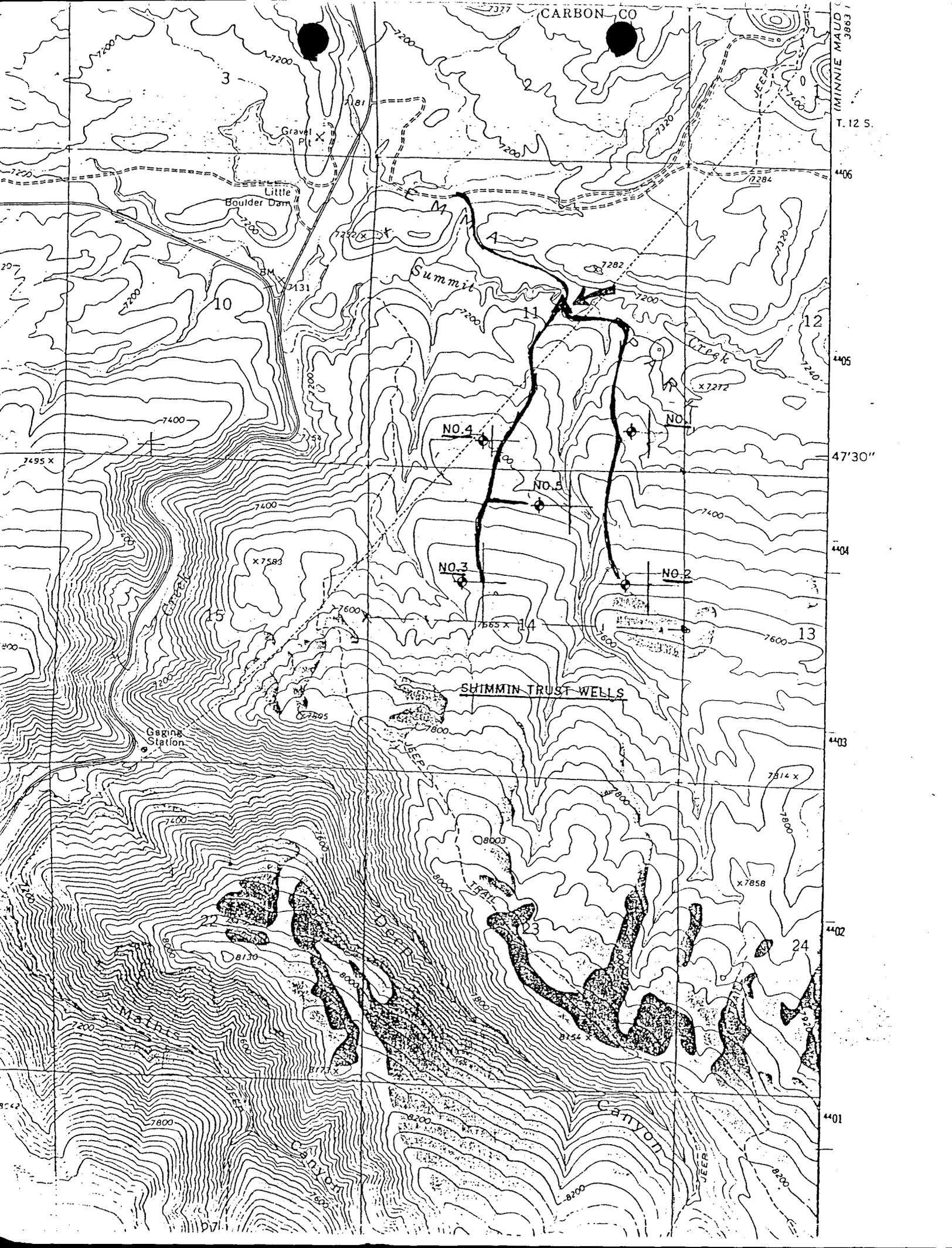
1. May 22, 1990 Change Application received by MP.
2. June 6, 1990 Application designated for APPROVAL by MP.
3. Comments:

Conditions:

This application is hereby APPROVED, dated June 6, 1990, subject to prior rights and this application will expire on May 31, 1991.



Mark Page, Area Engineer
for
Robert L. Morgan, State Engineer



NO. 4

NO. 1

NO. 5

NO. 3

NO. 2

SHIMMIN TRUST WELLS

Summit

Little Boulder Dam

Gaging Station

WATER

CANYON

4406

4405

47'30"

4404

4403

4402

4401

3

10

12

15

13

24

8130

8003

7814 x

x7858

8130

8200

8200

8200

T.D. 4726 9/8/90

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Cockrell Oil Co. COMPANY MAN: Bill Elliot
WELL NAME: SHIMMIN TRUST NO 4 API #: 43 007 30123
QTR/QTR: SE SW SECTION: 11 TWP: 12 S. RANGE: 10 E.
CONTRACTOR: — PUSHER/DRLR: —
INSPECTOR: MICHAEL LAINE DATE: 8/22/90 OPERATIONS: SURFACE CASING SET - ONLY
SPUD DATE: — TOTAL DEPTH: 300 FT.

DRILLING AND COMPLETIONS

APD WELL SIGN BOPE RESERVE PIT
 FLARE PIT BURN PIT H2S BLOOIE LINE
 SANITATION HOUSEKEEPING VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): —

PLUGS:	TYPE/SIZE	INTERVAL

PERFORATIONS: —

CASING SIZE: — PULLED: YES / NO CUT AT: —

PLUGS TESTED: — HOW: — WOC: —

MARKER: SURFACE: — PLATE: —

RECLAMATION:

CONTOURED: — RIPPED: — REHAB'D: —

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: WELL SPUDDED AND SURFACE CASING SET. WELL HEAD ONLY. WAITING FOR RIG TO MOVE ON - BOP WILL FOLLOW. CLEAN LOCATION - PIT FENCED.

OPERATOR Cockrell Oil Corporation DATE 5-01-90

WELL NAME Shimmin #1

SEC SESW 11 T 10S R 10E COUNTY Carbon

43-007-30103
API NUMBER

fee
TYPE OF LEASE

CHECK OFF:

PLAT

BOND
80,000
(8000038)

NEAREST
WELL

LEASE

FIELD

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well within 900 ft (Sec 11-14)
ROCC/5-01-90/process
Per site / Geology review
Needs water permit water permit 90-91-02 (91-ano)

APPROVAL LETTER:

SPACING: R615-2-3 N/A R515-3-2
UNIT
 N/A R615-3-3
CAUSE NO. & DATE

STIPULATIONS:

water permit
no fee stipulation



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

June 13, 1990

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

Gentlemen:

Re: Shimmin Trust 4 - SE SW Sec. 11, T. 12S, R. 10E - Carbon County, Utah
540' FSL, 1950' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Cockrell Oil Corporation, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
Cockrell Oil Corporation
Shimmin Trust 4
June 13, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-007-30123.

Sincerely,



R. J. Flinn
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
WE14/1-10

W. R. SMITH - CONSULTING ENGINEER

6920 S. Prince Way • Littleton, CO. 80120

303-795-0440

JUN 18 1990

June 12, 1990

GLH

DIVISION OF
OIL, GAS & MINING
Mr. Ron Firth, Director
Oil and Gas Division
Utah Board of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Application of Cockrell Oil Corporation for produced water pits. Shimmins Trust Lease located in Sections 11 and 14, Township 12 South, Range 10 East of the Salt Lake Principal Meridian in Carbon County.

Dear Ron:

Cockrell Oil Corporation has submitted applications to drill five wells to produce gas from the Mesaverde coal beds in the Book Cliffs area just north of Helper and Price. The specific well locations are as follows:

Shimmins Trust #1 SE 1/4, SE 1/4 Section 11, T. 12 S., R. 10 E.
Shimmins Trust #2 SE 1/4, NE 1/4 Section 14, T. 12 S., R. 10 E.
Shimmins Trust #3 SE 1/4, NW 1/4 Section 14, T. 12 S., R. 10 E.
Shimmins Trust #4 SE 1/4, SW 1/4 Section 11, T. 12 S., R. 10 E. 43-007-30/23
Shimmins Trust #5 NW 1/4, NE 1/4 Section 14, T. 12 S., R. 10 E.

The following information is submitted in accord with the Oil and Gas Conservation-General Rules:

R615-9-5

- 1.1 Attached, as Exhibit A, is a topographic map showing the location of the wells, drainage in the area and contour intervals.
- 1.2 The maximum daily quantity of water to be discharged is not known at this time; however, we anticipate a daily average discharge from each well to be approximately 500 barrels per day. Although analysis of the water will not be available until production commences, we are aware of water produced from the same zone in a nearby exploration well drilled some time ago by Wexpro and the Department of Energy. A copy of that analysis is attached as Exhibit D. The total dissolved solids of that water was 530 parts per million. We anticipate the water to be produced from the Shimmins Trust wells to be fresh and of the same concentration as this exploratory well.
- 1.3 The National Weather Service office in Salt Lake City advises that the average precipitation at Price is 7.7 inches per year. The Utah Water Resources Division advises that based on reservoir measurements nearby, the average rate of evaporation is 44 inches per year.

R615-9-5 (Cont.)

- 1.4 Based on the anticipated amount of total dissolved solids, Cockrell does not anticipate a significant buildup. In the event such a build up should occur, the solids would be disposed of in accord with the Utah regulations relating to such matters.
- 1.5 The wells are gas wells and no production of liquid hydrocarbons is anticipated.
- 1.6 Attached as Exhibit B is a sketch of the proposed water pit to be used for each well or combination of wells in the event that water production is less than anticipated.
- 1.7 Due to the fine quality of this water, estimated to contain 500 to 600 ppm of total dissolved solids, Cockrell is requesting permission to complete the pits without liners. This request is in accord with rule R615-9-4 section 3. which states, "Application for disposal of produced water into an unlined pit will be considered if such disposal does not demonstrate significant pollution potential to surface or ground water and meets one of the following criteria:"
The proposed disposal meets criteria 3.1 since it is significantly below the 5,000 mg/l of total dissolved solids "TDS" and contains none of the objectionable constituents mentioned; and, 3.2 since all of the water will be available for livestock or wildlife watering.
Note: Cockrell has taken and analyzed samples of waters from the nearby Willow and Surface Creeks. Willow Creek has total dissolved solids of 559 ppm and Surface Creek has total dissolved of 715 ppm. Both have concentrations in excess of our anticipated produced water. Copies of these analysis are attached for your information as Exhibit C-1 and C-2.
- 1.8 As noted in Exhibit B, the provisions of this section are met.
- 1.9 The provisions of this section will be met at the appropriate time.

I hope that the above information meets the requirements of your office and you will be able to issue unlined water production pit permits to Cockrell for the operation of their Shimmins Trust wells. If you have any questions or need additional information please contact me.

Yours very truly,

William R. Smith
William R. Smith, P.E.

cc: Mr. Feldor Hollenshead
Cockrell Oil Corporation
1600 Smith-Suite 4600
Houston, Texas 77002-7348

OIL AND GAS	
DRN	RJF
JPB	GLH
DTS	SLS
<i>2-584</i>	
<i>V. DNE</i>	
<i>4-</i>	MICROFILM
<i>5-</i>	FILE

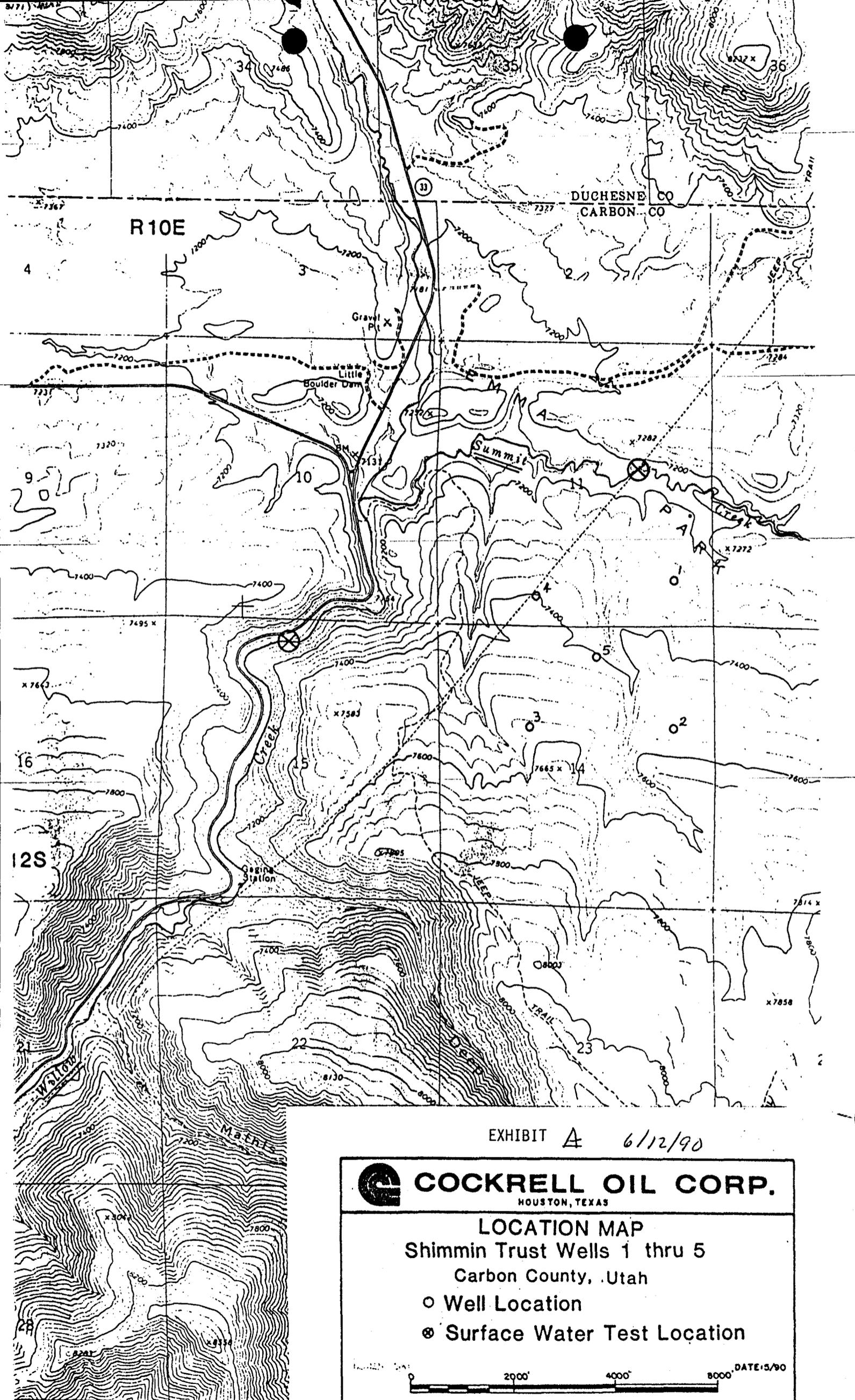


EXHIBIT A 6/12/90

	COCKRELL OIL CORP. HOUSTON, TEXAS
	LOCATION MAP Shimmin Trust Wells 1 thru 5 Carbon County, Utah ○ Well Location ⊗ Surface Water Test Location
	
DATE 5/90	

17 47'30"

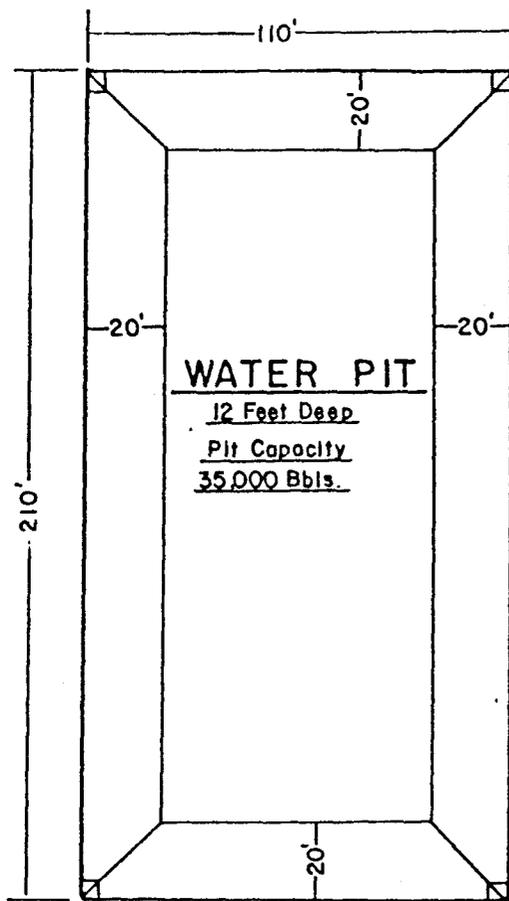
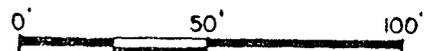


EXHIBIT B 6/12/90



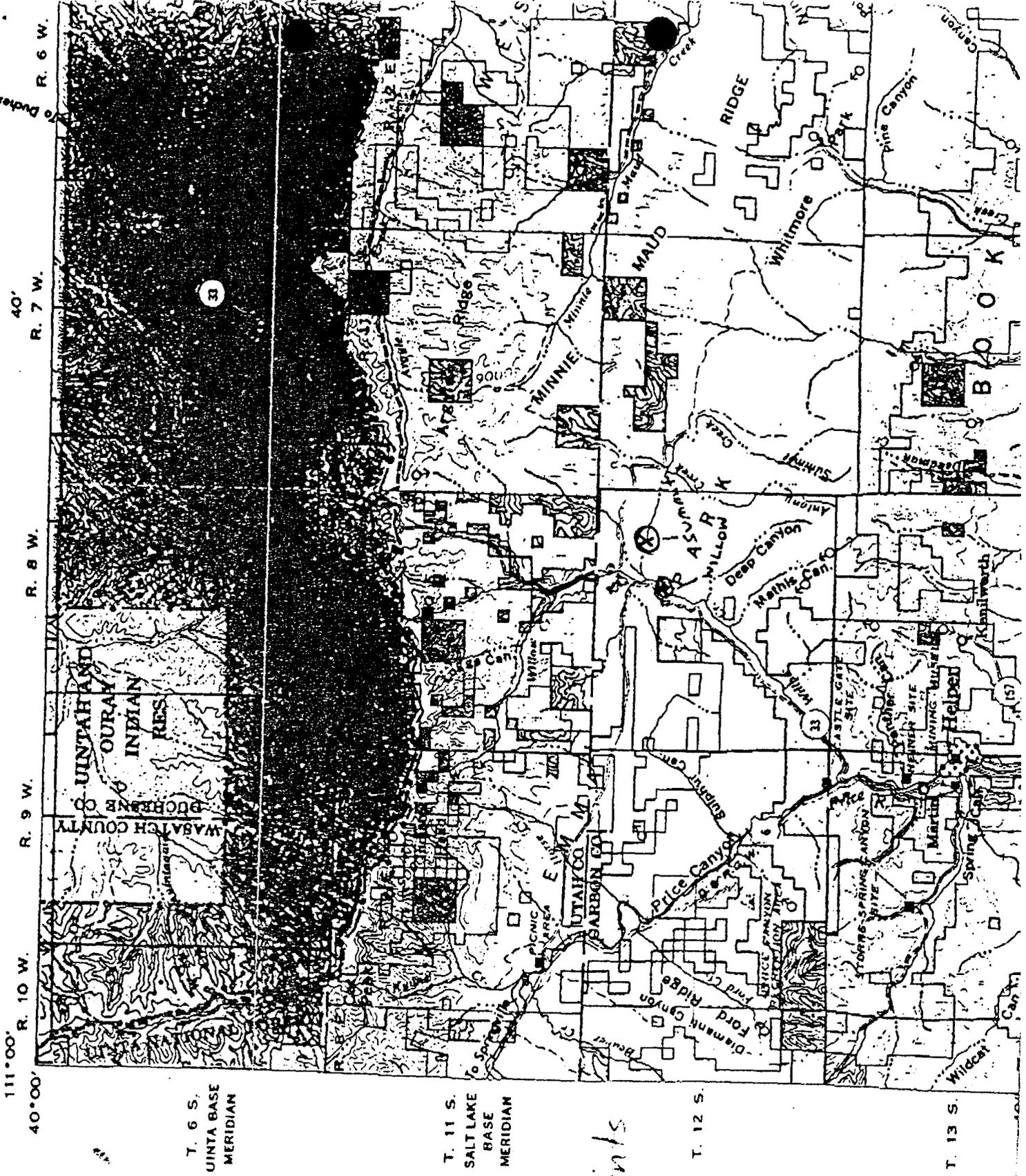
COCKRELL OIL CORP.
HOUSTON, TEXAS

Wellsite Water Discharge Pit



6/12/90

Scale 1/4" = 1 mile



T. 6 S.
UINTA BASE
MERIDIAN

T. 11 S.
SALT LAKE
BASE
MERIDIAN

T. 12 S.

T. 13 S.

⊗ Sample Points

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (312) 953-9300



SINCE 1906

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84420
TELEPHONE: (801) 653-2311

June 6, 1990

Job No.: 59 10420
Date Rec'd: May 31, 1990
Date Sampled: May 31, 1990
Sampled By: COMMERCIAL TESTING & ENG. CO.

Sample ID: COCKRELL OIL CORP.
SUMMIT CREEK ONE MILE EAST OF
CONFLUENCE
Rec'd 0800 hr.
Sampled 0800 hr.

COCKRELL OIL CORPORATION
1600 SMITH
SUITE 4600
HOUSTON TX 77002

WATER ANALYSIS

Alk., Bicarbonate 06-04-90	418	mg/l HCO ₃	Hardness, Total	467	mg/l CaCO ₃
Alk., Carbonate 06-06-90	6	mg/l CaCO ₃	Magnesium 06-01-90	65.00	mg/l
Alk., Total 06-06-90	349	mg/l CaCO ₃	Nitrogen, Nitrate 06-04-90	0.14	mg/l
Anions, Total	14.65	meq/l	pH 05-31-90	8.30	Units
Calcium 06-01-90	79.7	mg/l	Potassium 06-01-90	5.80	mg/l
Cations, Total	14.38	meq/l	Sodium 06-01-90	114.30	mg/l
Chloride 06-04-90	55.0	mg/l	Solids, Dissolved 06-05-90	715.0	mg/l
Conductivity 05-31-90	1250	umhos/cm	Sulfate 06-04-90	300.0	mg/l

ANALYST: D. Lyson

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Handwritten signature
Manager, Huntington Laboratory

Original Copy Watermarked
For Your Protection

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (312) 953-9300

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TELEPHONE: (801) 955-2811

June 6, 1990

Job No.: 59 10421

Sample ID: COCKRELL OIL CORP.

Date Rec'd: May 31, 1990

WILLOW CREEK 1/2 MILE DOWNSTREAM FROM
CONFLUENCE

Date Sampled: May 31, 1990

Rec'd 0830 hr.
Sampled 0830 hr.

Sampled By: COMMERCIAL TESTING & ENG. CO.

COCKRELL OIL CORPORATION
1600 SMITH
SUITE 4600
HOUSTON TX 77002

WATER ANALYSIS

Alk., Bicarbonate 06-04-90	424	mg/l HCO ₃	Hardness, Total	386	mg/l CaCO ₃
Alk., Carbonate 06-04-90	8	mg/l CaCO ₃	Magnesium 06-01-90	44.80	mg/l
Alk., Total 06-04-90	356	mg/l CaCO ₃	Nitrogen, Nitrate 06-04-90	0.12	mg/l
Anions, Total	10.93	meq/l	pH 05-31-90	8.40	Units
Calcium 06-01-90	80.9	mg/l	Potassium 06-01-90	1.39	mg/l
Cations, Total	11.05	meq/l	Sodium 06-01-90	76.60	mg/l
Chloride 06-04-90	30.0	mg/l	Solids, Dissolved 06-05-90	559.0	mg/l
Conductivity 05-31-90	900	umhos/cm	Sulfate 06-04-90	150.0	mg/l

ANALYST: D. Lyon

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

El C
Manager, Huntington Laboratory

TABLE 25

WHITMORE PARK #1 - WATER SAMPLES

	<u>pH</u>	<u>TDS</u>	<u>TSS</u>	<u>Na</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>	<u>Fe</u>	<u>Co₃⁼</u>	<u>C⁻</u>
Whitmore Park Well No. 1 (10-29-79)										
760' Aquifer	8.9	542	7	112	1.62	1.32	17.6	0.29	436	20
Unloading @ 2500'	8.0	521	33	72.5	13.4	73.6	44.7	10.7	629	30
Base of Gilson	7.5	531	90	74.6	14.5	75.6	45.4	6.2	657	30
Whitmore Park Well No. 2 (9-15-80)										
Prestimulation production	7.7	230	83	350	20	200	150	11	673	26
Whitmore Unit No. 1 Well (8-12-82)										
Poststimulation production	7.9	3580								600

-4.33-

Cockrell Oil Corporation
Exhibit D
6/12/90



State of Utah

Division of State History
(Utah State Historical Society)
Department of Community and Economic Development

*Case
Well file*

Norman H. Bangerter
Governor
Max J. Evans
Director

300 Rio Grande
Salt Lake City, Utah 84101-1182
801-533-5755

June 26, 1990

Ms. Carolyn Wright
Resource Development Coordinating Committee
State Planning Office
116 State Capitol

BUILDING MAIL

RE: Application for Permit to Drill, Shimmin Trust #4 - UT900606-070

In Reply Please Refer to Case No. 90-0768

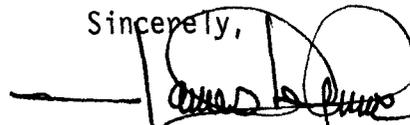
Dear Ms. Wright:

The Utah State Historic Preservation Office has reviewed our cultural resource files for the above requested project area. No prehistoric or historic sites have been recorded within the project area because no cultural resource surveys have been conducted. However, such sites may well exist in the project area.

A survey of the area will likely lead to the identification of more resources, some of which may be eligible for the National Register of Historic Places. It is your responsibility, based on this assessment, to determine the need for further actions, such as field surveys or predictive models to identify historic properties. If you choose to do this, we will be glad to comment on your evaluation of historic properties against the National Register criteria (36 CFR 60.4) should any sites be found. We will also assist in applying the criteria of effect as outlined in 36 CFR 800.5.

This information is provided on request to assist the Division of Oil, Gas and Mining with its state law responsibilities as specified in U.A.C. 63-18-37. If you have questions or need additional assistance, please contact me at (801) 533-7039.

Sincerely,



James L. Dykman
Regulation Assistance Coordinator

JLD:90-0768 OR



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

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

July 2, 1990

Mr. Feldor Hollenshead
Cockrell Oil Corporation
Drilling and Production Department
1600 Smith, Suite 4600
Houston, Texas 77002-7348

Dear Mr. Hollenshead:

Re: Approval to Construct Produced Water Disposal Pits, Sections 11 and 14, Township 12 South, Range 10 East, Carbon County, Utah

The application of Cockrell Oil Company for disposal of produced water into unlined pits has been reviewed and considered by the Division staff. The application requests approval for disposal pits at the following well sites:

Township 12 South, Range 10 East

- Shimmins Trust #1 SE 1/4, SE 1/4, Section 11
- Shimmins Trust #2 SE 1/4, NE 1/4, Section 14
- Shimmins Trust #3 SE 1/4, NW 1/4, Section 14
- Shimmins Trust #4 SE 1/4, SW 1/4, Section 11
- Shimmins Trust #5 NW 1/4, NE 1/4, Section 14

43-007-30123

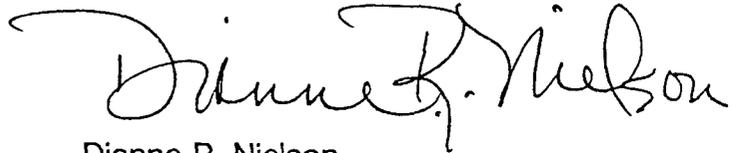
In accordance with Rule R615-9-5-4, Oil and Gas Conservation General Rules, approval is hereby granted to construct the produced water disposal pits as outlined in the application subject to the following requirements:

In accordance with Rule R615-9-5-3.2, a representative water analysis of the produced water is required prior to disposal of produced water into any pit. The Division staff will review the water analysis report and if appropriate, advise the operator of authorization to dispose of the produced water and the frequency of future water analysis requirements.

Page 2
Mr. Feldor Hollenshead
July 2, 1990

If you have any questions or would like to discuss this approval, please call Brad Hill or Gil Hunt at this office.

Best regards,

A handwritten signature in cursive script that reads "Dianne R. Nielson". The signature is fluid and connected, with a large initial 'D' and 'N'.

Dianne R. Nielson
Director

BGH/lde
cc: R.J. Firth
Gil Hunt
WOI163

DIVISION OF OIL, GAS AND MINING

API NO. 43-007-30123

SPUDDING INFORMATION

NAME OF COMPANY: Cockrell Oil Corporation

WELL NAME: Shimmin Trust #4

SECTION SESW 11 TOWNSHIP 12S RANGE 10E COUNTY Carbon

DRILLING CONTRACTOR Leon Ross

RIG # 6

SPUDDED: DATE 7/17/90

TIME 11:30 a.m.

HOW Dry Hole

DRILLING WILL COMMENCE Exeter #7

REPORTED BY Bill Elliott

TELEPHONE # 637-8880

OIL AND GAS	
DFN	RJF
JPB	GIH
LVS	SLS
TAS	
2 -	MICROFILM ✓
3 -	FILE

DATE 7/17/90 SIGNED TAS



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

Norman H. Bangerter
Governor
Suzanne Dandoy, M.D., M.P.H.
Executive Director
Kenneth L. Alkema
Director

288 North 1460 West
P O. Box 16690
Salt Lake City, Utah 84116-0690
(801) 538-6121

August 8, 1990

RECEIVED
AUG 09 1990

DIVISION OF
OIL, GAS & MINING

Mr. William R. Smith, P.E.
6920 South Prince Way
Littleton, CO 80120

Re: Cockrell Oil Corporation's Coal-Bed
Methane Project Shimmins Trust Lease

Dear Mr. Smith:

I received on July 20, 1990 information submitted as part of the UPDES application for your proposal on construction of sediment ponds for treatment of water produced in the referenced coal-bed methane recovery project.

Based upon review of water pollution control regulations and discussions with Mr. Gil Hunt of the Division of Oil, Gas and Mining (DOGM), I have determined that the project falls within DOGM regulations governing produced water, a ground water discharge construction permit will not be required. Adequate freeboard and a method for separation of oil and grease from discharge water at the pond outlets is recommended to be provided. The notification on the UPDES application is expected by the middle of the month.

If you have any questions, please contact me at (801) 637-3671.

Sincerely,

for David R. Ariotti

David R. Ariotti, P.E.
Southeast District Engineer
Utah Division of Environmental Health

DRA:rvg

cc: Kiran Bhayani, Water Pollution Control
Larry Mize, Water Pollution Control
Steve McNeal, Water Pollution Control
Gil Hunt, Division of Oil, Gas and Mining

N:cockrell.ltr

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		3. LEASE DESIGNATION & SERIAL NO. 11096
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Coalbed Methane		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Cockrell Oil Corporation		8. FARM OR LEASE NAME Shimmin Trust
3. ADDRESS OF OPERATOR 1600 Smith, Suite 4600, Houston, Tx 77002		9. WELL NO. 4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1900' FSL, 540' FEL At proposed prod. zone 1950'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA SESW 51 ¹¹ , T12S, R10E
12. COUNTY Carbon	13. STATE UT	
14. API NO. 43-007-30123 DRL	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Report</u>	
(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.

Spudded well on 7/17/90. Drld and surveyed to 640' on 7/21/90. Moved out Ross Rig #6. Moved in Well Service unit on 7/21/90. Ran 8-5/8" WC-50 23# ST&C csg. Set @ 627'. Cemented same. Two week delay waiting on drilling rig. MI & RU Grace Drilling Rig #179 on 8/28/90. WO repair of drawworks shaft as of 8/31/90. Now drlg ahead @ 2110'.

OIL AND GAS	
OPN	RJF
JFB	GIH
ITS	SLS
1-DIRECT	
2 MICROFILM <input checked="" type="checkbox"/>	

18. I hereby certify that the foregoing is true and correct
 SIGNED Betty Phay for BE Weichman Geologist DATE 9/5/90
(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

RECEIVED
NOV 16 1990

5. LEASE DESIGNATION & SERIAL NO.

11096

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

OIL, GAS & 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.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Coalbed Methane Test Well		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Cockrell Oil Corporation		8. FARM OR LEASE NAME Shimmin Trust	
3. ADDRESS OF OPERATOR 1600 Smith Street, Suite 4600, Houston, Texas 77002		9. WELL NO. 4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1900' FSL, 540' FSL At proposed prod. zone 1950 FWL FSL		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. API NO. 43-007-30123 DRL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SESW S14-T12S-R10E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4630' GR		12. COUNTY Carbon	13. STATE Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Monthly Report <input type="checkbox"/>	

(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.

Perf'd 4475'-85' w/6 SPF on 10/10/90. Frac'd perf'd zone on 10/11/90. Swabbed hole clean. Set retrievable Bridge Plug at 4460'. Perf'd 4385'-87' w/4 SPF, 4408'-13' w/4 SPF, 4418'-20' w/4 SPF and 4426'-31' w/4 SPF on 10/16/90. Frac'd perf'd zone on 10/18/90. Retrieved Howco Bridge Plug. Swabbed hole clean. Set retrievable Bridge Plug at 4350'. Perf'd 4225'-28' w/4 SPF, 4244'-49' w/4 SPF, 4275'-85' w/4 SPF, 4296'-98' w/2 SPF and 4307'-09' w/2 SPF on 10/31/90. Frac'd perf'd zone on 11/1/90. Swabbed hole clean. Now waiting on pumping unit.

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

SIGNED [Signature] TITLE Geologist DATE 11/12/90

(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

RECEIVED
DEC 14 1990

5. LEASE DESIGNATION & SERIAL NO. 1096

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

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 Coalbed Methane Test Well

2. NAME OF OPERATOR Cockrell Oil Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1900' ESL, 540' EEL
At proposed prod. zone 1950 FWL FSL

7. UNIT AGREEMENT NAME DIVISION OF OIL, GAS & MINING

8. FARM OR LEASE NAME Shimmin Trust

9. WELL NO. 4

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA SESW S4-T12S-R10E

12. COUNTY Carbon 13. STATE Utah

14. API NO. 43-007-30123 DRV

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4630' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Report</u>	
(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.

Frac'd interval 4225'-4309' on 11/1/90 w/30,000 lbs 40/70 sand and 50,000 lb 20/40 sand. Swab test. Installed pumping unit. Well pumping.

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

SIGNED B. E. Weichman TITLE Geologist DATE 12-5-90

(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

5. LEASE DESIGNATION AND SERIAL NO.

11096

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1A. TYPE OF WELL: OIL WELL GAS WELL DRY Other Coalbed Methane

7. UNIT AGREEMENT NAME

1. TYPE OF COMPLETION:

NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

8. FARM OR LEASE NAME

2. NAME OF OPERATOR

Cockrell Oil Corporation

Shimmin Trust

3. ADDRESS OF OPERATOR

1600 Smith Street, Suite 4600, Houston, TX 77002

9. WELL NO.

4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface ^{1900'} FSL, 540' FEL

At top prod. interval reported below

At total depth

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SESW S14 - T12S - R10E

14. API NO. 43-007-30123 DATE ISSUED 6-13-90

12. COUNTY Carbon 13. STATE UT

15. DATE SPUNDED 7/17/90 16. DATE T.D. REACHED 9/12/90 17. DATE COMPL. (Ready to prod. or Plug & Abd.) *

18. ELEVATIONS (DP, RES. RT, CR, ETC.) 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4630' 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY 23. INTERVALS DRILLED BY 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 HRSD - DIGL - SDDSN - MICRO 27. WAS WELL CORED YES NO (Submit analysis) DRILL STEM TEST YES NO (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	627'	12-1/4"	450 sx Prem +	95 Bbls
5-1/2"	17#	4630'	7-7/8"	1st Stage: 320 sx 50/50 Poz	67 Bbls
				2nd Stage: 310 sx Silica Lite	246 Bbls

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or Shut-in)

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 [Signature] TITLE Geologist DATE 10/10/90

See Spaces for Additional Data on Reverse Side

*Well not yet completed for production

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on 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) 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:		38. GEOLOGIC MARKERS					
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.		Top	Bottom	Description, contents, etc.	Name	Top	
Formation	Top					Bottom	Meas. Depth
Castlegate	3286'	3582'	3286'	Sandstone & shale Sands are tight. ± 10% porosity	Flagstaff North Horn Price River Castlegate Blackhawk	Surface 200' 2860' 3286' 3582'	200' 2860' 3286' 3582' TD

M

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
11096

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY **Coalbed Methane**
 1b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RECVR. Other _____
 JAN 15 1991

2. NAME OF OPERATOR
Cockrell Oil Corporation

3. ADDRESS OF OPERATOR
1600 Smith Street, Suite 4600, Houston, TX 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface **+900'** FWL, 540' FSL
 At top prod. interval reported below **1950'**
 At total depth _____

6. UNIT AGREEMENT NAME

7. FARM OR LEASE NAME
Shimmin Trust

8. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA
SESW S14 - T12S - R10E

14. API NO. **43-007-30123** DATE ISSUED **6-13-90** 12. COUNTY **Carbon** 13. STATE **UT**

15. DATE SPUNDED **7/17/90** 16. DATE T.D. REACHED **9/12/90** 17. DATE COMPL. (Ready to prod.) **11/26/90** (Plug & Abd.) 18. ELEVATIONS (DF, RES. RT, CR, ETC.) 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **4630'** 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) **See Attached Sheet** 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS **Acoustic EBL**
HRSD - DIGL - SDDSN - MICRO 4-12-91 27. WAS WELL CORED YES NO (Submit analysis) DRILL STEM TEST YES NO (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	627'	12-1/4"	450 sx Prem +	95 Bbls
5-1/2"	17#	4630'	7-7/8"	1st Stage: 320 sx 50/50 Poz	67 Bbls
				2nd Stage: 310 sx Silica Lite	246 Bbls

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) **See Attached Sheet**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHED SHEET	

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flooding, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
11/26/90	Pumping 2 1/2" Tubing Pump	Producing Water					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/26/90	18	Open	→	-0-	-0-	257	-0-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-0-	-0-	→	-0-	-0-	343		

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 **B. E. Weichman** TITLE **Geologist** DATE **1/10/91**

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on 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) 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:		38. GEOLOGIC MARKERS																					
Formation	Top	Bottom	Description, contents, etc.																				
Castlegate	3286'	3582'	Sandstone & shale Sands are tight. ± 10% porosity																				
			<table border="1"> <thead> <tr> <th rowspan="2">Name</th> <th colspan="2">Top</th> </tr> <tr> <th>Meas. Depth</th> <th>True Vert. Depth</th> </tr> </thead> <tbody> <tr> <td>Flagstaff</td> <td>Surface</td> <td>200'</td> </tr> <tr> <td>North Horn</td> <td>200'</td> <td>2860'</td> </tr> <tr> <td>Price River</td> <td>2860'</td> <td>3286'</td> </tr> <tr> <td>Castlegate</td> <td>3286'</td> <td>3582'</td> </tr> <tr> <td>Blackhawk</td> <td>3582'</td> <td>TD</td> </tr> </tbody> </table>	Name	Top		Meas. Depth	True Vert. Depth	Flagstaff	Surface	200'	North Horn	200'	2860'	Price River	2860'	3286'	Castlegate	3286'	3582'	Blackhawk	3582'	TD
Name	Top																						
	Meas. Depth	True Vert. Depth																					
Flagstaff	Surface	200'																					
North Horn	200'	2860'																					
Price River	2860'	3286'																					
Castlegate	3286'	3582'																					
Blackhawk	3582'	TD																					

RECEIVED
JAN 15 1991

DEPARTMENT OF
CULTURE & MINING

11

SHIMMIN TRUST #4
PERFORATION RECORD

4225'-28'	4 SPF	Treated w/30,000# 40/70 sand and 50,000# 20/40 sand
4244'-49'	"	"
4275'-85'	"	"
4296'-98'	2 SPF	"
4307'-09'	4 SPF	"
4385'-87'	4 SPF	Treated w/15,000# 40/70 sand and 16,500# 20/40 sand
4408'-13'	"	"
4418'-20'	"	"
4426'-31'	"	"
4475'-85'	6 SPF	Treated w/17,800# 20/400 sand



COCKRELL OIL
CORPORATION

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

CERTIFIED MAIL

April 9, 1991

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

RECEIVED

APR 12 1991

Re: Shimmin Trust Well No. 4
Carbon County, Utah

DIVISION OF
OIL GAS & MINING

Attention: Vicki Carney

Gentlemen:

Enclosed for your records are the following logs as required by the Department of Natural Resources. The Completion Report has already been filed. I am requesting that these logs remain in the "confidential" status for the maximum amount of time.

Dual Induction Guard Log
Spectral Density Dual Spaced Neutron Log
Acoustic Cement Bond Log
MICRO Log

Thank you for your assistance in this matter.

Yours very truly,

Neil Henley

Neil Henley
Engineer

NH:ys
Enclosures



State of Utah

DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

Norman H. Bangertter
Governor
Suzanne Dandoy, M.D., M.P.H.
Executive Director
Kenneth L. Alkema
Director

288 North 1460 West
P.O. Box 16690
Salt Lake City, Utah 84116-0690
(801) 538-6121

RECEIVED

MAY 28 1991

DIVISION OF
OIL GAS & MINING

May 17, 1991

API Sec. 11, T. 12S, R. 10E

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Ben Weichman
Cockrell Oil Corporation
1600 Smith, Suite 4600
Houston Texas 77002-7348

Shimmin Trust # 3	43-007-30119
" " 1	7-3-30120
" " 2	-30121
" " 5	-30122
" " 4	✓-30123

COPIES SENT TO	
5-29-91	
FRM	
GLH	

RE: Cockrell Oil Corporation
UTG070036

Dear Mr. Weichman:

We have reviewed the information on the coalbed methane pilot wells submitted April 3, 1991. We remain concerned that the continued discharge of more than one (1) ton of salt per day at concentrations averaging more than 5000 mg/L do not reflect the information represented by your Company in the NOI.

We find the salinity study incomplete because there is no recommended action or costs of alternative plans. The discharge of two tons of salt per day exceeds the Colorado River Basin Salinity Control Forum's policy and could during times of surface runoff reach the Colorado River. Furthermore, our Ground Water Protection Section has reviewed the report and are concerned about the local ground water impacts of the well discharges. Seepage of this quality of water from the ponds and into dry washes appears to have potential to cause adverse effects upon ground water quality believed to have a total dissolved solid (TDS) concentration of approximately 600-800 mg/L.

Therefore, in accordance with Part I Section B5c it is determined that the conditions have changed so the discharge no longer qualifies for coverage by the general permit. Cockrell Oil Corporation is hereby required to apply for an individual discharge permit by June 30, 1991 if the discharge is to continue beyond that date. The application must also include additional salinity information specified by the Forum policy such as the recommended plan for reduction of the salt discharge. When an individual permit is issued the general permit coverage for these discharges will be automatically terminated.

In addition to the monthly TDS sampling currently required we request that Cockrell Oil:

Mr. Ben Weichman

Page 2

May 18, 1991

1. Within 7 days submit a plan and begin implementation of reducing the total TDS discharge to less than one ton per day as soon as possible as per the permit section III D. Duty to Mitigate or show cause why the discharges cannot be reduced and that there is no adverse impact.
2. Submit within 30 days a plan and schedule to eliminate the discharge as soon as possible of TDS greater than 720 mg/L from pond seepage and discharges to dry washes. This might include containment, reinjection, reverse osmosis, etc. An alternative might be to pipe the discharge to a stream segment with sufficient flow dilution.
3. Beginning the second quarter of 1991 perform quarterly replacement static acute tests of a representative outfall for Ceriodaphnia sp and fathead minnows in general accordance with procedures set out in the latest revision of Methods of Measuring the Acute Toxicity of Effluent to Freshwater and Marine Organisms. If a sample is found to be acutely toxic (50% or more mortality at any concentration) in a routine test, the whole effluent testing frequency for that discharge shall be weekly as per the enclosed accelerated testing and pattern of toxicity. We also are enclosing the requirements for a Preliminary Toxicity Investigation in the event that becomes necessary.
4. Sample each discharge monthly for total iron and submit the analysis with the TDS data on a monthly basis.
5. Resample discharge 001 for total lead and report the result within 30 days.

If you have any questions regarding the information requested, you should contact Steven McNeal of this office at (801) 538-6146.

Sincerely,

Utah Water Pollution Control Committee



Don A. Ostler, P.E.
Executive Secretary

Enclosure

FCP:SRM:st

cc: Division of Oil, Gas & Mining
Southeastern Utah District Health Department
District Engineer
EPA Region VIII, Water Management

S:WEICHMAN.LTR
FILE:UPDES



State of Utah
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 DIVISION OF WATER QUALITY

Norman H. Bangerter
 Governor
 Kenneth L. Alkema
 Executive Director
 Don A. Ostler, P.E.
 Director

288 North 1460 West
 Salt Lake City, Utah
 (801) 538-6146
 (801) 538-6016 Fax

Reply to: State of Utah
 Division of Water Quality
 Department of Environmental Quality
 Salt Lake City, Utah 84114-4870

September 24, 1991

Mr. Ben Weichman
 Cockrell Oil Corporation
 1600 Smith, Suite 4600
 Houston, Texas 77002-7348

SHIMMIN TRUST #1 43-007-30120
 Sec. 11, T. 12S, R. 10E
 #2 43-007-30121
 Sec. 14, T. 12S, R. 10E
 #3 43-007-30119
 Sec. 14, T. 12S, R. 10E
 #4 43-007-30123
 Sec. 11, T. 12S, R. 10E
 #5 43-007-30122 - Sec. 14
 T. 12S,
 R. 10E

RE: UPDES Permit Application No. UT0025054

Dear Mr. Weichman:

This letter is to express our tentative decision in regard to the Cockrell Oil permit application for the Castlegate coalbed methane project. Although the original discharges were permitted by a general construction permit, the higher than expected total dissolved solids (TDS) has continued to concern us.

The July 16, 1991 sample analysis of 4804 mg/l indicates a concentration which would significantly degrade the receiving stream, particularly at low flow. According to the State's Antidegradation Policy, Utah Administrative Code (UAC) R448-8-2-3 "Waters whose existing quality is better than the established standards for the designated uses will be maintained at high quality unless it is determined by the [Board], after appropriate intergovernmental coordination and public participation in concert with the Utah continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located".

Furthermore, the Colorado River Basin Salinity Control Forum Intercepted Groundwater Policy provides the permitting authority the ability to waive or not to waive the "no salt" discharge requirement. This evaluation is made on a case-by-case basis, and considers the practicality of controlling, reducing or even eliminating the discharge of salt. Since the Company has prepared to drill an injection well, it is our determination that all of the water should be reinjected.

Therefore, we intend to not issue an individual permit and to terminate the general permit after providing you reasonable time to complete the injection well system. Your letter of August 28, 1991 states that the injection well should be completed before the end of 1991. If the disposal system is still scheduled to be completed by that time, we will proceed to public notice our intent to deny the individual permit and terminate the general permit at the end of the year. As an alternative, a less formal approach may be considered if you are in agreement with the above and

Mr. Ben Weichman

Page 2

September 24, 1991

wish to withdraw your individual permit application and inactivate coverage under the general permit at such time as the injection well is installed.

If you need to arrange a meeting to discuss this issue, please contact Steve McNeal of this office at (801) 538-6146.

Sincerely,

Utah Water Quality Board



Don A. Ostler, P.E.

Executive Secretary

DAO:SM:ja

cc: EPA Region VIII, Water Management
Southeastern Utah District Health Department
Division of Oil, Gas and Mining

S:BWEICHMA.LTR

TEMPORARY

RECEIVED

RECEIVED

FILING FOR WATER IN THE STATE OF UTAH

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

NOV 13 1991

OCT 28 1991

OCT 21 1991

DIVISION OF OIL GAS & MINING

APPLICATION TO APPROPRIATE WATER

WATER RIGHTS

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

*WATER RIGHT NO. 91 - 4819

*APPLICATION NO. A T65703

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

2. OWNER INFORMATION

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

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

4. SOURCE: Exploratory Wells *DRAINAGE:

which is tributary to
which is tributary to

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

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

5. POINT(S) OF REDIVERSION

The water will be rediverted from N. 550 ft. & E. 1950 ft. from SW Cor. Sec. 11, T12S, R10E, SLB&M. at a point:

Description of Diverting Works: Portable pump to tank truck

6. POINT(S) OF RETURN

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

7. STORAGE

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

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

Attachment #1

Attachment to
APPLICATION TO APPROPRIATE WATER

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

- Item #4
1. Shimmin Trust #1 located 793 feet from the south line and 780 feet from the east line of Sec. 11, T12S, R10E. Drilled to a depth of 4,667 feet with 5-1/2" casing set to total depth. 43-007-30110
 2. Shimmin Trust #2 located 1980 feet from the north line and 800 feet from the east line of Sec. 14, T12S, R10E. Drilled to a depth of 4,650 feet with 5-1/2" casing set to total depth. 43-007-30111
 3. Shimmin Trust #3 located 1980 feet from the north line and 1780 feet from the west line of Sec. 14, T12S, R10E. Drilled to a depth of 4,425 feet with 5-1/2" casing set to total depth. 43-007-30119
 4. Shimmin Trust #4 located 540 feet from the south line and 1900 feet from the west line of Sec. 11, T12S, R10E. Drilled to a depth of 4,631 feet with 5-1/2" casing set to total depth. 43-007-30113
 5. Shimmin Trust #5 located 660 feet from the north line and 2340 feet from the east line of Sec. 14, T12S, R10E. Drilled to a depth of 4,485 feet with 5-1/2" casing set to total depth. 43-007-30112

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

Date: October 1, 1991

Cockrell Oil Corporation

Attachment #2

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

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

- 1) 1210-0801: S. 415 ft. & W. 288 ft. from NE Cor. Sec. 8 (NE4NE4) 43-007-30107
- 2) 1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4) 43-007-30111
- 3) 1210-0708: S. 2000 ft. & W. 600 ft. from NE Cor. Sec. 7 (SE4NE4) 43-007-30113
- 4) 1210-0907: S. 2000 ft. & W. 2050 ft. from NE Cor. Sec. 9 (SW4NE4) 43-007-30117
- 5) 1210-0313: N. 750 ft. & E. 650 ft. from SW Cor. Sec. 3 (SW4SW4) 43-007-30121
- 6) 1210-1204: S. 1100 ft. & E. 1200 ft. from NW Cor. Sec. 12 (NW4NW4) 43-007-30125
- 7) 1210-1304: S. 1150 ft. & E. 1200 ft. from NW Cor. Sec. 13 (NW4NW4) 43-007-30129
- 8) 1210-1504: S. 700 ft. & E. 500 ft. from NW Cor. Sec. 15 (NW4NW4) 43-007-30133
- 9) 1210-1609: N. 2000 ft. & W. 775 ft. from SE Cor. Sec. 16 (NE4SE4) 43-007-30137
- 10) 1210-1602: S. 700 ft. & W. 1900 ft. from NE Cor. Sec. 16 (NW4NE4) 43-007-30141
- 11) 1210-2302: S. 800 ft. & W. 1800 ft. from NE Cor. Sec. 23 (NW4NE4) 43-007-30145
- 12) 1210-2310: N. 2000 ft. & W. 1950 ft. from SE Cor. Sec. 23 (NW4SE4) 43-007-30149
- 13) 1210-2404: S. 1150 ft. & E. 1200 ft. from NW Cor. Sec. 24 (NW4NW4) 43-007-30153
- 14) 1210-2412: N. 2100 ft. & E. 475 ft. from SW Cor. Sec. 24 (NW4SW4) 43-007-30157

STATE ENGINEER'S ENDORSEMENT

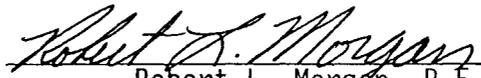
WATER RIGHT NUMBER: 91 - 4819

APPLICATION NO. T65703

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

Conditions:

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


Robert L. Morgan, P.E.
State Engineer



UTAH
NATURAL RESOURCES
Oil, Gas & Mining

3 West North Temple, 3 Triad Center, Suite 330, Salt Lake City, UT
801-1203, 801-538-5340

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

RECEIVED

COCKRELL OIL CORPORATION
1600 Smith, Suite 4600
Houston, TX 77002-7348

DEC 09 1991

DIVISION OF
OIL, GAS & MINING

Utah Account No. N1035

Report Period (Month/Year) 10/91

Amended Report

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
4300730119	SHIMMIN TRUST #3	12S 10E 14	MVRD	31	-0-	2,387	6,366
4300730120	SHIMMIN TRUST #1	12S 10E 11	MVRD	30	-0-	1,926	5,677
4300730121	SHIMMIN TRUST #2	12S 10E 14	MVRD	30	-0-	1,818	21,891
4300730122	SHIMMIN TRUST #5	12S 10E 14	MVRD	30	-0-	3,120	14,315
4300730123	SHIMMIN TRUST #4	12S 10E 11	MVRD	27	-0-	4,198	4,896
TOTAL					-0-	13,449	53,145

Comments (attach separate sheet if necessary) See Attachment "A" for gas tests

I have reviewed this report and certify the information to be accurate and complete. Date November 30, 1991

[Signature]
Authorized signature

Telephone 713/651-1271

DATE 12/09/91

PRODUCTION INQUIRY SCREEN

MENU: OPTION 00

TWNSHP RANGE SC SPOT MD. API ZONE STATUS
12.0 S 10.0 E 11 SESW S 43-007-30123 MVRD PGW

OPERATOR: N1035 : COCKRELL OIL CORPORATION
WELL NAME: SHIMMIN TRUST #4
ENTITY: 11096 : SHIMMIN TRUST 1,2,3,4,5

ACCT	ENTY	DAYS	OIL PROD	GAS PROD	WATER PROD	PERIOD
CUM THRU 12/31/90			0.00	0.00	19659.00	
N1035	11096	31	0.00	0.00	13378.00	91-01
N1035	11096	28	0.00	0.00	12441.00	91-02
N1035	11096	30	0.00	0.00	9162.00	91-03
N1035	11096	29	0.00	0.00	7677.00	91-04
N1035	11096	30	0.00	0.00	7156.00	91-05
N1035	11096	30	0.00	0.00	7534.00	91-06
N1035	11096	31	0.00	0.00	6362.00	91-07
N1035	11096	31	0.00	3335.00	6181.00	91-08
N1035	11096	30	0.00	2979.00	5801.00	91-09
YTD			0	6,314	75,692	

OPTION: 13 PERIOD(YMMM): 9100 API: 4300730123 ZONE: MVRD ENTITY: 10340



State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

Neuman H. Bangertter
Governor
Kenneth L. Alkema
Executive Director
Don A. Ostler, P.E.
Director

288 North 1460 West
Salt Lake City, Utah
(801) 538-6146
(801) 538-6016 Fax

Reply to: State of Utah
Division of Water Quality
Department of Environmental Quality
Salt Lake City, Utah 84114-4870

December 11, 1991

Mr. Ben Weichman
Cockrell Oil Corporation
1600 Smith, Suite 4600
Houston, Texas 77002-7348

RE: Total Dissolved Solids Limit
UPDES No. UT0025054

Dear Mr. Weichman:

We have reviewed your letter of November 12, 1991 regarding the proposed reverse osmosis treatment and discharge to Willow Creek of less than one ton of salt per day. Although that level of discharge would satisfy one portion of the Colorado River Basin Salinity Control Forum (Forum) requirements, it might not comply with the State Antidegradation Policy cited in our September 24, 1991 letter. A review of the data for Willow Creek indicates that the average total dissolved solids (TDS) for Willow Creek is between 430 and 600 mg/l. The maximum TDS listed was 814 mg/l for the years reviewed.

EPA has determined the TDS effluent limits for similar coalbed methane wells for the Southern Ute Indian Reservation to be an average of 500 mg/l and maximum of 1000 mg/l. This level of treatment would comply with the Forum guidelines and the Antidegradation Policy. Therefore, a TDS limit of 500 mg/l yearly average and 1000 mg/l daily maximum could be proposed for the company discharge.

You have indicated in conversation that this level of treatment might not be economically feasible. As stated in the Antidegradation Policy, public participation and the Utah Water Quality Board approval would be needed to allow a higher effluent limit.

If you have any questions regarding that process, please contact Fred Pehrson, Branch Manager of this office at (801) 538-6146.

Sincerely,

Utah Water Quality Board

Don A. Ostler, P.E.
Executive Secretary

DAO:SRM:ja

cc: EPA Region VIII, Water Management
Southeastern Utah District Health Dept
Division of Oil, Gas & Mining

S:COCKRELL.F2

RECEIVED

DEC 16 1991

DIVISION OF
OIL GAS & MINING

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

6. Lease Designation and Serial Number	11096
7. Indian Allottee or Tribe Name	N/A
8. Unit or Communitization Agreement	N/A
9. Well Name and Number	Shimmin Trust #4
10. API Well Number	43-007-30123
11. Field and Pool, or Wildcat	Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
 Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
 Use APPLICATION FOR PERMIT— for such proposals

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

2. Name of Operator
 Cockrell Oil Corporation

3. Address of Operator
 1600 Smith, Suite 4600, Houston, TX 77002

4. Telephone Number
 713/651-1271

5. Location of Well
 Footage : 1900' FWL & 540' FEL
 OO, Sec, T., R., M. : S11 - T12S - R10E County : Carbon State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

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

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

Change Operator to:
 PG&E Resources, Inc.
 P. O. Box 25655
 Dallas, Texas 75225

RECEIVED
 JUN 23 1992
 DIVISION OF
 OIL GAS & MINING

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

Name & Signature [Signature] Title Special Projects Mgr Date 6/22/92

(Use Only)



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

August 6, 1992

Cockrell Oil Corporation
1600 Smith, Suite 4600
Houston, Texas 77002

Gentlemen:

Re: Notification of Sale or Transfer of Fee Lease Interest - Township 12S, Range 10E, Carbon County, Utah

The division has received notification of a change of operator from Cockrell Oil Corporation to PG & E Resources Company for the following wells which are located on fee leases:

Shimmin Trust 1	43-007-30120	11-12S-10E
Shimmin Trust 2	43-007-30121	14-12S-10E
Shimmin Trust 3	43-007-30119	14-12S-10E
Shimmin Trust 4	43-007-30123	11-12S-10E
Shimmin Trust 5	43-007-30122	14-12S-10E

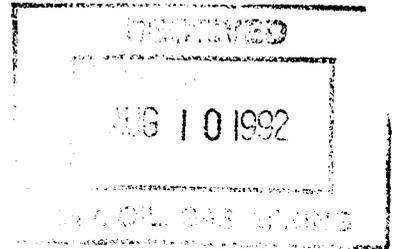
Rule R649-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease (working interest or royalty interest), when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Cockrell Oil Corporation of its responsibility to notify all individuals with an interest in this lease of the change of operator. Please provide written documentation of this notification to the division no later than August 27, 1992.

Sincerely,

Don Staley
Administrative Manager
Oil and Gas

ldc
cc: R.J. Firth
WOI201



August 6, 1992

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

Attn: Tammi Searing

Re: PG & E Resources Company
Castlegate Prospect
Application for Temporary Change
of Water *43-007-30123*
Carbon County, Utah

Dear Tammi,

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

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

In future applications I will reference the Change Application Number (t92-91-12 (91 Area), rather than send additional copies of this application.

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

Sincerely,

PERMITCO INC.

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

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

Enc.

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

Permitco Incorporated
A Petroleum Permitting Company



STATE OF UTAH
NATURAL RESOURCES
Water Rights

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

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

July 31, 1992

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

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

Dear Mr. Price:

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

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

Sincerely,

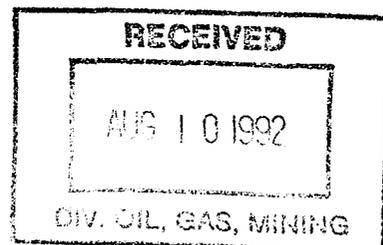
William A. Wernack

for

Mark P. Page
Regional Engineer

cc: Bob Davis - Price River Commissioner

Enclosures
MPP/mjk



Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LCR	7- LCR
2- DTS	OTS
3- VLC	✓
4- RJF	✓
5- RWM	✓
6- ADA	✓

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

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

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

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

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

Name: <u>SHIMMIN TRUST 3/MVRD</u>	API: <u>43-007-30119</u>	Entity: <u>11096</u>	Sec <u>14</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>FEE</u>
Name: <u>SHIMMIN TRUST 1/MVRD</u>	API: <u>43-007-30120</u>	Entity: <u>11096</u>	Sec <u>11</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>FEE</u>
Name: <u>SHIMMIN TRUST 2/MVRD</u>	API: <u>43-007-30121</u>	Entity: <u>11096</u>	Sec <u>14</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>FEE</u>
Name: <u>SHIMMIN TRUST 5/MVRD</u>	API: <u>43-007-30122</u>	Entity: <u>11096</u>	Sec <u>14</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>FEE</u>
Name: <u>SHIMMIN TRUST 4/MVRD</u>	API: <u>43-007-30123</u>	Entity: <u>11096</u>	Sec <u>11</u> Twp <u>12S</u> Rng <u>10E</u>	Lease Type: <u>FEE</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 6-23-92)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 7-10-92)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 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.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *7-20-92*
- See 6. Cardex file has been updated for each well listed above. *7-20-92*
- See 7. Well file labels have been updated for each well listed above. *7-20-92*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *7-20-92*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- JCP 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)

80572600 (\$50,000) "Federal Ins. Co." Released 7-20-92.
 # 11870145 (\$80,000) "United Pacific Ins. Co." Received 7-13-92

- JCP 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. ** Upon completion of routing.*
- JCP 3. The former operator has requested a release of liability from their bond (yes no . Today's date June 25 1992. If yes, division response was made by letter dated _____ 19____. ** 920523 per phone conversation oper req. DOBm to keep bond in place.*

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- JTS 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 8/6 1992, 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.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- RUM 1. All attachments to this form have been microfilmed. Date: August 4 1992.

FILING

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

COMMENTS

APPLICATION FOR TEMPORARY CHANGE OF WATER

AUG 10 1992
 DIV. OIL, GAS, MINING

RECEIVED
 STATE OF UTAH
 AUG 31 1992

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

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

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

Changes are proposed in (check those applicable)

point of diversion. place of use. nature of use. period of use.

1. OWNER INFORMATION

Name: West Hazmat Oil Field Services Inc. *Interest: _____%
 Address: East Highway 40
 City: Roosevelt State: Utah Zip Code: 84066

2. *PRIORITY OF CHANGE: July 31, 1992 *FILING DATE: July 31, 1992
 *Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: 91-366, Cert. #a229, Morse Decree First Class

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

***** HERETOFORE *****

4. QUANTITY OF WATER: 7.98 cfs and/or _____ ac-ft.

5. SOURCE: Price River

6. COUNTY: Carbon

7. POINT(S) OF DIVERSION: _____
S. 560 ft. & E. 680 ft. from N $\frac{1}{2}$ Cor. Sec. 1, T14S, R9E, SLB&M.

Description of Diverting Works: Concrete diversion dam, earthen ditches

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

Description of Diverting Works: _____

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

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

10. NATURE AND PERIOD OF USE

Irrigation: From March 1 to November 30
 Stockwatering: From _____ to _____
 Domestic: From _____ to _____
 Municipal: From _____ to _____
 Mining: From _____ to _____
 Power: From _____ to _____
 Other: From _____ to _____

11. PURPOSE AND EXTENT OF USE

Irrigation: 12,576.07 acres. Sole supply of 488.10 acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____
 Mining: _____ Mining District in the _____ Mine.
 Ores mined: _____ Type: _____ Capacity: _____
 Power: Plant name: _____
 Other (describe): _____

12. PLACE OF USE

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

13. STORAGE

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

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

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

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

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

16. COUNTY: Carbon

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

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

18. POINT(S) OF REDIVERSION

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

Description of Diverting Works: _____

19. POINT(S) OF RETURN

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

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

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

-20. NATURE AND PERIOD OF USE

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

21. PURPOSE AND EXTENT OF USE

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

22. PLACE OF USE

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

23. STORAGE

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

24. EXPLANATORY

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

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

Dale Price
 Signature of Applicant(s)

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

#17 Points of Diversion:

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

Shimmin Trust Wells:

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

43-007-30123

#22 Place of Use:

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

Alternate Wells:

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

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t92-91-12

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

Conditions:

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

William A. Wiersma

for

Mark Page, Area Engineer

for

Robert L. Morgan, State Engineer

Clark Clement
Stan Goodrich
Rick Von Flatern
Wayne Sutton
John Wingert
Will Paulsen

CASTLEGATE PROJECT
SHIMMIN TRUST NO. 4
SECTION 11-12S-10E, SE, SW
CARBON CO., UTAH
AFE # _____
SEPTEMBER 27, 1993

Glenn Bultmann
Jeff Hart
Randy Miller
Mike McMican
Well File

PURPOSE:

THIS PRODUCING WELL WAS PURCHASED FROM COCKRELL IN 6/92. THE LOWER BLACK HAWK COAL SEAM INTERVAL WHICH IS CURRENTLY OPEN WILL BE TREATED WITH PRODUCED WATER AND BREAKER SINCE THE ORIGINAL FRAC JOB DID NOT CONTAIN GEL BREAKER.

THE UPPER BLACK HAWK COAL SEAM INTERVAL WILL BE PERFORATED AND FRACTURE-TREATED JUST AS THE 20 NEWLY-COMPLETED WELLS WERE STIMULATED.

DISCUSSION:

This well was completed by Cockrell on 11/27/90; the Lower Black Hawk coal seam interval was completed rod pumping 342 BWPD and 44 MCF/D gas production (FL @ 1500'). Water production rapidly declined on this well without consequent increase in gas production until the well was shut down by PG&ER in 7/92 due to no gas sales outlet; however, had a gas sales point been established at that time, the well would still not have been economic to produce. (PG&ER bought the well from Cockrell in 6/92). After reviewing well treating and fracturing reports, John Ely determined that the borate frac jobs done on the well's lower coal intervals did not contain gel breaker - this phenomenon explained the rapid fall-off in water production rates and lack of increase in gas production rates.

Howco will
PUMP THIS
JOB INSTEAD
OF WESTERN

The Lower Coal Seam Interval will be treated with acid and produced water with gel breaker followed by a completion attempt in the Upper Coal Seam Interval.

WELL DATA:

KB-GND=15' (GL=7398'); 8-5/8", 23#, WC-50 @ CS 627'
(cmt'd to surf)
5-1/2", 17#, WC-70, LT&C csg set @ 4630' cmt'd thru DV tool (3553'):
 Stage 1: 320 sx 50/50 Poz
 Stage 2: 310 sx Silica-Lite
TOC @ 3545' +/- by CBL Measure
12-1/4" Surf Hole
7-7/8" Prod Hole
5-1/2", 17#, WC-70 Burst P = 6800 psi (80% = 5500 psi)
PBD = 4579'
TD @ 4630'

9. IF HOLE WILL SUPPORT FLUID COLUMN, PROCEED W/STEP 10; OTHERWISE, GO TO STEP 12.
10. GIH W/2-7/8" WORKSTRING O.E. TO 4180'; WESTERN CO. SPOT 15% FE ACID FROM 4180' TO 4060'.
11. POOH W/2-7/8" TBG.
12. WESTERN CO. PUMP 143,000 G FILTERED PRODUCED WATER (OR FILTERED 1% KCL WILLOW CREEK WATER) WITH GEL BREAKER AND 8,000 G 7-1/2% FE ACID AND 300 7/8" BALL SEALERS DOWN 5-1/2" CSG TO TREAT PERFS 4062'/4181' W/THE FOLLOWING TREATMENT SCHEDULE:

- * STINGER INST. TREE SAVER THRU BOP'S.
- * WESTERN TST SURFACE LINES TO 7500 PSI FOR 15 MIN.

<u>ITEM</u>	<u>VOLUME</u>	<u>FLUID</u>	<u># OF BALL SEALERS**</u>
Stage 1	2,000 g 40,000 g	7-1/2% FE Acid 10 Mic Filtered Prod. Wtr. w/Brkr*	----
Stage 2	2,000 g 8,000 g	7-1/2% FE Acid 10 Mic Filtered Prod. Wtr. w/Brkr*	100
Stage 3	40,000 g	10 Mic Filtered Prod. Wtr. w/Brkr*	----
Stage 4	2,000 g 8,000 g	7-1/2% FE Acid 10 Mic Filtered Prod. Wtr. w/Brkr*	100
Stage 5	30,000 g	10 Mic Filtered Prod. Wtr. w/Brkr*	----
Stage 6	2,000 g 8,000 g	7-1/2% FE Acid 10 Mic Filtered Prod. Wtr. w/Brkr*	100
Stage 7	9,000 g	10 Mic Filtered Prod. Wtr. w/Brkr*	

* 10#/1000G B-5 BREAKER AND 1 G/1000G B-31 BREAKER ACTIVATOR.

** 7/8" 1.3 S.G. RCN BALL SEALERS.

- * TREAT @ 60 BPM X (EST.) 3500 PSI (MX P = 5500 PSI - SET POP-OFF VALVE FOR 5500 PSI).
- * WESTERN CO. TO SUPPLY SUFFICIENT HP TO TREAT @ 60 BPM X 3500 PSI + 50% STANDBY CAPABILITY.
- * BREAKERS TO BE ADDED ON FLY.
- * ACTUAL NUMBER OF BALL SEALERS MAY VARY AND WILL BE EXAMINED AFTER FIRST STAGE BALLS HIT THE PERFORATIONS.
- * JOB TO BE QC'D BY JOHN ELY ENGINEER.

13. FLOWBACK/SWAB WELL TO EVALUATE INFLOW.
14. RUN MILLER MOD "C" CUP-TYPE RBP AND RET. HD ON 2-7/8" WORKSTRING. SET BP @ 4210'. SPOT 2 SX SD ON BP STINGER.
15. POOH W/2-7/8" WORKSTRING . INST. STINGER SHORT CSG SAVER & TEST RBP TO 5500#.
16. SCHL PERF UPR COAL SEAM INTERVAL @ THE INDICATED DEPTHS USING 4" CSG GUN, 22 GM CHG, 20" TTP BEREA, .43" DIAM HOLE:

4062' / 4181' 15 NET 20 HOLES

(SEE ATTACHED LOG STRIP FOR EXACT HOLE DEPTHS - PERF BY HLS SPECTRAL DENSITY "QUICK LOOK LOG DATED 9-13-90).

17. STINGER WHD PROTECTION INST 10,000 PSI CASING SAVER THRU BOP'S.
18. RU FLOWBACK MANIFOLD W/ADJ & POS CK CAPABILITIES FROM WING VALVE ON TBG HANGER HEAD THRU MANIFOLD TO STAKED DOWN BLOOEY LINE TO PIT.
19. WESTERN CO. TREAT PERFS OF UPR BLACK HAWK COAL INTERVAL 4062' / 4181' (20 HOLES) DOWN 5-1/2" CSG W/2000 G 7-1/2% FE ACID (W/FINES SUSP ADDITIVE AND SURFACTANT) & 30-7/8" RCN 1.3 SG BALL SEALERS (IF REQUIRED) AS FOLLOWS:

- * INSTALL FRAC VALVE ON TOP OF STINGER HYDRAULIC VALVE
- * WESTERN HOOK UP FORCE CLOSURE "BLOW DOWN" LINE W/ADJ CK & RATE METER TO PIT OFF OF MAIN TREATING LINE
- * WESTERN CO. TEST LINES TO 7500 PSI FOR 15 MINUTES
- * ESTABLISH INJECTION RATE DOWN CSG TO BD PERFS W/10 MICRON FILTERED PRODUCED WATER (100 BBLS)
- * IF GOOD PUMP-IN RATE IS ESTABLISHED, PUMP ACID W/O BALL SEALERS; IF WELL PUMP-IN IS NOT ADEQUATE, DROP BALLS IN THE ACID AS OUTLINED BELOW.

- * START ACID (17 BBLs) THEN DROP 1 BALL/BBL ACID IN LAST 30 BBLs ACID.
- * EST TREAT @ 15 BPM X 2000 PSI (MX P = 5500 PSI). (SET POP-OFFS FOR 5500#).
- * IF NO BALLS ARE DROPPED IN THE ACID, DO NOT SHUT DOWN PUMPING FOR ANY REASON! CONTINUE PUMPING W/Frac PRE-PAD VOL.
- * ATTEMPT TO BALL OFF; WHEN BALL OFF OCCURS, SURGE BALLS HARD 3 TIMES THEN S/D & WAIT 30 MIN FOR BALLS TO FALL.

20. WESTERN CO. FRAC UPPER COAL SEAM PERFS 4062' / 4181' (20 HOLES) DOWN 5-1/2" CSG BY LIMITED ENTRY USING 61,000 GALS OF ALUM AND ZIRC DUAL XL CMHEC GEL & 36,000# 100 M, 69,000# 16/30 OTTAWA SAND, AND 20,000# OF CURABLE RESIN CTD SD 16/30 M USING THE FOLLOWING TREATMENT SCHEDULE:

<u>ITEM</u>	<u>VOLUME</u>	<u>FLUID</u>	<u>SD CONC</u>
Pre-Pad	10,000 gal	10 Mic Filtered Prod. Wtr.	-----
Pad	25,000 gal	35# Dual AL & Zirc XL CMHEC Gel	-----
Stage 1	6,000 gal	35# Dual AL & Zirc XL CMHEC Gel	2 PPG 100 MESH
Stage 2	6,000 gal	35# Dual AL & Zirc XL CMHEC Gel	4 PPG 100 MESH
Stage 3	6,000 gal	35# Dual AL & Zirc XL CMHEC Gel	4 PPG 16/30 OTTAWA SD
Stage 4	9,000 gal	35# Dual AL & Zirc XL CMHEC Gel	5 PPG 16/30 OTTAWA SD
Stage 5	4,000 gal	35# Dual AL & Zirc XL CMHEC Gel	RAMP UP TO 5 FROM 4 PPG 16/30 CURABLE RD SD
Flush	3,925 gal	10 Mic Filtered Prod. Wtr.	-----

- * EST TREAT @ 50 BPM X 3000 PSI (MX P = 5500 PSI) (SET POP-OFFS FOR 5500#).
- * JOB TO BE PILOT TESTED & BATCH-MIXED AS PER JOHN ELY SPECS AND PROCEDURE (TEST GEL XL VISCOSITY, XL TIME, BREAKER LOADING, SD SPECS).
- * TO FORCE CLOSE, OPEN WELL FOR FLOWBACK WITHIN 50 SECS OF FRAC JOB COMPLETION (OPEN WELL TO FLOW @ 1 BPM ON APPROX 8/64" CK).
- * PROTECHNICS R/A TAG SD W/2 ISOTOPES - ANTIMONY FOR 100 M & IR OR SC FOR 16/30 SD & RC.

21. FLOWBACK WELL & EVALUATE. RUN HES "AFTER FRAC" TRACERSCAN LOG. RUN 2-7/8" TBG & RBP RET HD; SWAB & EVALUATE.
22. RET RBP & POOH; RUN 2-7/8" TBG & C/O TO PBD; CIRC HOLE W/1% KCL WATER; POOH.
23. RUN PC PUMP STATOR AND NO-TURN TOOL AND TAIL PIPE ON 2-7/8" INTERNALLY COATED TBG; LAND PS ABOVE AND WITHIN 50' OF TOP PERFS.
24. RUN ROTOR ON 1" SR'S (W/ROD GUIDES) & LAND IN PUMP STATOR - SPACE OUT; HOOK TO DRIVE HEAD.
25. PUT WELL ON PRODUCTION.

SIGNATURES:

Mr. Smith
PRODUCTION ENGINEER

9/28/93
DATE

A. Joseph
NORTHERN PRODUCTION MANAGER

9-28-93
DATE

Clark Clement by SLP
PRODUCTION ENGINEERING MANAGER

9/28/93
DATE

PG & E Resources Company
Workover Cost Estimate
Authorization for Expenditure

AFE No:		Well Name: SHIMMIN TRUST		Well No.: 4		Date: 9-27-93	
Prepared By : STEVE GILBERT				Onshore: X		Offshore:	
Prospect: CASTLEGATE PROJECT			State: UTAH		County: CARBON		
Location: SEC. 11-T12S-R10E 8E,8W				Formation: BLACKHAWK COAL			
Description of work to be performed:							
TREAT LOWER COAL SEAMS W/PROD. WATER & BREAKER; ADD UPPER PERFS AND PERFORM CONVENTIONAL CMHEC FRAC JOB; PUT WELL ON PUMP W/PROGRESSIVE CAVITY INSTALLATION.							
WORKOVER ACCT.SUB NUMBER		WORKOVER EXPENSES				TOTAL WORKOVER COSTS	
9808.200		Abstracts, Legal Fees, Permits, Surveying					
9808.201		Location, Road, Canal, Dock, Damages				10,000	
9808.202		Workover Rig				16,000	
9808.203		Fuel, Power, Water				15,000	
9808.205		Completion Fluids					
9808.206		Cement, Cementing Services, Accessories					
9808.207		Rental Equipment - Surface				10,000	
9808.218		Rental Equipment - Subsurface				6,500	
9808.212		Trucking, Boats, Cranes, Other Transportation				4,000	
9808.208		Well Service, Coiled Tubing or Swabbing Units					
9808.209		Perforating and Cased Hole Logs				4,500	
9808.210		Gravel Packing and Sand Control					
9808.211		Formation Stimulation				90,000	
9808.219		Disposal Services					
9808.214		Company and Contract Supervision				5,000	
9808.215		Administrative Overhead				2,500	
9808.216		Miscellaneous Services and Contingencies 10%				8,000	
9808.217		Insurance					
TOTAL WORKOVER EXPENSES						171,500	
CAPITAL COSTS							
9361.203		Tubing 4000 ft. of 2-7/8" OD IC J-55				12,000	
9361.204		Well Head Equipment					
9361.206		Packers, Sleeves, Landing Nipples, SSCV					
9362.301		Artificial Lift and Prime Mover					
9362.302		Sucker Rods and Pump					
9362.303		Tankage					
9362.304		Heater Treater/Separator/Production Unit					
9362.305		Gas Conditioning and Compression Equipment					
9362.306		Flow Lines, Connections and Misc. Valves					
9362.307		Metering, LACT and Loading Facilities					
9362.308		Platform					
9362.318		Pipeline					
9362.310		Labor and Installation Costs					
9362.312		Injection Equipment					
9362.314		Electrical / Powerlines					
9362.316		Scada / Controls / ESD					
9362.309		Other Equipment					
<i>SC Gilbert 9/27/93</i> TOTAL CAPITAL COSTS						12,000	
*NOTE: PC Pump w/surface installation will be submitted on a separate AFE.							
TOTAL ESTIMATED WORKOVER COSTS						183,500	
APPROVALS: NAME:				DATE:			
BY:				TITLE:			

W. J. ... 9-28-93

-18-90
10-12-90

Shimmin Tr. No. 4

Sec. 11 - T12S - R10E SE/SW
Carbon Co. UT

Well History

BTD
2583

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



- 1) Spud 07-17-90.
- 2) Ran 8 5/8"; 23#; STAC csg in 12 1/4" hole @ 627';
cmt'd w/25 ox scavenger, flud by 450 ox Class
H; had 25 bbls cnt returns to surface + good
circulation throughout job.
- 3) Ran 5 1/2"; 17# csg in 7 7/8" hole to 4630'; cnt'd
1st stage w/320 ox 50/50 Poz; cnt'd 2nd stage
w/310 ox silica litr; 20 bbls cnt to surface.
- 4) 10-11-90 Perf 4475-4485; 6 spl.
- 5) 10-12-90. Inac w/24000 gals Hybor 1350 gel pad; 4100 psi
breakdown press; ISIP after prps 5070 gals
of pad @ 1000 psi. PIP on pad decreased from
3850 psi to 2950 psi while prps pad w/88 BPM;
Prp'd 74060 gals of gel w/1 - 3 1/2" /gal /20-40 sd;
Well screened out + press increased to 6400 psi;
SD sd; Cleared csg w/4360 gals of wtr @ 4400
psi; 70 BPM; Jtl 17800# sd in well; 853 tjt load
+ 104 bbls csg Capacity = 957 BWTR; ISIP 1800 psi;
5" 640 psi; 10" 650 psi; 15" 490 psi.
- 6) 10-13-90; Made 16 swb runs; Rec'd 131 BF.
- 7) 10-14-90. Made 90 swb runs; Rec'd 295 BW;
13.1 BPH; light gas on csg.
- 8) 10-15-90 made 50 swb runs; Rec'd 76 BW;
3.2 BPH; last 2 bbls wtr in last he. w/
light gas on csg; FL @ 4300'; plld from 4455'.
- 9) 10-16-90; Made 8 swb runs; Rec'd 143W in 4 hrs;
Had small amt. of gas on tbg + csg.
- 10) 10-17-90; Perf 4385-87'; 4408-13'; 4418-20';
4426-31'; 4 spl.



- 11) 10-19-90 Pumped 10000 gals of gel pad; BDP 3700 psi; Pumped 5030 gals w/3200 psi; 5D paps; 151P 1100 psi; Pumped 15000 gals 40/70 sd; 1# gal; Pumped 10000 gals of gel pad; Press increased from 3100 to 4000 psi when 40/70 sd hit perfs; Pumped 12020 gals Boragel w/1-5 #/gal of 20/40 sd; 89 BPM; 3700 psi; Screened out w/4# gal sd @ perfs; max press 5750 psi; 1st sd in well is 150 sx of 40/70 + 165 sx of 20/40. 1120 BLW + 104 bbls cog capacity = 1224 BLTR.
- 12) 10-22-90 Jag FL @ 300'; Made 50 swb runs; rec'd 354 bbls.; 28 BPH; FL 2000'; trace of sd after recovering 80 BF; Sand Cld up after 310 BF; small show of gas on tbg.
- 13) 10-23-90; Made 40 swb runs; rec'd 278 bbls; FL 2400'.
- 14) 10-24-90; IFL 1200'; made 53 swb runs; rec'd 613 bbls; FL 1400'; Show of gas on each run; CP 160 psi; 39.5d BPH.
- 15) 10-25-90; made 77 swb runs; rec'd 796 bbls; 55 BPH; FL @ 1700'; swby from 3900'; 10 psi CP on 1/8" chr = 10 mcf/d; good gas blow on tbg; Have more gas on tbg than on cog.
- 16) 10-26-90; Made 80 swb runs; rec'd 603 BF; 1420 bbls over frac; 25 BPH w/FL @ 2700'; good gas during + after each swb; gas on cog. Varying from 10-15 mcf/d.

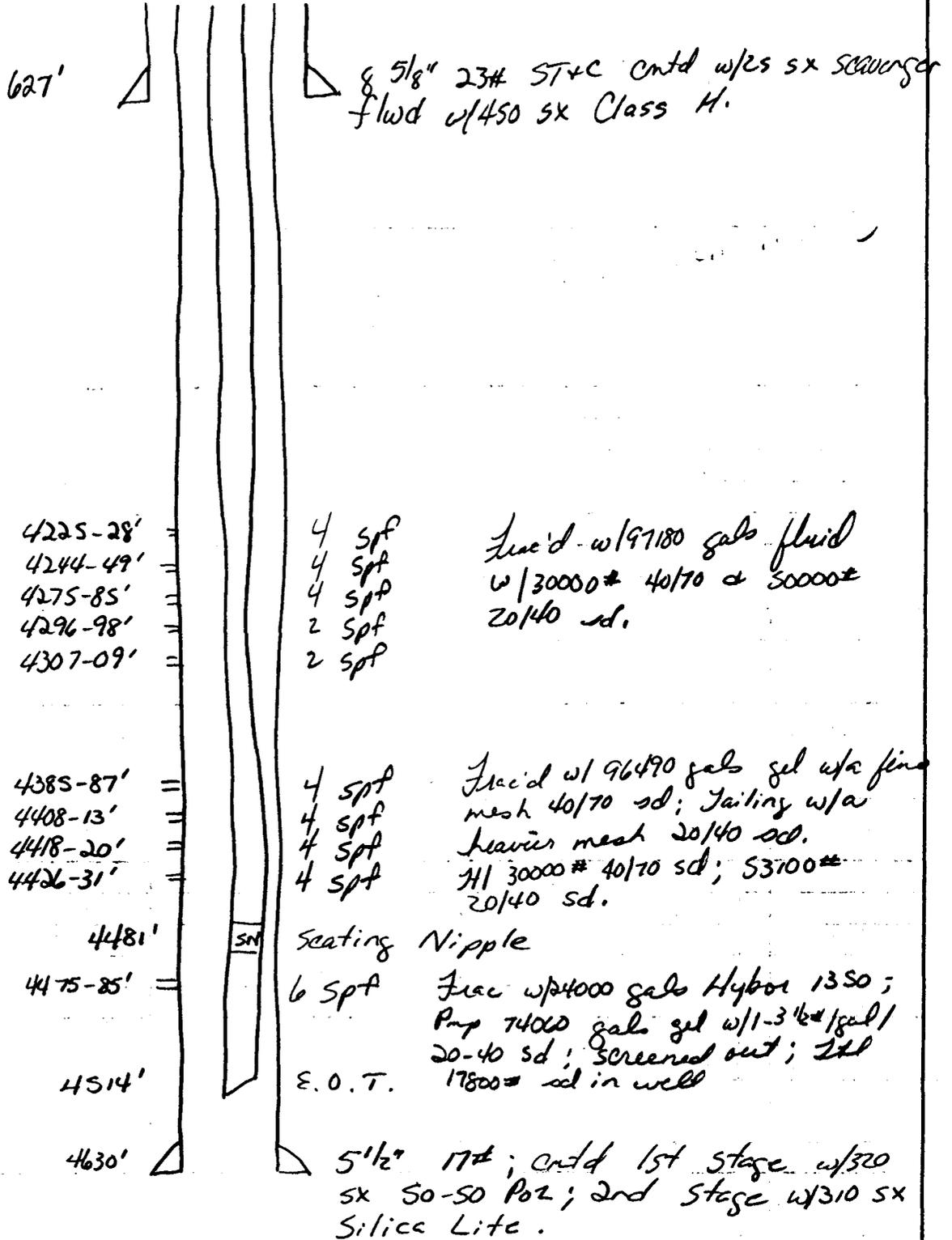
- 17) 10-27-90 Made 69 sub runs; Rec'd 331 bbls;
16 BPM; good gas blow after each run, on
thg; gas rate varied between 8 + 20 mcf/d
from cog.; FL 3400'
- 18) 10-28-90; Made 72 sub runs; Rec'd 307 bbls;
13 BPM; FL @ 3700'. Chl 758 ppm; PH 7.5
- 19) 10-29-90; Made 87 sub runs; Rec'd 276 bbls;
11.5 BPM; FL @ 3700'.
- 20) 10-30-90; Made 94 sub runs; Rec'd 247 bbls;
10 BPM; FL @ 3800'.
- 21) 10-31-90; Made 24 sub runs; Rec'd 97 BW;
14 BPM; FL 3800'
- 22) 11-01-90; Perf ^{4 spt} 4225-28; ^{4 spt} 4244-49'; ^{4 spt} 4275-85';
^{2 spt} 4296-98'; ^{2 spt} 4307-09'
- 23) 11-02-90 Inj'd. Prop'd 97180 gals fluid w/30000#
40/70 + 50000# 20/40 sd.; Avg. 1800 psi; max rate
78 BPM; Max psi 2300; max rate 89 BPM;
151P 1000 psi; 5" 700 psi; 10" 600 psi; 15"
540 psi. TLTR 2412 bbls.
- 24) 11-03-90; Tag FL @ 300'; made 76 sub runs;
rec'd 665 bbls; FL 1000'; 39 BPM.
- 25) 11-04-90; Made 110 sub runs; rec'd 1023
bbls; 43 BPM; FL 1000'; trace of gas
on thg. + cog.

- 26) 11-05-90; made 120 sub runs; rec'd 992 bbls;
41 BPH; FL 1000'
- 27) 11-06-90; 102 sub runs; rec'd 815 bbls;
FL 1000'; gas on tbg; Cog approx. 2' out
of 4' high; Est. 10-20 mcf/d.
- 28) 11-07-90; 111 sub runs; rec'd 839 bbls;
37 BPH; FL varied from 0-1400'; CP varied
from max of 28 psi to 10 psi; Cog 28# on 1/8"
chk = 18.2 MCF; heavy gas on tbg.
- 29) 11-08-90; 94 sub runs; rec'd 861 bbls; 36 BPH;
FL varied in tbg 0-1000'; heavy gas on
tbg; CP varied between 58-22 psi; at
present have 46 psi on csg on 1/8" chk =
25.8 MCF/d.
- 30) 11-09-90; 82 sub runs; rec'd 741 BW; 31 BPH;
FL 800-1000'; well fluid 27 times during
last 24 hrs. for a tkl flow period of
4 3/4 hrs.
- 31) 11-10-90; 67 sub runs; rec'd 765 BW; 32 BPH;
FL 1000-1200'; heavy gas on tbg; CP 1000#;
fluid clean; no sd.
- 32) 11-11-90; 30 sub runs; rec'd 740 BW; 30.8 BPH;
FL 1000-1400'; CP 900#.
- 33) 11-12-90; 41 sub runs; rec'd 668 BW; 27.8 BPH;
FL 1400-1600'; CP 850#.

Shimmin Tr. No. 4

Spud Date : 07-18-90
 Cmpl Date : 10-12-90
 TD : 4630'
 PBD : 4579'

22-141 50 SHEETS
 22-142 100 SHEETS
 22-144 200 SHEETS





WILDCAT OCTG PERFORMANCE PROPERTIES

	OD Size In.	Weight lbs/ft	Grade	Collapse Resistance psi	Tensile Pressure psi	Joint Strength		Body Yield 1000 lbs	Wall Thickness In.	Inside Diameter In.	Drift Diameter ¹ In.	Maximum Setting Depth ²	
						ST&C 1000 lbs	LT&C 1000 lbs					ST&C Ft.	LT&C Ft.
Wildcat 40	9.625	32.30	WC-40	1370	2300	241		365	0.312	9.001	8.845	2400	
	10.750	32.75	WC-40	840	1800	224		367	0.279	10.192	10.038	1400	
	11.750	42.00	WC-40	1040	2000	299		478	0.333	11.084	10.928	1800	
	13.375	48.00	WC-40	740	1700	308		541	0.330	12.716	12.559	1300	
	16.000	65.00	WC-40	630	1600	422		738	0.375	15.250	15.062	1100	
Wildcat 50	2.375	4.70	WC-50	7360	5000	65		65	0.199	1.995	1.901	9200	
	2.875	6.50	WC-50	6980	5000	91		91	0.217	2.441	2.347	9300	
	3.500	9.30	WC-50	6730	5000	130		130	0.254	2.892	2.898	9300	
	4.500	9.50	WC-50	3150	4000	107		138	0.205	4.090	3.965	5400	
	4.500	10.50	WC-50	3780	4400	122		150	0.224	4.052	3.927	6400	
	4.500	11.60	WC-50	4640	4900	141	149	167	0.250	4.000	3.875	6700	7100
	5.500	14.00	WC-50	2970	3900	158		201	0.244	5.012	4.887	5200	
	5.500	15.50	WC-50	3810	4400	185	199	228	0.275	4.950	4.825	6800	6700
	5.500	17.00	WC-50	4590	4900	210	227	248	0.304	4.892	4.767	6800	7400
	7.000	20.00	WC-50	2160	3400	214		267	0.272	6.458	6.331	3800	
	7.000	23.00	WC-50	3110	4000	261	287	339	0.317	6.366	6.241	6500	5500
	7.000	26.00	WC-50	4060	4600	308	337	377	0.362	6.276	6.151	6500	7200
	7.625	26.40	WC-50	2770	3800	289	317	376	0.328	6.969	6.844	4900	4900
	7.625	29.70	WC-50	3690	4300	340	373	427	0.376	6.875	6.750	6300	6500
	8.625	23.00	WC-50	1170	2500	220		329	0.250	8.125	8.000	2000	
	8.625	24.00	WC-50	1330	2700	237		347	0.264	8.097	7.972	2400	
	8.625	25.00	WC-50	1800	3100	285	319	397	0.304	8.017	7.892	3200	3200
	8.625	32.00	WC-50	2440	3500	341	383	457	0.352	7.921	7.796	4300	4300
	9.625	36.00	WC-50	1930	3200	361	415	513	0.362	8.921	8.765	3400	3400
	9.625	40.00	WC-50	2480	3600	414	476	573	0.395	8.835	8.679	4400	4400
	10.750	40.50	WC-50	1530	2900	385		572	0.350	10.050	9.894	2700	
	10.750	45.50	WC-50	1990	3300	451		650	0.400	9.950	9.794	3500	
13.375	54.50	WC-50	1110	2500	470		776	0.380	12.615	12.459	1900		
13.375	61.00	WC-50	1490	2800	544		874	0.430	12.515	12.359	2600		
Wildcat 70	4.500	11.60	WC-70	6840	6800		201	234	0.250	4.000	3.875		9600
	5.500	17.00	WC-70	5780	6800		307	347	0.304	4.892	4.767		9900
	7.000	23.00	WC-70	3660	5600		390	466	0.317	6.366	6.241		6500
	7.000	26.00	WC-70	5020	6300		458	528	0.362	6.276	6.151		8900
	7.625	26.40	WC-70	3170	5300		432	526	0.328	6.969	6.844		5600
Wildcat 75	4.500	11.60	WC-75	6100	7300		212	250	0.250	4.000	3.875		9900
	5.500	17.00	WC-75	6040	7300		327	372	0.304	4.892	4.767		9900

WC-40, 50, 70, and 75 grades have 8-Round threads and couplings and are drilled and pressure tested as indicated in the above table.

1. Oversized drifts available on certain items from production; specify at time of inquiry.
2. The maximum setting depths are listed only as guidelines and are not intended to replace good engineering judgement for your particular well conditions. In most cases, the recommended maximum setting depth is determined by the lesser of collapse resistance in 9.625 ppg mud with a 1.125 GDF and joint strength with a 1.8 TDF (1.5 TDF for tubing) assuming a single weight of casing in the string and ideal down hole conditions.

Lone Star Steel Company warrants that Wildcat products have the performance properties shown above. We will honor claims for reasonable direct costs incurred in restoring the well to its prior condition if we determine a Wildcat product failed because it did not have these properties. This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability and of fitness for a particular use.

MEMORANDUM
September 2, 1993

To: Steve Gilbert
From: Jeff Hart *JH*
Subject: ~~Shimmin~~ Shimmin Trust #4
Sec.11-T12S-R10E, SE-SW
Castlegate CBM Prospect
Carbon County, Utah

The PG&E Resources Shimmin Trust #4 was drilled to a total depth of 4631' on September 13, 1990 by Cockrell Oil Corporation. PG&ER assumed operations in June, 1992. There were no cores or DST's taken on this well. Open hole logs were run using a Dual Induction, Spectral Density Dual Spaced Neutron, Microlog, High Resolution Spectral Density log, Spectral Density Quick Look log and a Sonic log.

In order to preserve the tax credit eligibility in this well and to assure that all coal sections are open, the following intervals are recommended for perforations and fracture stimulation.

<u>Coal</u>			<u>Total Amount of Coal to Add</u>
✓ 4062'-4064'	2'	3 holes	15'
✓ 4072'-4074'	2'	3 holes	
✓ 4076'-4080'	4'	5 holes	<u>Total Holes</u> 20
✓ 4111'-4114'	3'	4 holes	
✓ 4177'-4181'	4'	5 holes	

*upr
coal
seam*

The coals selected above were based upon evaluation of the open hole logs using the Spectral Density Quick Look log with a Bulk Density cut off of < 1.7 gr/cc and PE curve of < 1 , as well as shows on the mud log.

Coals already opened up in this well range from 4225'-4485' (OA).

Formation Tops from the open hole logs are as follows:

KB: 7413'

Price River Sandstone	2832'	(+4581')
Castlegate Sandstone	3274'	(+4139')
Blackhawk Formation	3582'	(+3831')
Kenilworth Sandstone	4309'	(+3104')
Aberdeen Sandstone	4510'	(+2903')

JDH:lkd
Attch.

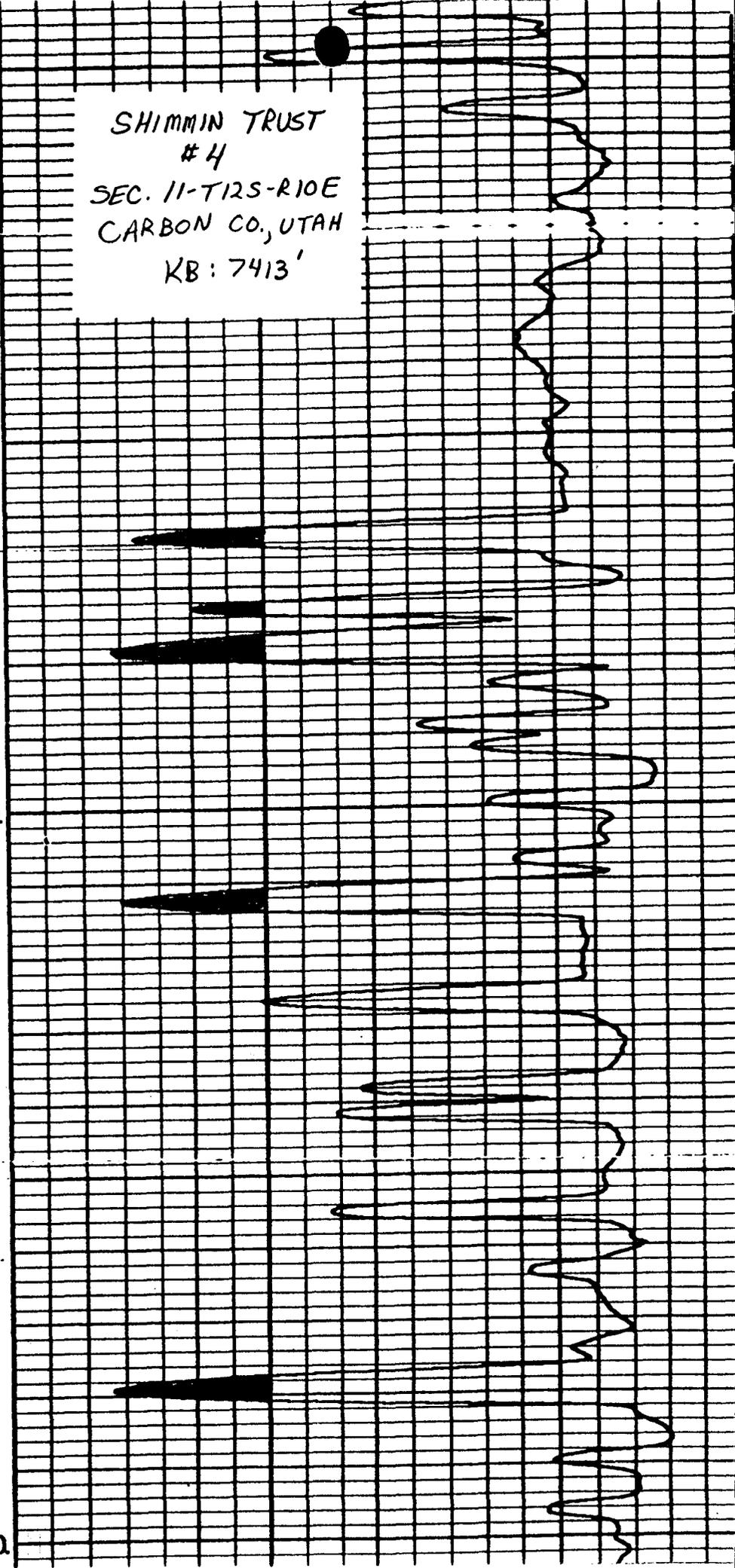
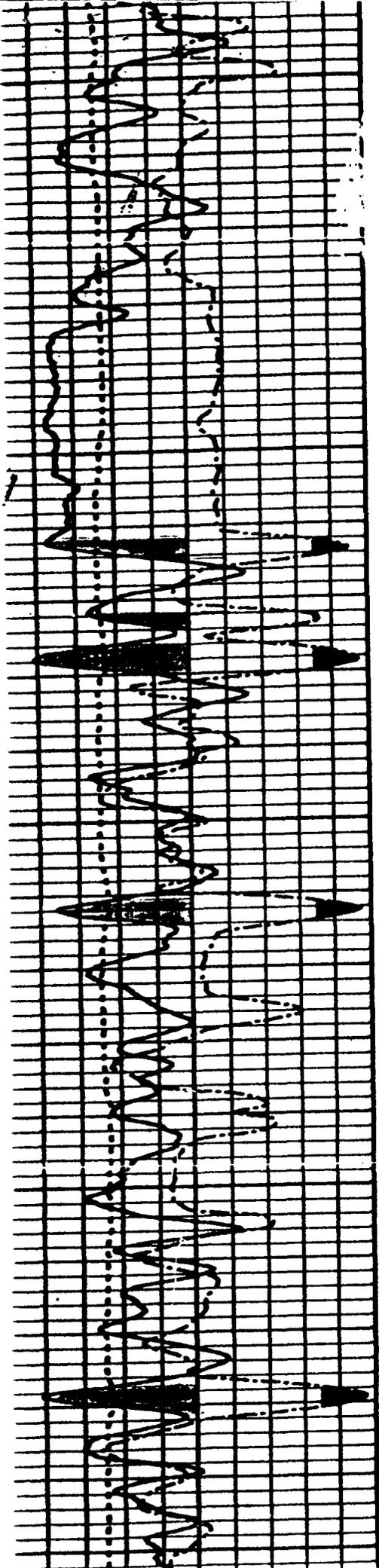
cc w/attch: Wingert, Bultmann, Sutton, Well File

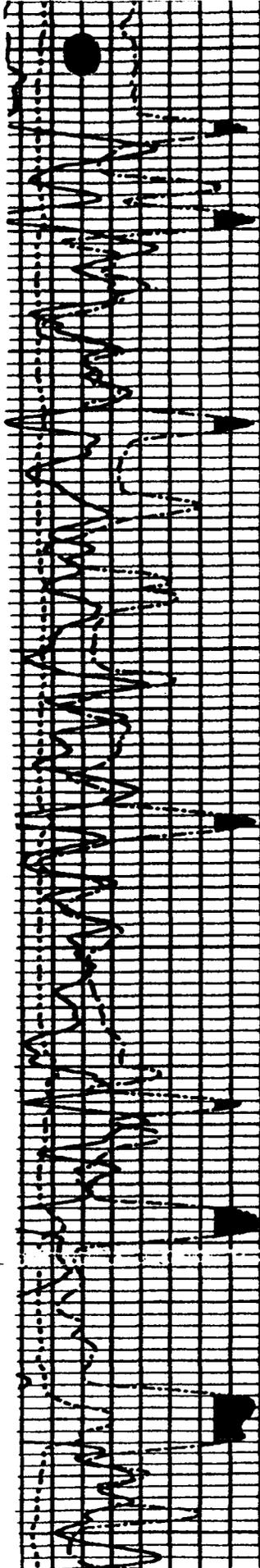
4000

SHIMMIN TRUST
4
SEC. 11-T12S-R10E
CARBON CO., UTAH
KB: 7413'

4100

4200





3 Kbles
62/62/62
72/72/72
8 Kbles
72/72/72
77/72

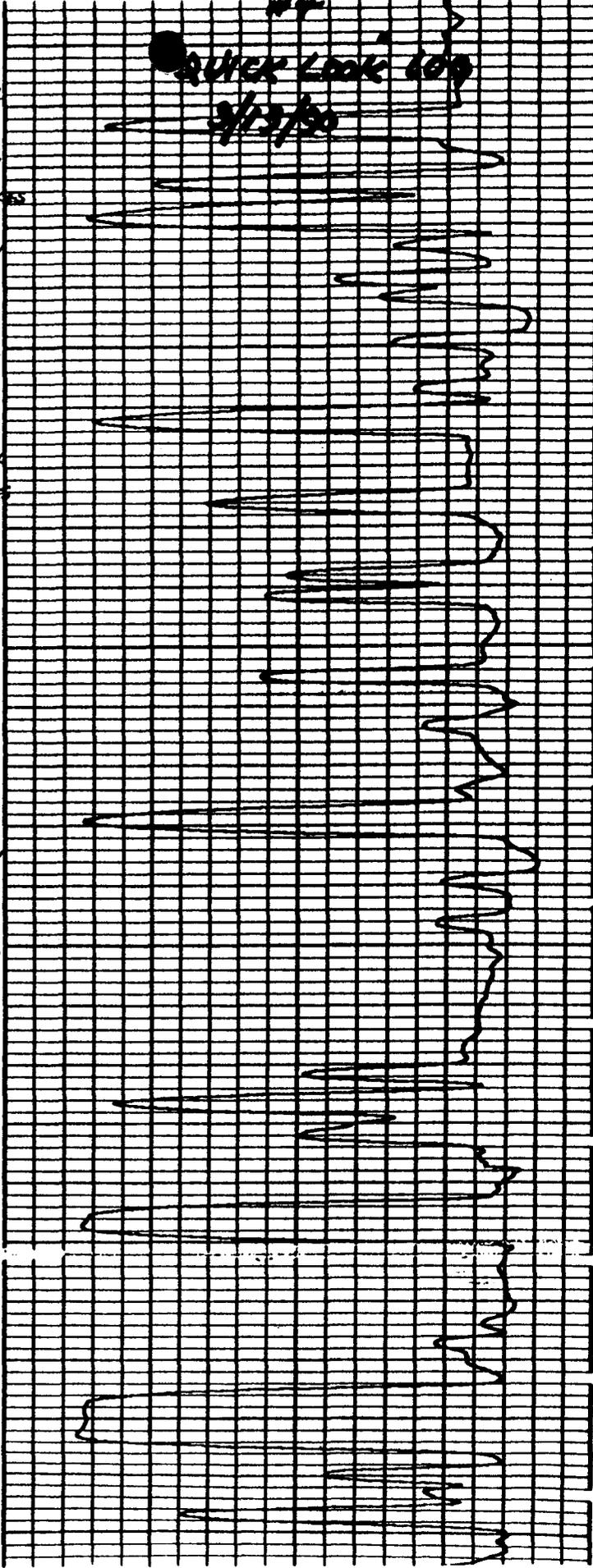
4100

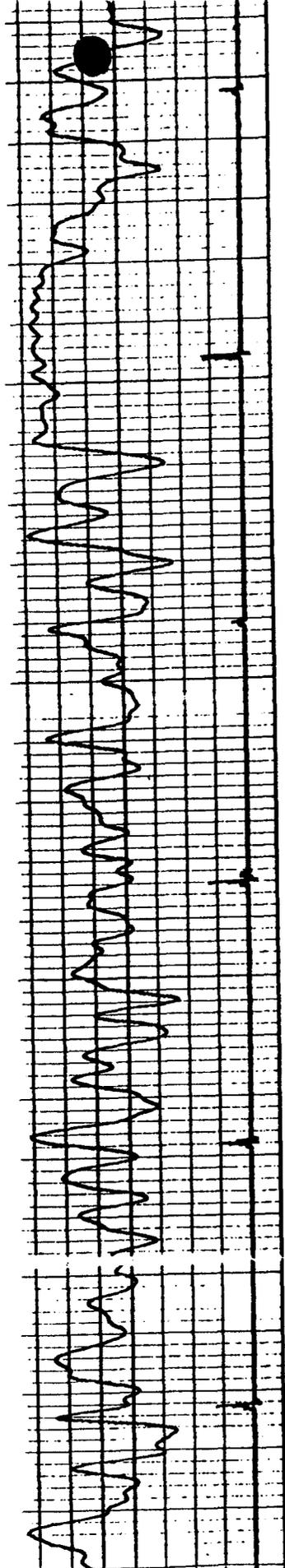
111/12/12/12
4 Holes

72/72/72
80/81
5 Kbles
4200

4300

QUICK LOOK LOG
3/13/50



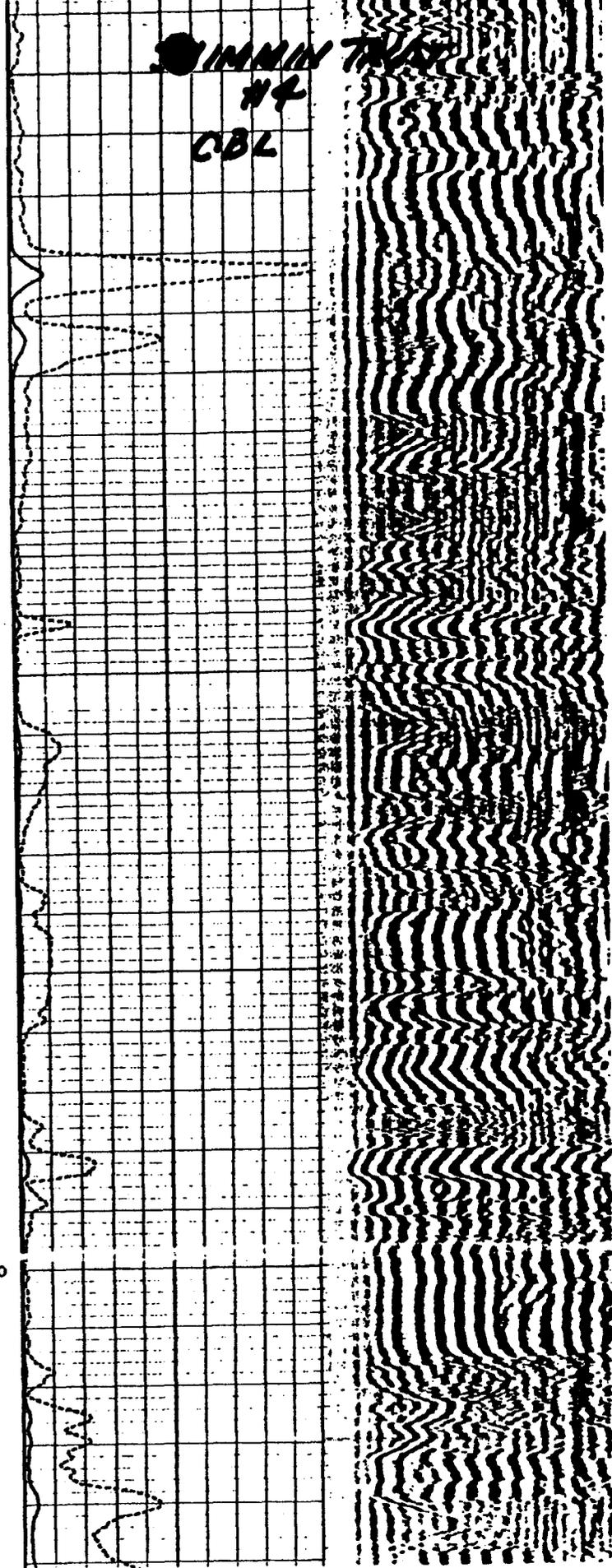


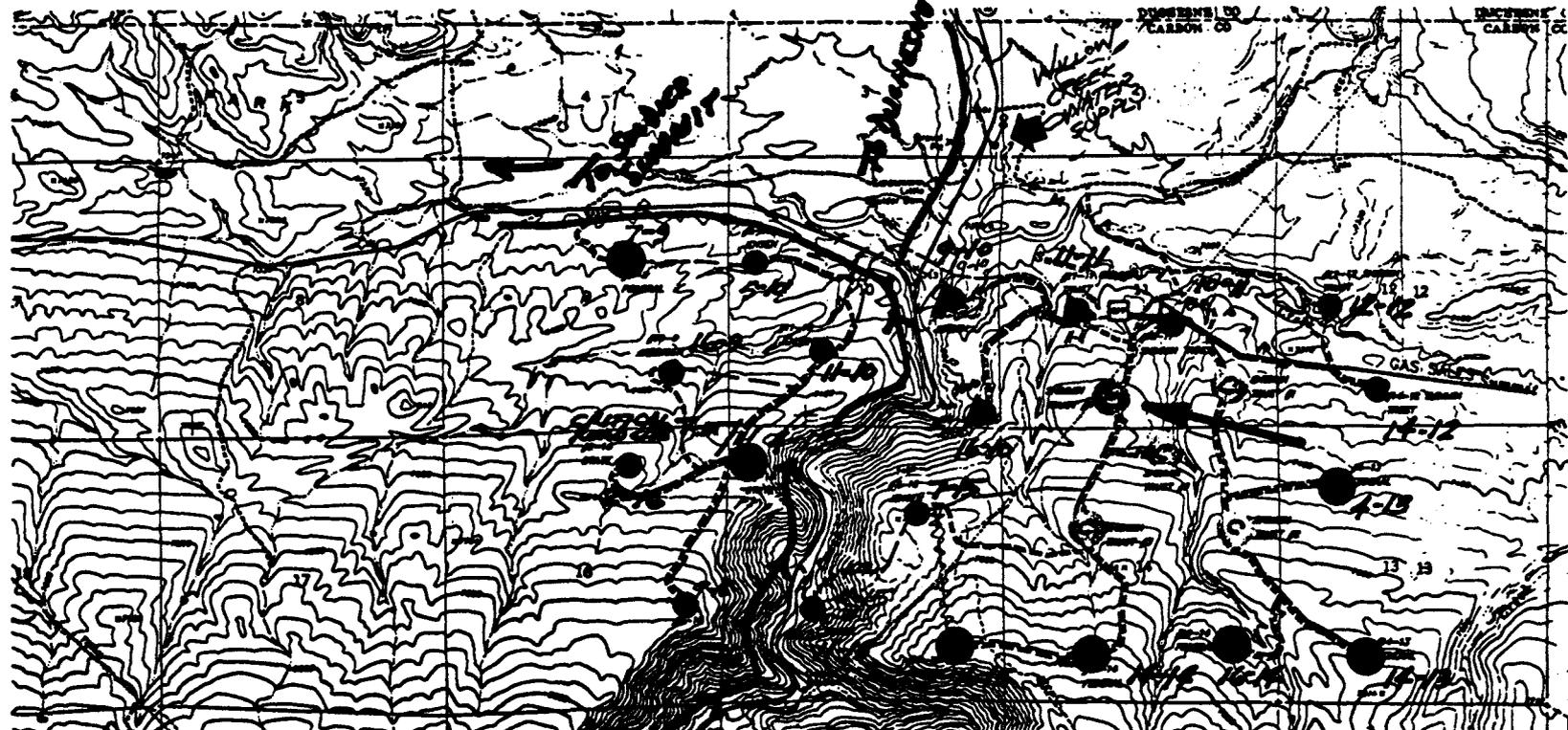
4000

MININ TRAIL
#4
CBL

4100

4200





PG&E RESOURCES CO.
 PROJECT WELL - CANJON RD TO TIL 7/4/72
 CASTLEGATE FIELD
 CARBON COUNTY, UTAH
 WELL W-101 (TR-1) 2012

- - - - - EXISTING DIRT ROAD
 - - - - - PROPOSED PIPELINE
 ● EXISTING WELL
 ⊙ EXISTING PRODUCER/INJECTOR
 FORTY-2 COORDINATE WELL
 SCALE: 1" = 2000'



DOWNHOLE LOG
 CARBON CO
 DISTRICT
 CARBON CO

VENDOR SERVICES

CASTLEGATE COMPLETIONS

FRACTURING

Halliburton - Vernal	Rick Curtis	1-800-874-2550
Dowell-Schlumberger - Vernal	Greg Cudney	801-789-0411
Western Company - Vernal	Dale Larsen	1-801-781-2294

ROUSTABOUT SERVICES / WELDING

J West - Vernal	801-789-9510
Ouray Construction - Naples	801-789-9011

SLICKLINE

Otis Engineering - Vernal	801-789-5746
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WHD ISOLATION

Stinger - Vernal	"Dave"	801-789-8115
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WATER/ WATER HAULING

Hyland	Doug Dowlin	307-328-0668
Nebecker - Roosevelt		801-722-9997
Dalbo - Vernal	Kenny Price	801-421-4063

FRAC TANKS

Hyland	Doug Dowlin	307-328-0668
Dalbo - Vernal	Mike Price	801-421-4063
H&H Biko - Vernal	Rory Hatch	801-789-7791

HOT OILERS

Hyland	Doug Dowlin	307-328-0668
Nebecker - Roosevelt		801-722-9997
Dalbo		800-421-4063

CHEMICAL

Exxon - Vernal	Greg Wilkins	801-789-2069
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PACKERS

Miller - Vernal	Wayne McAdams	801-781-0666
Otis - Vernal	Bryan Fairchild	801-789-5746

RENTALS

Homco - Vernal		801-789-0445
H&H Biko - Vernal	Rory Hatch	801-789-7791
Oil Field Rental - Vernal	"Jeff"	801-789-9092

QC CONSULTANT

John Ely - Houston	Chuck Ebinger	713-894-9009
	John Ely	
	Jim Kromer	

WATER FILTERING

S&S Enterprises - Vernal	Steve Oldroyd	801-828-5011
		801-789-2975

ANCHOR SETTERS

Benco - Vernal		801-789-1244
Rocky Mountain Anchor - Vernal		801-789-0729

WELL SERVICING / REVERSE UNITS

Betts - Roosevelt		801-722-0108
Well Tec - Vernal		801-781-1201
Gibson Well Service - Vernal		801-989-5667
Western - Roosevelt		801-722-3451
Flint Engineering - Vernal		801-789-0660
Colorado Well Service - Vernal		801-789-5543

RADIOACTIVE TAG

Protecnicos - Vernal	Steve Cook	801-789-6621
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PERFORATING / CBL LOGS

Schlumberger - Vernal		801-789-3394
HLS - Vernal		801-789-3155
Star Jet - OKC		405-495-9200
OWP - Vernal		801-789-3175

WELLHEAD

Marta-Co - Vernal

801-781-0434
801-781-0435

PROGRESSIVE CAVITY PUMPS

Highland Rangely

Lyle Peterson

303-675-2322

PC PUMP SURFACE EQUIPMENT

KUDU - Ventura, California

Dennis R.

805-642-9764

WELL HISTORY

Shimmin Trust No. 4
Castlegate Area
Carbon County, Utah
(PG&ER Operated)

- 10-13-93 MIRU Well Tech & SDFN.
- 10-14-93 RIH with 4-3/4" RB & csg scraper on 2-7/8" workstring, tag fill at 4531' - enough rat hole. POOH, run Miller Model 'C' RBP on 2-7/8" tbg & set at 4210'. Test plug to 1500 psi (ok) & SDFN.
- 10-15-93 Start & service rig, 0 psi on well. RU Stinger tree saver, test 5.5" WX-70 csg to 5500 psi for 15 min (ok). RIH with Miller 'C' retrieving head on 2-7/8" tbg, engaged model 'C' BP, POOH & SDFN.
- 10-16-93 RU Stinger & Western, test Western lines to 7000 psi (ok). Load hole with 35 bbl at 22 BPM, increased rate to 60 BPM at 2535 psi, 1st 100 sealers on perfs, psi to 2830. Dropped 150 sealers, sealers on perfs, psi to 5190. Dropped final 50 sealers, reduced rate to 46 BPM with 4860-5300 psi & reduced rate to 46 BPM at 4840 psi, 1400 psi ISIP. RD Western & Stinger & SDFN.
- 10-17-93 TIH with 11 jts tbg, tagged fill at 4541' & LD 1 jt 2-7/8" tbg. RU to swab with SN at 4510', IFL at 1000'. Respot pits & Hi-400 for swab vessels, swab from 4510', rec'd 162 bbl, FFL at 1300'. SDFN.
- 10-18-93 Move TS & tag fill at 4541'. Swab, IFL at 300', FFL at 1500', rec'd 260 BW, 37 BPH. POOH with 2-7/8" tbg.
- 10-19-93 RIH with Miller model 'C' RBP & retrieving head on 2-7/8" workstring, set at 4210' & spot 2 sx sand on plug. POOH with tbg, RU Stinger short csg saver & attempt to test csg, bled off from 5500 psi to 2900 psi in 15 min. RIH with Miller FB tension pkr on 2-7/8" tbg, test plug & area around DV tool to 5500 psi (ok). Will finish testing csg this morning. SDFN.

WELL HISTORY

Shimmin Trust No. 4
Castlegate Area
Carbon County, Utah
(PG&ER Operated)

- 10-20-93 Finish POOH with 2-7/8" tbg & Miller FB tension pkr. RU Stinger 'short' csg saver, tested RBP & csg to 5500 psi (ok). RD Stinger. Schlumberger perfed 4062/4181' (20 holes) with 4" csg gun, 22 gram chg, 20" TTP Berea, .43" diam hole. RU Stinger csg saver, RU Western. Western tested surf lines to 7000 psi & pumped frac job down csg of 966 gal 15% FE acid & 61,000 gal of XL CMHEC gel with 37,120 100 M sand, 72,720# 16/30 M sand & 23,360# 16/30 curable resin coated sand, BDP - 1510 psi on 1% KCl wtr, ISIP 1000 psi. Open well for immediate flowback to force close. Flow 100/0 psi in 5 min, RD Stinger & SDFN.
- 10-21-93 TIH with Miller 'C' retrieving head, 1 jt tbg, SN, 126 jts 2-7/8", 6.5#, J-55, EUE 8rd tbg (workstring) & tag fill at 3943'. RU to wash out fill 3943-4195'. RU to swab, swab 4 hrs, IFL at surf, FFL at 700', rec'd 174 bbl of KCl wtr with light gas cut fluid, made 11 runs total. TIH with 5 jts, tag fill at 4195', no gain at this time. POOH with 5 jts & SDFN.
- 10-22-93 Tag fill at 4190', wash out to 4200'. POOH with 2 -7/8" tbg. RU HES & run post-frac tracer scan log 4182-3930'. WIH with Miller 5.5" model 'C' retrieving head on 2-7/8" tbg, tag fill at 4198'. RU to swab, swab 1 run, rec'd 66 BW, IFL at 1200', FFL at 800'. SDFN.
- 10-23-93 Open well to steel pit, well flowing thru open end 2" line, heavy gas cut fluids, rec'd 14 BW. WIH with 2-7/8" tbg & tag fill at 4195', well started flowing again, rec'd 2 bbl. Swab from SN at 4155', IFL at 500', FFL at 1500', made 1 run, rec'd 22 bbl of heavy gas cut fluid. RD swab equip & wash 4195-4210'. Engage Miller 5.5", 17# model 'C' RBP with retrieving head, POOH with same & SDFN.
- 10-24-93 Prep to clean out 5.5" csg with hydraulic bailer & SDFN.
- 10-25-93 RIH w/Miller Hydrostatic bailer on 2-7/8" workstring and clean out w/bailer from 4530'-4545' (15'). POOH w/tbg and bailer; rec frac sd, coal and several 7/8" sealer balls - bailer plugged w/balls. WIH w/4-3/4" RR bit on 2-7/8" workstring; tagged fill @ 4545', pumped 150 bbls of filtered 10 Mic 1% KCl H2O down csg. SDFN.

WELL HISTORY

Shimmin Trust No. 4
Castlegate Area
Carbon County, Utah
(PG&ER Operated)

- 10-26-93 Ran PC pump stator & No-Turn tool on 2-7/8" IC prod tbg, TS at 4514'. ND BOP's, NU wellhead & SDFN.
- 10-27-93 Ran model 200 rotor on 1" scraped Norris 7/8" rods, space out rods, RU KUDU drive head & SDFN.
- 10-28-93 Work finished as of 10-27. FINAL REPORT.

DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Shimmin Trust

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 11, T12S-R10E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
PG&E Resources Company

3. ADDRESS OF OPERATOR
6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. LOCATION OF (Report location clearly and in accordance with any State requirements)*
At surface 540' FSL & 1950' FWL SE/4 SW/4
At top prod. interval reported below Same
At total depth Same

14. API NO. 43-007-30123 DATE ISSUED 06/13/90
12. COUNTY Carbon 13. STATE Utah

15. DATE SPURRED 07/17/90 16. DATE T.D. REACHED 09/12/90 17. DATE COMPL. (Ready to prod., or Plug & Abd.) 10/27/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7413' RKB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4630' 21. PLUG, BACK T.D., MD & TVD 4579' 22. IF MULTIPLE COMPL., HOW MANY DV Tool 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD) 4062' - 4309' Blackhawk 4385' - 4485' Kenilworth 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN HRSD/DIGL/SDDSN/MICRO/ACCOUSTIC CBL 27. WAS WELL CORED YES NO (Submit analysis) DRILL STEM TEST YES NO (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	627'	12-1/4"	450sx Premium w/additives	0
5-1/2"	17#	4630'	7-7/8"	320sx 50/50 Poz w/additives	0
		DV Tool		310sx Silica Lite	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	4515'	NA

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT

INTERVAL	SIZE	HOLES	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4062' - 4181'	0.43"	20 Holes	See Attached	
4225' - 4309'		84 Holes		
4385' - 4485'		128 Holes		

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) Model 200 Progressive Cavity Pump WELL STATUS (Producing or shut-in) Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR OIL--BBL. TEST PERIOD	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.) Well shut-in waiting on connection to central processing facility 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 Cindy Keister TITLE Sr. Regulatory Analyst DATE 11/30/1993

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevations are required by Utah Rules should be attached and submitted with this report.

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) 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:		38. GEOLOGIC MARKERS			
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.		Description, contents, etc.	Name	Top	
				Meas. Depth	True Vert. Depth
Blackhawk	3582'	Natural gas & water.	Price Riber ss	2832'	
Kenilworth	4309'	Natural gas & water.	Castlegate ss	3274'	
			Blackhawk	3582'	
			Kenilworth ss	4309'	
			Aberdeen ss	4510'	

Depth Interval (MD)

Amount and Kind of Material Used

4,062' - 4,181'

966 gals 15% FE Acid
61,000 gals XL CMHEC gel w/37,120#
100 mesh sd + 72,720# 16/30 mesh sd +
23,360# 16/30 curable resin coated sand.

4,225' - 4,485'

143,000 gals filtered water w/gel breaker +
8000 gals 7-1/2% FE Acid + 300 ball sealers.

4,225' - 4,309'

97,180 gals gel w/30,000# 40/70 sd + 50,000#
20/40 sd.

4,385' - 4,431'

15,000# 40/70 sd + 16,500# 20/40 sd.

4,475' - 4,485'

74,060 gals gel w/17,800# 20/40 sd.

November 30, 1993



State of Utah Dept. of Natural Resources
Division of Oil, Gas & Mining
355 West Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84186

RE: Shimmin Trust No. 4
Section 11, T12S-R10E
Carbon County, Utah

Gentlemen:

Attached is the following information in triplicate as required for completion of the referenced well:

1. Form 8 "Well Completion or Recompletion Report and Log"
2. Form 9 "Sundry Notices and Reports on Wells" (Subsequent Report)
3. Daily well history.

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

Very truly yours,

Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Regulatory File
Central Files

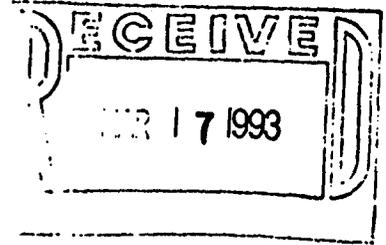


State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

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



March 12, 1993

PG&E Resources Company
6688 North Central Expressway
Dallas Texas 75206

Gentlemen:

Re: Conversion of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 wells located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, to Water Disposal Wells

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced wells to Class II injection wells is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted applications.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

R.J. Firth
Associate Director, Oil and Gas

cc: BLM, Price
R.J. Firth
WUI229

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

6. Lease Designation and Serial Number
Fee

7. Indian Allottee or Tribe Name

NA

8. Unit or Communization Agreement

NA

9. Well Name and Number
Shimmin Trust No. 4

10. API Well Number
43-007-30123

11. Field and Pool, or Wildcat
Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well

Oil Well Gas Well Other (Specify)

2. Name of Operator

PG&E Resources Company

3. Address of Operator

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

4. Telephone Number

(214) 750-3800

5. Location of Well

Footage : 540' FSL & 1950' FWL

County : Carbon

QQ. Sec, T., R., M. : SE/4 SW/4 Section 11, T12S-R10E

State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other NTL-2B
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit in Duplicate)

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

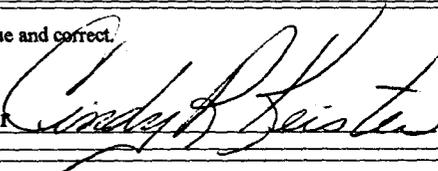
Date of Work Completion _____

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.

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

PG&E Resources Company requests approval to dispose of produced water from the referenced well into off-lease injection well(s) located in Section 10 and 11 of T12S-R10E, Carbon County, Utah. The produced water will flow via a gathering line to a central processing facility (CPF) where it will be consolidated with other produced water from the field prior to entering the injection header for disposal into one of the four injection wells. A copy of the State of Utah, UIC Permit is included for your review.

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

Name & Signature Cindy R. Keister  Title Sr. Regulatory Analyst Date 12/20/1993

(State Use Only)

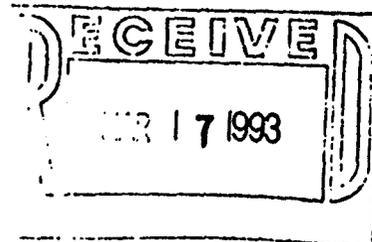


State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

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



March 12, 1993

PG&E Resources Company
6688 North Central Expressway
Dallas Texas 75206

Gentlemen:

Re: Conversion of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 wells located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, to Water Disposal Wells

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced wells to Class II injection wells is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted applications.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

R.J. Firth
Associate Director, Oil and Gas

cc: BLM, Price
R.J. Firth
WUI229

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

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name NA
8. Unit or Communization Agreement NA
9. Well Name and Number Shimmin Trust No. 4
10. API Well Number 43-007-30123
11. Field and Pool, or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (Specify)
2. Name of Operator PG&E Resources Company
3. Address of Operator 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206
4. Telephone Number (214) 750-3800
5. Location of Well Footage : 540' FSL & 1950' FWL QQ. Sec, T., R., M. : SE/4 SW/4 Section 11, T12S-R10E County : Carbon State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit in Duplicate)

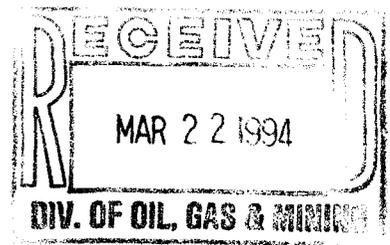
<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input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

Date of Work Completion 03/07/1994

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

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

PG&E Resources Company turned the referenced well into the gas sales line March 7, 1994. The Shimmin Trust No. 4 is producing at an estimated rate of 70 MCFD & 457 BWPD on pump.

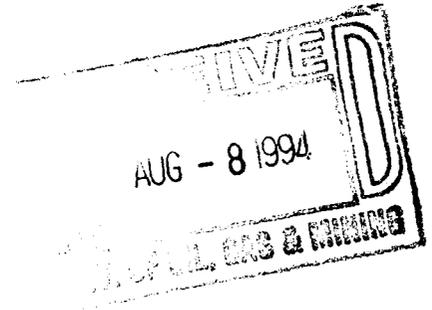


14. I hereby certify that the foregoing is true and correct.

Name & Signature Cindy R. Keister *Cindy R. Keister* Title Sr. Regulatory Analyst Date 03/14/1994

(State Use Only)

August 2, 1994



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

ATTENTION: Lisha Cordova

RE: Change of Operator
Castlegate Wells
Carbon County, Utah

Dear Lisha:

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

- 1) Copies of 8 BLM Sundry Notices (Form 3160-5)
- 2) Originals of 21 Utah Sundry Notices (Form 9)
- 3) Originals of 4 Transfers of Authority to Inject (UIC Form 5)

If additional information is needed in this regard, please contact the undersigned or Mr. L. Steve Hamilton with Anadarko at (405) 475-7000.

Sincerely,

Rejanna Barrow
Sr. Proration Analyst
(214) 750-3120

Enclosures (33)

cc: Mr. L. Steve Hamilton
Anadarko Petroleum Corporation
Oklahoma City, OK

Note: Please furnish both Operators a copy of the approved Sundry.

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

Form 9

6. Lease Designation and Serial Number FEE
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number Shinmin Trust No. 4
10. API Well Number 43-007-30123
11. Field and Pool, or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well
 Oil Well Gas Well Other (specify)

2. Name of Operator
Anadarko Petroleum Corporation

3. Address of Operator 9400 N. Broadway - Suite 700
Oklahoma City, OK 73114

4. Telephone Number
(405) 475-7000

5. Location of Well
Footage : 540' FSL & 1950' FWL
OO, Sec. T., R., M. : SE/4 SW/4, Sec. 11, T12S, R10E
County : Carbon
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

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

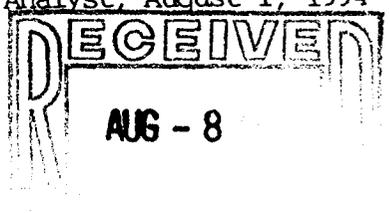
Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Statewide Blanket Bond #224351

PG&E Resources Company hereby agrees to the foregoing transfer.

By: *Ryehna Berrow* Sr. Proration Analyst, August 1, 1994

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
DATE: Aug. 11, 1994
BY: Lisha Cordova



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

Name & Signature *Steve Hamilton* Title Division Admin. Mgr. Date 8/1/94
(State Use Only)



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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

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

August 19, 1994

Ms. Rejhna Barrow
PG & E Resources Company
6688 N. Central Expressway #1000
Dallas, Texas 75206-3922

Re: Notification of Sale or Transfer of Fee Lease Interest - Carbon County, Utah

Dear Ms. Barrow:

The division has received notification of a change of operator from PG & E Resources Company to Anadarko Petroleum Corporation for the following wells which are located on fee leases.

Jensen 7-15	Section 15, T.12S., R.10E	API No. 43-007-30165
Shimmin Trust 11-11	Section 11, T.12S., R.10E.	API No. 43-007-30166
Jensen 16-9	Section 9, T.12S., R.10E.	API No. 43-007-30163
Shimmin Trust 12-12	Section 12, T.12S., R.10E.	API No. 43-007-30168
Jensen 11-15	Section 15, T.12S., R.10E.	API No. 43-007-30175
Shimmin Trust 14-12	Section 12, T.12S., R.10E.	API No. 43-007-30169
Shimmin Trust 10-11	Section 11, T.12S., R.10E.	API No. 43-007-30167
Shimmin Trust 3	Section 14, T.12S., R.10E.	API No. 43-007-30119
Shimmin Trust 1	Section 11, T.12S., R.10E.	API No. 43-007-30120
Shimmin Trust 2	Section 14, T.12S., R.10E.	API No. 43-007-30121
Shimmin Trust 5	Section 14, T.12S., R.10E.	API No. 43-007-30122
Shimmin Trust 4	Section 11, T.12S., R.10E.	API No. 43-007-30123
Jensen 16-10	Section 10, T.12S., R.10E.	API No. 43-007-30161
Jensen 9-10	Section 10, T.12S., R.10E.	API No. 43-007-30159
Jensen 11-10	Section 10, T.12S., R.10E.	API No. 43-007-30164
Jensen 5-10	Section 10, T.12S., R.10E.	API No. 43-007-30162

Rule R.649-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease (working interest or royalty interest), when all or part of that interest in the lease is sold or transferred.



Page 2
Ms. Rejahna Barrow
August 19, 1994

This letter is written to advise PG & E Resources Company of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than September 9, 1994.

Sincerely,



Don Staley
Administrative Manager
Oil and Gas

ldc
cc: R.J. Firth
WOI201

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1 LEC	✓
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.

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-01-94)

TO (new operator)	<u>ANADARKO PETROLEUM CORP.</u>	FROM (former operator)	<u>PG&E RESOURCES COMPANY</u>
(address)	<u>9400 N BROADWAY STE 700</u>	(address)	<u>6688 N CENTRAL EXP #1000</u>
	<u>OKLAHOMA CITY OK 73114-7403</u>		<u>DALLAS TX 75206-3922</u>
	<u>L. STEVE HAMILTON, MGR</u>		<u>REJAHNA BARROW</u>
phone (<u>405</u>)	<u>475-7000</u>	phone (<u>214</u>)	<u>750-3922</u>
account no.	<u>N 0035</u>	account no.	<u>N0595</u>

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

Name: **SEE ATTACHMENT**	API: <u>007-30123</u>	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: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 8-8-94)*
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-8-94)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 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.
- LWP 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *8-15-94*
- LWP 6. Cardex file has been updated for each well listed above. *8-12-94*
- LWP 7. Well file labels have been updated for each well listed above. *8-12-94*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(8-11-94)*
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

- Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. Surety # 224351 / \$80,000 "Seaboard Surety Company"
2. A copy of this form has been placed in the new and former operators' bond files.
- Lee 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date Aug. 8, 1994. If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- OTS 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 8/19 1994, 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. by 9/8/94
- OTS 2. Copies of documents have been sent to State Lands for changes involving State leases. 8/18/94 to Ed Bonner

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: August 23 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

940809 Trust Lands / Ed Bonner (state 2-16 & 9-16/ml-444437 Anadarko bonding in place.
* Federal Lease wells on separate chg. This change Fee, state, WDW only.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

PRODUCTION DEPT
 PG&E RESOURCES COMPANY
 6688 N CENTRAL EXP #1000
 DALLAS TX 75206-3922

UTAH ACCOUNT NUMBER: N0595

REPORT PERIOD (MONTH/YEAR): 6 / 94

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
FEDERAL 13-33-B								
4301331277	11092	08S 16E 33	GRRV					
SHIMMIN TRUST #3								
4300730119	11096	12S 10E 14 ✓	MVRD					
SHIMMIN TRUST #1								
4300730120	11096	12S 10E 11 ✓	MVRD					
SHIMMIN TRUST #2								
4300730121	11096	12S 10E 14 ✓	MVRD					
SHIMMIN TRUST #5								
4300730122	11096	12S 10E 14 ✓	MVRD					
SHIMMIN TRUST #4								
4300730123	11096	12S 10E 11 ✓	MVRD					
FEDERAL 22-5-G								
4301331273	11103	09S 16E 5	GRRV					
FEDERAL 13-34-B								
4301331271	11104	08S 16E 34	GRRV					
FEDERAL 21-4-G								
4301331272	11107	09S 16E 4	GRRV					
FEDERAL 6-8								
4300730140	11272	12S 10E 8	MVDCL					
STATE 5-36B								
4304732224	11363	09S 19E 36	WSTC					
STATE 9-36A								
4304732225	11364	09S 18E 36	GRRV					
FEDERAL 13-26B								
4304732237	11370	09S 19E 26	WSTC					
TOTALS								

- FEE
- FEE
- FEE
- FEE
- FEE
- FEE

- 10065948

COMMENTS: * Fed. Lease wells, separate change.

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____
 Name and Signature: _____ Telephone Number: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number

Fee

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

8. Well Name and Number:
Shimmin Trust #4

2. Name of Operator
Anadarko Petroleum Corporation

9. API Well Number:
43-007-30123

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

10. Field and Pool, or Wildcat
Castlegate

4. Location of Well
Footages: SE SW 540' FSL & 1950' FWL County: Carbon
QQ.Sec., T., R., M.: Sec. 11 T12S-R10E State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date work will start Early Spring

SUBSEQUENT REPORT
(Submit Original Form Only)

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

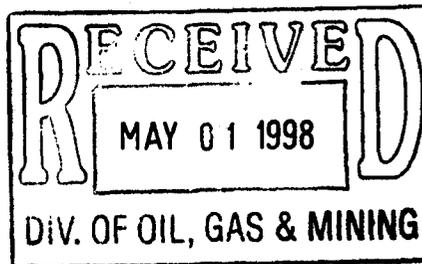
Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Please see attached "Well Diagram" for all wellbore information and geological markers.



13. Name & Signature Shad Frazier Title Production Engineer Date 02/17/98

(This space for State use only)

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

DATE: 5-17-98
BY: John R. Bay (See Instructions on Reverse Side)



Petroleum Corporation

Plugging Procedure

**Shimmin Trust #4
Sec. 11-T12S-R10E 540' FSL & 1950' FWL
Carbon County, Utah**

**AFE: 501501
WI: 100%
API # 43-007-30123**

Purpose: Plug and Abandon Castlegate field

**Surf: 8-5/8", 24# K-55
Prod: 5-1/2", 17# N-80 (Drift = 4.767")**

**Wireline: Halliburton, Vernal 801-789-2550
Cementing: Halliburton, Vernal 801-789-2550**

Procedure:

1. RDWH, NUBOP, BD casing pressure. MIRUWL. TIH W/ GR/JB to 4560. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 4040(Do not set in collars). RDWL and move to next location.
2. MIRU Coiled Tubing equipment and cement unit
3. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 4040.
4. POH to bottom of surface casing @ 627 and spot a 50 ft. plug.
5. Pull up hole to within 50 ft of surface and spot 50 ft plug.
6. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NDBOP.
7. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

* all displacement fluid will contain non-corrosive fluid.

Prepared: Shad Frazier 4/29/98

Approved: JMR

Castlegate plugging.doc

cc: Steve Pearson
Alan O'Donnell
Kendall Madden
Shad Frazier
Tom Rushing
WF - Shimmin Trust #4, Carbon County, Utah

SHIMMIN TRUST #4

SE SW 540' FSL & 1950' FWL: SEC 11 T12S-R10E
API NO. 43-007-30123

SPUD RIG OFF
SURFACE 07/17/1990 07/22/1990
PRODUCTION 08/29/1990 09/15/1990

7398 GL # KB 7413

WELL WORK HISTORY

12-1/4" Hole
8-5/8" 23# WC50
w/475 sxs cmt
TOC @ Surface

DV Tool
w/310 sxs cmt

TA

(Holes) Perforations

(38) 4062 - 4181
(12) 4225 - 4228
(20) 4244 - 4249
(40) 4275 - 4285
(4) 4296 - 4298
(4) 4307 - 4309
(3) 4310 - 4322
(8) 4385 - 4387
(20) 4408 - 4413
(8) 4418 - 4420
(20) 4426 - 4431
(60) 4475 - 4494
(7) 4518 - 4544

(244) Total Holes

SN

EOT

FILL

7-7/8" Hole
5-1/2", 17# WC70
w/320 sxs cmt

TD 4630

627

3553

3972

10/11/1990 F/4475-4485 w/37M GAL, 18M# 20/40, SCR OUT
10/18/1990 F/4385-4431 w/47M GAL, 15 M# 40/70, 17M# 20/40, SCR OUT
11/01/1990 F/4225-4305 w/97M GAL, 30M# 40/70, 50M# 20/40
10/20/1993 F/4062-4181 w/54M GAL XL CMHEC, 37M# 100
MESH, 73M# 16/30, 23M# 16/30 RC
03/24/1994 FLUSHED RTR & STATOR 3 TIMES THRU 3/31
04/28/1994 FISH FOR TBG, CO SCALE 4527-4542'
06/11/1994 PRD RODS, RUN FILTER, TFF 4506 & CO 4539
06/29/1994 HOLE IN TBG (THREADS), NEW STATOR
08/23/1994 REMOVE PLGD FILTER, TFF 4505 & CO 4532
10/04/1994 REPLACE ROTOR & 32 RODS
11/03/1994 RUN 2-1/2" ROD PMP, TFF 4532 & CO TO 4571
04/01/1995 PRD RODS; SCALE ON TBG; CO 4500-4579'
09/20/1995 PRD RODS, PERF SANDS & COALS, ACIDIZE.
01/31/1996 STUCK PLUNGER; CO 4543-4579 PRD ROD @ 1000'
03/01/1996 PRD RODS @ 2375, 2150, & 2425' IN MARCH
04/30/1996 PRD ROD @ 1850'; REPLACE ALL 3/4" RODS
08/16/1996 BTM JT SANDED UP; NO SCALE
10/16/1996 CO ROD PUMP AND 6 RODS
01/04/1997 PARTED ROD @ 375'; CO 37 RODS
03/05/1997 SPLIT JT @ 4350'; CO ROD PUMP; TFF @ 4548'
04/08/1997 PARTED ROD @ 225'; CO 37 RODS
06/24/1997 Rod Part fix
07/06/1997 Rod Part and TA'd

NOTES: TIGHT SPOT @ 4550

TUBING BREAKDOWN

2-7/8"	JTS
TA	
2-7/8"	JTS
3-1/2"	JTS
SN	
TAG BAR	
2-7/8"	JTS
NC	
EOT	

ROD BREAKDOWN

PONIES	
1"	
7/8"	
3/4"	
1"	
1.5"	
PUMP	

DEVIATION ANGLE

DEPTH	ANGLE	DEVIATION
4470	525	0.8
	1050	1
4502	1586	1.3
	2103	1.3
	2630	1.5
4548	3003	1.8
	3637	3
4579	4015	3.8
4630	4620	5

FORMATION

FORMATION	TOP
PRICE RIVER	2832
CASTLEGATE	3274
BLACKHAWK	3582
KENILWORTH	4309
ABERDEEN	4510
SPRING CANYON	

LAST REVISED: 04/30/1998

Utah Division of Oil, Gas and Mining

Attachment to **Sundry Notice and Report on Wells**
dated February 17, 1998.

Subject: Request of Anadarko Petroleum Corporation for
permission to plug and abandon the Shimmin Trust # 4

NW/NE, sec. 11, T12S R10E, Carbon, County
API = 43-007-30123

Conditions of Approval:

1. An additional 100 foot plug will be centered across the top of the Price River disposal zone.

REGION North America	NWA/COUNTRY RANWA	BDA / STATE UTAH	COUNTY Wasatch
MBU ID / EMP # UFO108 01986	EMPLOYEE NAME CARL W PARRACK	PSL DEPARTMENT 5001	
LOCATION 055685	COMPANY Anadarko	CUSTOMER REP / PHONE Richard Dietz	
TICKET AMOUNT	WELL TYPE 02	AP / UWI # 43-007-30123	
WELL LOCATION Castle Gate	DEPARTMENT 5001	JOB PURPOSE CODE 115	
LEASE / WELL # Shimmin Trust #4	SEC / TWP / RNG S-11 T-12S R-10E		

| HES EMP NAME/EMP#(EXPOSURE HOURS) HRS |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| C Parrack 01986 10 | Swebb J3202 10 | | |
| B Allied J0582 10 | | | |

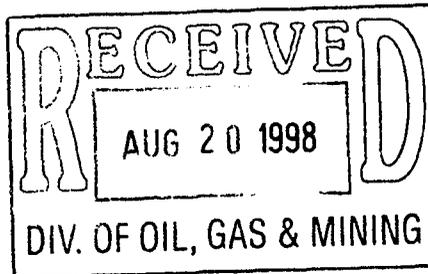
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	13:00							on location
	13:15							Safety meeting with all personal on location
	13:30							Coil Tubing start in hole
	13:32	1.2	0			2050		start to fill hole with H ₂ O
	14:28	1.2	65			3500		circulate
	14:34	1	0			2500		start cement @ 15.6" 1.18 ft ³ 5.2 gals
		1	2					End
	14:56	1	0			2580		start poz @ 9" 2.7 ft ³ 5.4 gals
		1	24					End
	15:00	1	0			2600		start cement @ 15.6" 1.18 ft ³ 5.2 gals 2% CAOL
		1	2.5					End
	15:03	.5	0			200		start Displace with H ₂ O
	15:07	.5	2			50		slow rate to
	15:08	.25	6			2000		
	15:20	1	10			100		Change Rate shut down POOL for night back to Tag 6-20
6-20	7:00							on location
	7:15							Safety with all on location
	7:30							Coil Tubing start in hole to Tag
	7:50	.5	0			145		Start Fresh
		.5	1			500		circulate
	8:14	.5	7			1000		End Fresh
	8:20	1	0			2500		start poz @ 9" 2.7 ft ³ 5.4 gals
	9:10	1	50			2700		End
	9:10	1	0			2700		start cement @ 15.6" 1.18 ft ³ 5.2 gals
	9:11	1	1.5			2700		End
	9:11	.5	0					start poz @ 9" 2.7 ft ³ 5.4 gals
	9:21		5					shut down to unplug boost pump
	9:44	.5				1400		Resume poz
	10:00	.5	13					End
	10:10	.5	0			1200		start cement @ 15.6" 1.18 ft ³ 5.2 gals
	10:11	.5	2.5					End
	10:01	.5	0			1100		start to Displace with H ₂ O
	10:11	.5	5					End
Hi Fall	11:15	.5	0			1300		start cement @ 15.6" 1.18 ft ³ 5.2 gals
	11:22	.5	3.5					End
	11:22	.5	0			1225		start Displace
	11:32	.5	5					End

Thank you



August 13, 1998

State of Utah
 Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 P.O. Box 145801
 Salt Lake City, Utah 84414-5801



Re: State Form 9
 Castlegate Field
 Carbon County, Utah

Gentlemen:

Please find enclosed, Sundry Notices and Reports on Wells (Form 9) outlining the plugging and abandoning procedures performed for the following wells:

SHIMMIN TRUST 1 fr SGW to PA	JENSEN 11-15 fr SGW to PA
SHIMMIN TRUST 2 " " " "	JENSEN 16-9 " " " "
SHIMMIN TRUST 3 " " " "	JENSEN 16-10 " " " "
SHIMMIN TRUST 4 " " " "	FEDERAL 4-13 fr SGW to PA
SHIMMIN TRUST 5 " " " "	FEDERAL 4-15 " " " "
SHIMMIN TRUST 10-11 fr WDW to PA	FEDERAL 6-8 " " " "
SHIMMIN TRUST 11-11 fr SGW to PA	FEDERAL 7-9 " " " "
SHIMMIN TRUST 12-12 " " " "	FEDERAL 14-13 " " " "
SHIMMIN TRUST 14-12 " " " "	FEDERAL 14-14 " " " "
JENSEN 5-10 fr SGW to PA	FEDERAL 16-14 " " " "
JENSEN 7-15 " " " "	FEDERAL 16-15 " " " "
JENSEN 9-10 " " " "	STATE 2-16 fr SGW to PA
JENSEN 11-10 " " " "	STATE 9-16 " " " "

Should you have any questions or require additional information, please contact me at (281) 873-1276.

Best regards,

ANADARKO PETROLEUM CORPORATION

Gail A. Rupert
 Gail A. Rupert
 Engineering Technician

Enclosures

cc: Bureau of Land Management Moab District Office P.O. Box 970 Moab, Utah 84532	Bureau of Land Management Price River Resources Area 900 North, 700 East Price, Utah 84501	GAR SMF TRC - Well File
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Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

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

4/1/2013

FROM: (Old Operator): N0035-Anadarko Petroleum Corporation PO Box 173779 Denver, CO, 80214 Phone: 1 (720) 929-6000	TO: (New Operator): N3940- Anadarko E&P Onshore LLC PO Box 173779 Denver, CO 802014 Phone: 1 (720) 929-6000
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CA No.			Unit:				WELL NAME	SEC	TWN	RNG	API NO	ENTITY	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List															

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/8/2013</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

Effective 4/1/13

Please contact the undersigned if there are any questions.

RECEIVED
APR 09 2013

Jaime Scharnowske
Jaime Scharnowske
Regulatory Analyst

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

DIV. OF OIL, GAS & MINING
Jaime Scharnowske
Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC **N3940**
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) <u>Jaime Scharnowske</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u>Jaime Scharnowske</u>	DATE <u>4/8/2013</u>

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

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

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

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

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

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

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

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

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

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

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

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

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

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