

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

(Other instructions on reverse side)

5. Lease Designation and Serial No.

U-47876

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Cave Canyon Federal

9. Well No.

#3-3

10. Field and Pool, or Wildcat

Wildcat Undesignated

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

Sec. 3, T38S - R24E

12. County or Parrish 13. State

San Juan Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL [X]

DEEPEN []

PLUG BACK []

b. Type of Well

Oil Well [X]

Gas Well []

Other []

Single Zone [X]

Multiple Zone []

2. Name of Operator 303/759-3303

1777 S. Harrison St., PH 1

Raymond T. Duncan

Denver, CO 80210

3. Address of Operator 303/322-7878

P.O. Box 44065

Permitco Inc. - Agent

Denver, CO 80201-4065

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

At surface

2635' FNL and 1390' FWL

At proposed prod. zone

SE NW

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

12.5 miles northwest of Hatch Trading Post

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

5'

16. No. of acres in lease

1289.44

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.

1200' approx.

19. Proposed depth

6080' Akah

20. Rotary or cable tools

Rotary

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

5242' GR

22. Approx. date work will start*

Immediately upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM of this application

Table with 5 columns: Size of Hole, Size of Casing, Weight per Foot, Setting Depth, Quantity of Cement. Rows include 17-1/2" hole with 13-3/8" casing, 12-1/4" hole with 8-5/8" casing, and 7-7/8" hole with 5-1/2" casing.

Raymond T. Duncan proposes to drill a well to 6080' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

We realize that the above location has been staked at non-standard footages in accordance with the spacing rules of the State of Utah, Div. of Oil, Gas & Mining. However, this location was chosen based on seismic data and topography. We request that you grant approval of this exception to spacing. Raymond T. Duncan is the lessee of all of Sections 3 & 4, T38S - R24E.

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. Consultant for Raymond T. Duncan. Signature: [Signature], Title: Consultant for Raymond T. Duncan, Date: 4/29/88

(This space for Federal or State office use)

Permit No. 43-037-31413 APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

Approval Date

RECEIVED MAY 2 1988

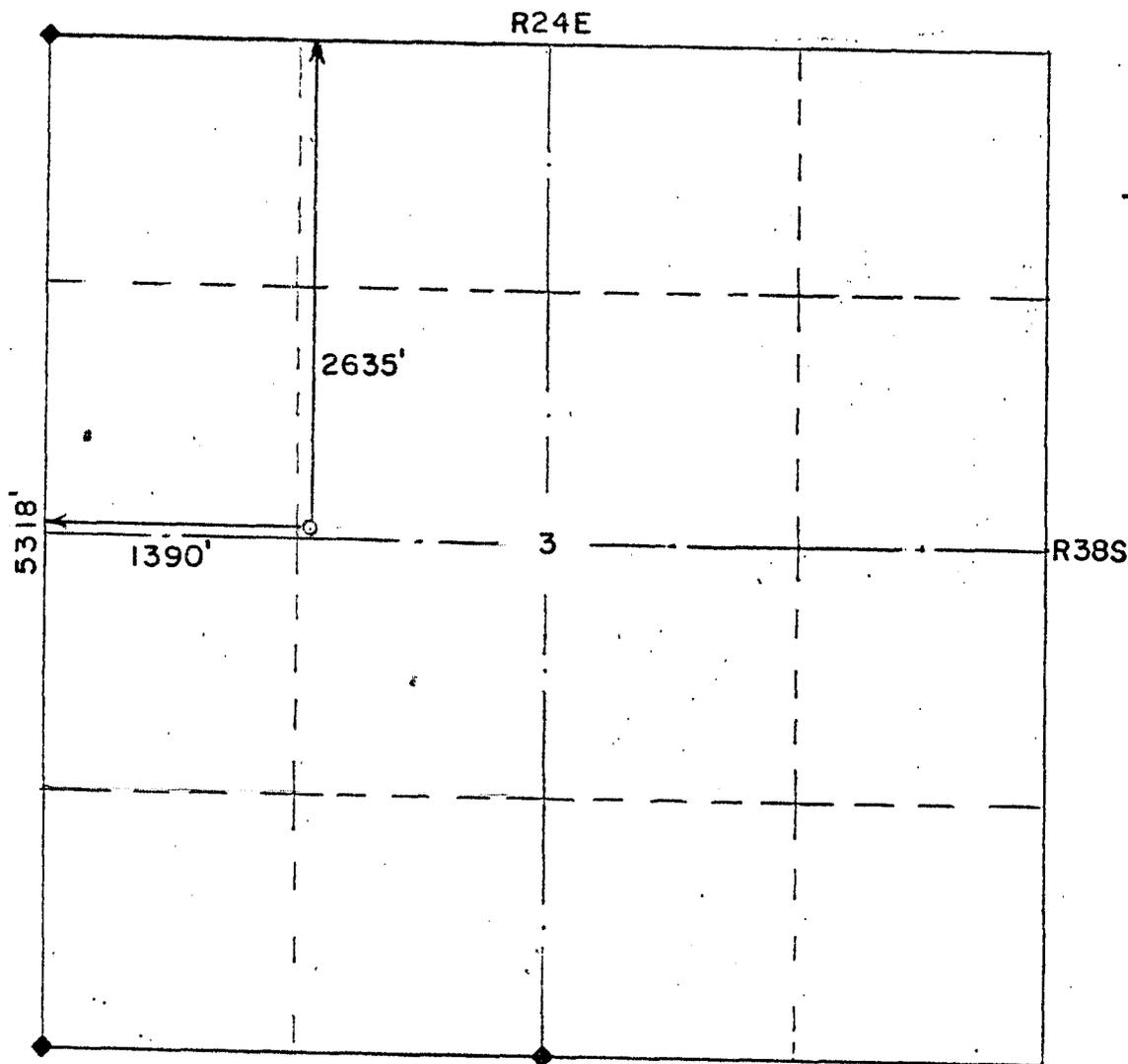
Approved by: [Signature] Title: [Signature] Conditions of approval, if any:

DIVISION OF OIL, GAS & MINING

DATE: 5-4-88 BY: [Signature] WELL SPACING: R/15-3-3

See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:
 R.T. Duncan, Cave Canyon #3-3
 2635'FNL & 1390'FWL
 Section 3, T.38 S., R.24 E., SLM
 San Juan County, Utah
 5242' ground elevation
 Alternate: 2450'FSL & 1150'FWL, 5273' grd.

The above plat is true and correct to my knowledge and belief.

26 April 1988

REGISTERED LAND
 No. 5700
 HUDDLESTON
Gerald S. Huddleston
 Gerald S. Huddleston, LS

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

CAVE CANYON FEDERAL #3-3
2635' FNL and 1390' FWL
Section 3, T38S - R24E
San Juan County, Utah

Prepared For:

RAYMOND T. DUNCAN

By:

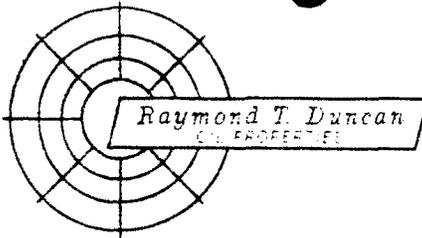
PERMITCO INC.
P.O. Box 44065
Denver, Colorado 80201-4065
303/322-7878

Copies Sent To:

- 4 - BLM - Moab, Utah
- 1 - BLM - Monticello, Utah
- 1 - Div. of Oil, Gas & Mining - SLC, Utah
- 3 - Raymond T. Duncan - Denver, CO



Permitco
A Petroleum Permitting Company



1777 SOUTH HARRISON STREET - PENTHOUSE ONE
TELEPHONE (303) 759-3303 - DENVER, COLORADO 80210

April 18, 1988

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

Re: Cave Canyon No. 4-3
Lease U-47876
1400' FNL & 200' FEL
SE NE Sec, 4-38S-24E
San Juan Co., UT

Cave Canyon No. 3-3
Lease U-47876
1150' FWL & 2450' FSL
NW SW Sec. 3-38S-24E
San Juan Co., UT

Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of Raymond T. Duncan when necessary for filing County, State, and Federal permits including Onshore Order No. 1, Right-of-Way applications, etc., for the above captioned wells.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production, or compliance with regulations.

Raymond T. Duncan agrees to accept full responsibility for operations conducted in order to drill, complete, and produce the above captioned wells.

Very truly yours,
RAYMOND T. DUNCAN

W.S. Fallin
Production Manager

WSF:nr

ONSHORE ORDER NO.
Raymond T. Duncan
Cave Canyon Federal 3-3
2635' FNL and 1390' FWL
Section 3, T38S - R24E
San Juan County, Utah

CONFIDENTIAL-TIGHT HOLE

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

1. The surface formation and estimated formation tops to be encountered are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Dakota	Surface	
Hermosa Group	4711'	+ 598'
Ismay	5675'	- 366'
Upper Ismay Porosity	5709'	- 400'
Lower Ismay	5881'	- 572'
Gothic Shale	5927'	- 618'
Desert Creek	5955'	- 646'
Lower Desert Creek Por.	6010'	- 701'
Chimney Rock Shale	6029'	- 720'
Akah	6053'	- 744'
T.D.	6080'	- 771'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Oil	Ismay	5675'
Oil	Desert Creek	5955'

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.



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ONSHORE ORDER NO.
 Raymond T. Duncan
 Cave Canyon Federal 3-3
 2635' FNL and 1390' FWL
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CONFIDENTIAL-TIGHT HOLE

DRILLING PROGRAM

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. a. Casing

The proposed casing program is as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Conductor	0-100'	17-1/2"	13-3/8"	48#			New
Surface	0-1900'	12-1/4"	8-5/8"	24#	K-55	ST&C	New
Produc.	0-6080'	7-7/8"	5-1/2"	15.5#	K-55	LT&C	New

- b. Cement

The cementing program will be as follows:

<u>Conductor</u> 0-100'	<u>Type and Amount</u> Sufficient to circulate to surface
<u>Surface</u> 0-1900'	<u>Type and Amount</u> 1100 sx or sufficient to circulate to surface.
<u>Production</u>	<u>Type and Amount</u> 400 sx or - sufficient to cover zones of interest.

Anticipated cement tops will be reported as to depth, not the expected number of sacks.

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CONFIDENTIAL-TIGHT HOLE

DRILLING PROGRAM

c. Auxiliary Equipment will be as follows:

1. Kelly cock.
2. Float above the bit.
3. A sub with a full opening valve will be on the floor when the kelly is not in use.

5. Drilling fluid will be as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-4400'	Natural	9.0-9.2	35	10-20	---
4400-T.D.	Chem. Gel	9.5-12.0	45	10 thru pays	

Monitoring of the system will be done visually.

6. Coring, logging and testing programs are as follows:

- a. No cores are anticipated.
- b. The logging program will consist of the following: A Dual Induction will be run from 1900' to T.D. A BHC Acoustic and BHC Density/CNL will be run from 4500' to T.D.
- c. No drill stem tests are anticipated.

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.



Permitco Incorporated
A Petroleum Permitting Company

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Cave Canyon Federal 3-3
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San Juan County, Utah

CONFIDENTIAL-TIGHT HOLE

DRILLING PROGRAM

7. Abnormal conditions, bottom hole pressures and potential hazards.
 - a. The maximum bottom hole pressure to be expected is 2500 psi.

8. Anticipated Starting Dates and Notifications of Operations
 - a. Raymond T. Duncan plans to spud the Cave Canyon Federal #4-3 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached T.D.
 - b. Written notification in the form of a Sundry Notice will be submitted to the Div. of Oil, Gas & Mining within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.
 - c. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Div. of Oil, Gas & Mining.
 - d. Should the well be successfully completed for production, the Div. of Oil, Gas & Mining will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.
 - e. A "Subsequent Report of Abandonment" will be filed with the Div. of Oil, Gas & Mining within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the surface owner.

ONSHORE ORDER NO.
Raymond T. Duncan
Cave Canyon Federal 3-3
2635' FNL and 1390' FWL
Section 3, T38S - R24E
San Juan County, Utah

CONFIDENTIAL-TIGHT HOLE

DRILLING PROGRAM

- f. Approval to vent/flare gas during initial well evaluation will be obtained from the Div. of Natural Resources - State of Utah, Moab. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require approval from the Div. of Natural Resources.
- g. Upon completion of approved plugging, a regulation marker will be erected. The marker will be constructed as follows: Above ground pipe. The top of the marker will be closed or capped.
- h. The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

"Well number, location by 1/4 1/4, section, township and range". "Lease number".



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WELL NAME: _____

LOCATION : _____

9-5/8" Drilling Nipple / " 7 "Circulating Line

B.O.P. Bld Rams 10 "x 3000 W.P.

B.O.P. D.P. Rams 10 "x 3000 W.P.

Not Required

Hyd. Valve - " - - W.P. (Omit)

Check Valve 2 "x 3000 W.P.

Valve 2 " 3000 W.P.

Valve 2 " 3000 W.P.

Valve 2 " 3000 W.P.

2 "Line

MANIFOLD LINE

3000 W.P.

(See Exhibit "B")

KILL LINE MANIFOLD

Spool 10 "x 3000 W.P.

Ground Level

WELL HEAD B.O.P.

3000 #W.P.

Hydraulic

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SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located 12.5 miles northwest of Hatch Trading Post.
- b. Directions to the location from Hatch Trading Post are as follows:

Go north and west on the Perkins Road #206 for 9.2 miles to the intersection of the Montezuma Creek Road. Continue west on the Perkins Road #206 for 2.7 miles. Turn north onto the existing lease road and proceed northerly for approximately 1800 feet. Turn left and proceed approximately 50 feet to the location.
- c. The roads in the area are primarily county roads. See Map #1.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.

2. Planned Access Roads

- a. There will be approximately 50 feet new access. This access was flagged at the time of staking.
- b. The maximum total disturbed width will be 30 feet.
- c. The grade will be 5% or less.
- d. No turnouts will be necessary. No additional drainage will be necessary during drilling operations.

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SURFACE USE PLAN

2. Planned Access Roads (cont.)
 - e. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the surface owner.
 - f. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #2).
 - a. Water Wells - none
 - b. Injection or disposal wells - none
 - c. Producing Wells - four
 - d. Drilling Wells - none

4. Location of Tank Batteries and Production Facilities.
 - a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be neutral to blend in with the terrain.
 - b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank.

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SURFACE USE PLAN

4. Production Facilities (cont.)

- c. If the well is productive, the production facilities will be located at a central tank battery located at the Cave Canyon #3-2 in the NE SW Section 3, T38S - R24E, San Juan County, Utah.
- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- f. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the State of Utah - Natural Resources Office, Moab, Utah.
- g. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- h. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from a private source.
- b. Water will be trucked to location over the county roads in the area.

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2635' FNL and 1390' FWL
Section 3, T38S - R24E
San Juan County, Utah

SURFACE USE PLAN

5. Type and Source of Water Supply (cont.)
 - c. No water well is to be drilled on this lease.
 - d. Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, in Price, Utah, 801/637-1303.
 - e. Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material
 - a. Road surfacing material will be obtained from a commercial source. Pad construction material will be native.
 - b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. Methods for Handling Waste Disposal
 - a. The reserve pit will not be lined unless porous material is encountered. At least half the capacity will be in cut.
 - b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
 - c. All trash will be contained in a trash cage. If burning is required, a permit will be obtained from the State Fire Warden, 801/587-2237. This permit is required for burning from May 1 through October 31.
 - d. Produced waste water will be confined to a unlined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for approval.



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2635' FNL and 1390' FWL
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San Juan County, Utah

SURFACE USE PLAN

8. Ancillary Facilities

- a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. See Diagram #1 for rig layout. See Diagram #2 for cross section of drill pad. See Diagram #3 for cuts and fills.
- b. The location of mud tanks; reserve, trash cage; pipe racks; living facilities and soil stockpiles will be shown on Diagram #1 and #3. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 6 inches of soil material will be removed from the location and stockpiled between the pit and pad.
- d. Access to the well pad will be from the existing access leading to the #3-1 location.

10. Reclamation

- a. Immediately upon completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production.
- b. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- c. All disturbed areas will be recontoured to approximate natural contours.
- d. Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface. The location and access road will be ripped 6 inches deep with the rips 18 inches apart.

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SURFACE USE PLAN

10. Reclamation of Surface (cont.)

- e. Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, the seed mixture will be increased by 50% and a harrow or some other implement will be dragged over the seeded area to assure seed coverage. Seeding will be done between October 1 and February 28.
- f. The following seed mixture will be used:

<u>Species</u>	<u>Lbs./acre</u>
Crested Wheatgrass	6
Fourwing Saltbush	2
Yellow Sweetclover	1/2

- h. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed.

11. a. Surface Ownership

Bureau of Land Management

b. Mineral Ownership

Bureau of Land Management

12. Other Information

- a. Due to a deer wintering range stipulation, there will be no drilling on this lease between December 1st and March 1st.
- b. There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used.
- c. "Sundry Notice and Report on Wells" will be filed for approval for all changes of plans and other operations.
- d. The dirt contractor will be provided with an approved copy of the surface use plan.



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San Juan County, Utah

SURFACE USE PLAN

12. Other Information (cont.)

- e. All persons in the area who are associated with the project will be informed by the operator that they will be subject to prosecution for disturbing archaeological sites or collecting artifacts. If subsurface cultural material is exposed during construction, work at that spot will stop immediately and the BLM, San Juan Resource Area Office will be contacted (801/587-2141.) The operator will be responsible for the cost of evaluation of the discovery and proper mitigation measures. Any decision as to proper mitigation shall be made by the authorized officer after consulting with the operator.
- f. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- g. An archeological study was conducted by LaPlata Archeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report will be submitted directly by LaPlata Archeological Consultants.

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

Permit Matters

PERMITCO INC.
Lisa L. Green
P.O. Box 44065
Denver, CO 80201-4065
303/322-7878

Drilling & Completion Matters

RAYMOND T. DUNCAN
1777 S. Harrison St.
Penthouse One
Denver, CO 80210
303/759-3303 (W) -
303/733-3604 (H) - John Bettridge

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Raymond T. Duncan and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.



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A Petroleum Permitting Company

ONSHORE ORDER NO.
Raymond T. Duncan
Cave Canyon Federal 3-3
2635' FNL and 1390' FWL
Section 3, T38S - R24E
San Juan County, Utah

SURFACE USE PLAN

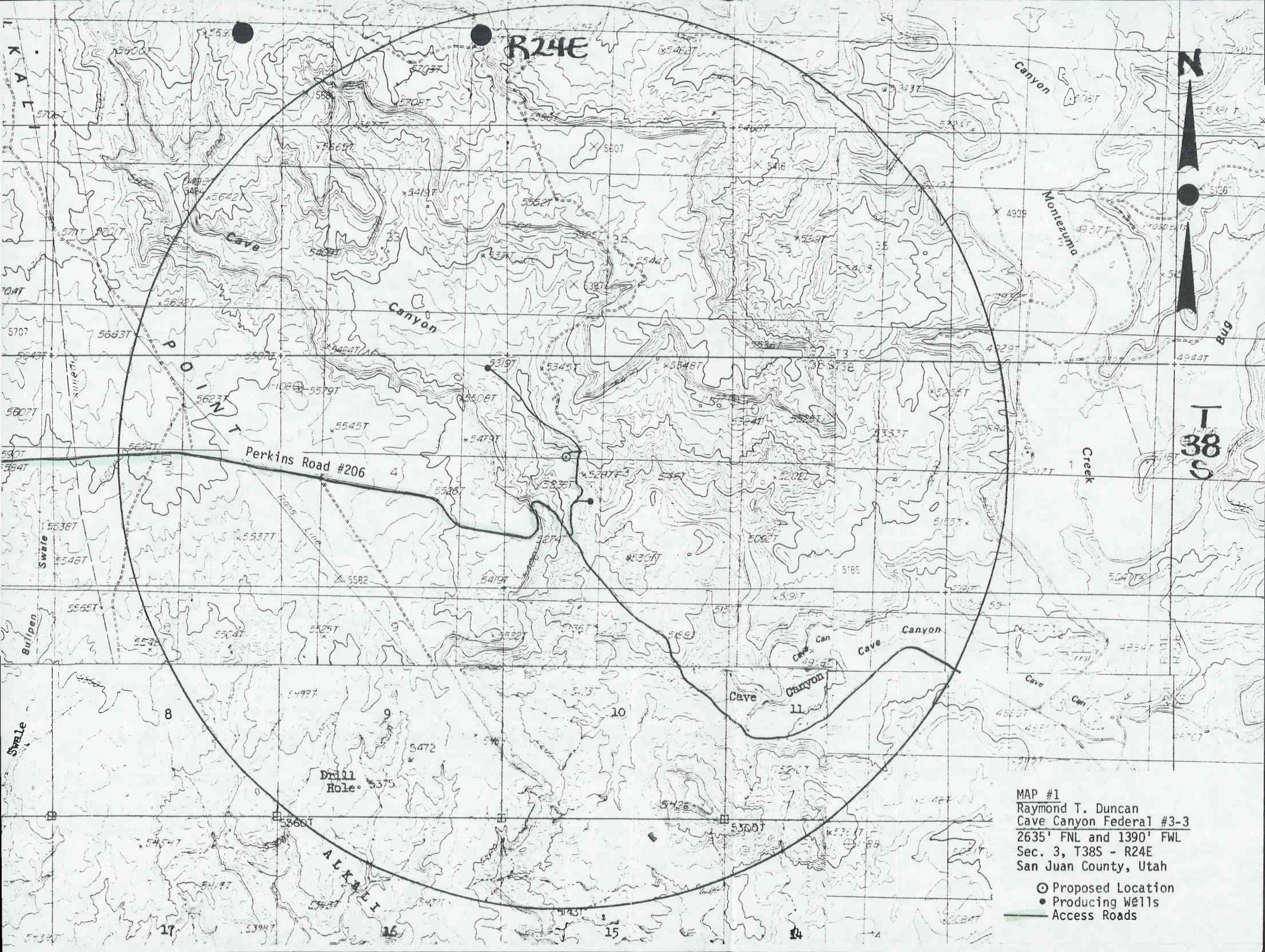
13. Certification (cont.)

This statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

April 29, 1988
Date:



Lisa L. Green - PERMITCO INC.
Authorized Agent for:
RAYMOND T. DUNCAN



R24E

T
38
S

Perkins Road #206

MAP #1
Raymond T. Duncan
Cave Canyon Federal #3-3
2635' FNL and 1390' FWL
Sec. 3, T38S - R24E
San Juan County, Utah

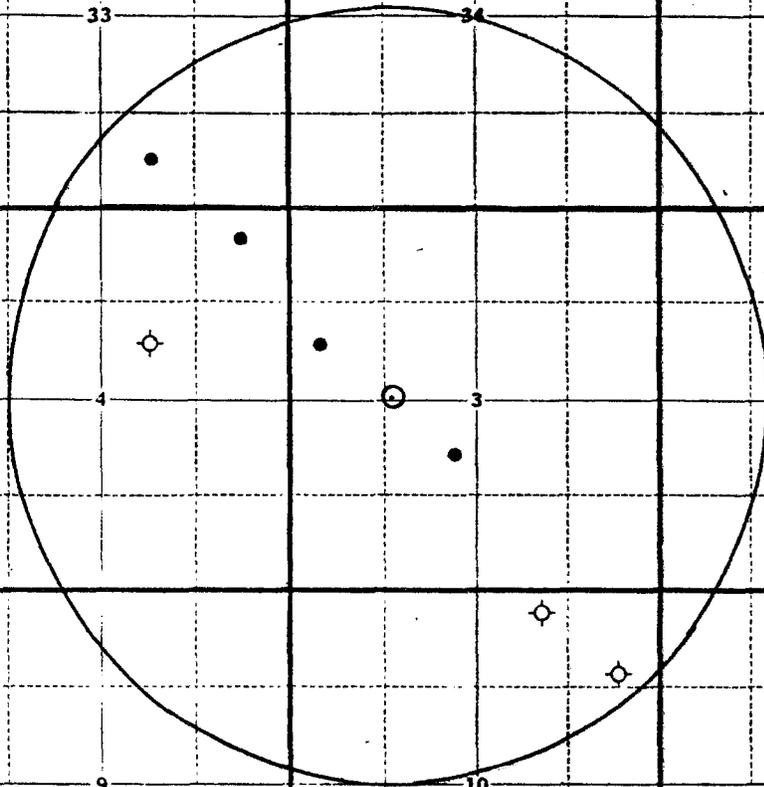
- ⊙ Proposed Location
- Producing Wells
- Access Roads

R24E

N



T
38
S



MAP #2
Raymond T. Duncan
Cave Canyon Federal #3-3
2635' FNL and 1390' FWL
Sec. 3, T38S - R24E
San Juan County, Utah

- Proposed Location
- Producing Wells
- ◇ Dry Holes

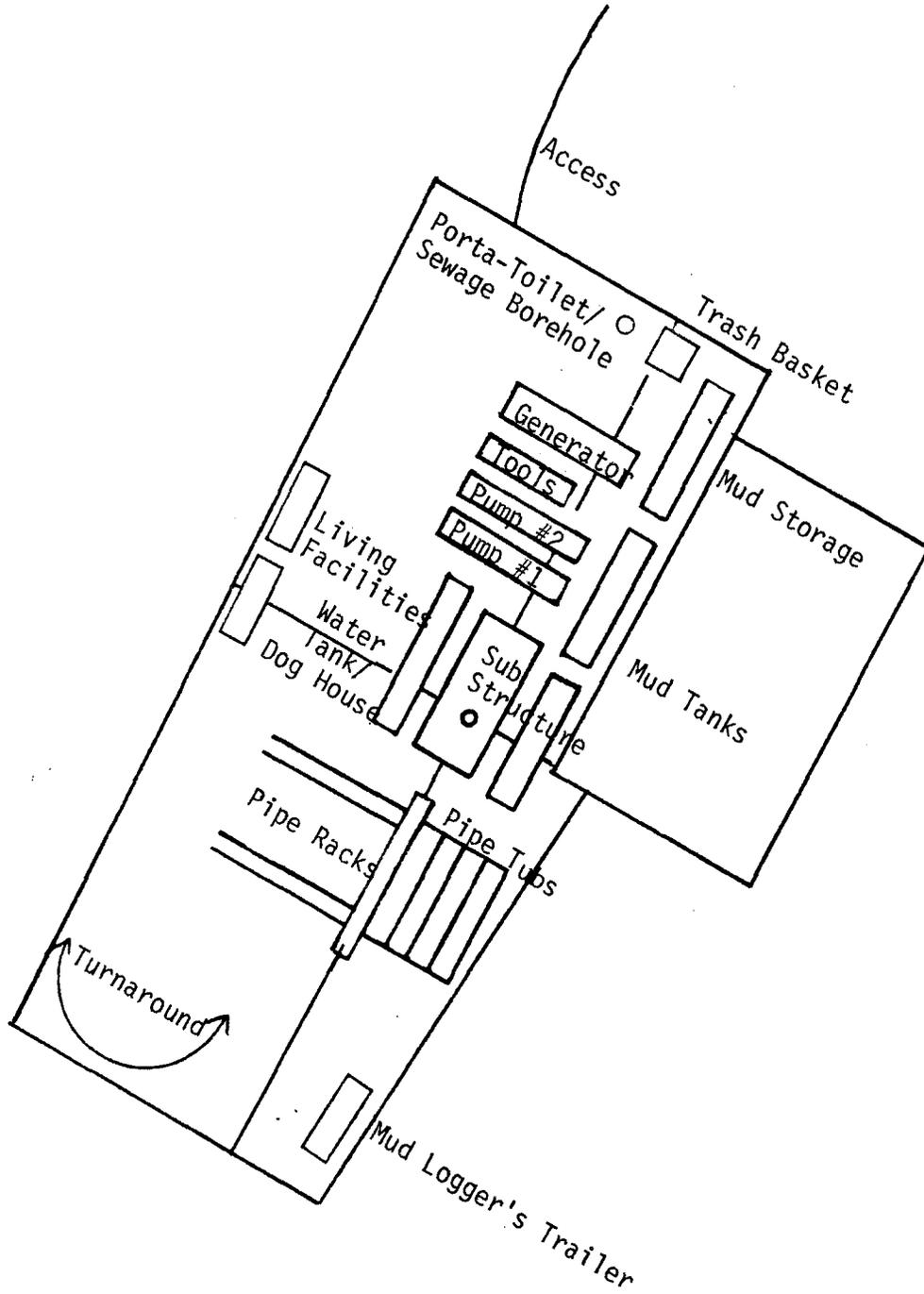
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Scale: 1" = 60'

DIAGRAM #1
Rig Layout

Raymond T. Duncan
Cave Canyon Federal #3-3
2635' FNL and 1390' FWL
Sec. 3, T38S - R24E
San Juan County, Utah



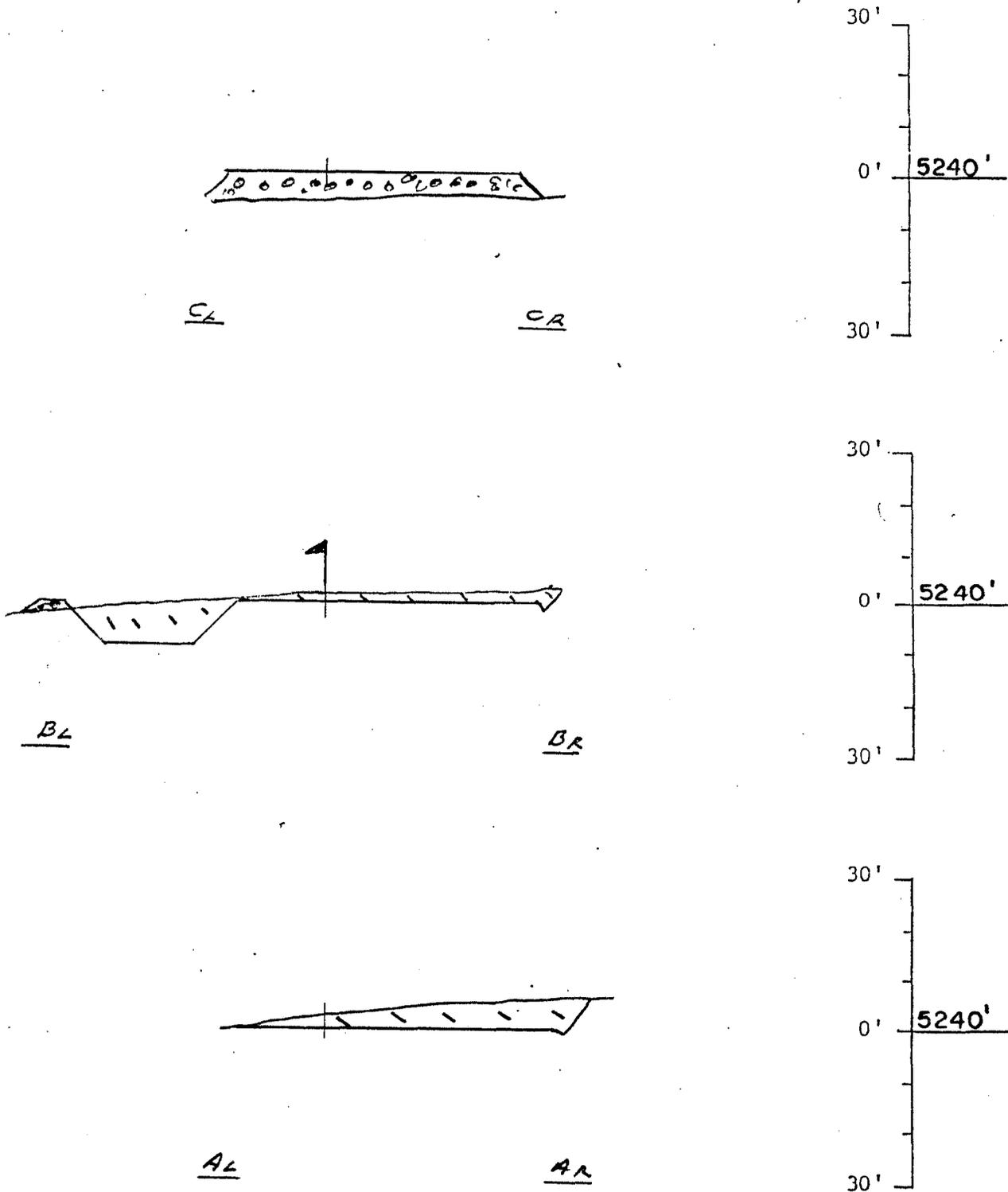
WELL PAD CROSS-SECTION

Cave Canyon 3-3

2635' FNL and 1390' FWL
Sec. 3, T38S - R24E
San Juan County, Utah

Cut // // //
Fill 

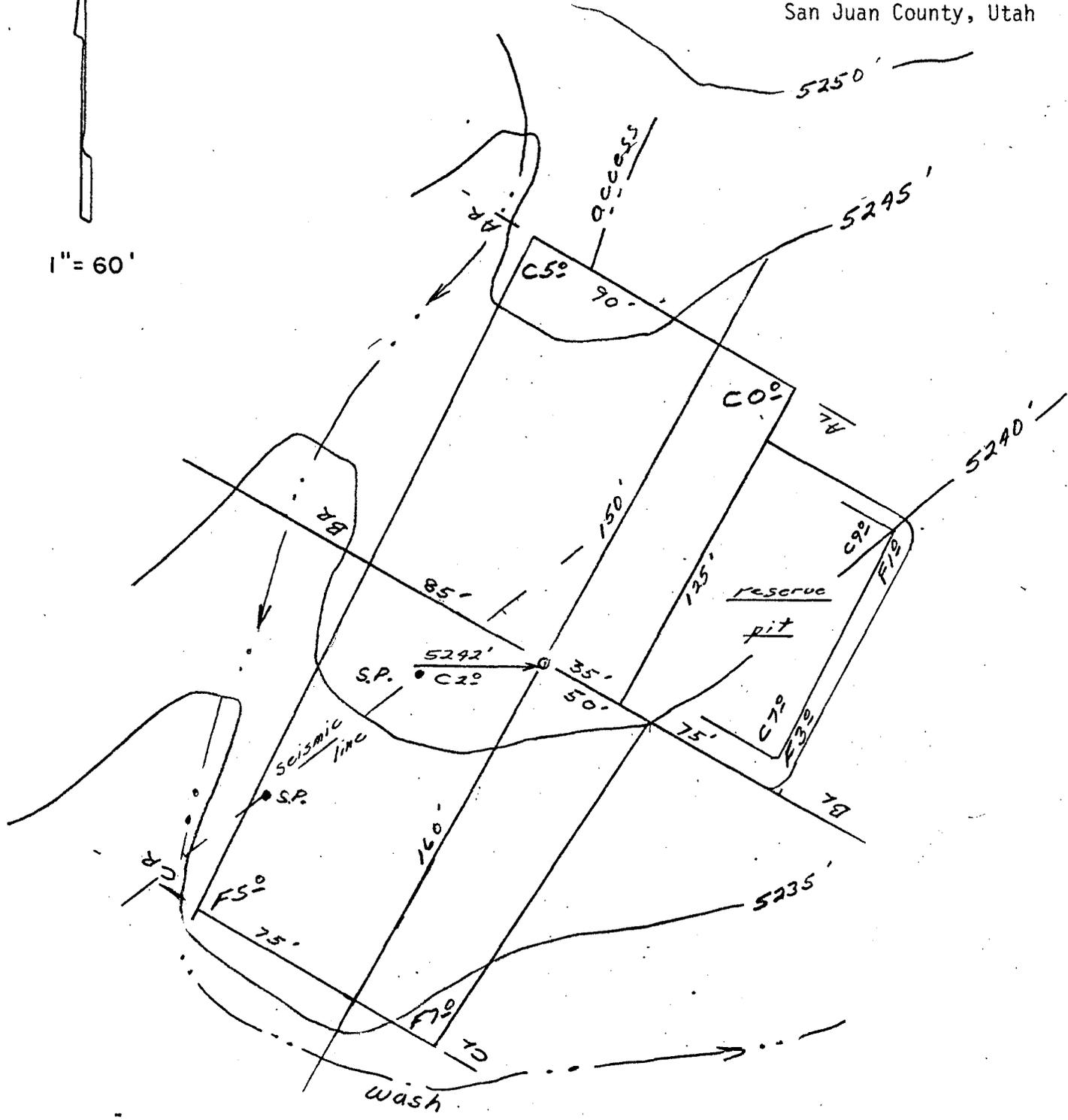
Scales: 1" = 60' H.
1" = 30' V.



WELL PAD PLAN VIEW

Well Cave Canyon 3-3

Raymond T. Duncan
2635' FNL and 1390' FWL
Sec. 3, T38S - R24E
San Juan County, Utah



Review of APDS

① CAVE CANYON Fed 4-3

T38S, R24E, sec 4 San Juan County Utah.

13³/₈" casing at 100'

8⁵/₈" casing at 1900'

7⁷/₈ casing at 6110

Dakota - surface.

Hermosa Group 4737'

Ismany 5689'

} Estimated Tops

② CAVE CANYON Fed 3-3

T38S, R24E sec 3 San Juan County

13³/₈ 100'

8⁵/₈ 1900

5¹/₂ 6080

Dakota

surface

Hermosa Group

4711

Ismany

5675

} Estimated

— note The Raymond Duncan Well in
T38S R24E sec 4

GL 5330 Federal # 1 set 8⁵/₈ at 2500 ft

The 3-2, and 3-1 well in

T38S R24E sec 3

both set 8⁵/₈ at 1900 feet

It appears that Chino comes in at
approx - 1900 - 2000 — according to a Log from
38S. 24E sec 16.

APD review (cont)

3.

Quintana Petroleum
Caballo Federal 3-7
T36S. R23E Sec 9
9 5/8 set at 2235
5 1/2 set at 6837

Chinle	2235	} Estimated Tps.
Shinarump	2898	
Hermosa	5110	

Casing Programs appear to be sufficient
to protect all important water bearing sands.

reviewed by D. Jesus
3/4/88

CONFIDENTIAL

OPERATOR Raymond T. Duncan DATE 5-2-88

WELL NAME Cave Canyon Fed. 3-3

SEC SE NW 3 T 38S R 24E COUNTY San Juan

43-037-31413
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> PLAT | <input checked="" type="checkbox"/> BOND | <input checked="" type="checkbox"/> NEAREST WELL |
| <input checked="" type="checkbox"/> LEASE | <input checked="" type="checkbox"/> FIELD | <input checked="" type="checkbox"/> POTASH OR OIL SHALE |

PROCESSING COMMENTS:

wells within 920' are operated by Raymond T. Duncan
need water permit
exception location requested

APPROVAL LETTER:

SPACING: R615-2-3 _____ UNIT _____ R615-3-2
 _____ CAUSE NO. & DATE _____ R615-3-3

STIPULATIONS:

1- need water permit

CONFIDENTIAL
PERIOD
EXPIRED
ON 10-2-89



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 4, 1988

Raymond T. Duncan
c/o Permitco Inc.
P. O. Box 44065
Denver, Colorado 80201-4065

Gentlemen:

Re: Cave Canyon Federal 3-3 - SE NW Sec. 3, T. 38S, R. 24E
2635' FNL, 1390' FWL - San Juan County, Utah

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

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

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

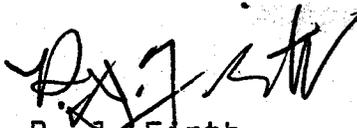
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
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 R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
Raymond T. Duncan
Cave Canyon Federal 3-3
May 4, 1988

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 43-037-31413.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

1r
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

Form 3160-3
(November 1983)
(formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAY 8 1 1988

PERMIT TO DRILL, DEEPEN OR PLUG BACK
(Other types of wells on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
U-47876

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cave Canyon Federal

9. WELL NO.
#3-3

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3, T38S - R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START
Rotary

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
Raymond T. Duncan

3. ADDRESS OF OPERATOR
Permitco Inc. - Agent

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
2635' FNL and 1390' FWL
At proposed prod. zone
SE NW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12.5 miles northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
5'

16. NO. OF ACRES IN LEASE
1289.44

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.
approx. 1200'

19. PROPOSED DEPTH
6080'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, ET, GR, etc.)
5242' GR

22. APPROX. DATE WORK WILL START
Rotary

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
--------------	----------------	-----------------	---------------	--------------------

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

24. SIGNED [Signature] TITLE Consultant for Raymond T. Duncan DATE 4/29/88

(This space for Federal or State office use)

PERMIT NO. 43-637-31413 APPROVAL DATE _____

APPROVED BY /s/ Gary L. Hansen TITLE ACTING [Signature] DATE MAY 26 1988

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

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

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

Docm

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

(Other instructions on reverse side)

5. Lease Designation and Serial No.

U-47876

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Cave Canyon Federal

9. Well No.

#3-3

10. Field and Pool, or Wildcat

Wildcat

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

Sec. 3, T38S - R24E

12. County or Parrish 13. State

San Juan 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 303/759-3303

1777 S. Harrison St., PH 1
Denver, CO 80210

3. Address of Operator 303/322-7878

P.O. Box 44065
Denver, CO 80201-4065

Permitco Inc. - Agent

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

At surface

2635' FNL and 1390' FWL

At proposed prod. zone

SE NW

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

12.5 miles northwest of Hatch Trading Post

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

5'

16. No. of acres in lease

1289.44

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.

1200' approx.

19. Proposed depth

6080'

20. Rotary or cable tools

Rotary

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

5242' GR

22. Approx. date work will start*

Immediately upon approval of this application

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8"	48#	100'	Suffic. to circ. to surface
12-1/4"	8-5/8"	24#	1900'	1100 sx or suffic to circ to surf.
7-7/8"	5-1/2"	15.5#	6080'	400 sx or suffic. to cover zones of interest.

Raymond T. Duncan proposes to drill a well to 6080' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

We realize that the above location has been staked at non-standard footages in accordance with the spacing rules of the State of Utah, Div. of Oil, Gas & Mining. However, this location was chosen based on seismic data and topography. We request that you grant approval of this exception to spacing. Raymond T. Duncan is the lessee of all of Sections 3 & 4, T38S - R24E.

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 Raymond T. Duncan Consultant for Raymond T. Duncan Title Date 4/29/88

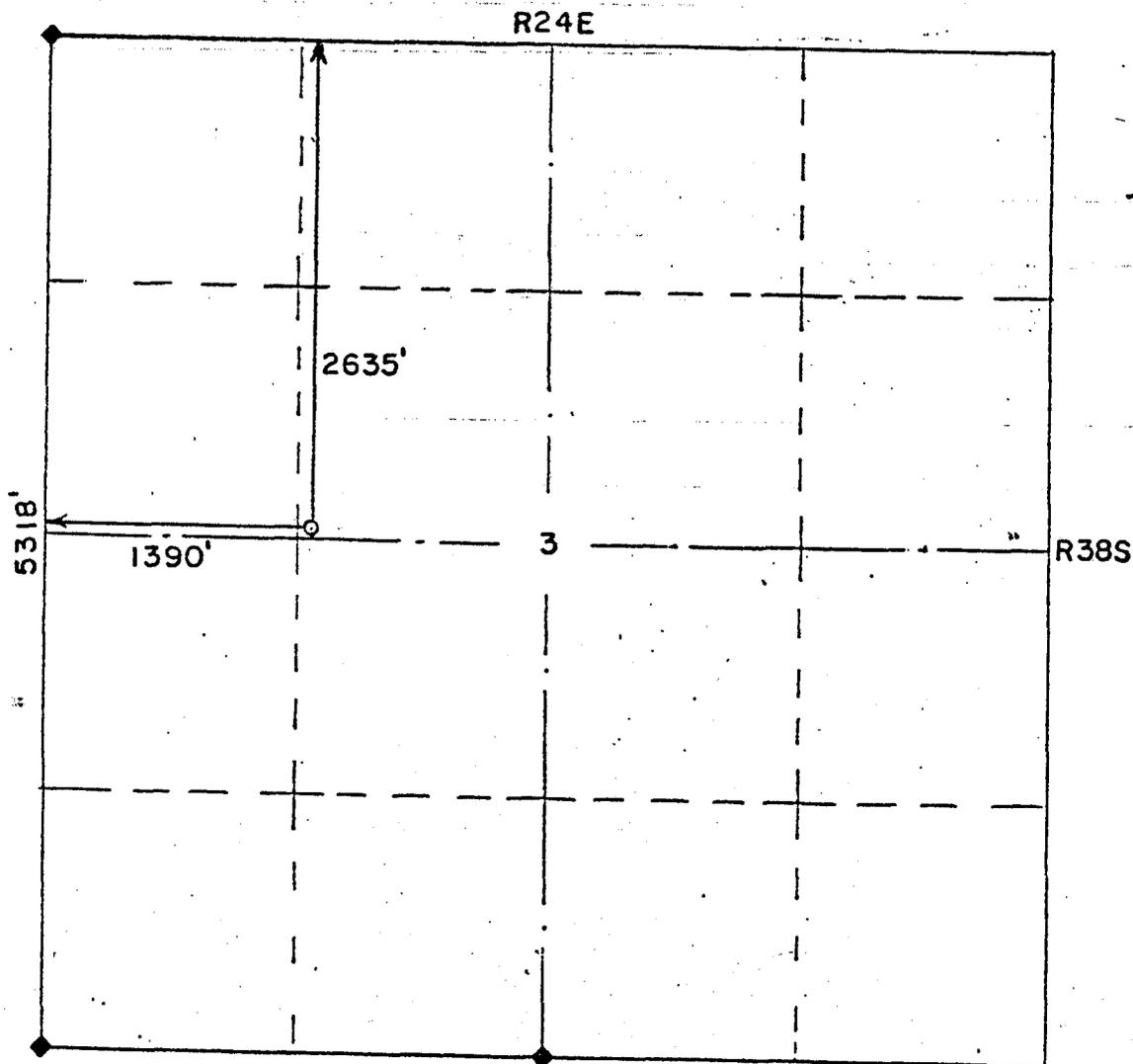
(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000
◆ b.c.

WELL LOCATION DESCRIPTION:
 R.T. Duncan, Cave Canyon #3-3
 2635'FNL & 1390'FWL
 Section 3, T.38 S., R.24 E., SLM
 San Juan County, Utah
 5242' ground elevation
 Alternate: 2450'FSL & 1150'FWL, 5273' grd.

The above plat is true and correct to my knowledge and belief.

26 April 1988

REGISTERED LAND
 No. 8701
 HUDDLESTON
Gerald S. Huddleston
 Gerald S. Huddleston, LS
 STATE OF UTAH

Raymond T. Duncan
Well No. Cave Canyon Federal 3-3
Sec. 3, T. 38 S., R. 24 E.
San Juan County, Utah
Lease U-47876

CONDITIONS OF APPROVAL

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

Raymond T. Duncan is the bonded entity on this application. Liability will remain with the bonded party named above until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

A. DRILLING PROGRAM

1. B.O.P. specifications and testing:
 - a) All ram-type preventers will be tested to the rated working pressure to the stack or to 70% of the internal yield of the casing, whichever is less.
 - b) Surface casing (8-5/8") shall be set at least 50' into the Chinle formation and cement circulated to surface.

B. THIRTEEN POINT SURFACE USE PLAN

1. All site security guidelines identified in 43 CFR 3162.7-4 regulations will be adhered to.
2. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
3. If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

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

1 day prior to spudding;

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

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

Dale Manchester, Petroleum Engineer Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

24 hours advance notice is required for all abandonments.

FILED FOR WATER IN THE STATE OF UTAH

CONFIDENTIAL

TEMPORARY

Rec. by 470
Fee Rec. 30
Receipt # 4163
Microfilmed
Roll #

APPLICATION TO APPROPRIATE WATER RIGHTS

MAY 2 1988
WATER RIGHTS
PRICE

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 of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

* WATER RIGHT NO. 09 - 1572 * APPLICATION NO. A T63217

1. *PRIORITY OF RIGHT: May 2, 1988 * FILING DATE: May 2, 1988

2. OWNER INFORMATION 303/322-7878
Name(s): Raymond T. Duncan c/o Permitco Inc. * Interest: 100 %
Address: P.O. Box 44065
City: Denver State: CO Zip Code: 80202
Is the land owned by the applicant? Yes No (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: XX cfs and/or 5 ac-ft

4. SOURCE: Artesian Well * DRAINAGE:
which is tributary to
which is tributary to
POINT(S) OF DIVERSION: COUNTY: San Juan
N 531' and E 1810' from West 1/4 of Section 1, T38S - R24E
(Permit No. 09-156) (Richard Gore)

Description of Diverting Works: Enclosed pump truck w/the capacity of 80-100 bbls.
* COMMON DESCRIPTION: 3 1/2 miles North of Hatch Trading Post Monument Canyon Qu

5. POINT(S) OF REDIVERSION
The water will be rediverted from N/A at a point:

Description of Rediverting Works: N/A

6. POINT(S) OF RETURN
The amount of water consumed will be cfs or 5 ac-ft
The amount of water returned will be cfs or 0 ac-ft
The water will be returned to the natural stream/source at a point(s): N/A

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

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

TEMPORARY

Appropriation

8. List any other water rights which will supplement this application: None that will be used by Raymond T. Duncan

9. NATURE AND PERIOD OF USE

Irrigation: From _____ to _____
Stockwatering: From _____ to _____
Domestic: From _____ to _____
Municipal: From _____ to _____
Mining: From _____ to _____
Power: From _____ to _____
Other: Oil & Gas Well Drlg. From 5/1/88 to 5/1/89 (for a period of 45 days during that period)

10. PURPOSE AND EXTENT OF USE

Irrigation: N/A acres. Sole supply of _____ acres.
Stockwatering (number and kind): N/A
Domestic: N/A Families and/or _____ Persons
Municipal (name): N/A
Mining: N/A Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: N/A Type: _____ Capacity: _____
Other (describe): Oil & Gas well drilling

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s):
Cave Canyon Fed. #4-3 - 1310' FNL and 200' FEL, Sec. 4, T38S - R24E, San Juan
Cave Canyon Fed. #3-3 - 2635' FNL and 1390' FWL, Sec. 3, T38S - R24E, San Juan
#4-3: S. 1310 ft. & W. 200 ft. from NE Cor. Sec. 4, T38S, R24E, SLB&M (NE 1/4).
#3-3: S. 2635 ft. & E. 1390 ft. from NW Cor. Sec. 3, T38S, R24E, SLB&M (SE 1/4 NW 1/4).
(4-3) 43-037-31414-Dr. Cont. (3-3) 43-037-31413-Dr. Cont.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary):
The surface at the drillsite is owned by the Bureau of Land Management, the minerals are owned by the Federal Government and the extraction rights to Federal Lease No. U-47876 are owned by Raymond T. Duncan

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

Lisa L. Green
Signature of Applicant(s)
Lisa L. Green - Authorized Agent for:
RAYMOND T. DUNCAN

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

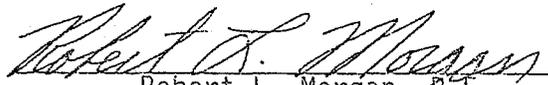
WATER RIGHT NUMBER: 09 - 1572

APPLICATION NO. T63217

1. May 2, 1988 Application received by MP.
 2. May 3, 1988 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated May 13, 1988, subject to prior rights and this application will expire on May 13, 1989.


Robert L. Morgan, P.E.
State Engineer

CONFIDENTIAL

WATER PERMIT OK

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31413

NAME OF COMPANY: RAYMOND T. DUNCAN

WELL NAME: CAVE CANYON FED. 3-3

SECTION SENW 3 TOWNSHIP 38S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR COLEMAN

RIG # 4

SPUDDED: DATE 6/14/88

TIME 3:30 a.m.

How ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY MARIE O'KEEFE

TELEPHONE # 303-759-3303

DATE 6/14/88 SIGNED _____ TAS

RECEIVED
JUN 16 1988

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Raymond T. Duncan

OPERATOR CODE N0360

ADDRESS 1777 S. Harrison St. PH-1

PHONE NO. 303, 759 3303

Denver, Co. 80210

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	09775		43-037-31413	Cave Canyon Federal 3-3	SENW	3	38S	24E	San Juan	6-14-88	
<p>COMMENTS: Federal lease other wells in sec. 3 producing out of Ismy formation entity 09775. Proposed zone - Akah Letter in suspense awaiting completion to see if zone is also Ismy. (6-17-88) JCR Not in a Unit Field - Undesignated</p>											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

- ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL
~~B - ADD NEW WELL TO EXISTING ENTITY~~
 C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
 D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
 E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

J. N. B. A. J.
 SIGNATURE
 Operations Superintendent 6/14/88
 TITLE DATE

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

SUBMIT IN TRIPLICATE
(Instructions on reverse side)

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug wells. Use "APPLICATION FOR PERMIT—" for such purposes.)

RECEIVED
JUN 16 1988

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Raymond T. Duncan

3. ADDRESS OF OPERATOR
1777 S. Harrison St. PH-1 Denver, Co. 80210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2635' FNL and 1390' FWL SENW

5. LEASE DESIGNATION AND SERIAL NO.
U-47876

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cave Canyon Federal

9. WELL NO.
3-3

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR ARRA
Sec 3, T38S R24E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

14. PERMIT NO.
43-037-31413

15. ELEVATIONS (Show whether of, to, or, etc.)
5240' GR, 5254' KB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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) _____ <input type="checkbox"/>	
(Other) Notification of Spud		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well was spud 6-14-88 at 3:30 A.M. with Coleman rig #4

CONFIDENTIAL

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TA5	
2-_____	
3-_____	

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

SIGNED *John A. Bettel* TITLE Operations Superintendent DATE June 14, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CORE ANALYSIS REPORT

for

Duncan Exploration Company

No. 3-3 Cave Canyon
Cave Canyon Field
San Juan County, Utah
File Number: 57121-8208

CONFIDENTIAL

RECEIVED
JUL 11 1988

DIVISION OF
OIL, GAS & MINING

These analyses, opinions, or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories (all errors and omissions excepted), but Core Laboratories and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas, or other mineral or sand in connection with which such report is used or relied upon.

CORE LABORATORIES

Company : Duncan Exploration Company
 Well : No. 3-3 Cave Canyon
 Location : SE NW Sec. 3 T38S R24E
 Co, State : San Juan, Utah

Field : Cave Canyon
 Formation : Paradox
 Coring Fluid : DISP
 Elevation : 5254 KB

File No.: 57121-8208
 Date : 24-Jun-1988
 API No. :
 Analysts: DS MW JS

CORE ANALYSIS RESULTS

API # 43-037-~~31095~~
 31413

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	FRACTURE TYPE	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md		OIL %	WATER %			
Core No.1 Upper Ismay Zone 5664.0-5722.0 Cut 58.0' Rec. 6.4'									
1	5664.0- 65.0	29.3	27.6	25.6	18.9	46.3	2.83		Dol brn f xln ool p.p.
2	5665.0- 66.0	28.7	28.4	25.7	13.6	41.6	2.82		Dol brn f xln ool p.p.
3	5666.0- 67.0	27.2	27.0	23.7	19.7	33.1	2.80		Dol brn f xln ool p.p.
4	5667.0- 68.0	7.53	6.86	18.0	19.5	28.3	2.81		Dol brn f xln ool p.p.
5	5668.0- 69.0	0.46	0.29	10.0	15.6	10.0	2.83		Dol brn f xln ool p.p.
6	5669.0- 70.0	0.21	0.30	5.9	19.2	31.8	2.85		Dol brn f xln ool p.p.
+ 7	5670.0- 70.4	<.01		5.1	9.3	10.3	2.76		Ls gry vf xln sl dol
	5670.4- 22.0								Core Loss
Core No.2 Upper Ismay Zone 5722.0-5777.0 Cut 55.0' Rec. 53.5'									
8	5722.0- 23.0	3.08	2.98	8.7	20.2	23.1	2.72		Ls gry brn f xln vug
9	5723.0- 24.0	3.81	2.23	8.3	12.7	29.1	2.75		Ls gry brn f xln vug
10	5724.0- 25.0	4.09	3.15	11.1	21.0	28.8	2.76		Ls gry brn f xln vug
11	5725.0- 26.0	9.47	7.43	11.3	19.2	20.0	2.70		Ls gry brn f xln vug
12	5726.0- 27.0	3.40	3.08	11.3	12.8	20.8	2.72		Ls gry brn f xln vug
13	5727.0- 28.0	7.02	4.71	12.2	20.3	34.8	2.71		Ls gry brn f xln vug
14	5728.0- 29.0	17.8	15.9	14.1	14.7	27.8	2.69		Ls gry brn f xln vug
15	5729.0- 30.0	127.	89.7	13.1	18.0	28.5	2.67		Ls gry brn f xln vug
16	5730.0- 31.0	3.99	3.69	7.7	8.9	32.0	2.70		Ls gry brn f xln vug
17	5731.0- 32.0	3.37	2.24	5.4	15.6	37.5	2.68		Ls gry brn f xln vug
18	5732.0- 33.0	9.40	9.13	23.0	23.9	43.7	2.77		Dol brn f xln sl calc
19	5733.0- 34.0	7.18	7.18	23.9	27.9	37.2	2.76		Dol brn f xln sl calc

CORE LABORATORIES

Company : Duncan Exploration Company
 Well : No. 3-3 Cave Canyon

Field : Cave Canyon
 Formation : Paradox

File No.: 57121-8208
 Date : 24-Jun-1988

C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	FRACTURE TYPE	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md		(PORE VOLUME) OIL %	WATER %			
20	5734.0- 35.0	0.24	0.23	14.4	28.8	29.9	2.73		Do1 brn f xln sl calc
21	5735.0- 36.0	2.23	2.10	18.6	32.3	19.0	2.78		Do1 brn f xln sl calc
22	5736.0- 37.0	0.05	0.04	2.1	12.2	38.9	2.74		Ls gry f xln vug
23	5737.0- 38.0	0.26	0.19	6.6	19.1	20.1	2.71		Ls gry f xln vug
24	5738.0- 39.0	4.39	3.34	18.3	16.4	26.9	2.79		Do1 brn f xln sl calc vug
25	5739.0- 40.0	2.33	1.67	9.6	14.8	17.7	2.75		Do1 brn f xln sl calc vug
26	5740.0- 41.0	15.4	8.07	17.2	18.5	13.2	2.77		Do1 brn f xln sl calc vug
27	5741.0- 42.0	5.10	2.61	8.4	12.2	17.4	2.72		Ls gry f xln vug
28	5742.0- 43.0	7.68	6.12	8.9	17.8	17.8	2.72		Ls gry f xln vug
29	5743.0- 44.0	115.	108.	10.9	13.6	27.2	2.71		Ls gry f xln vug
30	5744.0- 45.0	2352.	1980.	17.0	14.2	30.8	2.71		Ls gry f xln vug
31	5745.0- 46.0	41.3	12.6	8.8	12.3	41.1	2.71		Ls gry f xln vug
32	5746.0- 47.0	7604.	81.2	13.3	8.0	29.9	2.70		Ls gry f xln vug
33	5747.0- 48.0	25.2	16.0	11.6	14.9	39.8	2.71		Ls gry f xln vug
34	5748.0- 49.0	20.1	12.6	9.5	11.6	33.2	2.71		Ls gry f xln vug
35	5749.0- 50.0	8.20	4.27	7.2	13.1	35.0	2.72		Ls gry f xln vug
36	5750.0- 51.0	1.68	1.21	9.9	18.0	20.5	2.78		Ls gry f xln vug
37	5751.0- 52.0	2.09	1.34	4.9	15.2	30.4	2.70		Ls gry f xln vug
38	5752.0- 53.0	0.96	0.71	5.7	17.4	24.9	2.75		Ls gry f xln vug
39	5753.0- 54.0	1.61	1.25	7.2	14.8	17.0	2.73		Ls gry f xln vug
40	5754.0- 55.0	19.2	12.7	9.7	8.1	19.4	2.70		Ls gry f xln vug
41	5755.0- 56.0	0.12	0.10	4.9	8.5	13.6	2.74		Ls gry f xln vug
42	5756.0- 57.0	2.60	0.86	10.6	8.7	15.5	2.75		Ls gry f xln vug
43	5757.0- 58.0	0.81	0.69	5.9	18.6	14.6	2.72		Ls gry f xln vug
44	5758.0- 59.0	8.64	7.44	7.8	14.7	24.8	2.72		Ls gry f xln vug
45	5759.0- 60.0	17.0	9.74	9.3	13.8	42.0	2.70		Ls gry f xln vug
46	5760.0- 61.0	187.	168.	11.0	7.9	37.0	2.68		Ls gry f xln vug
47	5761.0- 62.0	212.	110.	9.4	14.7	29.4	2.69		Ls gry f xln vug
48	5762.0- 63.0	2.37	2.30	7.3	13.0	22.2	2.70		Ls gry f xln vug

CORE LABORATORIES

Company : Duncan Exploration Company
 Well : No. 3-3 Cave Canyon

Field : Cave Canyon
 Formation : Paradox

File No.: 57121-8208
 Date : 24-Jun-1988

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	FRACTURE TYPE	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md		OIL %	WATER %			
49	5763.0- 64.0	23.0	7.17	8.2	9.9	22.7	2.70		Ls gry f xln vug
50	5764.0- 65.0	1.09	0.86	6.0	9.9	22.6	2.73		Ls gry f xln vug
51	5765.0- 66.0	0.05	0.04	4.0	12.1	24.2	2.74		Dol brn f xln sl calc vug
52	5766.0- 67.0	12.7	12.6	17.8	14.4	31.2	2.80		Dol brn f xln sl calc vug
53	5767.0- 68.0	1.53	1.43	15.0	18.0	33.7	2.74		Ls gry brn f xln sl dol
54	5768.0- 69.0	0.68	0.63	11.8	41.5	10.4	2.72		Ls gry brn f xln sl dol
55	5769.0- 70.0	0.07	0.06	6.3	36.6	14.2	2.71	Vert	Ls gry brn f xln
* 56	5770.0- 71.0	312.	0.03	6.0	0.0	61.0	2.72	Vert	Ls gry brn f xln
57	5771.0- 72.0	0.01	<.01	3.4	0.0	61.5	2.71		Ls gry brn f xln
58	5772.0- 73.0	0.01	0.01	2.4	0.0	62.0	2.71		Ls gry brn f xln
	5773.0- 74.0								Ls v arg -- No Analysis
	5774.0- 75.5								Sh lmy -- No Analysis
	5775.5- 77.0								Core Loss

+ Denotes Sample Unsuitable for Full Diameter Analysis

* Denotes Fractured Permeability Sample

CORE LABORATORIES

Company : Duncan Exploration Company
 Well : No. 3-3 Cave Canyon

Field : Cave Canyon
 Formation : Paradox

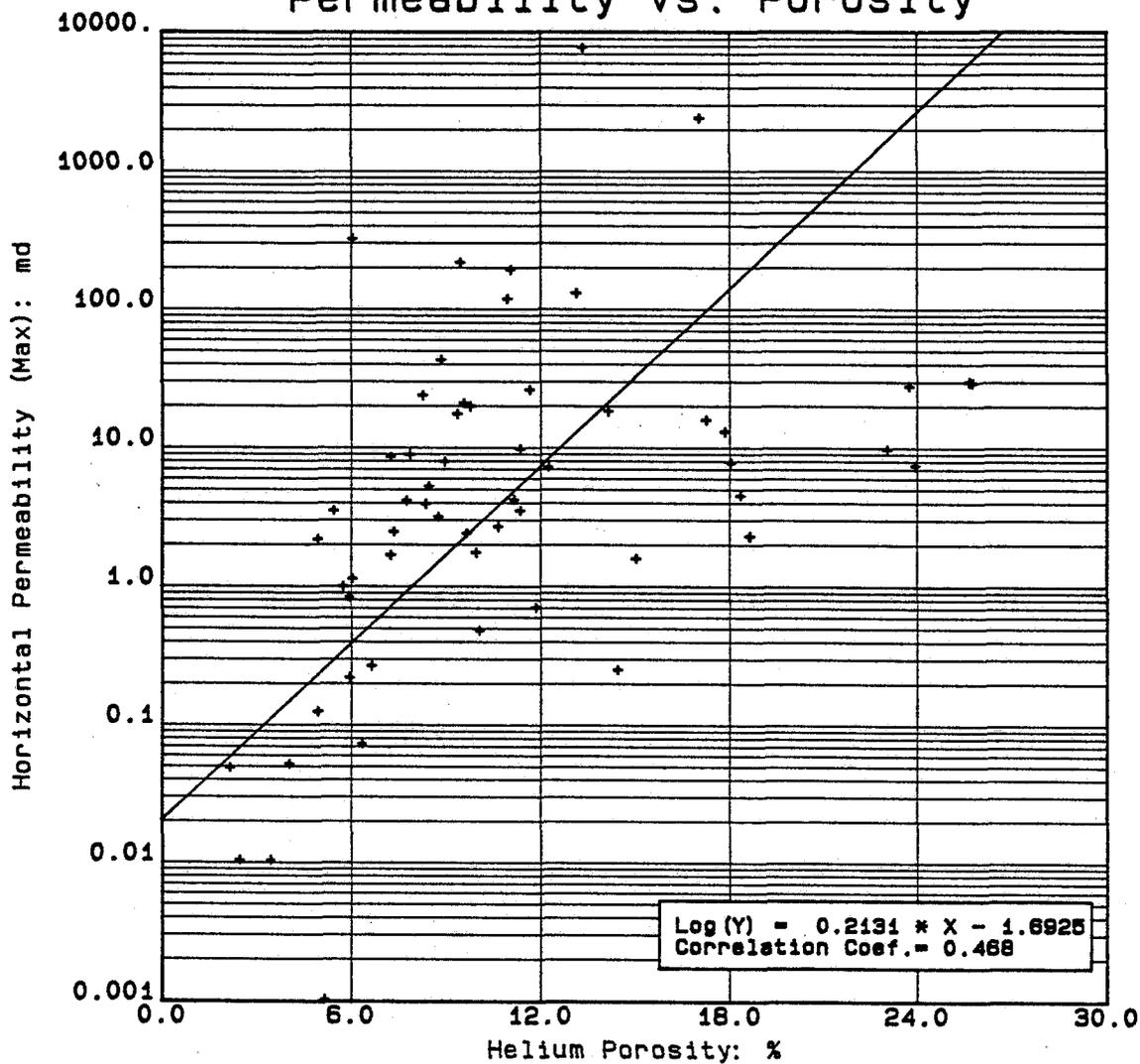
File No.: 57121-8208
 Date : 24-Jun-1988

TABLE I

SUMMARY OF CORE DATA

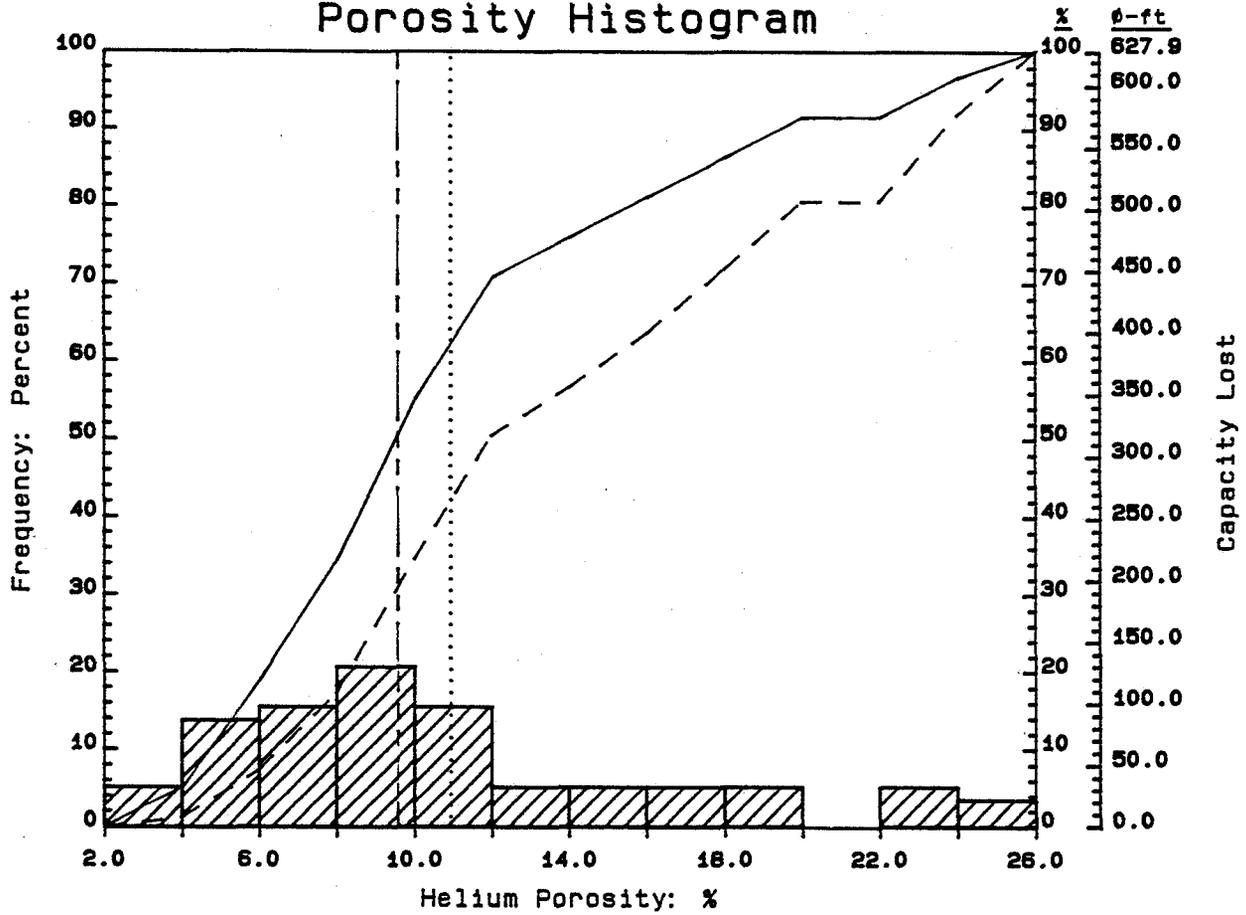
ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
ZONE:	ZONE:	PERMEABILITY:
Identification ----- Upper Ismay	Number of Samples ----- 58	Flow Capacity ----- 11304.3 md-ft
Top Depth ----- 5664.0 ft	Thickness Represented - 57.4 ft	Arithmetic Average ---- 197. md
Bottom Depth ----- 5773.0 ft		Geometric Average ----- 4.35 md
Number of Samples ----- 58	POROSITY:	Harmonic Average ----- 0.08 md
	Storage Capacity ----- 627.9 ϕ -ft	Minimum ----- 0.00 md
DATA TYPE:	Arithmetic Average ---- 10.9 %	Maximum ----- 7604. md
Porosity ----- (HELIUM)	Minimum ----- 2.1 %	Median ----- 4.24 md
Permeability ----- (MAXIMUM) Kair	Maximum ----- 25.7 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 1.236}$ md
	Median ----- 9.6 %	
CUTOFFS:	Standard Deviation ---- ± 5.8 %	HETEROGENEITY (Permeability):
Porosity (Minimum) ----- 0.0 %		Dykstra-Parsons Var. -- 0.865
Porosity (Maximum) ----- 100.0 %	GRAIN DENSITY:	Lorenz Coefficient ---- 0.938
Permeability (Minimum) --- 0.0000 md	Arithmetic Average ---- 2.74 gm/cc	
Permeability (Maximum) --- 100000. md	Minimum ----- 2.67 gm/cc	AVERAGE SATURATIONS (Pore Volume):
Water Saturation (Maximum) 100.0 %	Maximum ----- 2.85 gm/cc	Oil ----- 17.2 %
Oil Saturation (Minimum) - 0.0 %	Median ----- 2.72 gm/cc	Water ----- 29.3 %
Grain Density (Minimum) -- 2.00 gm/cc	Standard Deviation ---- ± 0.04 gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc		
Lithology Excluded ----- NONE		

Permeability vs. Porosity



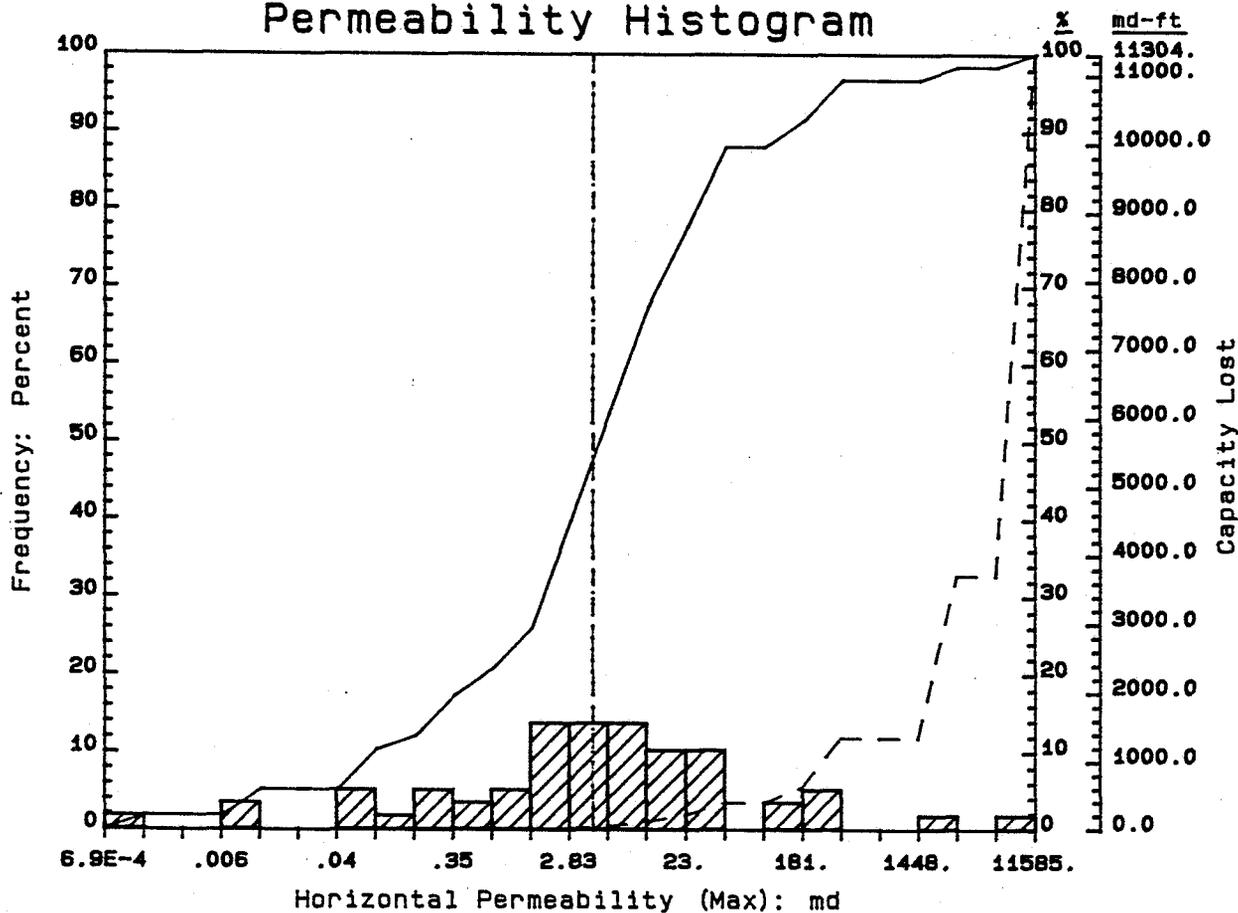
<p style="text-align: center;">Duncan Exploration Company No. 3-3 Cave Canyon Cave Canyon Field San Juan County, Utah Upper Ismay Zone (5664.0-5777.0 ft)</p> <p>Core Laboratories 24-Jun-1988</p>	<p>- LEGEND - Upper Ismay</p>
--	--

Porosity Histogram



<p>Duncan Exploration Company No. 3-3 Cave Canyon Cave Canyon Field San Juan County, Utah Upper Ismay Zone (5664.0-5777.0 ft)</p> <p>Core Laboratories 24-Jun-1988</p>	<p align="center">- LEGEND -</p> <p>— Median Value (9.6) Arith. Average (10.9) — Cumulative Frequency - - - Cumulative Capacity Lost</p> <p align="center">58 Samples</p>
--	--

Permeability Histogram



<p>Duncan Exploration Company No. 3-3 Cave Canyon Cave Canyon Field San Juan County, Utah Upper Ismay Zone (5664.0-5777.0 ft)</p> <p>Core Laboratories 24-Jun-1988</p>	<p align="center">- LEGEND -</p> <p>— Median Value (4.24) Geom. Average (4.35) — Cumulative Frequency - - - Cumulative Capacity Lost</p> <p align="center">58 Samples</p>
--	--

CORE LAB SPECTRAL GAMMA-RAY PLOT

Duncan Exploration Company

No. 3-3 Cave Canyon

Cave Canyon Field

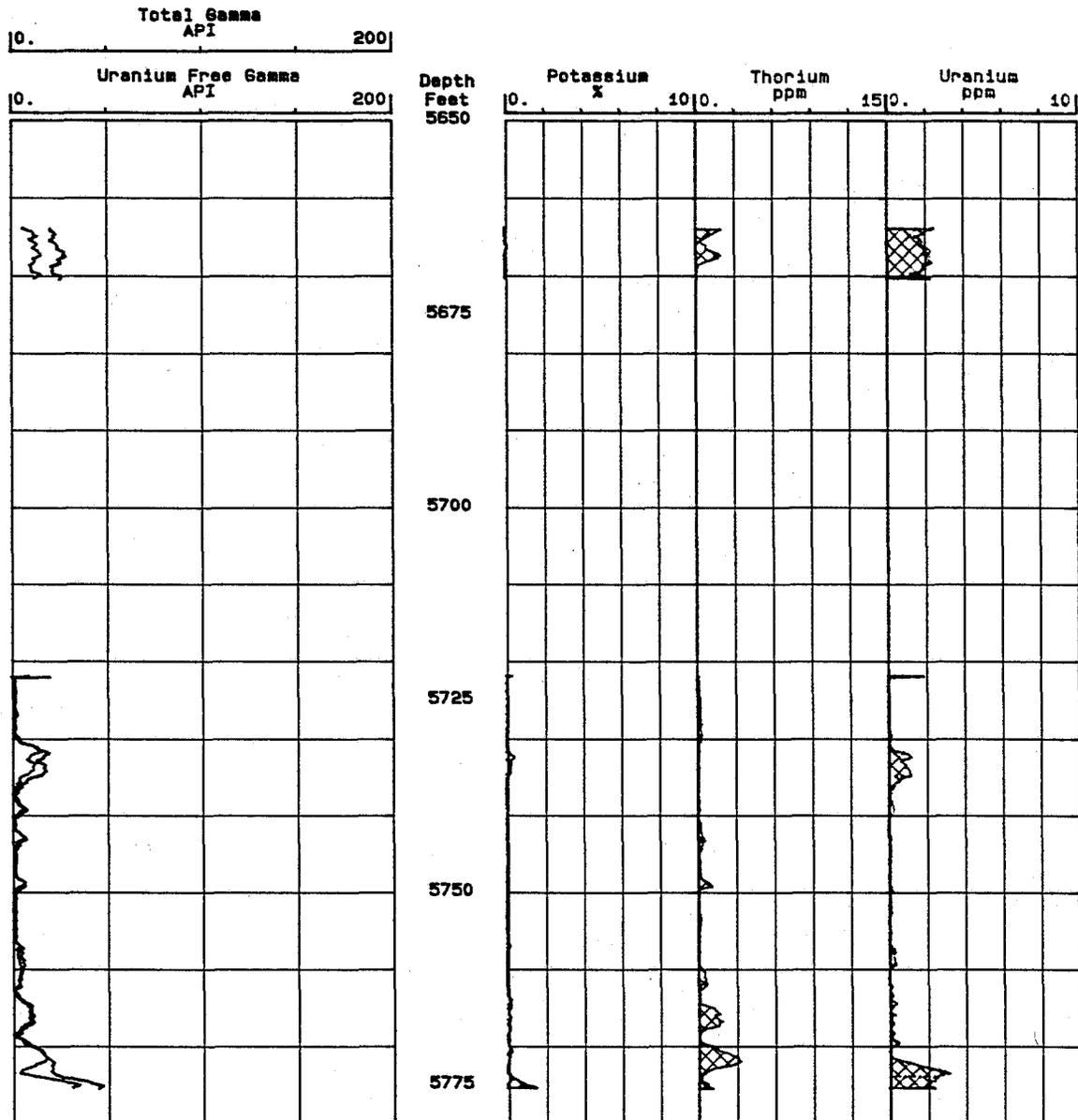
San Juan County, Utah

Upper Ismay Zone (5664.0-5777.0 ft)

Vertical Scale
5.00 in = 100.0 ft

Core Laboratories

24-Jun-1988



Correlation Coregraph

Duncan Exploration Company
 No. 3-3 Cave Canyon
 Cave Canyon Field
 San Juan County, Utah
 Upper Ismay Zone (5664.0-5777.0 ft)

Vertical Scale
 5.00 in = 100.0 ft

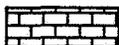
Core Laboratories

24-Jun-1988

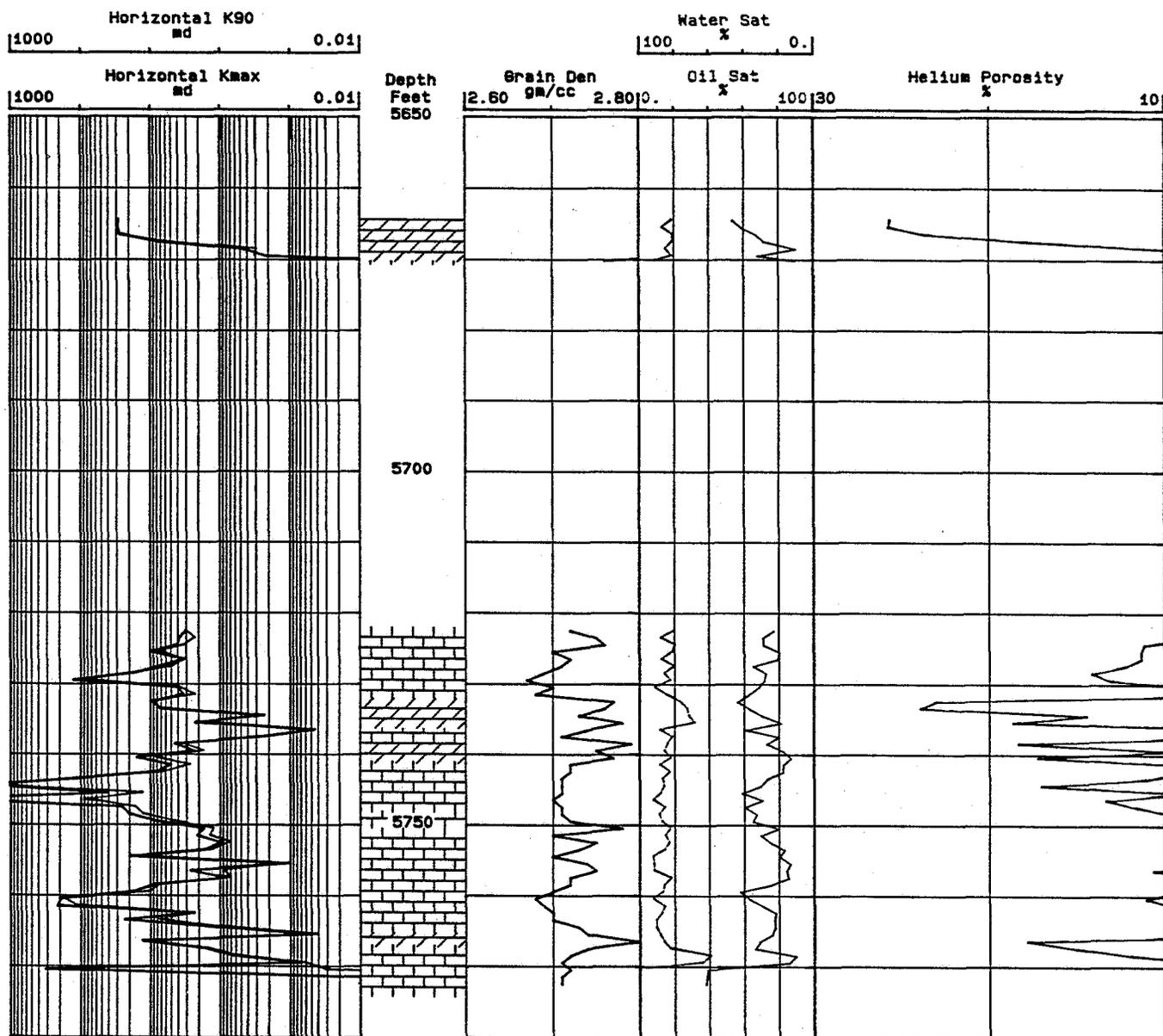
- Lithology Legend -



Dolomite



Limestone



DUNCAN EXPLORATION COMPANY
CAVE CANYON NO. 3-3
SE NW SECTION 3, T38S-R24E
SAN JUAN COUNTY, UTAH

43-037-3143

WELLSITE GEOLOGIST: Jim Holst
Intermountain Wellsite Geologists
P. O. Box 4007
Casper, Wyoming 82604
(307) 266-2009

RT
JUL 18 1988

DIVISION OF
OIL, GAS & MINING

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WELL DATA

OPERATOR: Duncan Exploration Company
1777 S. Harrison Street
Penthouse No. 1
Denver, Colorado 80210
(303) 759-3303
Geologist: Bob Lentz

WELL NAME: Cave Canyon No. 3-3

WELL LOCATION: 2635' FNL, 1390' FWL (SE NW) Section 3
Township 38 South, Range 24 East
San Juan County, Utah

SPUD DATE: June 14, 1988

DATE DRILLING COMPLETED: June 25, 1988

ELEVATIONS: Ground Level: 5240'
Kelly Bushing: 5254'

SURFACE CASING: 13 3/8" set at 83.87' K.B.
8 5/8" set at 1900' K.B.

OPEN HOLE SIZE: 7 7/8"

TOTAL DEPTH: Driller: 6027'
Logger: 6029'

DRILLING CONTRACTOR: Coleman Drilling Company, Rig No. 4
P. O. Box 3337
Farmington, New Mexico 87401
(505) 327-4935
Toolpusher: Don Vestar

DRILLING SUPERVISION: J.A. "Arkie" Browning
P. O. Box 1058
Cortez, Colorado 81321
Home: (303) 565-8806

DRILLING MUD: Mustang Drilling Fluids
2557 East
Vernal, Utah 84078
(801) 789-0533
Engineer: Carroll Hart

CORE ANALYSIS: Core Laboratories
Core No. 1 & No. 2
10703 East Bethany Drive
Aurora Colorado 80014-2696
(303) 751-9334
Representative: Randy Roszel

CORE NO. 1 & NO. 2:

Homco Coring Services
P. O. Box 2379
Mills, Wyoming 82644
(307) 472-6657
Core Engineer: Randy Zenisek

DRILL STEM TESTS:

No DST's

WIRELINE LOGS:

Schlumberger Well Services
P. O. Box 250
Farmington, New Mexico 87401
(505) 325-5006
Engineer: Mark Johnson

WELLSITE GEOLOGY:

Intermountain Wellsite Geologists.
P. O. Box 4007
Casper, Wyoming 82604
(307) 266-2009
Geologist: Jim Holst

SAMPLES:

30' samples 4500' - 5500'
10' samples 5500' - T.D.
Samples sent to:
Duncan Exploration
Denver, Colorado

PRESENT WELL STATUS:

Set 5 1/2" production casing to produce
Upper Ismay zone of the Paradox Formation

WELL LOCATIONS IN PROSPECT AREA

Township 37 South, Range 24 East, San Juan County, Utah

Section 31

● Marathon	McCraken #1-31	2140' FNL; 940' FEL (SW NE)
-○- Marathon	McCraken #1-32	1550' FSL; 550' FWL (NW SW)

Section 33

● Yates	No. 1-33 Cave Canyon	535' FSL; 2025' FEL (SW SE)
● Yates	No. 2-33 Cave Canyon	1220' FSL; 2520' FWL (SE SW)

Township 38 South, Range 24 East, San Juan County, Utah

Section 3

* ● Duncan	#3-1 Cave Canyon	2140' FNL; 200' FWL (SW NW)
● Duncan	#3-2 Cave Canyon	1925' FSL; 1925' FWL (NE SW)
● Duncan	#3-3 Cave Canyon	2635' FNL; 1390' FWL (SE NW)

Section 4

● R.T. Duncan	#1 Wells	500' FNL; 500' FEL (NE NE)
-○- Duncan	#4-2 Cave Canyon	1820' FNL; 1860' FEL (SW NE)
○ Duncan	#4-3 Cave Canyon	1310' FNL; 200' FEL (NE NE)

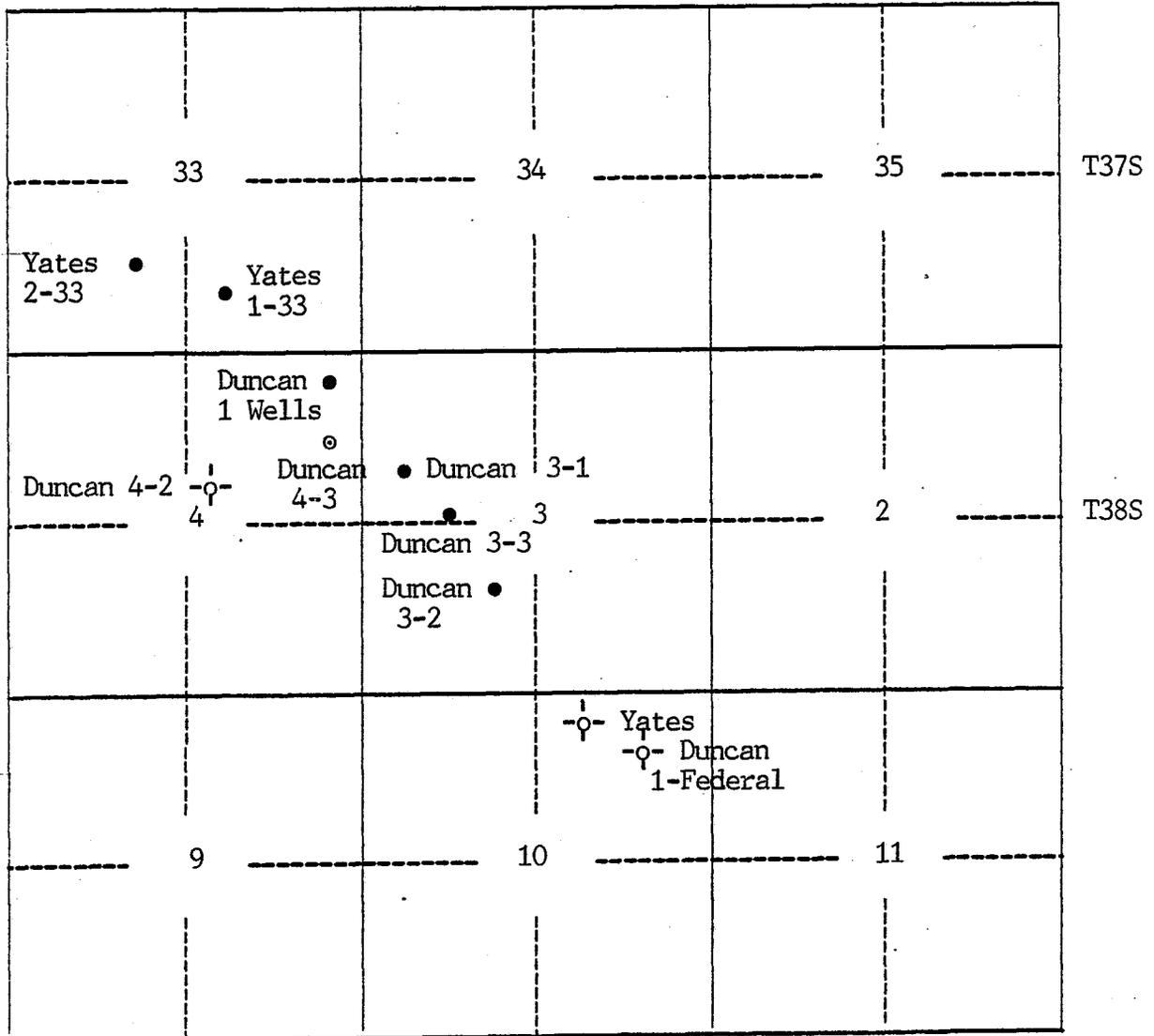
Section 10

-○- Yates	Arabian Federal No. 1	460' FNL; 1800' FEL (NW NE)
-○- Duncan	DEC Federal No. 1	860' FNL; 1050' FEL (NE NE)

* Raymond T. Duncan's No. 3-1 Cave Canyon was used for correlation.

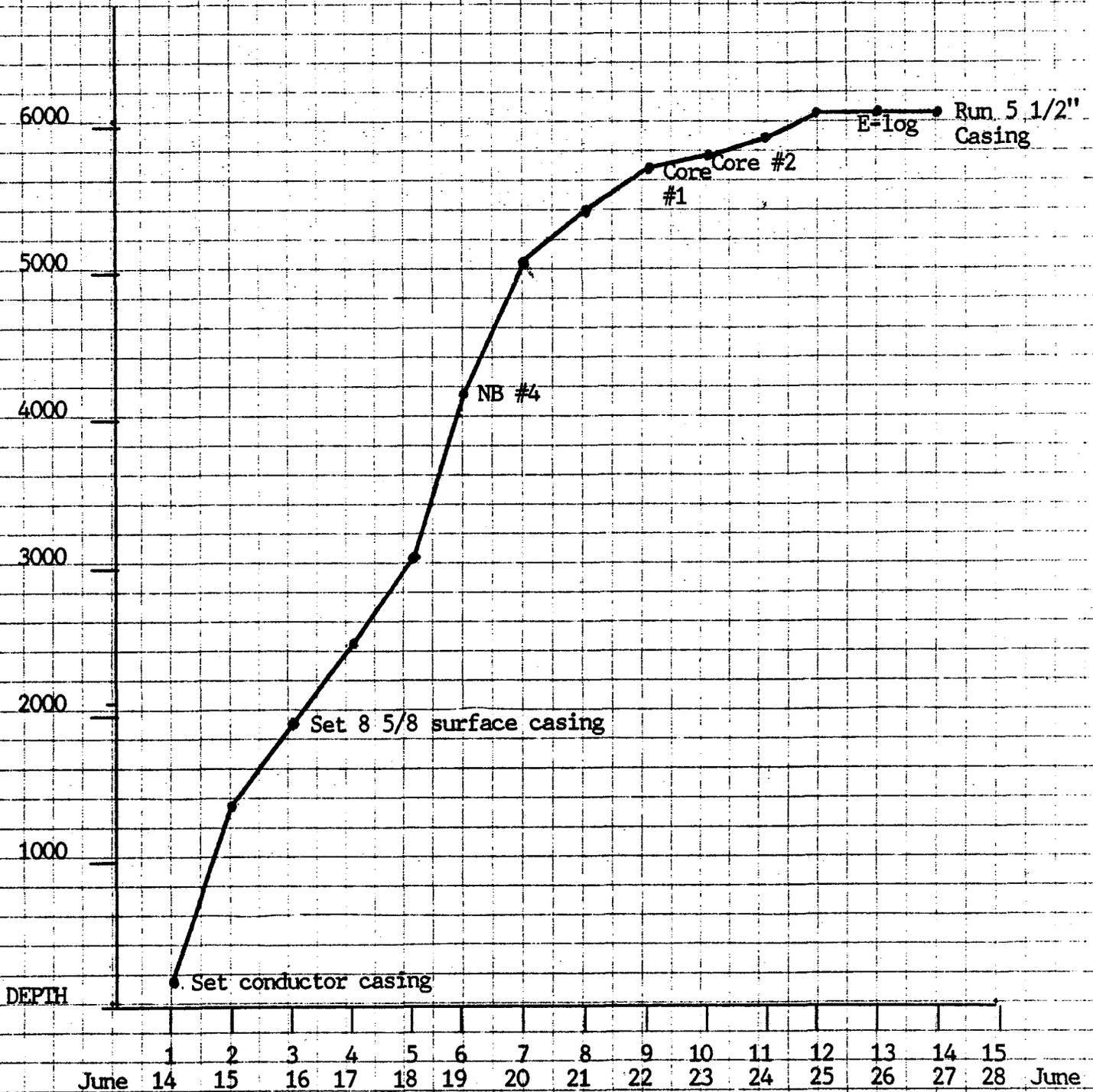
BASE MAP OF PROSPECT AREA

R24E



SAN JUAN COUNTY, UTAH

DRILLING CURVE



DEPTH AT MIDNIGHT

WELL DRILLING CHRONOLOGY

Note: Days are described here and on the following charts based on the I.A.D.C. Daily Drilling Report from 12:00 A.M. to 12:00 P.M. M.D.T. Footage drilled and cumulative footage per day is listed in parenthesis below the date.

June 13, 1988	Rig up, dig cellar and ditches.
June 14, 1988 (0' - 168'/168')	Mix mud, drill rat hole and mouse hole. Spud well at 3:30 A.M. Drilling 17 1/2" hole, drilled from 0' to 90'. Set 2 joints 13 3/8" conductor pipe. Drilled from 90' to 168'. Drilling 12 1/4" hole.
June 15, 1988 (168' - 1398'/1230')	Drilled from 168' to 1398' with surface bit 2A (STC) F-4.
June 16, 1988 (1398' - 1900'/502')	Drilled from 1398' to 1900'. Run 8 5/8" casing, cement casing, wait on cement, weld on head.
June 17, 1988 (1900' - 2446'/546')	Nipple up, test B.O.P., trip into hole with bit 3 (STC) F-25. Tag cement, drill plug, drilling 7 7/8" hole. Drilled from 1900' to 2446'.
June 18, 1988 (2446' - 3577'/1131')	Drilled from 2446' to 3577'.
June 19, 1988 (3577' - 4177'/600')	Drilled from 3577' to 4030'. Lost pump pressure, check pump, trip out of hole, hole in drill pipe and lost jet out of bit. New bit 4 (STC) F-3. Drilled from 4030' to 4177'.
June 20, 1988 (4177' - 5004'/827')	Drilled from 4177' to 5004'. Start mud up at 5000'.
June 21, 1988 (5004' - 5415'/411')	Drilled from 5004' to 5143'. Trip for hole in pipe. Drilled from 5143' to 5186'. Trip for hole in pipe. Drilled from 5186' to 5415'.
June 22, 1988 (5415' - 5664'/249')	Drilled from 5415' to 5587'. Trip for hole in pipe. Drilled from 5587' to 5664'. Circulate for core no. 1. Trip out of hole. Pick up core barrel. Trip into hole with core barrel and core bit 5 (Hycalog) CRCF.
June 23, 1988 (5664' - 5724'/60')	Finish tripping into hole. Cored from 5664' to 5724'. Trip out of hole with core barrel and core. Cut 60', recovered 6', lay down core. 60 in hole with bit, circulate, trip out of hole.

June 24, 1988
(5722' - 5833'/111')

Overhaul core barrel and assembly, trip into hole with core barrel. Circulate to bottom. Core no. 2 from 5722' to 5777'. Trip out of hole. Lay down core and barrel, pick up new bit 7 (Varel) V-537. Trip into hole. Wash to bottom. Drilled from 5755' to 5833'.

June 25, 1988
(5833' - 6027'/194')

Drilled from 5833' to 6027'. Circulate and condition hole for e-logs. Short trip, circulate, wait on Schlumberger

June 26, 1988
(6027' - 6027'/0')

Trip out of hole, rig up logging equipment. Run electrical logs, trip into hole, clean out hole, trip out laying down drill pipe.

June 27, 1988
(6029' - 6029'/0')

Depth corrected to e-logs. Lay down drill pipe, run 5 1/2" production casing. Cement casing.

BREAKDOWN OF RIG TIME

<u>1988 DATE</u>	<u>DRILLING</u>	<u>WASH/ REAM</u>	<u>COND./ CIRC.</u>	<u>TRIPS</u>	<u>RIG SERVICE</u>	<u>SURVEY</u>	<u>LOGGING</u>	<u>OTHER</u>	<u>COMMENTS</u>
6/14	9.5		.5	1.0				13.0	Spud well
6/15	20.75		.5		.25	2.5			
6/16	12.5			2.5		.5		8.5	Run 8 5/8" casing
6/17	11.0			1.0				12.0	W.O.C.
6/18	22				.5	1.5			
6/19	17			4.5		.5		1.5	N.B. #4
6/20	23					1.0			
6/21	19.75			4.0	.25				Trips for hole in D.P.
6/22	14.5		1.5	5.5		.5		2.0	Hole in D.P.
6/23	10.5	.5	1.75	8.75				2.5	Core #1
6/24	9.25	.75	.5	7.0				6.5	Core #2
6/25	14.0		8.0	2.0					
6/26			3.5	2.5			13.0	5.0	E-logs
6/27									Run 5 1/2" casing

SUMMARY DRILLING DATA

<u>1988</u> <u>DATE</u>	<u>WOB</u> <u>X 1000</u>	<u>RPM</u>	<u>PP</u>	<u>FOOTAGE DRILLED</u>	<u>CUMULATIVE</u> <u>FOOTAGE</u>	<u>FT/HR</u>	<u>COMMENTS</u>
6/14	A11	100/80	350/1000	0' - 168'	168'	17.7	Spud well
6/15	A11/55/30	80/100	1000/1250	168' - 1398'	1230'	59.3	
6/16	30/50	100	1300	1398' - 1900'	502'	40.2	Run 8 5/8" casing
6/17	10/40	60/70	1200	1900' - 2446'	546'	49.6	
6/18	40	70	1700/1750	2446' - 3577'	1131'	51.4	
6/19	45	60/65	1750	3577' - 4177'	600'	35.3	N.B. No. 4
6/20	45	65	1750/1700	4177' - 5004'	827'	36	
6/21	45	65/60	1700/1800	5004' - 5415'	411'	20.8	Trips for hole in D.P.
6/22	45	65	1900	5415' - 5664'	249'	17.2	Trip for hole in D.P.
6/23	18	74	900	5664' - 5724'	60'	5.7	Core No. 1
6/24	8	60	750	5722' - 5777'	55'	12.2	Core No. 2
6/24	45	60	1600	5777' - 5833'	56'	11.8	
6/25	40	60	1600	5833' - 6027'	194'	13.9	
6/26				6027' - 6027'	0'		E-logs
6/27				6029' - 6029'	0'		Run 5 1/2" casing

BIT RECORD

<u>BIT NO.</u>	<u>SIZE</u>	<u>MANUF.</u>	<u>TYPE</u>	<u>FOOTAGE RUN</u>	<u>TOTAL FTG.</u>	<u>HOURS RUN</u>	<u>FT/HR</u>
1A	17 1/2"	SEC	S4T	0' - 90'	90'	5	18
2A	12 1/4"	STC	F-4	84' - 1900'	1816'	37.75	48.1
3	7 7/8"	STC	F-25	1900' - 4030'	2130'	45	47.3
4	7 7/8"	STC	F-3	4030' - 5664'	1634'	62.25	26.3
5	7 7/8"	Hycalog	CRCF	5664' - 5727'	60'	10.5	5.7
6	7 7/8"	Homco	TSC-100	5722' - 5777'	55'	4.5	12.2
7	7 7/8"	Varel	V-537	5777' - 6027'	<u>250'</u>	<u>18.75</u>	<u>13.3</u>
					<u>6027'</u>	<u>183.75</u>	<u>32.8</u>

SURVEY DATA

<u>1988 DATE</u>	<u>SURVEY DEPTH</u>	<u>SURVEY TYPE</u>	<u>DEGREES DEVIATION</u>
6/15	282'	Wireline	1°
6/15	595'	Wireline	0°
6/15	908'	Wireline	1/2°
6/15	1211'	Wireline	1 1/4°
6/16	1514'	Wireline	1 1/2°
6/16	1900'	Dropped	1 1/4°
6/18	2406'	Wireline	1/2°
6/18	2906'	Wireline	3/4°
6/18	3437'	Wireline	1/2°
6/19	3932'	Wireline	3/4°
6/20	4422'	Wireline	3/4°
6/20	4918'	Wireline	1°
6/22	5460'	Wireline	1°

DEPTH CORRECTIONS

<u>1988 DATE</u>	<u>BOARD DEPTH</u>	<u>S.L.M. DEPTH</u>	<u>CORRECTION AND COMMENTS</u>
6/23	5727	5722	+5

MUD DATA

<u>1988</u> <u>DATE</u>	<u>DEPTH</u>	<u>Wt</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>GEL</u> <u>SIR</u>	<u>pH</u>	<u>Fl</u>	<u>FC</u>	<u>CL</u>	<u>CA</u>	<u>%</u> <u>SOL</u>	<u>COMMENTS</u>
6/13													Rig up
6/14	45	8.5	43				9.5	N/C		400	180		Spud, mud
6/15	454	8.4	27				10.0			500	220		Water
6/16	1865	8.4	27				10.0	N/C		400	80		Water
6/17	No Report												
6/18	2809	8.4	27				10.0			1100	140		Water
6/18	2953	8.4	27				10.0			1100	120		Water
6/20	4408	8.4	27				8.0			2500	120		Water
6/21	5147	8.6	31	4	2	0/2	11.0	16.8	2/32	2700	100	3%	LSND
6/22	5520	9.2	36	7	4	1/4	10.0	12.4	2/32	2600	80	6.5%	LSND
6/23	5670	9.4	36	9	6	2/5	13.0	8.6	2/32	2800	140	7.5%	DISP
6/24	5727	9.4	37	9	7	2/5	12.0	10.4	2/32	3300	140	7.5%	DISP
6/25	5900	9.5	37	10	6	2/5	12.5	8.8	2/32	3600	80	8.5%	DISP
6/25	6014	9.5	39	11	8	3/8	12.5	10.8	2/32	4000	120	8.5%	DISP
6/25	6026	9.5	44	12	7	4/10	12.0	10.6	2/32	4200	140	8.5%	DISP
6/26	6029												E-logs
6/27	6029												Run 5 1/2" casing

E-LOG INFORMATION

FORMATION TOPS

K.B. = 5254'

<u>FORMATION</u>	<u>SAMPLE</u>	<u>E-LOG</u>	<u>SUBSEA</u>
<u>Pennsylvanian Period</u>	<u>TOP</u>	<u>TOP</u>	
Hermosa Group			
(Honaker Trail Formation)	4654'	4654'	(+600)
Paradox Formation			
Upper Ismay Zone	5626'	5629'	(-375)
Upper Ismay Porosity	5662'	5661'	(-407)
Hovenweep Shale	5776'	5779'	(-525)
Lower Ismay Zone	5820'	5822'	(-568)
Gothic Shale	5867'	5870'	(-616)
Desert Creek	5898'	5899'	(-645)
Lower Desert Creek Porosity	5953'	5955'	(-701)
Chimney Rock Shale	5970'	5973'	(-719)
Akah	5994'	5997'	(-743)
Salt	6026'	6028'	(-774)
T.D.	6027'	6029'	(-775)

STRUCTURAL/STRATIGRAPHIC COMPARISON W/OFFSETS

Duncan Exploration
 #3-3 Cave Canyon
 Sec. 3, T38S, R24E
 (SE NW)
 GL: 5240' KB: 5254'

Raymond T. Duncan
 #3-1 Cave Canyon
 Sec. 3, T38S, R24E
 (SW NW)
 GL: 5328' KB: 5342'

Raymond T. Duncan
 #3-2 Cave Canyon
 Sec. 3, T38S, R24E
 (NE SW)
 GL: 5225' KB: 5239'

<u>FORMATION TOPS</u>	<u>LOG TOP</u>	<u>SUBSEA</u>	<u>h</u>	<u>LOG TOP</u>	<u>SUBSEA</u>	<u>h</u>	<u>LOG TOP</u>	<u>SUBSEA</u>	<u>h</u>
<u>Pennsylvanian Period</u>									
Hermosa Group	4654	+600		4730	+612	972	4654	+585	984
<u>Paradox Formation</u>									
Upper Ismay Zone	5629	-375	150	5702	-360	180	5638	-399	132
Upper Ismay Porosity	5661	-407	118	5735	-393	147	5690	-451	80
Lower Ismay Zone	5822	-568	48	5916	-574	45	5810	-571	46
Gothic Shale Zone	5870	-616	29	5961	-619	28	5856	-617	28
Desert Creek Zone	5899	-645	56	5989	-647	54	5884	-645	56
Lower Desert Creek Porosity	5955	-701	18	6043	-701	18	5940	-701	19
Chimney Rock Shale Zone	5973	-719	24	6061	-719	24	5959	-720	24
Akah Zone	5997	-743		6085	-743		5983	-744	

LOGS RUN

Dual Induction/SFL with Gamma Ray and SP (2" and 5" scales)	1900' - 6029'
Borehole Compensated Sonic with Gamma Ray and Caliper	4500' - 6029'
Compensated Neutron and Compensated Formation Density with Gamma Ray and Caliper	4500' - 6029'
Dipmeter	5500' - 6029'
Cyberlook	5600' - 6029'

EVALUATION OF LOG QUALITY

Logs were of generally good quality.

LOG CALCULATIONS

Upper Ismay Zone

<u>DEPTH</u>	<u>ØS</u>	<u>ØD</u>	<u>ØN</u>	<u>AVE Ø</u>	<u>N/D X-PLOT Ø</u>	<u>F (1/Ø²)</u>	<u>Rt</u>	<u>Rwa (Rt/F)</u>	<u>Rw</u>	<u>Ro (FRw)</u>	<u>% Sw</u>
5664	.14	.16	.29	.197	.225	25.9	2000	77.2	.04	1.03	.02
5666	.15	.19	.29	.21	.24	22.7	500	22.0	.04	.91	.04
5668	.13	.18	.24	.183	.21	29.8	1000	33.6	.04	1.19	.03
5670	.07	.06	.12	.083	.09	144	1250	8.7	.04	5.76	.07
5672	.04	.04	.16	.08	.10	156.3	400	2.6	.04	6.25	.13
5674	.06	.02	.13	.07	.075	204.1	250	1.2	.04	8.2	.18
5676	.06	.04	.20	.10	.12	100	80	0.8	.04	4.0	.22
5678	.13	.20	.31	.213	.255	21.9	60	2.7	.04	8.8	.12
5680	.18	.27	.31	.253	.29	15.6	60	3.9	.04	.62	.10
5682	.23	.25	.29	.257	.27	15.2	100	6.6	.04	.61	.08
5684	.16	.17	.21	.18	.19	30.9	350	11.3	.04	1.23	.06
5686	.15	.15	.18	.16	.165	39.1	550	14.1	.04	.156	.05
5688	.16	.15	.15	.153	.15	42.5	275	6.5	.04	1.70	.08
5690	.12	.10	.13	.117	.115	73.5	600	8.2	.04	2.94	.07
5692	.10	.06	.14	.10	.10	100	700	7.0	.04	4.0	.08
5694	.12	.10	.16	.127	.13	62.3	650	10.4	.04	2.49	.06
5696	.10	.12	.12	.113	.12	77.9	500	6.42	.04	3.11	.08
5698	.06	.07	.12	.083	.095	144	800	5.6	.04	5.76	.08
5700	.10	.11	.13	.113	.12	77.9	700	8.9	.04	3.11	.07
5702	.13	.13	.14	.133	.135	56.25	650	11.6	.04	2.25	.06
5704	.13	.14	.14	.137	.14	53.5	500	9.3	.04	2.14	.07

DEPTH	ϕ_S	ϕ_D	ϕ_N	AVE ϕ	N/D X-PLOT ϕ	F $(\frac{1}{\phi^2})$	Rt	Rwa $(\frac{Rt}{F})$	Rw	Ro (FRw)	% Sw
5706	.11	.13	.14	.127	.135	62.3	1500	24.1	.04	2.49	.04
5708	.11	.13	.13	.123	.13	65.7	1000	15.2	.04	2.63	.05
5710	.12	.12	.14	.127	.13	62.3	1250	20.1	.04	2.49	.04
5712	.11	.11	.14	.12	.125	69.4	850	12.2	.04	2.78	.06
5714	.10	.12	.12	.113	.12	77.9	1500	19.3	.04	3.11	.05
5716	.07	.08	.11	.087	.095	133.1	2000	15.0	.04	5.33	.05
5718	.07	.08	.10	.083	.09	144	1500	10.4	.04	5.76	.06
5720	.08	.08	.11	.09	.095	123.5	2000	16.2	.04	4.94	.05
5722	.10	.12	.12	.113	.12	77.9	1250	16.0	.04	3.11	.05
5724	.08	.09	.11	.093	.10	114.8	500	4.4	.04	4.59	.10
5726	.09	.10	.11	.10	.105	100	1750	17.5	.04	4.0	.05
5728	.10	.11	.12	.11	.115	82.6	2000	24.2	.04	3.3	.04
5730	.12	.11	.12	.117	.115	73.5	2000	27.2	.04	2.94	.04
5732	.11	.11	.13	.117	.12	73.5	2000	27.2	.04	2.94	.04
5734	.12	.12	.13	.123	.125	65.7	1000	15.2	.04	2.63	.05
5736	.08	.09	.11	.093	.10	114.8	150	1.3	.04	4.59	.17
5738	.15	.19	.30	.213	.245	21.9	35	1.6	.04	8.79	.16
5740	.15	.17	.25	.19	.21	27.7	35	1.3	.04	1.10	.18
5742	.10	.10	.10	.10	.10	100	80	0.8	.04	4.00	.22
5744	.06	.09	.13	.093	.11	114.8	200	1.74	.04	4.6	.23
5746	.07	.09	.13	.097	.11	107.0	275	2.57	.04	4.28	.12
5748	.07	.10	.11	.093	.105	114.8	175	1.52	.04	4.6	.16
5750	.09	.10	.12	.103	.11	93.6	160	1.71	.04	3.75	.15
5752	.09	.10	.10	.097	.10	107.0	160	1.49	.04	4.28	.16
5754	.07	.09	.10	.087	.095	133.1	150	1.13	.04	5.3	.19
5756	.07	.07	.07	.07	.07	204.1	140	0.69	.04	8.16	.24
5758	.05	.04	.07	.053	.055	351.6	150	0.43	.04	14.06	.31
5760	.06	.06	.10	.073	.08	185.9	150	0.81	.04	7.44	.22
5762	.06	.05	.08	.063	.075	249.3	175	0.70	.04	9.97	.24
5764	.06	.08	.10	.08	.09	156.25	170	1.09	.04	6.25	.19
5766	.09	.10	.08	.09	.09	123.5	180	1.46	.04	4.94	.17
5768	.07	.06	.06	.063	.06	249.3	180	0.72	.04	9.97	.24
5770	.05	.05	.10	.067	.075	225	100	0.44	.04	9.0	.30
5772	.12	.12	.20	.147	.16	46.5	40	0.86	.04	1.86	.22
5774	.08	.08	.08	.08	.08	156.26	25	0.16	.04	6.25	.50
5776	.04	.02	.03	.03	.025	1111.1	30	0.03	.04	44.4	1.00
5778	.03	.01	.05	.03	.03	1111.1	40	0.04	.04	44.4	1.00

Lower Desert Creek Porosity

5954	.08	.12	.12	.107	.12	87.9	7	.08	.03	2.64	.61
5956	.13	.16	.16	.15	.16	44.4	6	.135	.03	1.33	.47
5958	.12	.18	.13	.143	.155	48.7	8.5	.175	.03	1.46	.41
5960	.10	.15	.08	.11	.115	82.6	7.5	.091	.03	2.48	.58
5962	.11	.12	.10	.11	.11	82.6	5.5	.067	.03	2.48	.67
5964	.11	.13	.06	.10	.095	100	7.5	.075	.03	3.0	.40
5966	.07	.12	.04	.077	.08	170	15	.088	.03	5.1	.58
5968	.08	.11	.04	.077	.075	170	15	.088	.03	5.1	.58
5970	.08	.11	.04	.077	.075	170	15	.088	.03	5.1	.58

FORMULAS AND ASSUMPTIONS USED IN CALCULATIONS

1. Sonic Porosity, ϕ_s
 - a. $\phi_s = \frac{\Delta t - \Delta t_{ma}}{\Delta t_{ma} - \Delta t_f}$ where $\Delta t_{ma} = 47.6$ sec/ft and $\Delta t_f = 189.0$ sec/ft
2. Density Porosity, ϕ_D
 - a. $\phi_D = \frac{p_{ma} - p_b}{p_{ma} - p_f}$ where $p_{ma} = 2.87$ for Desert Creek
 $p_{ma} = 2.71$ for Ismay
 $p_b =$ formation bulk density
 $p_f =$ fluid density = 1.0 gm/cc
3. Neutron Porosity, ϕ_N
 - a. Dolomite matrix used for Desert Creek zones
 - b. Limestone matrix used for Ismay zones
4. Average ϕ
 - a. $\frac{\phi_s + \phi_D + \phi_N}{3} = \text{Ave } \phi$
5. ϕ_N/ϕ_D Cross Plot
 - a. $\frac{\phi_N + \phi_D}{2} = \text{Cross plot}$
6. Formation Resistivity Factor, F
 - a. $F = \frac{1}{O^2}$ (for carbonates)
 - b. F was Neutron/Density/Sonic derived
7. True Formation Resistivity, R_t .
 - a. R_t assumed to be equal to RILD (valid for little or no invasion, thick beds, and clean formations.
8. Apparent Water Resistivity, R_{wa} .
 - a. $R_{wa} = R_w$ in water bearing zone $S_w = 100\%$
 - b. R_{wa} is greater than R_w in hydrocarbon zones
 - c. $R_{wa} = \frac{R_t}{F}$
9. Formation Water Resistivity, R_w
 - a. $R_w = 0.04$ was used for the Ismay zones
 - b. $R_w = 0.03$ was used for the Desert Creek Zones
10. Wet Resistivity, R_o .
 - a. $R_o = R_t$ in water bearing zones $S_w = 100\%$
 - b. $R_o = F R_w$
 - c. R_o is less than R_t in hydrocarbon zones
11. Water Saturation, S_w .
 - a. $S_w = \sqrt{\frac{F R_w}{R_t}}$ or $\sqrt{\frac{R_w}{R_{wa}}}$ or $\sqrt{\frac{R_o}{R_t}}$

FORWARD TO SAMPLE DESCRIPTIONS

Samples are described based on a personal format which will be provided upon request.

Samples have been lagged to corresponding depths and matched as close as possible to electric log depths.

4500' - 4570' 70% Shale - medium gray orange, red to brick red, blocky to splintery, calcareous to slightly limy, silty in part.
10% Siltstone - orange red, blocky, soft.
10% Sandstone - white clear light gray, very fine grained, subangular, poorly sorted, calcareous.
10% Limestone - light brown light pink, cryptocrystalline, no visible porosity, shaly in part.

4570' - 4600' 60% Shale - medium gray orange, blocky to splintery, silty.
20% Siltstone - red orange, blocky.
10% Limestone - light pink light brown, shaly, no visible porosity.
10% Sandstone - clear light gray, very fine grained, poorly sorted, calcareous.

4600' - 4620' 20% Sandstone - white clear light gray, very fine grained to scattered medium grained, subrounded to subangular, moderately sorted, clay filled, tight, no shows.

4620' - 4650' 60% Shale - orange red medium gray, blocky to splintery, calcareous to slightly limy, silty.
20% Sandstone - white clear light gray, very fine grained, clay filled.
10% Limestone - light pinkish brown, shaly.
10% Siltstone - orange red, blocky, soft.

Hermosa Group (sample top 7654', E-log 4654')

4650' - 4660' 50% Limestone - light brown white light to medium gray, dense, cryptocrystalline, moderately firm, no visible porosity, slightly argillaceous to scattered sandy.
40% Shale - medium gray to red, blocky to splintery, calcareous to slightly limy, soft.
10% Sandstone - clear light gray, very fine grained, clay filled, tight,

4660' - 4720' 60% Shale - light to medium gray red reddish brown, blocky to platy, silty.
20% Siltstone - red, shaly to sandy in part.
10% Sandstone - light gray white, calcareous.
10% Limestone - light brown light gray white, dense.

- 4720' - 4730' 20% Sandstone - light gray to white light red, very fine grained, moderately sorted, calcareous, subrounded.
80% Shale - light to medium gray reddish brown, blocky to platy, soft, calcareous to limy, silty in part.
- 4730' - 4760' 50% Limestone - light gray light brown white grayish brown, cryptocrystalline to microcrystalline, shaly in part, scattered fossils, no visible porosity.
50% Shale - dark brown medium gray red, blocky, calcareous to slightly limy in part.
- 4760' - 4830' 70% Shale - dark reddish brown light to medium gray, blocky to platy, soft, calcareous to limy in part, silty in part.
20% Sandstone - clear white light gray, very fine grained to fine grained, calcareous, subrounded, clay filled.
10% Limestone - white light gray, cryptocrystalline, shaly, no porosity, scattered fossils.
- 4830' - 4840' 30% Sandstone - clear white, very fine grained, subrounded, clay filled, scattered coarse grained, unconsolidated quartz grains.
60% Shale - light to medium brown red dark reddish brown, soft, limy in part, silty in part.
10% Limestone - light brown light gray, shaly in part, no visible porosity.
- 4840' - 4880' 60% Shale - red light to medium gray, blocky, calcareous, moderately firm to firm.
40% Limestone - dark brown dark brownish gray, dense, shaly, no porosity.
- 4880' - 4890' 20% Sandstone - clear white, very fine grained, subrounded, clay filled, scattered unconsolidated.
60% Shale - red to light medium gray, blocky, calcareous.
20% Limestone - dark brownish gray, shaly, no visible porosity, shaly in part.
- 4890' - 4920' 70% Shale - medium gray dark brown reddish brown, blocky to splintery, soft, slightly limy.
30% Limestone - light brown white, dense, cryptocrystalline, slightly argillaceous, scattered fossils, no visible porosity.
- 4920' - 4930' 40% Limestone - light brown light gray white, dense, cryptocrystalline, no visible porosity.
60% Shale - red dark brown medium gray, blocky to splintery, calcareous to slightly limy, soft to moderately firm.
- 4930' - 4940' 10% Sandstone - light gray clear to white, very fine grained to fine grained, scattered medium grained, moderately sorted, calcareous, mica flakes, scattered quartz, unconsolidated.
70% Shale - brown dark reddish brown red, blocky, slightly limy, soft to moderately firm.

- 4930' - 4940'
(continued) 20% Limestone - light brown white light gray, dense, no visible porosity, cryptocrystalline.
- 4940' - 4970' 70% Shale - brown dark brown dark reddish brown medium gray, scattered dark gray, blocky, soft to moderately firm, calcareous, scattered limy in part, mica flakes, silty in part.
30% Limestone - light brown light gray, dense, cryptocrystalline, no visible porosity.
- 4970' - 4980' 20% Sandstone - white clear to light gray, very fine to medium grained, subangular to subrounded, calcareous, tight, clay filled.
70% Shale - dark brown gray, blocky, calcareous to slightly limy, soft to moderately firm.
10% Limestone - light gray white light brown, slightly argillaceous, cryptocrystalline to microcrystalline.
- 4980' - 5000' 50% Limestone - light gray white, dense, cryptocrystalline to microcrystalline, scattered fossils.
50% Shale - dark reddish brown medium to dark gray, blocky to splintery, soft to moderately firm.
- 5000' - 5030' 50% Shale - red medium brown dark reddish brown scattered dark gray, blocky to splintery, scattered noncalcareous to calcareous, soft to moderately firm.
50% Limestone - light brown light gray white, dense, cryptocrystalline, slightly argillaceous, scattered fossils.
- 5030' - 5050' 20% Sandstone - light gray clear white light brown, very fine to fine grained, subrounded to subangular, clay filled.
70% Shale - dark brown gray, blocky, calcareous, slightly limy.
10% Limestone - light brown light gray, slightly argillaceous, cryptocrystalline.
- 5050' - 5090' 30% Limestone - light gray light brown, cryptocrystalline to microcrystalline, dense, fossiliferous in part.
60% Shale - dark reddish brown medium to dark gray, blocky to splintery, calcareous, soft to moderately firm.
10% Sandstone - clear light gray white, very fine to medium grained, clay filled, tight.
- 5090' - 5100' 20% Sandstone - light to medium gray white to clear, fine to medium grained, subangular to subrounded, calcareous, poorly sorted, scattered mica flakes, clay filled, tight.
60% Shale - dark reddish brown, blocky, calcareous to slightly limy, soft.
20% Limestone - light gray light brown, cryptocrystalline, dense, scattered fossils.
- 5100' - 5120' 30% Limestone - light gray grayish brown, dense, no visible porosity.

- 5100' - 5120'
(continued) 70% Shale - dark brown medium to dark gray dark reddish brown, blocky to splintery, soft to moderately firm, calcareous, scattered limy, silty in part.
- 5120' - 5140' 50% Shale - dark brown, soft, calcareous, silty, blocky to splintery.
50% Limestone - light gray, dense, cryptocrystalline, no visible porosity.
- 5140' - 5190' 40% Limestone - light gray white, dense, cryptocrystalline to microcrystalline, fossils, no visible porosity, cherty.
50% Shale - reddish brown to dark reddish brown, soft, silty in part, calcareous, blocky to splintery.
10% Sandstone - light gray white, clay filled, tight, very fine grained.
- 5190' - 5210' 50% Limestone - light gray light brownish gray, cryptocrystalline, dense, fossils, no visible porosity, abundant chert.
50% Shale - dark gray dark brown dark reddish brown, blocky to splintery, moderately firm, limy in part.
- 5210' - 5230' 70% Shale - dark gray gray dark brownish gray, blocky to splintery, moderately firm, calcareous to slightly calcareous, scattered limy in part.
30% Limestone - grayish brown light brown, cryptocrystalline, dense, cherty, fossiliferous.
- 5230' - 5250' 50% Limestone - gray brown light brown, dense, scattered cherty, fossils, cryptocrystalline, anhydritic.
40% Shale - dark gray brownish gray, blocky to splintery, scattered limy in part.
10% Sandstone - clear light gray, very fine grained, friable, clay filled.
- 5250' - 5280' 40% Limestone - light to medium brown grayish brown, dense, cryptocrystalline, scattered chert, scattered fossils.
50% Shale - dark brown medium to dark gray dark grayish brown, blocky to splintery, soft to moderately firm, limy in part.
10% Sandstone - clear light gray, very fine grained, clay filled, tight, friable.
- 5280' - 5330' 50% Limestone - medium brown grayish brown, cryptocrystalline, dense, cherty, fossils.
50% Shale - medium to dark grayish brown, blocky to splintery, limy in part, soft to moderately firm.
- 5330' - 5350' 70% Shale - gray dark gray black dark brownish black, blocky to splintery, soft to moderately firm, calcareous to slightly limy in part, traces of pyrite.
30% Limestone - light to medium brownish gray light brown, dense, scattered fossils, scattered chert, cryptocrystalline, scattered microcrystalline, scattered floating sand grains.

- 5350' - 5380' 70% Shale - medium to dark brown medium to dark gray dark brownish gray, splintery to blocky, soft, scattered moderately firm, calcareous to slightly limy.
30% Limestone - light to medium gray, brownish gray, dense, no visible porosity.
- 5380' - 5410' 70% Shale - medium to dark brown medium to dark gray dark brownish gray, splintery to blocky, soft, scattered moderately firm, calcareous to slightly limy.
30% Limestone - light to medium gray brownish gray, dense, no visible porosity.
- 5410' - 5450' 70% Limestone - light brown light grayish brown, dense, cryptocrystalline to microcrystalline, scattered fossils, no visible porosity, no stain, scattered chert.
30% Shale - medium to dark brown dark gray, blocky, soft, calcareous.
- 5450' - 5480' 60% Shale - medium brown dark gray scattered black, blocky to splintery, calcareous to slightly limy, soft to moderately firm.
40% Limestone - light brown to light grayish brown, dense, scattered fossils, scattered chert.
- 5480' - 5530' 60% Limestone - light gray light brownish gray dark brown to medium grayish brown, cryptocrystalline, dense, argillaceous to shaly in part, no visible porosity, scattered chert, scattered fossils.
40% Shale - dark brown medium to dark gray to medium dark grayish brown, splintery to blocky, soft to moderately firm, slightly calcareous to limy in part.
- 5530' - 5560' 50% Shale - dark gray black, carbonaceous in part, splintery to blocky, slightly limy in part.
50% Limestone - dark brown grayish brown, dense, cryptocrystalline to scattered microcrystalline, no visible porosity, cherty.
- 5560' - 5580' 70% Limestone - light to medium brown grayish brown, cryptocrystalline to scattered microcrystalline, dense, fossils, scattered cherty, no visible porosity.
30% Shale - dark brownish gray to brownish black, scattered carbonaceous in part, splintery, soft, scattered limy in part.
- 5580' - 5590' 60% Shale - dark brown dark grayish brown to black, blocky to splintery, limy in part.
40% Limestone - medium brown grayish brown, dense, scattered fossils, no visible porosity, shaly in part.
- 5590' - 5600' 60% Shale - dark brown brownish gray scattered black, splintery to blocky.
40% Limestone - brown light brown, cryptocrystalline, dense, fossils.

5600' - 5610' 70% Shale - dark brown dark gray black, splintery to blocky, moderately firm to soft.
30% Limestone - brown, cryptocrystalline fossils, dense, no visible porosity.

5610' - 5620' 80% Shale - black medium to dark gray, blocky, soft, calcareous to slightly limy.
20% Limestone - light to medium brown, cryptocrystalline, no visible porosity.

Upper Ismay (sample top 5626'; E-log 5629')

5620' - 5660' 70% Shale - dark gray gray medium gray dark brownish gray red, blocky, soft to moderately firm.
20% Limestone - light brown, dense, cryptocrystalline, no shows, anhydritic.
10% Anhydrite - white cream, soft.

5660' - 5720' Limestone - brown medium to dark brown, dolomitic in part, microsucrosic to sucrosic, scattered microcrystalline, scattered anhydrite, abundant pinpoint to vugs porosity, saturated with oil, good to excellent dark brown to black oil stain, excellent oil odor, good to excellent abundant yellow hydrocarbon fluorescence with excellent yellow streaming to bleeding cut, abundant crystal lined vugs, some vugs 1 to 2 inches, most 1 to 5 MM.

See core descriptions for detailed core sample descriptions.

5720' - 5770' Limestone - light to medium gray brown to dark brown, microcrystalline to sucrosic, abundant pinpoint to small vugs 1 to 5 MM some vugs up to 1 - 2 inches. Slightly dolomitic in part, good to excellent black to brown oil stain with oil odor, good to excellent yellow fluorescence with good to excellent yellow bleeding to streaming cut, abundant anhydritic crystals lined vugs with oil stain.

Hovenweep Shale (sample top 5776'; E-log 5779')

5770' - 5820' 80% Shale - black dark gray, blocky to splintery, slightly limy to calcareous, soft, slightly silty in part, slightly carbonaceous.
20% Limestone - light to medium brown light to medium gray, dense, cryptocrystalline to slightly sucrosic scattered fossils, slightly anhydritic in part.

Lower Ismay (sample 5820'; E-log 5822')

5820' - 5840' 50% Limestone - medium gray medium brown brownish gray, dense, microcrystalline to microsucrosic, dolomitic, hard, no visible porosity, no stain fluorescence or cut.
50% Shale - dark brown dark brownish black, blocky, calcareous to slightly limy, moderately firm.

- 5840' - 5860' 50% Anhydrite - white cream, soft.
50% Limestone - light to medium grayish brown, dense, hard, anhydritic, argillaceous in part, dolomitic in part, no visible porosity.
- 5860' - 5870' 70% Limestone - light to medium gray brownish gray, argillaceous, anhydritic, dense, microcrystalline, scattered microsugrosic, no visible porosity, no stain fluorescence or cut.
30% Shale - dark gray black, platy to splintery, soft.
Gothic Shale (sample top 5867'; E-log 5870')
- 5870' - 5900' 90% Shale - black dark gray, splintery to blocky, soft, noncalcareous to slightly calcareous, slightly silty in part, earthy.
10% Limestone - dark brownish gray, firm, argillaceous, limy in part, no visible porosity, no stain, no cut.
Desert Creek (sample top 5898'; E-log 5899')
- 5900' - 5920' 40% Anhydrite.
50% Dolomite - brownish gray to gray, microcrystalline to scattered microsugrosic, hard, dense, anhydritic, no visible porosity, limy in part, no stain fluorescence or cut.
10% Shale - black dark gray, blocky to splintery, soft, slightly calcareous.
- 5920' - 5950' 80% Dolomite - medium gray, microcrystalline to microsugrosic, dense, argillaceous, limy, anhydritic in part, no visible porosity, no stain fluorescence or cut.
10% Anhydrite - white cream, soft.
10% Shale - dark gray black, blocky to splintery, soft.
Lower Desert Creek Porosity (sample top 5953'; E-log 5955')
- 5950' - 5970' 70% Dolomite - light to medium brown light grayish brown, microsugrosic to sugrosic, dense, anhydritic, limy in part, argillaceous in part, no visible porosity, no stain fluorescence or cut.
20% Shale - black dark gray, soft, slightly calcareous, slightly limy in part.
10% Anhydrite - white, soft.
Chimney Rock Shale (sample top 5970'; E-log 5973')
- 5970' - 5990' 70% Shale - dark brown dark grayish black dark brownish black, moderately firm, calcareous, slightly silty, platy.
30% Dolomite - dark gray dark brownish gray, dense, hard, no visible porosity.

Akah (sample top 5994'; E-log 5997')

5990' - 6027'

50% Dolomite - medium to dark brown dark grayish brown, dense, hard, argillaceous, microcrystalline, anhydritic, no visible porosity, no stain fluorescence or cut.

40% Shale - dark brown to black, silty in part, slightly calcareous, soft to moderately firm.

10% Anhydrite - cream white, soft.

6027' - 6029'

Salt - by penetration rate.

CORE DESCRIPTIONS

Core No. 1

Cored 5664' - 5724'
Cut 60', recovered 6.5 feet

- 5664' - 5665' Limestone - brown medium to dark brown, dolomitic, micro-sucrosic to sucrosic, scattered microcrystalline, scattered anhydritic, abundant pinpoint to small vugs, saturated with oil, excellent oil stain with oil odor and bright yellow fluorescence with streaming yellow cut.
- 5665' - 5666' Limestone - as above, abundant pinpoint to small vugs.
- 5666' - 5667' Limestone - as above.
- 5667' - 5668' Limestone - as above with larger vugs and black stain.
- 5668' - 5669' Limestone - as above with pinpoint porosity and increasing anhydrite, slightly tight.
- 5669' - 5670' Limestone - as above, slightly tight.
- 5670' - 5670.5' Limestone - as above with larger vugs from 1 MM to 1 CM.

It should be noted that 53.5' of core was drilled up and the footages of the above core are uncertain as to exactly where in the interval they were cored.

Core No. 2

Cored 5722' - 5777'
Cut 55', recovered 53.5'

- 5722' - 5723' Limestone - brown medium to dark brown, microcrystalline to sucrosic, abundant pinpoint to vugs from 1 to 5 MM, good to excellent porosity, slightly dolomitic, good to excellent dark brown to black oil stain, excellent yellow hydrocarbon fluorescence with excellent streaming to bleeding cut, abundant crystal lined vugs with oil stain, scattered anhydritic crystals.
- 5723' - 5724' Limestone - as above, oil saturated.
- 5724' - 5725' Limestone - as above.
- 5725' - 5726' Limestone - as above.
- 5726' - 5727' Limestone - as above.
- 5727' - 5728' Limestone - as above with partially filled vugs with anhydrite.

- 5728' - 5729' Limestone - as above with abundant black oil stain and scattered fossils.
- 5729' - 5730' Limestone - grayish brown to brown, scattered fossils, calcified algae, forams and shell fragments, oil saturated vugs.
- 5730' - 5731' Limestone - as above.
- 5731' - 5732' Limestone - gray light brownish gray, cryptocrystalline to microcrystalline, dense, tight, scattered fossils, poor to no visible porosity.
- 5732' - 5733' Dolomite - brown, microsucrosic, pinpoint porosity with good brown oil stain, yellow fluorescence and bleeding cut, limy in part.
- 5733' - 5734' Dolomite - as above with small anhydrite to limy inclusions.
- 5734' - 5735' Dolomite - as above and coal.
- 5735' - 5736' Dolomite - as above with limy and anhydrite inclusions, good oil stain, pinpoint porosity with good hydrocarbon fluorescence and good cut.
- 5736' - 5737' Limestone - brownish gray, microcrystalline to microsucrosic, good pinpoint porosity, good black to brown oil stain, scattered anhydritic crystals.
- 5737' - 5738' Limestone - gray brownish gray light brown, microcrystalline to microsucrosic, abundant pinpoint to small vugs 1 to 5 MM, excellent oil stain with good fluorescence and cut, traces of fossils.
- 5738' - 5739' Limestone - as above, dolomitic, turning more brown, good porosity.
- 5739' - 5740' Limestone - brown, dolomitic, good pinpoint porosity, slightly tight, scattered anhydritic filling.
- 5740' - 5741' Limestone - as above with pinpoint to small vugs 1 to 3 MM, partially anhydritic infilling.
- 5741' - 5742' Limestone - light gray light grayish brown light brown, cryptocrystalline to microsucrosic, pinpoint porosity to small vugs, scattered anhydritic, scattered fossils.
- 5742' - 5743' Limestone - as above.
- 5743' - 5744' Limestone - brown grayish brown, microcrystalline to sucrosic, abundant pinpoint to vugs 1 - 5 MM, excellent oil stain, fluorescence, black to brown oil stain, traces scattered anhydritic crystals, traces of fossils.

- 5744' - 5745' Limestone - as above with large vugs up to 1 to 2 inches.
- 5745' - 5746' Limestone - as above, friable, very vuggy.
- 5746' - 5747' Limestone - as above, oil saturated.
- 5747' - 5748' Limestone - as above.
- 5748' - 5749' Limestone - grayish brown light to medium brown, micro-sucrosic to microcrystalline, abundant pinpoint to small vugs up to 2 - 3 MM, scattered 5 MM, good black to brown oil stain with good fluorescence and bleeding to streaming cut, interbedded with thin tight layers.
- 5749' - 5750' Limestone - medium gray scattered brown, microcrystalline to microsucrosic, pinpoint to small vugs with oil stain and fluorescence, vugs up to 2 MM.
- 5750' - 5751' Limestone - as above with vugs up to 5 MM, anhydrite crystalline lined vugs with oil stain, fluorescence and cuts.
- 5751' - 5752' Limestone - as above, slightly tight, pinpoint porosity to small vugs.
- 5752' - 5753' Limestone - as above with pinpoint to small vugs 1 - 3 MM, oil saturated.
- 5753' - 5754' Limestone - gray scattered light brown, increasing anhydrite, slightly tight.
- 5754' - 5755' Limestone - as above, scattered vugs 1 - 3 MM, oil saturated.
- 5755' - 5756' Limestone - gray brown, slightly anhydritic, pinpoint to small vugs 1 - 2 MM, black oil stain.
- 5756' - 5757' Limestone - as above, abundant vugs up to 3 MM, oil saturated.
- 5757' - 5758' Limestone - brown grayish brown, dolomitic pinpoint to small vugs with oil stain.
- 5758' - 5759' Limestone - brown, microsucrosic to sucrosic, abundant vugs up to 1 - 5 MM with oil stain fluorescence and cut.
- 5759' - 5760' Limestone - gray to brown medium grayish brown, micro-sucrosic, scattered sucrosic to microcrystalline, pinpoint to small vugs 1 - 3 MM with oil stain and fluorescence, scattered anhydritic crystals, scattered fossils.
- 5760' - 5761' Limestone - as above, oil stained.
- 5761' - 5762' Limestone - as above, vugs up to 5 MM, oil stained.

- 5762' - 5763' Limestone - as above, oil stained.
- 5763' - 5764' Limestone - as above.
- 5764' - 5765' Limestone - as above, scattered anhydritic inclusions.
- 5765' - 5766' Limestone - as above.
- 5766' - 5767' Limestone - grayish brown, scattered pinpoint to small vugs, anhydritic in part.
- 5767' - 5768' Limestone - pinpoint porosity to small 1 - 2 MM vugs, dolomitic in part, microsugrosic, scattered anhydritic, crystalline, oil stained.
- 5768' - 5769' Limestone - as above, pinpoint to small vugs, good oil stained with fluorescence and cut.
- 5769' - 5770' Limestone - brown, microsugrosic, fair pinpoint to scattered small vugs, increasing tight scattered anhydritic crystals, good oil stain and fluorescence.
- 5770' - 5771' Limestone - as above.
- 5771' - 5772' Limestone - gray, dense, tight, scattered black stain with pinpoint porosity.
- 5772' - 5773' Limestone - gray dark gray, dense, tight, no oil stain.
- 5773' - 5774' Limestone - tight as above, no oil stain fluorescence or cut.
- 5774' - 5775' Shale - black to dark gray, blocky to splintery, slightly limy in part, soft, earthy to silty in part.
- 5775' - 5776' Shale - as above.

SUMMARY

Prospect Overview

The primary objective of Duncan Exploration Company's No. 3-3 Cave Canyon was the porosity interval in the Upper Ismay Zone of the paradox formation. The well was drilled to 6029' (E-log depth) along the SE trend of an algal mound discovered by Raymond T. Duncan (No. 1 Wells Federal) in 1984 and offset by Duncan (No. 3-1 and No. 3-2 Cave Canyon Federal). The location of No. 3-3 was approximately halfway between the 3-1 and 3-2 Cave Canyon wells and slightly northeast of the mound trend. No. 3-3 was the target of a similar development in the mound as No. 3-1. By coring the full mound it was hoped that a good understanding in reservoir analysis could be obtained from No. 3-3. The Lower Desert Creek Porosity Zone was a secondary target, and Lower Ismay and Upper Desert Creek were tertiary targets.

The Upper Ismay Porosity Zone of the Paradox Formation at this location (No. 3-3 Cave Canyon) existed stratigraphically slightly lower than No. 3-1 (14 feet) and was overall in thickness 29' thinner; 118' in 3-3 compared to 147' thick in 3-1 Cave Canyon. Compared to No. 3-2 Cave Canyon this location had 38' more mound development and was located 44' higher structurally.

The Lower Desert Creek Porosity Zone at this location was not well developed. Dolomitic density porosity indicated fair porosity but was not very clean indicating anhydritic to argillaceous infilling and low resistivity. The Lower Ismay Zone was also tight with very low porosity and no shows. The Upper Desert Creek Zone did exhibit an interval with fair porosity (3' interval with 10% to 15% porosity). This interval was not a clean carbonate with anhydrite and argillaceous infilling and no shows were observed.

Formation Summary

Hermosa Group - Honaker Trail Formation

Several sand intervals were penetrated at this location and they were all partially filled with clay. No gas to very slight increases were observed and no shows noted from samples.

Upper Ismay Porosity Zone (5661' - 5779'; 118' mound buildup)

Porosity values varied throughout the mound from a maximum of 26% average at the top to 3% minimum at the bottom of the mound. A total of 22' exhibited average porosities of 15% or higher, 46' had average porosity values of 10% to 15%. 32' had porosity values of 7.5% - 10% and 18' with less than 7.5%. An examination of just density porosity values revealed a total of 6' with 20% or higher. 16' with 15% - 20%, 46' with 10% - 15% and 50' with less than 10% density porosity. Several zones with excellent permeability was noted from the cores. We cored 115' of this interval and recovered 60'. Several excellent zones with good to excellent porosity and permeability were noted. Excellent

Upper Ismay Porosity Zone (continued)

oil stain was observed with oil seeping from the core in several intervals. Even the tight zones were oil saturated. The gas oil ratio (GOR) was low and gas detecting equipment recorded only 20 unit increases while coring the Upper Ismay. Water saturation values all calculated very low with the best pay zones possessing 10% Sw or less. No indication of water was observed from drilling or coring this interval.

Lower Ismay Zone

No significant porosity was observed. The limestones of this interval were tight and anhydritic.

Upper Desert Creek Zone

A thin interval of 4' existed with fair porosity. A small gas increase with corresponding increases in chromatograph readings indicated some porosity with possible hydrocarbons. No shows were seen from sample examination. The dolomites were not clean and a fair amount of argillaceous material was present.

Lower Desert Creek Zone

This interval was thin and the dolomites were argillaceous and anhydritic. No large mound indication was present at this location. A fair gas increase was noted indicating fair porosity. Gas increased from a background of 10 units to a peak of 84 units. Gas values then dropped back to a background of 10 - 15 units indicating no to very low permeability.

Post Drilling Comments

5 1/2" production casing was set to produce the hydrocarbons of the Upper Ismay Porosity Zone in the Paradox Formation. The top of the Hovenweep shale or the bottom of the mound development at this location compared to No. 3-1 Cave Canyon indicates that the mound thins to the northeast. The Hovenweep shale was 15' higher stratigraphically and 9' thicker compared to No. 3-1 Cave Canyon. This indicates that this location lies on the northeast down dip flank of the mound on the top of the mound with thinning of the mound at the bottom. Only further drilling to the northeast will determine how far the mound extends.

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
OCT 24 1988

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Raymond T. Duncan

3. ADDRESS OF OPERATOR
1777 S. Harrison St. PH-1 Denver, Co. 80210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
2635' FNL and 1390' FWL SENW

16. PERMIT NO.
43-037-31413

18. ELEVATIONS (Show whether of. wt. or. etc.)
5240' GR, 5254' KB

5. LEASE DESIGNATION AND SERIAL NO.
U-47876

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cave Canyon Federal

9. WELL NO.
3-3

10. FIELD AND FOOT, OR WILDCAT
Wildcat

11. SEC. T. B. M. OR B.L.E. AND SURVEY OR ASSA

Sec 3, T38S R24E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF PULL OR ALTER CASING
FRACTURE TREAT. MULTIPLE COMPLETE
SHOOT OR ACIDIZE ABANDONMENT
REPAIR WELL CHANGE PLANS
(Other) Notification of Spud

SUBSEQUENT REPORT OF:

WATER SHUT-OFF REPAIRING WELL
FRACTURE TREATMENT ALTERING CASING
SHOOTING OR ACIDIZING ABANDONMENT
(Other)

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well was spud 6-14-88 at 3:30 A.M. with Coleman rig #4

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

SIGNED [Signature]

TITLE Operations Superintendent

DATE June 14, 1988

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

COMMENTS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate*
(Other instructions on re-
verse side)

Form approved
Budget Bureau No. 1004-0115
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
OCT 24 1988

5. LEASE DESIGNATION AND SERIAL NO.
U-47876

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cave Canyon Federal

9. WELL NO.
3-3

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA
Sec. 3-T38S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Raymond T. Duncan

3. ADDRESS OF OPERATOR
1777 So. Harrison St., PH-1, Denver, CO 80210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2365' ENL- & 1390' FWL (SENW)

14. PERMIT NO.
43-037-31413

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
5240' GR, 5254' KB

DIVISION OF
OIL-GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) Monthly Report of Operations

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was spud 3:00 A.M. 6/14/88. Surface casing was set at 1900'. A 7-7/8" hole was drilled to 6026'. A 5-1/2" casing string was run and cemented. The well is waiting on completion as of 6/30/88.

I hereby certify that the foregoing is true and correct

SIGNED J. A. Bettridge TITLE Operations Superintendent DATE July 5, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

Budget Bureau No. 4-0115
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

U-47876

IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

UNIT AGREEMENT NAME

N/A

FARM OR LEASE NAME

Cave Canyon Federal

WELL NO.

3-3

FIELD AND POOL, OR WILDCAT

Wildcat

SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 3-T38S-R24E

COUNTY OR PARISH

San Juan

STATE

UT

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug proposed work. Use "APPLICATION FOR PERMIT—" for such work.)

RECEIVED
OCT 24 1988

DIVISION OF
OIL, GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Raymond T. Duncan

3. ADDRESS OF OPERATOR
1777 So. Harrison St., PH-2, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

2365' FNL & 1390' FWL (SEW)

14. PERMIT NO.
43-037-31413

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5240' GR, 5254' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOTING OR ACIDIZING

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) First Sales

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First sales were July 23, 1988 from test tanks. The well is now shutin, waiting on hookup to the permanent battery.

I hereby certify that the foregoing is true and correct

SIGNED

J. A. Bettridge
J. A. Bettridge

TITLE Operations Superintendent

DATE August 10, 1988

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Not approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-47876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

UNIT AGREEMENT NAME

N/A

7. FARM OR LEASE NAME

Cave Canyon Federal

9. WELL NO.

3-3

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 3-T38S-R24E

12. COUNTY OR PARISH 13. STATE

San Juan

UT

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug
Use "APPLICATION FOR PERMIT" for such purposes.)

RECEIVED
OCT 24 1988

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Raymond T. Duncan

3. ADDRESS OF OPERATOR
1777 So. Harrison St., PH-1, Denver, Colorado

DIVISION OF
OIL, GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2365' FNL & 1390' FWL (SENW)

14. PERMIT NO.
43-037-31413

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5240' GR, 5254' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL 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) <u>Operations</u> <input type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well has been put on production to the battery as of August 30, 1988.

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

SIGNED J. A. Bettridge
J. A. Bettridge
(This space for Federal or State office use)

TITLE Operations Superintendent DATE Sept. 12, 1988

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN ORIGINAL COPY

6

WELL COMPLETION OR RECOMPLETION REPORT

5. LEASE DESIGNATION AND SERIAL NO.

U-47876

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

5. FARM OR LEASE NAME

Cave Canyon Federal

9. WELL NO.

3-3

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 3-T38S-R24E

12. COUNTY OR PARISH

San Juan

13. STATE

UT

19. ELEV. CASINGHEAD

DIVISION OF
OIL, GAS & MINING

RECEIVED
OCT 24 1988

CONFIDENTIAL

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

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

2. NAME OF OPERATOR

Raymond T. Duncan

3. ADDRESS OF OPERATOR

1777 So. Harrison St, PH-1, Denver, Colorado 80210

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

At surface 2635' FNL & 1390' FWL (SENW)

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-037-31413

DATE ISSUED

5/26/88

15. DATE SPUDDED

6-14-88

16. DATE T.D. REACHED

6-26-88

17. DATE COMPL. (Ready to prod.)

9-2-88

18. ELEVATIONS (DF, REB, RT, GR, ETC.)

5254' KB; 5240' GR

20. TOTAL DEPTH, MD & TVD

6026'

21. PLUG, BACK T.D., MD & TVD

5942'

22. IF MULTIPLE COMPL., HOW MANY

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-6026'

CABLE TOOLS

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

Ismay (5662-5774')

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

FDC, CNL, DIL/SFL, BHC Sonic, SHDT, Cyberlook mud

27. WAS WELL CORED

Yes

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	82'	17 1/2"	100 sx Class "B"	None
8 5/8"	24#	1900'	12 1/4"	1050 sx lite & Class B	None
5 1/2"	15.5#	6026'	7 7/8"	400 sx "B" + 5#/sx salt w/ 3% CD 311	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5639'	5635'

31. PERFORATION RECORD (Interval, size and number)

5744-52' (4 JSPF)	5752-74' (4 JSPF)
5700-10' (4 JSPF)	5710-44' (4 JSPF)
5662-70' (4 JSPF)	5670-5700' (4 JSPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5700-10', 44-52', 5662-70'	250 gals. 15% HCl each interval
5662-5774'	4800 gal 28% FE acid

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
7-28-88	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-1-88	24	21/64"	→	375	787 est.	0	2100 (est)
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
400 psi	0	→	375	787 est.	0	45.2	

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

Sold

TEST WITNESSED BY

Robert Knuckles

35. LIST OF ATTACHMENTS

Core Analysis; Geologic Report

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

SIGNED

J.A. Bettridge

TITLE Operations Superintendent

DATE 9-20-88

See Spaces for Additional Data on Reverse Side

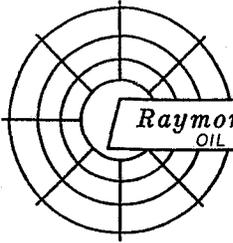
37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.														
			<p>See attached Core Analysis & Geological Report</p> <table border="1" data-bbox="662 804 971 1276"> <thead> <tr> <th colspan="2">OIL AND GAS</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>RJF</td> </tr> <tr> <td>JRB</td> <td>GLH</td> </tr> <tr> <td>DTS</td> <td>SLS</td> </tr> <tr> <td>1-TAS</td> <td>✓</td> </tr> <tr> <td>3- MICROFILM</td> <td></td> </tr> <tr> <td>3- FILE</td> <td></td> </tr> </tbody> </table>	OIL AND GAS		DRN	RJF	JRB	GLH	DTS	SLS	1-TAS	✓	3- MICROFILM		3- FILE	
OIL AND GAS																	
DRN	RJF																
JRB	GLH																
DTS	SLS																
1-TAS	✓																
3- MICROFILM																	
3- FILE																	

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH



Raymond T. Duncan
OIL PROPERTIES

1777 SOUTH HARRISON STREET • PENTHOUSE ONE
TELEPHONE (303) 759-3303 • DENVER, COLORADO 80210

RECEIVED
DEC 12 1988

DIVISION OF
OIL, GAS & MINING

December 9, 1988

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

Re: Cave Canyon Battery
T38S-R24E
San Juan Co., Utah

Gentlemen:

Enclosed is the sundry notice regarding the installation of a LACT Unit on the above captioned battery.

Please contact me if you have any questions or need additional information.

Very truly yours,

RAYMOND T. DUNCAN

J. A. Betteridge

J. A. Betteridge
Operations Superintendent

JAB:nr
Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form received
Budget Bureau No. 1004-0115
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
DEC 12 1988

1. OIL WELL GAS WELL OTHER Central-Battery

2. NAME OF OPERATOR Raymond T. Duncan

3. ADDRESS OF OPERATOR 1777 So. Harrison St., PH-1, Denver, CO 80210

4. LOCATION OF WELL (Report location clearly and in accordance with Any State requirements.*
See also space 17 below.)
At surface NE SW

5. ELEVATIONS (Show whether DF, RT, GR, etc.)

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

7. UNIT AGREEMENT NAME N/A

8. FARM OR LEASE NAME Cave Canyon Federal

9. WELL NO. Central Battery

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., S., M., OR B.L. AND SURVEY OR AREA T38S-R24E

12. COUNTY OR PARISH San Juan

13. STATE UT

14. PERMIT NO. N/A

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- (Other)

- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- ABANDON*
- CHANGE PLANS

- WATER SHUT-OFF
- FRACTURE TREATMENT
- SHOOTING OR ACIDIZING
- (Other) Operations

- REPAIRING WELL
- ALTERING CASING
- ABANDONMENT*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

LACT Unit has been installed on the main battery. LACT was proved and put into operation on December 2, 1988. Proving was witnessed by Mike Wade of the BLM. Updated site security diagram will be sent.

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

SIGNED J. A. Bettridge TITLE Operations Superintendent DATE Dec. 9, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DUNCAN ENERGY COMPANY

PENTHOUSE ONE
1777 SOUTH HARRISON STREET
DENVER, COLORADO 80210-3925
TELEPHONE (303) 759-3303
FAX (303) 757-0252

RECEIVED
NOV 16 1990

November 15, 1990

Utah Natural Resources Oil Gas & Mining
3 Triad Center
Suite 350
Salt Lake City, Utah 84180-1203

Gentlemen:

Enclosed please find a Sundry notice for the Cave Canyon Federal
3-3, T38S R24E Section 3 SENW San Juan County, UT.

If you have any questions or require further information, please
call Marie O'Keefe of this office.

Raymond T. Duncan is still the operator of this waterflood.

Yours truly,

Marie O'Keefe

Marie O'Keefe
Engineering Technician

/mo

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Raymond T. Duncan</p> <p>3. ADDRESS OF OPERATOR 1777 S. Harrison St., P-1 Denver, CO. 80210</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2365' FNL & 1390' FWL (SENW)</p> <p>14. PERMIT NO. 43-037-31413 POW</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U-47876</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME Cave Canyon Federal</p> <p>9. WELL NO. 3-3</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 3-38S-24E</p> <p>12. COUNTY OR PARISH 13. STATE San Juan UT</p>
<p>15. ELEVATIONS (Show whether DF, ST, GR, etc.) 5240' GR, 5254' KB</p>	

18. 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 checked="" 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) <input type="checkbox"/>	
(Other) <input type="checkbox"/>			

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/7/90 POOH with rods and tubing. Set retrievable bridge plug at 5725'-5735'. RIH with rods and pump. Return well to production.

RECEIVED

NOV 16 1990

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SIGNED Charles B. Hillard TITLE Operations Superintendent DATE November 15, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DUNCAN ENERGY COMPANY

PENTHOUSE ONE

1777 SOUTH HARRISON STREET

DENVER, COLORADO 80210-3925

TELEPHONE (303) 759-3303

FAX (303) 757-0252

RECEIVED
JAN 23 1991

January 21, 1991

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

DIVISION OF
OIL, GAS & MINING

Gentlemen:

Enclosed please find sundry notice for the change of operatorship from Raymond T. Duncan to Duncan Energy Company for the Cave Canyon Lease Waterflood.

If you require further data please contact Marie O'Keefe of this office.

Sincerely,

Marie O'Keefe

Marie O'Keefe
Engineering Technician

/mo

cc: State of Utah
3 Triad Center #350
Salt Lake City, UT 84180-1203

Effective 6-21-90
per Marie O'Keefe

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
JAN 23 1991

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Raymond T. Duncan

3. Address and Telephone No.
 1777 S. Harrison St. P-1 Denver, CO 80210 303-759-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 T37S R24E Sec 33 SWSE

5. Lease Designation and Serial No.
 UTU40751

6. If Indian, Allottee or Tribe Name
 NA

7. If Unit or CA, Agreement Designation
 Cave Canyon Lease Waterflood

8. Well Name and No.
 Cave Canyon Fed. 1-33

9. API Well No.
 43-037-31276

10. Field and Pool, or Exploratory Area
 Cave Canyon Ismay

11. County or Parish, State
 San Juan, UT

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

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

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

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

Raymond T. Duncan was the previous operator of the referenced well. Duncan Energy Company is now the operator of record. Offices, personnel and all operations will continue to be the same for Duncan Energy Company as they were for Raymond T. Duncan. Duncan Energy Company is responsible under the terms and conditions of the lease for operations conducted on the leased lands. This referenced well is in the Cave Canyon Lease Waterflood.

cc: State of Utah

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

Signed W. S. Falls Title Production Manager Date January 21, 1991

(This space for Federal or State office use)

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
JAN 23 1991

1. Type of Well
 Oil Well Gas Well Other See Below

2. Name of Operator
Raymond T. Duncan

3. Address and Telephone No.
1777 S. Harrison St. P-1 Denver, CO. 80210 303-759-3303

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

5. Lease Designation and Serial No.
U-47876

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Cave Canyon Lease
Waterflood

8. Well Name and No.
See Below

9. API Well No.
See Below

10. Field and Pool, or Exploratory Area
Cave Canyon Ismay

11. County or Parish, State
San Juan, Utah

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

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

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

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

Raymond T. Duncan was the previous operator of the Cave Canyon Lease Waterflood. Duncan Energy Company is now the operator of record for the Cave Canyon Lease Waterflood. Offices, personnel and all operations will continue to be the same for Duncan Energy Company as they were for Raymond T. Duncan. Duncan Energy Co. is responsible under the terms and conditions of the lease for operations conducted on the leased lands.

WELL NAME	LOCATION	WELL STATUS	API #
Cave Canyon 3-2	T38S R24E Sec 3	NESW Producing Oil Well	43-037-31120
Cave Canyon 4-3	" " " 4	NENE " " "	43-037-31414
Cave Canyon 3-3	" " " 3	SENW Shut in Oil Well	43-037-31413
Wells Federal 1-4	" " " 4	NENE Producing Oil Well	43-037-31028
Cave Canyon 3-1	" " " 3	SWNW Water Injection Well	43-037-31095
1-Cave Canyon WSW	" " " 3	NESW Water Supply Well	43-037-99998
Cave Canyon 4-4	" " " 4	NENE Producing Oil Well	43-037-31539
Cave Canyon 12-3	" " " 3	SWNW Completing Oil Well	43-037-31567
Cave Canyon 13-3	" " " 3	NWSW Approved Drlg Location	43-037-31570
Cave Canyon 3-4	" " " 3	NWNW " " "	43-037-31542
Cave Canyon 3-5	" " " 3	NWSE " " "	43-037-31541

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

Signed J. J. Fallon Title Production Manager Date January 21, 1991

(This space for Federal or State office use)

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

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Location) Sec _____ Twp _____ Rng _____
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPERATOR CHANGE
FILE.

1. Date of Phone Call: 1-28-91 Time: 10:00

2. DOGM Employee (name) L. ROMERO (Initiated Call)
Talked to:

Name MARIE O'KEEFE (Initiated Call) - Phone No. (303) 759-3303

of (Company/Organization) DUNCAN ENERGY COMPANY/N3370

3. Topic of Conversation: EFFECTIVE DATE OF OPERATOR CHANGE.

4. Highlights of Conversation: EFFECTIVE DATE 6-21-90, ALSO NO DOCUMENTATION

REQUIRED FROM RAYMOND T. DUNCAN (DUNCAN ENERGY COMPANY & RAYMOND T. DUNCAN ARE
ONE IN THE SAME COMPANY).



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

January 30, 1991

Duncan Energy Company
PH 1, 1777 S. Harrison St.
Denver, Colorado 80210

Gentlemen:

RE: Transfer of Authority to Inject - Cave Canyon #3-1 Well, Sec. 3, T. 38S,
R. 24E - San Juan County, Utah

The Division has received a request of operator change for the Cave Canyon #3-1 Well, from Raymond T. Duncan to Duncan Energy Company.

Please complete and return to our office the enclosed UIC Form 5, as required by R615-8-21 of the Oil and Gas Conservation General Rules.

If I can be of assistance, please contact me at (801)538-5340.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gil Hunt".

Gil Hunt
UIC Manager

lr
Enclosure

Routing:

1-
2-
3-
4-
5-
6-

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: _____)

TO (new operator) DUNCAN ENERGY COMPANY FROM (former operator) DUNCAN, RAYMOND T.
 (address) _____ (address) _____

 phone () _____ phone () _____
 account no. N 3370 account no. N0360

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

Name: CAVE CANYON FED 13-3/DRL API: 4303731570 Entity: 99999 Sec 3 Twp 38S Rng 24E Lease Type: U-47876
 Name: CAVE CYN FED 3-4/DRL API: 4303731542 Entity: 99999 Sec 3 Twp 38S Rng 24E Lease Type: U-47876
 Name: CAVE CYN FED 3-5/DRL API: 4303731541 Entity: 99999 Sec 3 Twp 38S Rng 24E Lease Type: U-47876
 Name: CAVE CANYON #1-33/ISMY API: 4303731276 Entity: 9775 Sec 33 Twp 37R Rng 24E Lease Type: U-40751
 Name: CAVE CANYON 1 (WSW) API: (NOT ON SYS) Entity: _____ Sec 3 Twp 38S Rng 24E Lease Type: U-47876
 Name: (Water Rights) API: _____ Entity: _____ Sec _____ Twp _____ Rng _____ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec _____ Twp _____ Rng _____ Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

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

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 5, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

INDEXING

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

FILED

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

REMARKS

Routing:	
1- LCR	<input checked="" type="checkbox"/>
2- DTS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
6- LCR	<input checked="" type="checkbox"/>

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: 6-21-90)

TO (new operator) <u>DUNCAN ENERGY COMPANY</u>	FROM (former operator) <u>DUNCAN, RAYMOND T.</u>
(address) <u>PH 1, 1777 S. HARRISON ST.</u>	(address) <u>1777 S. HARRISON ST., PH 1</u>
<u>DENVER, CO 80210</u>	<u>DENVER, CO 80210</u>
phone (303) <u>759-3303</u>	phone (303) <u>759-3303</u>
account no. <u>N 3370</u>	account no. <u>N 0360</u>

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

Name: <u>CAVE CANYON #3-2/ISMY</u>	API: <u>4303731120</u>	Entity: <u>9775</u>	Sec <u>3</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>CAVE CYN FED 4-3/ISMY</u>	API: <u>4303731414</u>	Entity: <u>9775</u>	Sec <u>4</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>CAVE CYN FED 3-3/ISMY</u>	API: <u>4303731413</u>	Entity: <u>9775</u>	Sec <u>3</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>WELLS FED #1/ISMY</u>	API: <u>4303731028</u>	Entity: <u>9775</u>	Sec <u>4</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>CAVE CANYON #3-1/ISMY</u>	API: <u>4303731095</u>	Entity: <u>9775/wlw</u>	Sec <u>3</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>CAVE CANYON FED 4-4/ISMY</u>	API: <u>4303731539</u>	Entity: <u>9775</u>	Sec <u>4</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>
Name: <u>CAVE CANYON FED 12-3/DR</u>	API: <u>4303731567</u>	Entity: <u>9775</u>	Sec <u>3</u> Twp <u>38SRng24E</u>	Lease Type: <u>U-47876</u>

OPERATOR CHANGE DOCUMENTATION

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec. 1-23-91)*
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec. 1-23-91)*
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) yes If yes, show company file number: # 110244. *(1-28-91)*
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(1-31-91)*
6. Cardex file has been updated for each well listed above.
7. Well file labels have been updated for each well listed above.
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO (If entity assignments were changed, attach copies of Form 5, Entity Action Form). *Case Cyn. Unit / Ismy PA.*
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

MICROFILMING

1. All attachments to this form have been microfilmed. Date: February 5 1991.

FILED

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

REMARKS

910128 Btm/meab Have received documentation, bonding looks ok. Is not approved as of yet. will call when approved.

910129 Btm Approved all wells eff. 6-21-90. (Unit Oper. Duncan Energy Company)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED

~~DEC - 9 1992~~

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

U-47876

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Cave Canyon Federal 3-3

9. API Well Number:

43-037-31413

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:

Duncan Energy Company

3. Address and Telephone Number:

1777 S. Harrison, P-1, Denver, CO 80210 (303) 759-3303

4. Location of Well

Footages: 2365' FNL & 1390' FWL

QQ, Sec., T., R., M.: SENW, 3-38S-24E

County: San Juan

State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

The Cave Canyon Federal 3-3 is in the Cave Canyon Waterflood Unit and future plans are to use it as an injection well.

RECEIVED

FEB 18 1993

DIVISION OF
OIL GAS & MINING

13.

Name & Signature: Brenda Kelsch *Brenda Kelsch* Title: Production Clerk Date: 2/16/93

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
SEP 23 1993

5. Lease Designation and Serial No.
U-47876

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Cave Canyon Federal

8. Well Name and No.
Cave Canyon Fed. 3-3

9. API Well No.
43-037-31413

10. Field and Pool, or Exploratory Area
Cave Canyon, Ismay

11. County or Parish, State
San Juan, Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Duncan Energy Company

3. Address and Telephone No.
1777 S. Harrison St. Denver, CO 80210 (303) 759-3303

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
2365' FNL & 1390' FWL, SENW 3-38S-24E

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

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

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

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

Duncan Energy requests temporary abandonment status for the subject well. The well is used intermittently to monitor reservoir pressure and for production testing. Duncan is evaluating the well for a workover to return the well to full production.

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

DATE: 9-24-93
BY: [Signature]

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

Signed [Signature]

Title **Sr. Engineering Technician**

Date **9-21-93**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

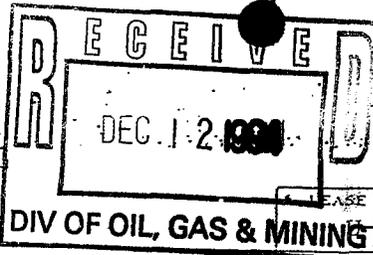
Title _____

Date _____

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

*See Instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



LEASE DESIGNATION & SERIAL NO.
47876

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 type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Duncan Energy Company		8. FARM OR LEASE NAME Cave Canyon Federal	
3. ADDRESS OF OPERATOR 1777 S. Harrison Street, Suite P-1, Denver, Colorado 80210		9. WELL NO. 3-3	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2365' FNL & 1390' FWL At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT Cave Canyon, Ismay	
14. API NO. 43-037-31413		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA. SENW, 3-38S-24E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		12. COUNTY San Juan	13. STATE Utah

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"/>	

Annual Status Report
APPROX. DATE WORK WILL START _____

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) <input type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

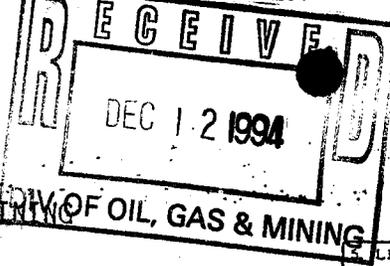
The Cave Canyon 3-3 remains shut-in due to water breakthrough from offset injection. An attempt was made in April to shut off water production and return the well to economic production, but was unsuccessful as we were unable to adequately bleed pressure off the well. An overall study of field operations is underway at this time, and a recommendation regarding the future status of the Cave Canyon 3-3 will be forthcoming within the next six months. The options being considered are to a) convert the well to injection, b) seek approval to leave the well shut-in and utilize it as a pressure monitoring site, or c) to permanently abandon the well.

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

SIGNED [Signature] TITLE Senior Engineering Tech DATE 12-5-94

(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

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>2. LEASE DESIGNATION & SERIAL NO. U-47876</p>	
<p>2. NAME OF OPERATOR Duncan Energy Company</p>		<p>6. IF INDIAN ALLOTTEE OR TRIBE NAME</p>	
<p>3. ADDRESS OF OPERATOR 1777 S. Harrison Street, Suite P-1, Denver, Colorado 80210</p>		<p>7. UNIT AGREEMENT NAME</p>	
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2365' FNL & 1390' FWL At proposed prod. zone</p>		<p>8. FARM OR LEASE NAME Cave Canyon Federal</p>	
<p>14. API NO. 43-037-31413</p>		<p>9. WELL NO. 3-3</p>	
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>10. FIELD AND POOL, OR WILDCAT Cave Canyon, Ismay</p>	
<p>12. COUNTY San Juan</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA. SENW, 3-38S-24E</p>	
<p>13. STATE Utah</p>			

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) _____	
(Other) _____		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
Annual Status Report		DATE OF COMPLETION _____	
APPROX. DATE WORK WILL START _____			

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.

The Cave Canyon 3-3 remains shut-in due to water breakthrough from offset injection. An attempt was made in April to shut off water production and return the well to economic production, but was unsuccessful as we were unable to adequately bleed pressure off the well. An overall study of field operations is underway at this time, and a recommendation regarding the future status of the Cave Canyon 3-3 will be forthcoming within the next six months. The options being considered are to a) convert the well to injection, b) seek approval to leave the well shut-in and utilize it as a pressure monitoring site, or c) to permanently abandon the well.

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

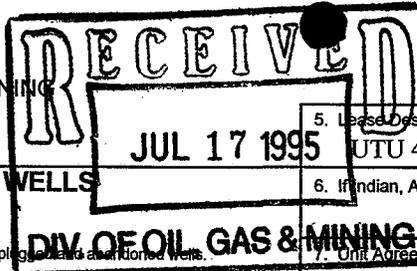
SIGNED [Signature] TITLE Senior Engineering Tech DATE 12-5-94

(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



SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation and Serial Number:

UTU 47876

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Cave Canyon Federal 3-3

2. Name of Operator:

Giant Exploration & Production Company

9. API Well Number:

43-037-31413

3. Address and Telephone Number:

P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

4. Location of Well:

Footages: 2365' FNL, 1390' FWL

County: San Juan.

QQ, Sec., T.,R.,M.: SE/4, NW/4, Sec. 3, T38S, R24E

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

SUBSEQUENT REPORT

(Submit Original Form Only)

Abandonment

New Construction

Abandonment *

New Construction

Casing Repair

Pull or Alter Casing

Casing Repair

Pull or Alter Casing

Change of Plans

Recompletion

Change of Plans

Shoot or Acidize

Conversion to Injection

Shoot or Acidize

Conversion to Injection

Vent or Flare

Fracture Treat

Vent or Flare

Fracture Treat

Water Shut-Off

Multiple Completion

Water Shut-Off

Other Change of Operator

Other _____

Date of work completion _____

Approximate date work will start _____

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

* Must be accompanied by a cement verification report.

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

Giant Exploration & Production Company purchased the above mentioned well from Duncan Energy Company effective 06-23-95.

13.

Name & Signature Jeffrey R. Vaughan

Title: Vice President/Operations

Date: JUL 14 1995

(This space for State use only)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**
SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

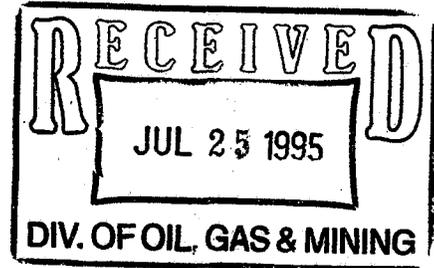
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UTU47876
2. Name of Operator Giant Exploration & Production Company	6. Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	8. Well Name and No.
	9. API Well No.
	10. Field and Pool, or Exploratory Area Cave Canyon
	11. County or Parish, State San Juan, Utah

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent 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.)*
Giant Exploration & Production Company purchased the above mentioned lease from Duncan Energy Company effective 06-23-95. Giant's bond number is SLR 111 3289 3097.

- Listed below is the purchased well and API # for Lease Number UTU47876:
- Cave Canyon Federal 3-1 - API # 43-037-31095
 - Cave Canyon Federal 3-2 - API # 43-037-31120
 - Cave Canyon Federal 3-3 - API # 43-037-31413
 - Cave Canyon Federal 4-3 - API # 43-037-31414
 - Cave Canyon Federal 4-4 - API # 43-037-31539
 - Cave Canyon Federal 4-5 - API # 43-037-31695
 - Cave Canyon Federal 12-3 - API # 43-037-31567
 - Cave Canyon WSW 1 - API # 43-037-99998
 - Wells Federal 1-4 - API # 43-037-31028



14. I hereby certify that the foregoing is true and correct
Signed Jeffrey R. Vaughan Title Vice President/Operations Date JUL 14 1995

(This space for Federal or State office use)
Approved by _____ Title Associate District Manager Date _____
Conditions of approval, if any: CONDITIONS OF APPROVAL ATTACHED

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

*See Instruction on Reverse Side

Giant Exploration & Production Company
Several Wells
Secs. 3 & 4, T. 38 S., R. 24 E.
San Juan County, Utah
Lease UTU47876

CONDITIONS OF APPROVAL

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

Be advised that Giant Exploration & Production Company is considered to be the operator of the above wells and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by NM1759 (Principal - Giant Exploration & Production Company) via surety consent as provided for in 43 CFR 3104.2.

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

m OGCC-1 b

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Duncan Energy Company

3. ADDRESS OF OPERATOR
1777 South Harrison Street, P-1, Denver, CO 80210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
See Below

5. LEASE DESIGNATION AND SERIAL NO.
UTU47876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT
Cave Canyon

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

14. PERMIT NO.

15. ELEVATIONS (Show whether DT, ST, OR, etc.)

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective 6-23-95, Giant Exploration & Production Company has taken over operations of the above-mentioned lease. Listed below are the purchased wells and API #s for Lease Number UTU47876:

- Cave Canyon Federal 3-1 - API #43-037-31095, Sec. 3-T38S-R24E
- Cave Canyon Federal 3-2 - API #43-037-31120, Sec. 3-T38S-R24E
- Cave Canyon Federal 3-3 - API #43-037-31413, Sec. 3-T38S-R24E
- Cave Canyon Federal 4-3 - API #43-037-31414, Sec. 4-T38S-R24E
- Cave Canyon Federal 4-4 - API #43-037-31539, Sec. 4-T38S-R24E
- Cave Canyon Federal 4-5 - API #43-037-31695, Sec. 4-T38S-R24E
- Cave Canyon Federal 12-3 - API #43-037-31567, Sec. 3-T38S-R24E
- Cave Canyon WSW 1 - API #43-037-99998, Sec. 3-T38S-R24E
- Wells Federal 1-4 - API #43-037-31028, Sec. 4-R38S-R24E

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

SIGNED Van E. Spence TITLE Sr. Production Engineer DATE 6/4/95

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC / GIL	✓
2-LWP 7-PL	✓
3-DES 8-SJ	✓
4-VL 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: 6-23-95)

TO (new operator) **GIANT EXPLOR & PROD CO**
 (address) **PO BOX 2810**
FARMINGTON NM 87499
 phone (505) 326-3325
 account no. N 0075

FROM (former operator) **DUNCAN ENERGY COMPANY**
 (address) **1777 S HARRISON ST PH #1**
DENVER CO 80210
 phone (303) 759-3303
 account no. N3370

Well(s) (attach additional page if needed): ***WIW (CAVE CANYON SECONDARY RECOVERY UNIT)**

Name: **CAVE CANYON 1-33/ISMY** API: **43-037-31276** Entity: **9775** Sec **33** Twp **37S** Rng **24E** Lease Type: **U40751**
 Name: ***CAVE CANYON 3-1/ISMY** API: **43-037-31095** Entity: **9775** Sec **3** Twp **38S** Rng **24E** Lease Type: **U47876**
 Name: **CAVE CANYON 3-2/ISMY** API: **43-037-31120** Entity: **9775** Sec **3** Twp **38S** Rng **24E** Lease Type: **U47876**
 Name: ***CAVE CANYON 3-3/ISMY** API: **43-037-31413** Entity: **9775** Sec **3** Twp **38S** Rng **24E** Lease Type: **U47876**
 Name: **CAVE CANYON FED 4-3/IS** API: **43-037-31414** Entity: **9775** Sec **4** Twp **38S** Rng **24E** Lease Type: **U47876**
 Name: **CAVE CANYON FED 4-4/IS** API: **43-037-31539** Entity: **9775** Sec **4** Twp **38S** Rng **24E** Lease Type: **U47876**
 Name: **CAVE CANYON FED 4-5/IS** API: **43-037-31695** Entity: **9775** Sec **4** Twp **38S** Rng **24E** Lease Type: **U47876**
 CONT...

OPERATOR CHANGE DOCUMENTATION

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 7-18-95) (Reg. 7-26-95) (Rec'd 8-4-95)
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 7-17-95)
- 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: ____.
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-8-95)
6. Cardex file has been updated for each well listed above. 8-14-95
7. Well file labels have been updated for each well listed above. 8-14-95
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-8-95)
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)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

FILMING

1. All attachments to this form have been microfilmed. Date: August 21 1995.

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

950718 Reg. "WICF5" (Rec'd 7-31-95)
950725 Blm/Moab Appr. c.H. 6-23-95.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

UTU 47876

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Cave Canyon Federal 3-3

2. Name of Operator:

Giant Exploration & Production Company

9. API Well Number:

43-037-31413

3. Address and Telephone Number:

P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

4. Location of Well:

Footages: 2365' FNL, 1390' FWL

County: San Juan

QQ, Sec., T., R., M.: SE/4, NW/4, Section 3, T38S, R24E

State: Utah

11. 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 Annual Status Report | |

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Annual Status Report:

The Cave Canyon Federal 3-3 well is shut-in due to uneconomic production. The well is being evaluated for future use.

13.

Name & Signature Gregory E. McIntosh

Title: Senior Area Engineer

Date: FEB 21 1996

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

DIANE G JARAMILLO
GIANT EXPLOR & PROD CO
PO BOX 2810
FARMINGTON NM 87499

UTAH ACCOUNT NUMBER: N0075

REPORT PERIOD (MONTH/YEAR): 8 / 96

AMENDED REPORT (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
CAVE CANYON 3-2 4303731120	09775	38S 24E 3	ISMY			47876	Cave Cyn Unit	
CAVE CANYON 4-3 4303731276	09775	37S 24E 33	ISMY			40751	"	
CAVE CANYON 3-3 4303731413	09775	38S 24E 3	ISMY			47876	"	
CAVE CANYON FED 4-3 4303731414	09775	38S 24E 4	ISMY			"	"	
CAVE CANYON FED 4-4 4303731539	09775	38S 24E 4	ISMY			"	"	
CAVE CANYON FEDERAL 12-3 4303731567	09775	38S 24E 3	ISMY			"	"	
CAVE CANYON FEDERAL 4-5 4303731695	09775	38S 24E 4	ISMY			"	"	
CAVE CANYON 13-3 4303731766	09775	38S 24E 3	ISMY			"	"	
GAGE FOSTER #1 4303731463	10991	37S 23E 32	DSCR			ML43698		
HATCH POINT #1 4303731658	11356	29S 21E 14	LDLL			461791		
Gothic mesa 16-11 43-037-15042	6008	41S 23E 16	DSCR / W1W			1420602243	Gothic mesa Unit / Nav.	
Cave Canyon 3-1 43-037-31015	9775	38S 24E 3	ISMY / W1W			47876	Cave Cyn Unit	
TOTALS								

COMMENTS:

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:

U-47876

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

6. If Indian, Allottee or Tribe Name:

NA

7. Unit Agreement Name:

NA

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Cave Canyon Fed. 3-3

2. Name of Operator:

Central Resources, Inc.

9. API Well Number:

43-037-31413

3. Address and Telephone Number:

1775 Sherman Street, Suite 2600 Denver, CO 80203 303-830-0100

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

4. Location of Well:

Footages: 2635' FNL & 1390' FWL

County: San Juan

QQ, Sec., T.,R.,M.: SE NW Sec. 3-T38S-R24E

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

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

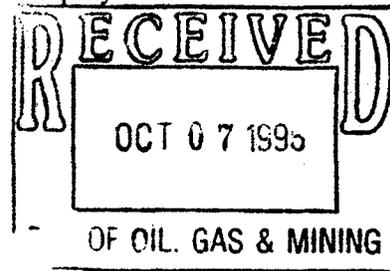
Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Effective 9/1/96 operations of the subject well were transferred from Giant Exploration & Production Company to Central Resources, Inc.



Giant Exploration & Production Company

Name & Signature *Deane G. ...*

Title: Production/Regulatory Manager Date: August 30, 1996

13. Central Resources, Inc.

Name & Signature *Jane ...*

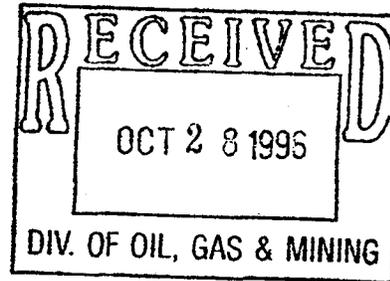
Title: Engineering Technician Date: August 30, 1996

(This space for State use only)

CENTRAL

RESOURCES, INC.

October 23, 1996



Ms. Lesha Cordova
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Monthly Oil & Gas Production Report

Dear Ms. Cordova:

Central Resources, Inc. purchased all assets from Giant Exploration & Production Company effective September 1, 1996.

Central is in the process of acquiring a Utah Account Number. However, to avoid mailing the enclosed Monthly Oil and Gas Production Report late, the account number on the report has been left blank.

If you have any questions regarding this matter, please contact Edna Wageman or myself at (505) 326-3325.

Sincerely,

Diane G. Jaramillo by EW

Diane G. Jaramillo
Office Supervisor

DGJ/

** 9/6/028 not. Lind Oper. N6935 "Central Res. Inc."
(Clg. not finalized yet!)*

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Central Resources, Inc.

3. Address and Telephone No.

1775 Sherman Street, Suite 2600, Denver, Colorado 80203 (303)830-0100

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

2635' FNL & 1390' FWL
SE NW Sec. 3-T38S-R24E

5. Lease Designation and Serial No.

UTU47876

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cave Canyon 3-3

9. API Well No.

43-037-31413

10. Field and Pool, or Exploratory Area

Cave Canyon, Ismay

11. County or Parish, State

San Juan, UT

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

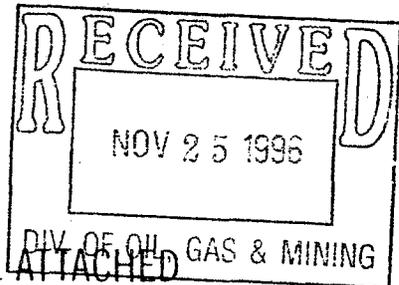
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/>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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.

If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)*

Please be advised that effective September 1, 1996, Central Resources, Inc. assumed operatorship of the referenced well. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Central Resources, Inc. under their statewide bond, BLM Bond No. B06175. They will be responsible for compliance under the lease terms and conditions for that portion of the lease associated with this notice.



CONDITIONS OF APPROVAL ATTACHED

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

Signed: *Gene Martens* Title: Engineering Technician

Date: November 1, 1996

(This space for Federal or State office use)

Approved by: */s/ Brad D. Palmer* Assistant Field Manager,
Resource Management

Date: NOV 19 1996

Conditions of approval, if any:

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

Central Resources, Inc.
Well No. Cave Canyon 3-3
SENW Sec. 3, T. 38 S., R. 24 E.
San Juan County, Utah

CONDITIONS OF APPROVAL

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

Be advised that Central Resources, Inc., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased land.

Bond coverage for this well is provided by BLM Bond UT1053 (Principle - Central Resources, Inc.) as provided for in 43 CFR 3104.2.

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

OPERATOR CHANGE WORKSHEET

Routing	
1-LEC ✓	6-LEC ✓
2-SEC ✓	7-KDR ✓
3-DTS ✓	8-SJ ✓
4-VLD ✓	9-FILE
5-RJF ✓	

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: 9-1-96

TO: (new operator) CENTRAL RESOURCES INC
 (address) 1775 SHERMAN ST STE 2600
DENVER CO 80203-4313
IRENE MARTINEZ
 Phone: (303)830-0100
 Account no. N6935 (10-25-96)

FROM: (old operator) GIANT EXPLOR & PROD CO
 (address) PO BOX 2810
FARMINGTON NM 87499
DIANE JARAMILLO
 Phone: (505)326-3325
 Account no. N0075

WELL(S) attach additional page if needed:

***CAVE CANYON UNIT**

Name: **SEE ATTACHED**	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____
Name: _____	API: _____	Entity: _____	S	T	R	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- 1 1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). *(rec'd 10-7-96)*
- 2 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(rec'd 10-7-96)*
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) ____ If yes, show company file number: #CO193111. *(c.H. 8-2-96)*
- 4 4. FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(11-25-96)*
- 6 6. Cardex file has been updated for each well listed above. *(11-25-96)*
- 7 7. Well file labels have been updated for each well listed above. *(11-25-96)*
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(11-25-96)*
- 9 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

- Yuc 1. (r649-8-7) 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. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- Yuc 2. A copy of this form has been placed in the new and former operator's bond files.
3. The FORMER operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

FILMING

- Yuc 1. All attachments to this form have been microfilmed. Today's date: 12-30-96.

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 are now being filed in the Operator Change file.

COMMENTS

9/6/125 BLM/Moab Apr. 11-19-96.

5. Lease Designation and Serial Number:

UTU 47876

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Cave Canyon 3-3

2. Name of Operator:

Central Resources, Inc.

9. API Well Number:

43-037-31413

3. Address and Telephone Number:

P.O. Box 2810, Farmington, New Mexico 87499 (505) 326-3325

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

4. Location of Well:

Footages: 2365' FNL, 1390' FWL

County: San Juan

QQ, Sec., T.,R.,M.: SE/4 NW/4, Sec. 3, T38S, R24E

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

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

Date of work completion _____

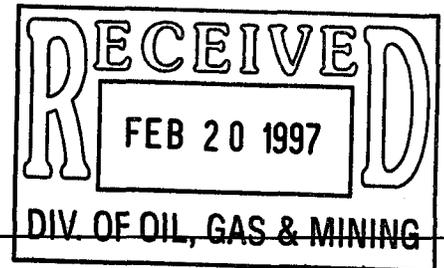
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

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

Annual Status Report:

The Cave Canyon Well No. 3-3 is shut-in due to uneconomic production. The well is being evaluated for return to production.



13.

Name & Signature

Gregory McIntosh

Gregory McIntosh

Title: Operations Engineer

Date: 2/12/97

(This space for State use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number: UTU 47876
6. If Indian, Allottee or Tribe Name:
7. Unit Agreement Name:
8. Well Name and Number: Cave Canyon 3-3
9. API Well Number: 43-037-31413
10. Field and Pool, or Wildcat: Cave Canyon, Ismay

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
Central Resources, Inc.

3. Address and Telephone Number:
P.O. Box 2810, Farmington, New Mexico 87499 (505) 326-3325

4. Location of Well:
Footages: 2365' FNL, 1390' FWL
County: San Juan
QQ, Sec., T.,R.,M.: SE/4 NW/4, Sec. 3, T38S, R24E
State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

Abandonment New Construction

Casing Repair Pull or Alter Casing

Change of Plans Recompletion

Conversion to Injection Shoot or Acidize

Fracture Treat Vent or Flare

Multiple Completion Water Shut-Off

Other _____

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandonment * New Construction

Casing Repair Pull or Alter Casing

Change of Plans Shoot or Acidize

Conversion to Injection Vent or Flare

Fracture Treat Water Shut-Off

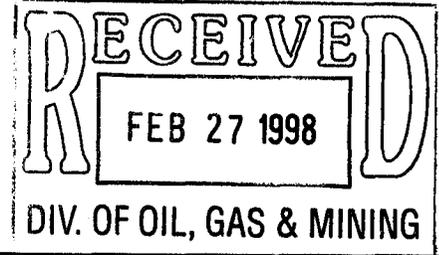
Other Annual Status Report

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

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

Annual Status Report:

The Cave Canyon Well No. 3-3 is shut-in due to uneconomic production. The well is being evaluated for future use.



13. Name & Signature: Gregory McIntosh Title: Operations Engineer Date: 2/12/98

(This space for State use only)

5. Lease Designation and Serial Number:

UTU 47876

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name:

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:
Cave Canyon 3-3

2. Name of Operator:

Central Resources, Inc.

9. API Well Number:

43-037-31413

3. Address and Telephone Number:

P.O. Box 1247, Bloomfield, New Mexico 87413 (505) 632-3476

10. Field and Pool, or Wildcat:

Cave Canyon, Ismay

4. Location of Well:

Footages: 2365' FNL, 1390' FWL

County: San Juan

QQ, Sec., T., R., M.: SE/4 NW/4, Sec. 3, T38S, R24E

State: Utah

11. 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 _____ | |

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>Annual Status Report</u> | |

Date of work completion _____

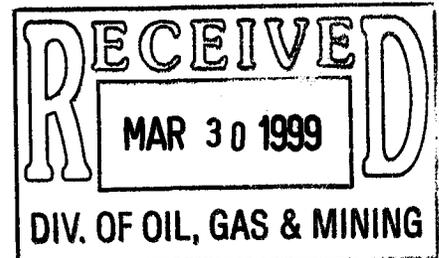
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

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

Annual Status Report:

The Cave Canyon Well No. 3-3 is shut-in due to uneconomic production. The well is being evaluated for return to production.



13.

Name & Signature

Rodney L. Seale

Rodney L. Seale

Title:

District Manager

Date:

March 25, 1999

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
UTU 47876

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:
Cave Canyon 3-3

9. API Well Number:
43-037-31413

10. Field and Pool, or Wildcat:
Cave Canyon, Ismay

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
Central Resources, Inc.

3. Address and Telephone Number:
P.O. Box 1247, Bloomfield, New Mexico 87413 (505) 632-3476

4. Location of Well:
Footages: **2365' FNL, 1390' FWL**
County: **San Juan**
QQ, Sec., T., R., M.: **SE/4 NW/4, Sec. 3, T38S, R24E**
State: **Utah**

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Abandonment *
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Conversion to Injection
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Multiple Completion	<input checked="" type="checkbox"/> Other <u>Annual Status Report</u>
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Other _____	

Approximate date work will start _____

Date of work completion _____

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

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

Annual Status Report:

The Cave Canyon Well No. 3-3 is shut-in due to uneconomic production. The well is being evaluated for return to production.

SENT TO OPERATOR
DATE: 3-1-00
BY: CHP

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 3-1-00
By: RJK

RECEIVED
FEB 20 2000
DIVISION OF
OIL, GAS AND MINING

13. Name & Signature Rodney L. Seale Rodney L. Seale Title: District Manager Date: February 21, 2000

(This space for State use only) *Shut-in status approval expires 4-00. In accordance with R649-3-36.3, please provide the Division with a showing of good cause as to why this well should not be plugged.*

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

<p>1. Type of Well</p> <p><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other</p> <p>2. Name of Operator</p> <p align="center">Elm Ridge Resources, Inc.</p> <p>3. Address and Telephone No.</p> <p align="center">312 W. LaPlata Street, Farmington, New Mexico (505) 326-7099</p> <p>4. Location of Well (Footage, T, R, M, or Survey Description)</p> <p>2635' FNL & 1390' FWL SE NW Sec. 3-T38S-R24E</p>	<p>5. Lease Designation and Serial No.</p> <p>UTU47876</p> <p>6. If Indian, Allotte or Tribe Name</p> <p> </p> <p>7. If Unit or CA, Agreement Designation</p> <p> </p> <p>8. Well Name and No.</p> <p>Cave Canyon 3-3</p> <p>9. API Well No.</p> <p>43-037-31413</p> <p>10. Field and Pool, or Exploratory Area</p> <p>Cave Canyon, Ismay</p> <p>11. County or Parish, State</p> <p>San Juan, UT</p>
--	---

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

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

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

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

Please be advised that ~~effective October 1, 2000~~, Elm Ridge Resources, Inc. assumed operatorship of the referenced well. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Elm Ridge Resources, Inc. under their statewide bond, BLM Bond No. ~~505706~~. They will be under the lease terms and conditions for that portion of the lease associated with this notice.

*Bond obtained 3/20/01
Change of operator effective 4/16/01
BLM Bond # UT1216*

RECEIVED FIELD OFFICE
OCT 17 P 2:17
DEPT OF THE INTERIOR

RECEIVED FIELD OFFICE
OCT 10 PM 2:37
DEPT OF THE INTERIOR

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

Signed: *Gary Cuddeley* Title: Operations Manager Date: September 29, 2000

(This space for Federal or State office use)

Approved by: *William Stranger* Title: Assistant Field Manager, Division of Resources 8/16/01

Conditions of approval, if any: _____

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

cc: UDOG:m 10/16/01

CONDITIONS OF APPROVAL ATTACHED

Elm Ridge Resources, Inc.
Well No. Cave Canyon 3-3
SENW Sec. 3, T. 38 S., R. 24 E.
Lease UTU47876
San Juan County, Utah

CONDITIONS OF APPROVAL

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

Be advised that Elm Ridge Resources, Inc. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT1216 (Principal - Elm Ridge Resources, Inc.) via surety consent as provided for in 43 CFR 3104.2.

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
U-47876

6. If Indian, Allottee or Tribe Name:
N/A

7. Unit Agreement Name:
N/A

8. Well Name and Number:
Cave Canyon Fed. 3-3

9. API Well Number:
43-037-31413

10. Field and Pool, or Wildcat:
Cave Canyon, Ismay

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 DEEPEEN form for such proposals.

1. Type of Well: OIL GAS OTHER: _____

2. Name of Operator:
Elm Ridge Resources, Inc.

3. Address and Telephone Number:
312 W. LaPlata Street, Farmington, New Mexico (505) 326-7099

4. Location of Well:
Footages: 2635' FNL & 1390' FWL County: San Juan
QQ, Sec., T.,R.,M.: SW NW Sec. 3-T38S-R24E State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recom	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<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"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	
<input type="checkbox"/> Other _____			

Approximate date work will start _____

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Effective October 1, 2000, operations of the subject well were transferred from Central Resources, Inc. to Elm Ridge Resources, Inc.

Central Resources, Inc.
Name & Signature *June M. Hartney* Title: Engineering Technician Date: 09/29/00

13. Elm Ridge Resources, Inc.
Name & Signature *Ruby Eubank* Title: Operations Manager Date: 09/29/00

(This space for State use only)

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS
2. CDW		5-LP <i>6/23</i>
3. JLT		6-FILE

Enter date after each listed item is completed

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective: **04-01-2001**

FROM: (Old Operator):
CENTRAL RESOURCES INC
Address: P. O. BOX 189
FARMINGTON, NM 87499-189
Phone: 1-(505)-632-3476
Account N6935
CA No.

TO: (New Operator):
ELM RIDGE RESOURCES INC
Address: P. O. BOX 189
FARMINGTON, NM 87499-189
Phone: 1-(505)-632-3476
Account N1440
Unit: CAVE CANYON PROJECT

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
CAVE CANYON 1-33	43-037-31276	9775	33-37S-24E	FEDERAL	OW	P
CAVE CANYON 3-2	43-037-31120	9775	03-38S-24E	FEDERAL	OW	P
CAVE CANYON 3-3	43-037-31413	9775	03-38S-24E	FEDERAL	OW	S
CAVE CANYON 12-3	43-037-31567	9775	03-38S-24E	FEDERAL	OW	S
CAVE CANYON 13-3	43-037-31766	9775	03-38S-24E	FEDERAL	OW	S
CAVE CANYON 1-4	43-037-31028	9775	04-38S-24E	FEDERAL	OW	P
CAVE CANYON 4-3	43-037-31414	9775	04-38S-24E	FEDERAL	OW	S
CAVE CANYON 4-4	43-037-31539	9775	04-38S-24E	FEDERAL	OW	P
CAVE CANYON 4-5	43-037-31695	9775	04-38S-24E	FEDERAL	OW	P

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/10/2000
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/10/2000
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/12/2001
- Is the new operator registered in the State of Ut YES Business Number: 4830075-1150
- If **NO**, the operator was contacted on: _____
- 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: 06/06/2001
- Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU 47876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
Cave Canyon 3-3

9. API NUMBER:
4303731413

10. FIELD AND POOL, OR WILDCAT:
Cave Canyon, Ismay

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 GAS WELL OTHER _____

2. NAME OF OPERATOR:
Elm Ridge Resources, Inc.

3. ADDRESS OF OPERATOR:
PO Box 189 CITY Farmington STATE NM ZIP 87499

PHONE NUMBER:
(505) 632-3476

4. LOCATION OF WELL 9635
FOOTAGES AT SURFACE: 2365' FNL & 1390' FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE/4 3 38S 24E

STATE:

UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" 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.

Elm Ridge Resources, Inc. currently has a rig in the Cave Canyon area. We purchased this well in a non-productive state and once we rig up, we will determine what the problem is. If the well is fixable, we will return to production. If not, we will submit a P&A procedure.

Certified Return Receipt # 7001 0320 0001 0934 5247

COPY SENT TO OPERATOR
Date: 11-5-01
Initials: CJD

NAME (PLEASE PRINT) Trudy Grubelnik

TITLE Production Technician

SIGNATURE *Trudy Grubelnik*

DATE 10/16/2001

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

RECEIVED

OCT 24 2001

DIVISION OF
OIL, GAS AND MINING

Date: 11/2/01

By: *D. J. [Signature]*

(See Instructions on Reverse Side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill 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 _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-47876
2. NAME OF OPERATOR: Elm Ridge Resources, Inc		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: PO Box 189 CITY Farmington STATE NM ZIP 87499		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2635 FNL & 1390 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 3 38S 24E S		8. WELL NAME and NUMBER: Cave Canyon 3-3
PHONE NUMBER: (505) 632-3476		9. API NUMBER: 4303731413
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Cave Canyon Ismay
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<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 checked="" type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input 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.

Elm Ridge Resources, Inc. request the Cave Canyon 3-3 to be T&A'd until we can move a rig onto this well and determine what the problem is. If fixable, we will return to production. If the well proves to be incapable of producing payable quantities, Elm Ridge Resources will submit a P&A procedure.

THIS SUNDRY IS BEING RETURNED; INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION (see attached sheet).

[Signature] June 23, 2003
Utah Division of Oil, Gas and Mining

COPY SENT TO OPERATOR
Date: 6-25-03
Initials: CTD

NAME (PLEASE PRINT) <u>Trudy Grubelnik</u>	TITLE <u>Production Technician</u>
SIGNATURE <i>[Signature]</i>	DATE <u>5/1/2003</u>

(This space for State use only)

RECEIVED
MAY 05 2003

INFORMATION REQUIRED TO EXTEND SI/TA OF WELL

Well Name and Number: Cave Canyon 3-3
API Number: 43-037-31413
Operator: Elm Ridge Resources, Inc.
Reference Document: Original Sundry dated May 1, 2003, received by
DOGMA on May 5, 2003

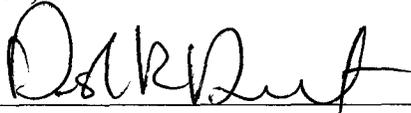
The well has been Shut-in for 12 years 2 months. Insufficient information was submitted to the Division to approve the referenced well for continued Shut-in or Temporary Abandonment (SI/TA). The following requirements of R649-3-36 have not been met with this request for SI/TA approval.

1. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
2. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment. (R649-3-36-1.3)

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).

1. Copy of recent casing pressure test and/or;
2. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.



Dustin K. Doucet
Petroleum Engineer

June 23, 2003

Date

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 _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Elm Ridge Exploration Company, LLC <i>N2985</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 12225 Greenville, Suite 950 CITY Dallas STATE TX ZIP 75243		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY: _____ QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		8. WELL NAME and NUMBER: See attached Exhibit "A"
PHONE NUMBER: (972) 889-2100		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Effective February 18, 2005, Elm Ridge Resources, Inc. transferred all responsibility of Operations for the wells described on the attached Exhibit "A" to Elm Ridge Exploration Company, LLC.

Current Operator:

Name Elm Ridge Resources, Inc. N1440 Title Land Manager

Signature Cathleen Colly Date December 1, 2005

New Operator:

NAME (PLEASE PRINT) Elm Ridge Exploration Company, LLC TITLE Land Manager

SIGNATURE Cathleen Colly DATE December 1, 2005

(This space for State use only)

RECEIVED
DEC 05 2005

Exhibit "A"
Operator Change
Effective February 18, 2005

Old Operator:	Elm Ridge Resources, Inc.									
New Operator:	Elm Ridge Exploration Company, LLC									
Lease Designation / Serial Number	Indian, Allottee or Tribe Name	Unit or CA Agreement	Well Name and Number	API Number	Type Well	Field and Pool or Wildcat	Location of Well Footages at Surface	1/41/4 Section Township, Range	County	State
14-20-603-239A	Navajo	Gothic Mesa Unit	Gothic Mesa 7-41	43-037-15032	Oil Well	Gothic Mesa	625' FNL, 710' FEL	NENE-7-41S-23E	San Juan	UT
14-20-603-239A	Navajo	Gothic Mesa Unit	Gothic Mesa 6-34	43-037-15034	Oil Well	Gothic Mesa	660' FSL, 1980' FEL	SWSE-6-41S-23E	San Juan	UT
14-20-603-240	Navajo	Gothic Mesa Unit	Gothic Mesa 17-31	43-037-15040	Oil Well	Gothic Mesa	820' FNL, 2140' FEL	NWNE-17-41S-23E	San Juan	UT
UTU-47876	N/A	N/A	Wells Federal 1-4	43-037-31028	Oil Well	Cave Canyon	500' FNL, 500' FEL	NENE-4-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 3-2	43-037-31120	Oil Well	Cave Canyon	1925' FSL, 1925' FWL	NESW-3-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 1-33	43-037-31276	Oil Well	Cave Canyon	535' FSL, 2025' FEL	SWSE-33-37S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 3-3	43-037-31413	Oil Well	Cave Canyon	2635' FNL, 1390' FWL	SENW-3-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon Federal 4-3	43-037-31414	Oil Well	Cave Canyon	1310' FNL, 200' FEL	NENE-4-38S-24E	San Juan	UT
ST of UT ML-43698	N/A	N/A	Gage Foster 1	43-037-31463	Oil Well	Road Canyon	2180' FNL, 1780' FWL	SENW-32-37S-23E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 4-4	43-037-31539	Oil Well	Cave Canyon	1150' FNL, 1070' FEL	NENE-4-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon Federal 12-3	43-037-31567	Oil Well	Cave Canyon	1610' FNL, 1300' FWL	SWNW-3-38S-24E	San Juan	UT
14-20-603-239	Navajo	Gothic Mesa Unit	Gothic Mesa 6-43	43-037-31643	Oil Well	Gothic Mesa	1900' FSL, 500' FEL	NESE-6-41S-23E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon Federal 4-5	43-037-31695	Oil Well	Cave Canyon	50' FNL, 1800' FEL	NWNE-4-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 13-3	43-037-31766	Oil Well	Cave Canyon	2045' FSL, 1180' FWL	NWSW-3-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	WSW. No. 1	43-037-31820	Water Source	Cave Canyon	1800' FSL, 1845' FWL	NESW-3-38S-24E	San Juan	UT
UTU-47876	N/A	N/A	Cave Canyon 3-1	43-037-31095	Water Injection	Cave Canyon	2140' FNL, 200' FWL	SWNW-3-38S-24E	San Juan	UT
14-20-603-243	Navajo	Gothic Mesa Unit	Gothic Mesa 16-11	43-037-15042	Water Disposal	Gothic Mesa	500' FNL, 500' FWL	NWNW-16-41S-23E	San Juan	UT

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not yet

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: not yet

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 12/7/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 12/8/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/8/2005
3. Bond information entered in RBDMS on: 12/8/2005
4. Fee/State wells attached to bond in RBDMS on: 12/8/2005
5. Injection Projects to new operator in RBDMS on: 12/8/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT00126

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 886936C

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 1116000107

2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: _____

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU-47876

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or N

8. Well Name and No.
Cave Canyon 3-3

9. API Well No.
43-037-31413

10. Field and Pool, or Exploratory Area
Ismay

11. County or Parish, State
San Juan, Utah

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Elm Ridge Exploration Company, LLC

3a. Address
PO Box 156, Bloomfield, NM 87413

3b. Phone No. (include area code)
505-632-3476 x201

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**2635' FNL & 1390' FWL
Sec. 3-T38S-R24E**

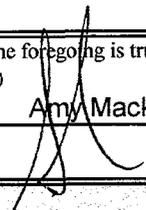
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans <input checked="" type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once Testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Elm Ridge Exploration Company LLC Plugged and Abandoned the above well as follows: **6-18-13: Move in rig up. 6-20-13: PLUG #1-** Set 5 1/2" cement retainer @ 5629'. Pump 15 sks below retainer and 6 sks on top of retainer. **PLUG #2-** Balance Plug with 17 sks of cement from 4842'-4742'. **PLUG #3-** Perf 4 holes @ 2632'. Set retainer @ 2582'. Pump 43 sks below and 6 sks of cement on top. **PLUG #4 -** Perf 4 holes @ 1950'. Set retainer @ 1900'. Pump 43 sks below and 6 sks on top of retainer. **6-21-13: PLUG #5-** Perf 4 holes @ 100'. Pump 25 sks of cement down 5 1/2" casing. Circulate cement up 8 5/8" casing. Top well off with cement. Jeff Brown with the BLM witnessed all plugs.

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

Name (Printed/Typed) Amy Mackey	Title Sr. Regulatory Supervisor
Signature 	Date June 28, 2013

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on reverse)

RECEIVED
JUL 05 2013
DIV. OF OIL, GAS & MINING

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-47876
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: CAVE CANYON WTR FLD PROJ
2. NAME OF OPERATOR: ELM RIDGE EXPLORATION COMPANY		8. WELL NAME and NUMBER: CAVE CANYON 3-3
3. ADDRESS OF OPERATOR: P.O. Box 156, Bloomfield, NM, 87413		9. API NUMBER: 43037314130000
PHONE NUMBER: 505 632-3476 Ext		9. FIELD and POOL or WILDCAT: CAVE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2635 FNL 1390 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 03 Township: 38.0S Range: 24.0E Meridian: S		COUNTY: SAN JUAN
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/13/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

Elm Ridge Exploration Company LLC Plugged and Abandoned the above well as follows: 6-18-13: Move in rig up. 6-20-13: PLUG #1- Set 5 1/2" cement retainer @ 5629'. Pump 15 sks below retainer and 6 sks on top of retainer. PLUG #2- Balance Plug with 17 sks of cement from 4842'-4742'. PLUG #3- Perf 4 holes @ 2632'. Set retainer @ 2582'. Pump 43 sks below and 6 sks of cement on top. PLUG #4 - Perf 4 holes @ 1950'. Set retainer @ 1900'. Pump 43 sks below and 6 sks on top of retainer. 6-21-13: PLUG #5- Perf 4 holes @ 100'. Pump 25 sks of cement down 5 1/2" casing. Circulate cement up 8 5/8" casing. Top well off with cement. Jeff Brown with the BLM witnessed all plugs.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 06, 2014**

NAME (PLEASE PRINT) Amy Mackey	PHONE NUMBER 505 632-3476	TITLE Sr. Regulatory Supervisor
SIGNATURE N/A	DATE 2/6/2014	