

Permitco

A Petroleum Permitting Company

April 26, 1983

State of Utah
Division of Oil, Gas & Mining
Salt Lake City, UT 84114

Re: Raymond T. Duncan
R.C. Federal #1-19
1570' FSL and 570' FEL
Section 19, T37S - R23E
San Juan County, Utah

Gentlemen:

Raymond T. Duncan proposes to drill a well at the above-mentioned location.

We realize that this location is a non-standard location in accordance with the spacing rules for the State of Utah. This location was picked due to topography and extensive seismic work which was done in the immediate area.

Raymond T. Duncan is the lease holder of all the E/2 of Section 19 and all of Section 20, T37S-R23E, San Juan County, Utah. Therefore, no other lease holders will be affected by the drilling of the above-proposed well.

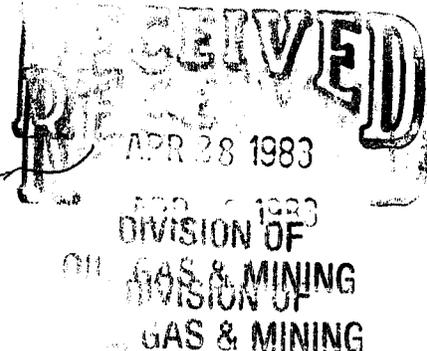
We, therefore, request your permission to drill this well at a non-standard location.

Sincerely,

PERMITCO

Lisa L. Green

Lisa L. Green
Consultant for
Raymond T. Duncan



/llg

Attachments

cc: B.L.M. - Salt Lake City, Utah; BLM - Monticello, Utah

1020 Fifteenth Street Brooks Towers, Suite 22-E Denver, Colorado 80202 (303) 595-4051

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-23153

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

8. Farm or Lease Name

R. C. Federal

9. Well No.

#1-19

2. Name of Operator

Raymond T. Duncan

3. Address of Operator

1777 So. Harrison, Penthouse #1, Denver, CO 80210

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

At surface 1570' FSL & 570' FEL

10. Field and Pool, or Wildcat

Wildcat

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

Sec. 19, T37S-R23E

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

Located 6.5 miles southeast of Blanding, Utah

12. County or Parrish 13. State

San Juan Utah

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

570'

16. No. of acres in lease

2019.07

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.

none

19. Proposed depth

6200'

20. Rotary or cable tools

Rotary

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

5359' Gr.

22. Approx. date work will start*

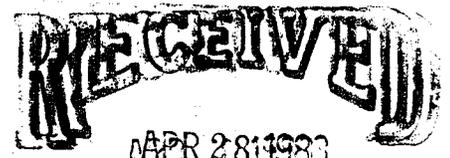
Immediately upon approval of this permit.

23. 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"	48.0#	110'	Cement to surface.
12-1/4"	8-5/8"	24.0#	2000'	Cement to surface.
7-7/8"	5-1/2"	15.5#	6200'	300 sx. Class "G" + additive

Raymond T. Duncan proposes to drill a well to the depth of 6200' 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 State of Utah and Federal requirements.

Note: This lease expires June 1, 1983.



DIVISION OF OIL, GAS & MINING

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

24. Signed W. S. Fallis Title Chief Engineer Date 4-25-83

(This space for Federal or State office use)

Permit No. Approval Date **APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**

Approved by Title

Conditions of approval, if any:

DATE: 4-28-83
BY: Raymond T. Duncan

*See Instructions On Reverse Side

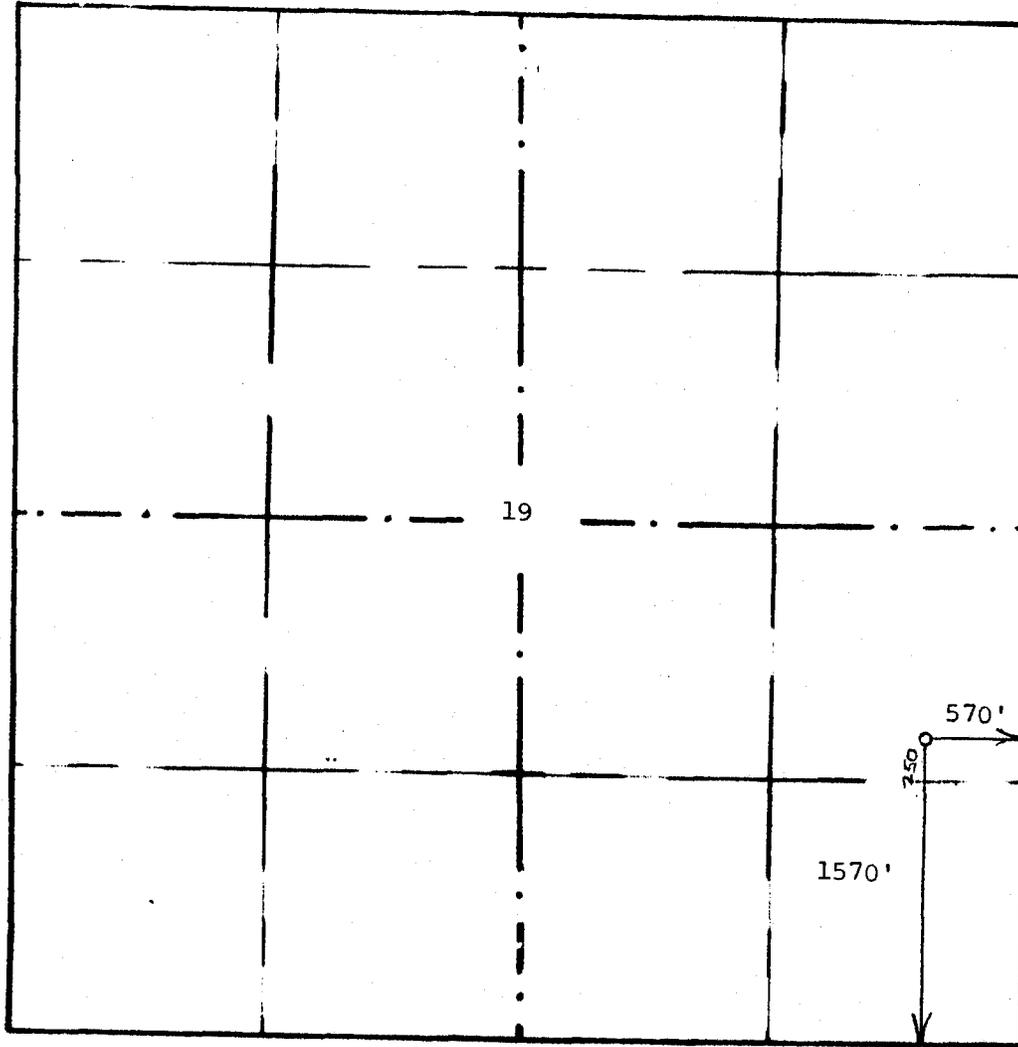


POWERS ELEVATION

Plat #1

Well Location Plat

7790 chains



77.79 chains

Operator R.T.Duncan		Well name 1-19 R.C. Federal	
Section 19	Township 37 South	Range 23 East	Meridian S.L.P.M.
Footages: 1570'FSL & 570'FEL			County/State San Juan Utah
Elevation 5359'	Requested by Lisa Green		
The above plat is true and correct to the best of my knowledge and belief.			
11 March 1983		 Gerald G. Huddleston, L.S. Utah Exceptionion	

NTL-6 PROGRAM

APPROVAL OF OPERATIONS

R. C. FEDERAL #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah

Prepared for:

RAYMOND T. DUNCAN

By:

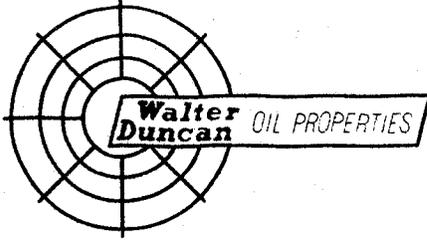
PERMITCO
1020 Fifteenth Street, Suite 22E
Denver, Colorado 80202

Copies Sent To:

- 4 - B.L.M. - Salt Lake City, Utah
- 1 - B.L.M. - Monticello, Utah
- 1 - Oil, Gas & Mining, Salt Lake City, Utah
- 6 - Raymond T. Duncan - Denver, Colorado

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A Petroleum Permitting Company



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

April 25, 1983

TO WHOM IT MAY CONCERN

Permitco is authorized to act as agent on behalf of Raymond T. Duncan to file applications and necessary paperwork to obtain permits to drill oil and gas wells in the Rocky Mountain Area.

John W. Lowry
RAYMOND T. DUNCAN

John W. Lowry
District Drilling and Production
Superintendent

TEN POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah

1. The outcropping geologic formation is the Dakota.
2. The estimated formation tops to be encountered are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Navajo	920'	+4450'
Chinle	1870'	+3500'
Shinarump	2070'	+3300'
Cutter	2770'	+2600'
DeChelly	2870'	+2500'
Hermosa	4670'	+ 700'
Upper Ismay	5720'	- 350'
Lower Ismay	5890'	- 520'
Gothic Shale	5950'	- 580'
Desert Creek	5970'	- 600'
Lower Desert Creek	6050'	- 680'
Chimney Rock Shale	6080'	- 710'
T.D.	6200'	- 830'

3. The following depths are estimated for oil, gas, coal and water bearing zones:

<u>Substances</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Oil/Gas	Ismay	5720 - 5950'
Oil/Gas	Desert Creek	5970 - 6080'

4. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	
Conductor	110'	17-1/2"	13-3/8"	48#	K-55	ST&C	New
Surface	2000'	12-1/4"	8-5/8"	24#	K-55	ST&C	New
Production	6200'	7-7/8"	5-1/2"	15.5#	K-55	ST&C	New

The cement program will be as follows:

<u>Conductor</u>	<u>Type and Amount</u>
0 - 110'	Sufficient to circulate to surface.

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TEN POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
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San Juan County, Utah

Surface Type and Amount
0 - 2000' Sufficient to circulate to surface.

Production Type and Amount
0 - 6200' 300 sx. Class "G" + additives or sufficient
to cover zones of interest.

5. Blowout preventer stack will consist of a 10" 5000# BOP. See BOP Diagram. Equipment will be tested prior to drilling out from under surface and operational checks will be made daily thereafter.
6. Drilling fluid will be as follows:
- | <u>Interval</u> | <u>Mud Type</u> | <u>Mud Wt.</u> | <u>Visc.</u> | <u>F/L</u> |
|-----------------|-----------------|----------------|--------------|------------|
| 0-5500' | Natural | 9.0-9.2 | 35 | 20 |
| 5500-T.D. | Chem Gel | 9.5-12.0 | 45 | 10 |
7. Auxiliary equipment to be used is as follows:
- Kelly cock
 - Float above the bit.
 - Monitoring of the system will be done visually.
 - A sub with a full opening valve will be on the floor when the kelly is not in use.
8. Testing, logging and coring will be as follows:
- No cores will be run.
 - DST's will be run as follows: (1) Ismay - 5890'; (2) Desert Creek - 6050'.
 - The logging program will consist of a Dual Induction, BHC Sonic and BHC Density/CNL will be run from 2000' to T.D. A dipmeter will be run from 5700' to T.D. if the well is productive.
 - Stimulation will be determined after the evaluation of the logs and any DST's that are run. If treatment is needed, a sundry notice will be submitted.
9. No hydrogen sulfide gas is anticipated. Slightly abnormal pressures will be encountered in the Desert Creek formation. Maximum bottom hole pressure anticipated is 3500 psi. Adequate mud will be on location and BOP's will be sufficient to handle any potential blowouts.
10. Raymond T. Duncan plans to spud the R.C. Federal #1-19 before June 1, 1983, and intends to complete the well within approximately one month after the well has reached T.D.

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MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah

Gentlemen:

We submit the following application and plats for permission to drill the R. C. Federal #1-19.

1. Existing Roads

- a. The proposed well site and elevation plat is shown on Plat #1.
- b. Directions to the location from Blanding, Utah are as follows: Go south on Highway 47 for 1.5 miles. Turn east and follow dirt road for 1.2 miles. Turn south and go 4.2 miles. After crossing the bridge, turn left onto existing trail and proceed north 1/4 mile to the location.
- c. For access roads see Map #1.
- d. All existing roads within a 3-mile radius are shown on Map #1.
- e. This is an exploratory well. All roads within a one-mile radius of the well site are shown on Map #1.
- f. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- g. Improvement to existing access will not be necessary and will be limited to a total existing disturbed width. New construction will be limited to total disturbed width of 20 feet. Surfacing material will be placed on the access road or location with prior BLM approval.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route due to nearby archeology. Any additional area needed will be approved in advance.
- i. The San Juan County Road Department (801/587-2231, ext. 43), will be contacted before county roads are used.

2. Planned Access Roads

- a. New access road will be approximately 20 feet wide and 1/4 mile in length. There will be no road construction to the south of the existing seismic trail for the first 50 yds.

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San Juan County, Utah

- b. The grade will be 5% or less.
 - c. No turnouts are planned.
 - d. There will be no ditching. Water bars will be constructed as directed by the BLM to control erosion. (To be done at a later date if production is established.)
 - e. No additional drainage is necessary.
 - f. Three 18" culverts will be installed along the last 1/4 mile of access. Maximum cut is 22'. No fill is anticipated.
 - g. Only native materials will be utilized.
 - h. No gates, cattle guards, or fence cuts will be necessary.
3. Location of Existing Wells (See Map #2)
- a. Water wells - none
 - b. Abandoned wells - three
 - c. Temporarily abandoned wells - none
 - d. Disposal wells - none
 - e. Drilling wells - none
 - f. Producing wells - none
 - g. Shut in wells - none
 - h. Injection wells - none
 - i. Monitoring observation wells - none
4. Location of Existing and/or Proposed Facilities
- a. There are no production facilities or gas gathering lines owned or controlled by Raymond T. Duncan within a one-mile radius of the proposed well.
 - b. New facilities contemplated in the event of production are shown on Diagram #1.
 - 1. Proposed tank battery will be located as shown on Diagram #1.
 - 2. All flow lines from well site to battery site will be buried below frost line depth.

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3. Dimensions of the facilities will be 185 feet long and 130 feet wide. See Diagram #1.
 4. All above ground production facilities will be painted a neutral color to be approved by the Bureau of Land Management.
 5. Only native materials will be utilized.
 6. An earthen dike utilizing subsoil in the surrounding area will be built around the storage tanks and heater treater to contain oil should a leak occur. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
 7. The reserve pit will be fenced and allowed to dry. Then all pits will be backfilled. The location not needed for production will be leveled, contoured and reseeded as per BLM requirements.
 8. The access shall be upgraded to the following specifications (if production is established). The road will be 20 feet wide, crowned and ditched. Culverts will be installed as deemed necessary by the Bureau of Land Management.
5. Location and Type of Water Supply
- a. The source of water will be from a private stockpond owned by Ivan Watkins which is located two miles southwest of Blanding, Utah. Directions to the water source are shown on Map #1.
 - b. Water will be trucked to location over the roads marked on Map #1.
 - c. No water well is to be drilled on this lease.
 - d. A temporary use permit will be obtained from the Utah State Engineer (801/647-1303) before using this water source.
6. Source of Construction Materials
- a. Only native materials are to be utilized.
 - b. No construction materials will be taken off Federal land.

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San Juan County, Utah

- c. Surface and subsoil materials in the immediate area will be utilized. Any gravel will be purchased from a commercial source.
- d. All major access roads are shown on Map #1.

7. Methods for Handling Waste Disposal

- a. Drill cuttings are to be contained and buried in the reserve pit.
- b. Drilling fluids are to be contained in the reserve pit.
- c. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- d. If a chemical porta-toilet is not furnished with the drilling rig, a sewage borehole will be used and the contents buried with a minimum of 4 feet of fill.
- e. If a trash pit is used, it will be constructed near the mud tanks with steep sides and dug at least six feet into solid, undisturbed material. It will be totally enclosed with fine mesh wire before the rig moves in.
- f. The reserve pit will be lined with commercial bentonite to prevent seepage. At least half of the capacity will be cut.
- g. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling operations begin. 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.
- h. Trash will not be disposed of in the reserve pit. Garbage and nonflammable waste are to be contained in the trash pit. Flammable waste is to be contained in the burn pit. The trash is to be burned periodically and the remains buried when the well is completed. A burning permit will be obtained from the State Fire Warden (801/587-2705) before burning trash.
- i. All trash, garbage, etc. is to be gathered and buried at the end of drilling operations and covered with a minimum of two feet of earth. Immediately on completion of drilling, the location and surrounding area will be cleared of

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all debris resulting from the operation. Nonburnable debris will be hauled to a local town dump. Reserve and mud pits will be allowed to dry after drilling is completed, and then adequately filled and leveled. All garbage and sewage pits will be filled as soon as the rig leaves the location.

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 #2 for rig layout. See Diagram #3 for cross section of drill pad. See Diagram #4 for cuts and fills.
- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities; and soil stockpiles will be shown on Diagram #2. The location will be laid out and constructed as discussed during the predrill conference.
- c. A ditch will be constructed along the north, east and south sides of the well to divert any runoff from the mesa. See Diagram #4.

10. Plans for Restoration of Surface

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator or his contractor will contact the BLM office in Monticello, Utah, (801/587-2201) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit will be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.

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Section 19, T37S-R23E
San Juan County, Utah

- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped with the contour to a depth of 12 inches.
- f. Water bars will be built as follows to control erosion:

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. When broadcast seeding, a harrow or similar implement will be dragged over the seeded area to assure seed cover.

Seed Mixture:

2 lbs./acre Indian Ricegrass
1 lb./acre Curleygrass
1 lb./acre Alkali Sacaton
2 lbs./acre Fourwing Saltbush
1 lb./acre Shadscale
1 lb./acre Wild Sunflower

After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

- h. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
- i. The access shall be upgraded to BLM Class III road specifications, if production is established.
- j. The top 12 inches of soil material will be removed from the location and stockpiled separate from the trees along the north, east and south sides of the location. Topsoil along the access will be reserved in place.

11. Other Information

- a. Topography - the general terrain is gently rolling hills. The proposed location is situated in a pocket on the side of a small mesa and is bound on the east by Recapture Creek.

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Soils - consist of a sandy, silty clay.

Vegetation - consists of Broom Snakeweed, Rubber Rabbit Brush, Cheatgrass, Pinion and Juniper. Some Cottonwood trees were growing along Recapture Creek.

Fauna - consists of Rabbits, small rodents and an occasional deer.

- b. Surface in the area is owned by the Bureau of Land Management and is principally used for livestock grazing. None were in the area at the time of the onsite inspection.
- c. The nearest water is located in Recapture Creek directly west of the location.
- d. The nearest occupied dwelling is approximately 4 miles northwest of the proposed location.
- e. An archeological study was performed. Cultural resources were found but will not be affected by the drilling of this well and clearance is recommended. The Archeological report will be submitted directly by LaPlata Archeological Consultants.
- f. Drilling will begin immediately upon approval of this A.P.D.
- g. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will only be done if damage occurs. The archeological site by the pad will be fenced before construction begins.
- h. The operator will notify the San Juan Resource Area BLM Office in Monticello, Utah (801/587-2201) 48 hours prior to beginning any work on public land.
- i. The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations before any work is done.

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Section 19, T37S-R23E
San Juan County, Utah

12. Lessee's or Operator's Representatives

Permit Matters

PERMITCO

ATTN: Ms. Lisa Green
1020 - 15th St., Ste 22E
Denver, CO 80202
303/595-4051 (W)
303/690-9588 (H)

Drilling and Completion Matters

RAYMOND T. DUNCAN

ATTN: Mr. Steve Fallin
1777 So. Harrison Street
Penthouse #1
Denver, CO 80210
303/759-3303 (W)
303/770-0705 (H)

13. 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.

4/25/83
Date

Steve Fallin
Steve Fallin - Chief Engineer for
Raymond T. Duncan

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Scale: 1" = 50'

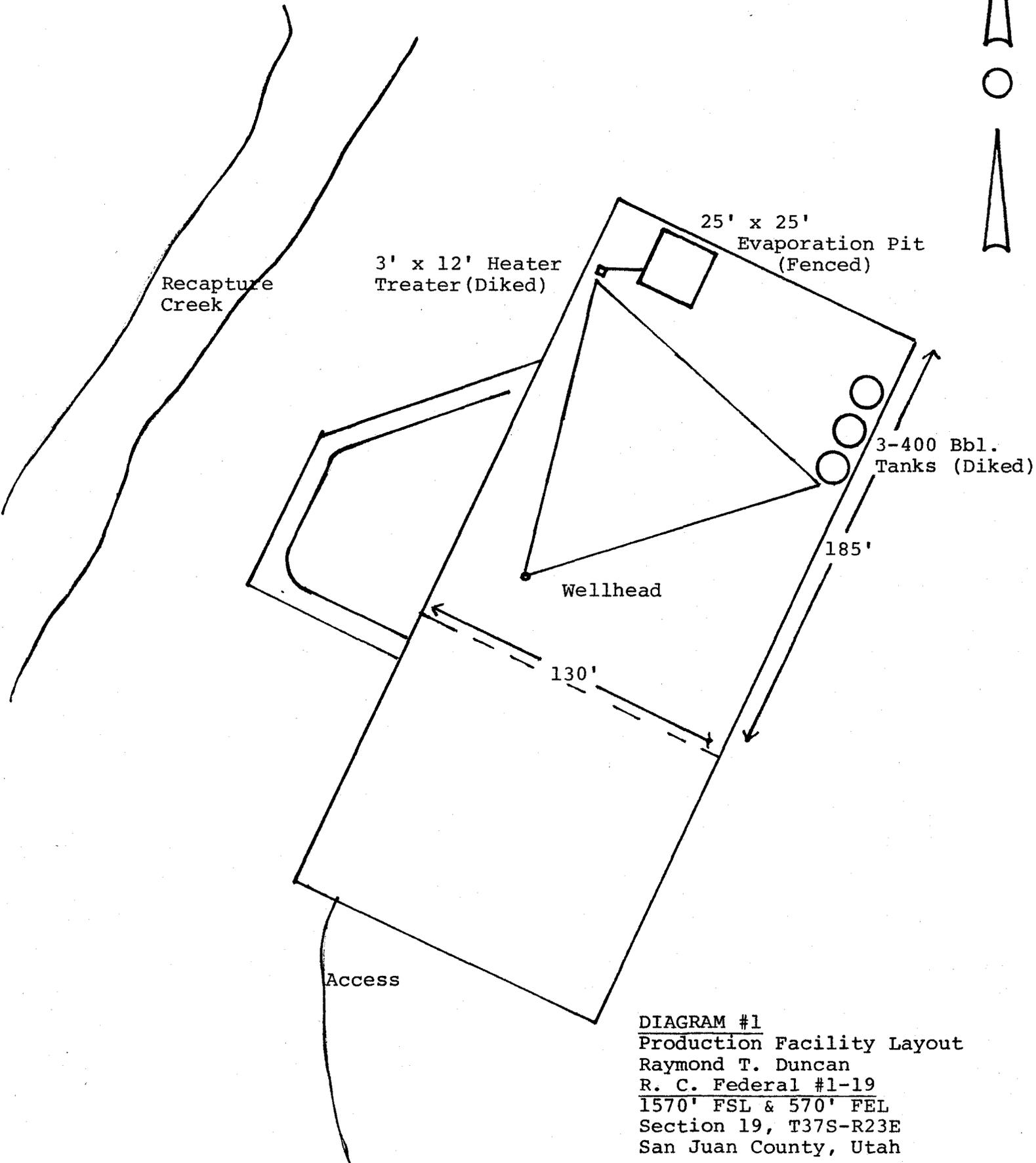


DIAGRAM #1
Production Facility Layout
Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah

Scale: 1" = 50'

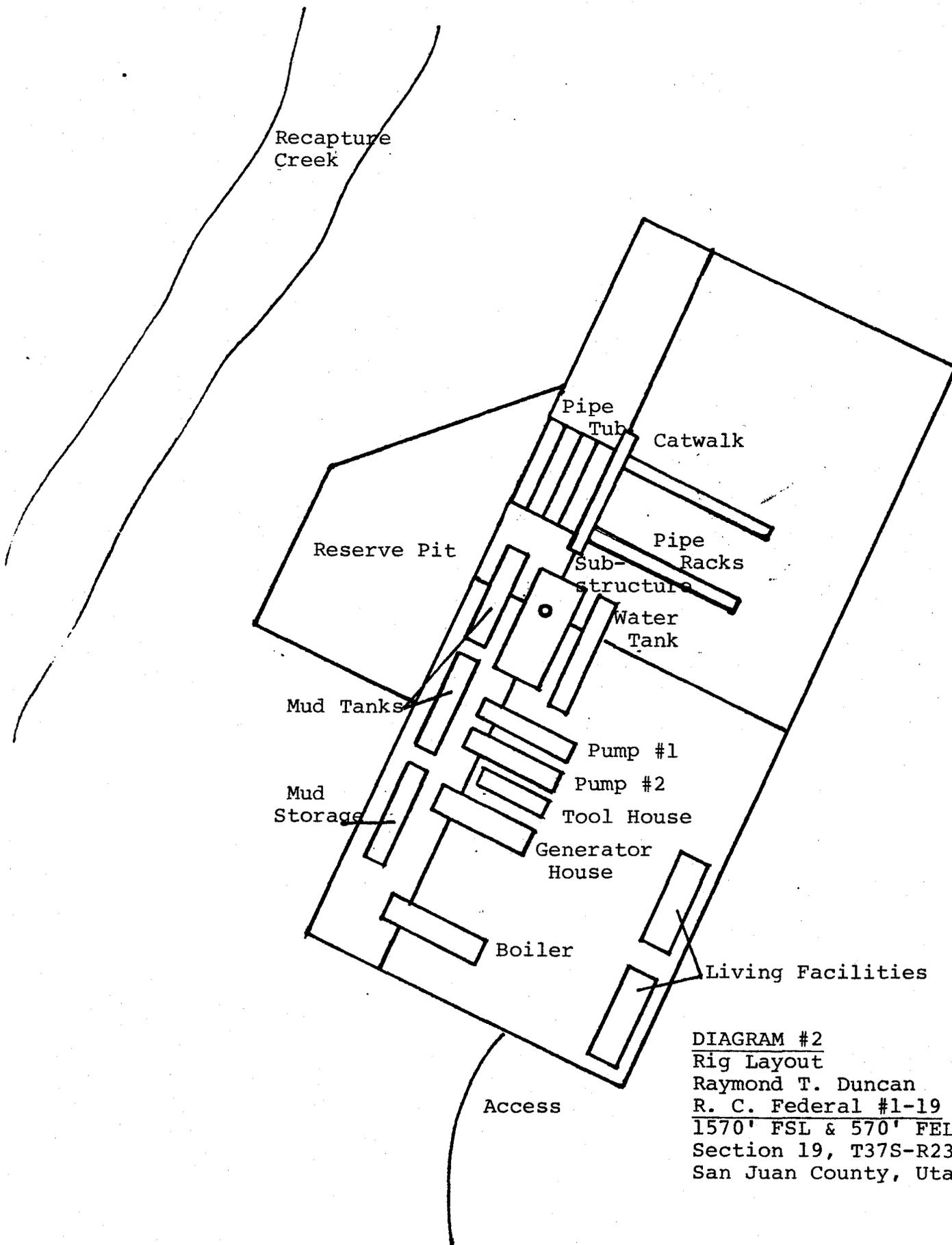


DIAGRAM #2
Rig Layout
Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah



POWERS ELEVATION

Well _____

OIL WELL ELEVATIONS - LOCATIONS
ENVIRONMENTAL - ARCHAEOLOGICAL SERVICES
600 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

Cut // // // // //
Fill:

Scales: 1"=50'H.
1'=20'V.

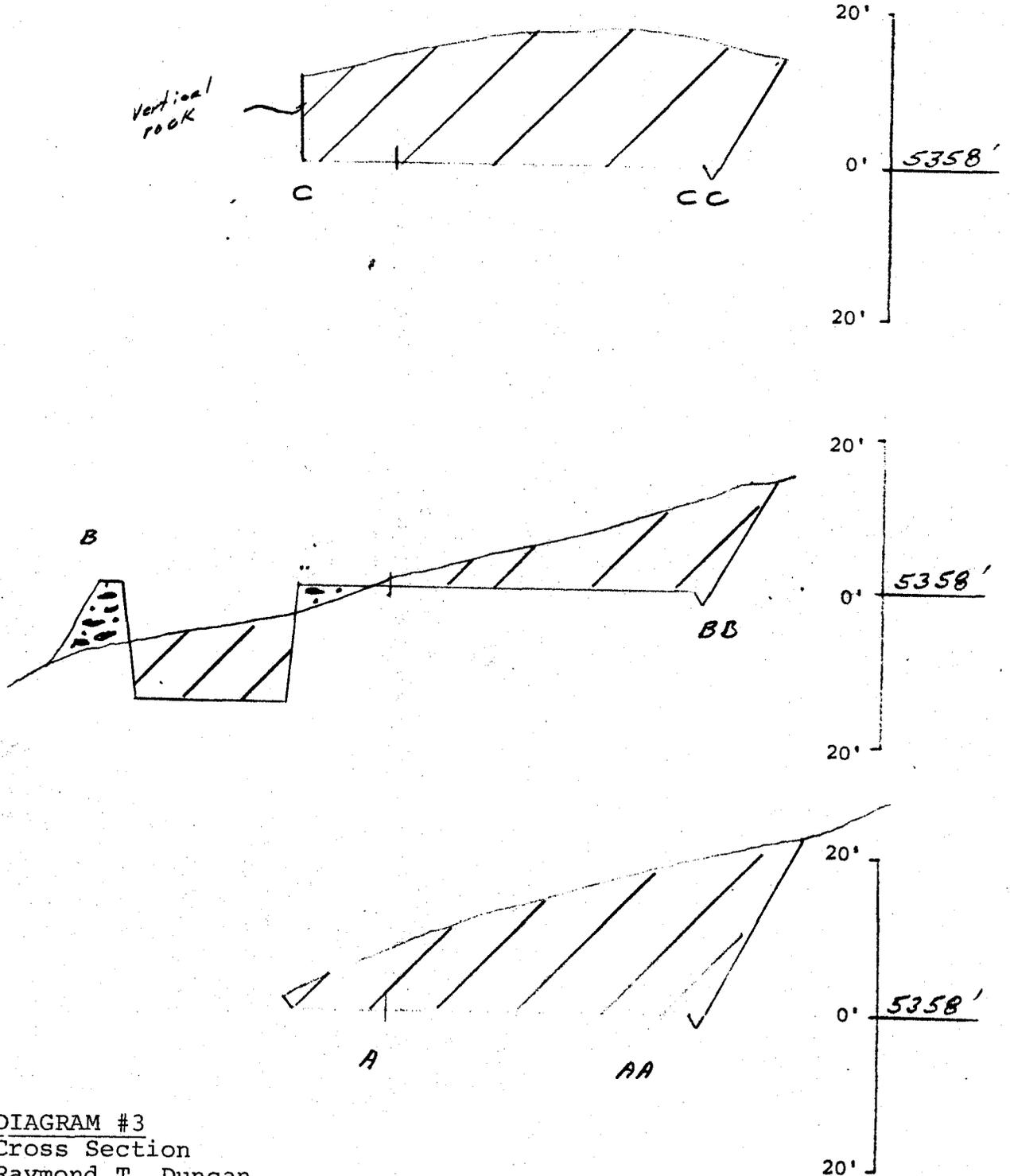


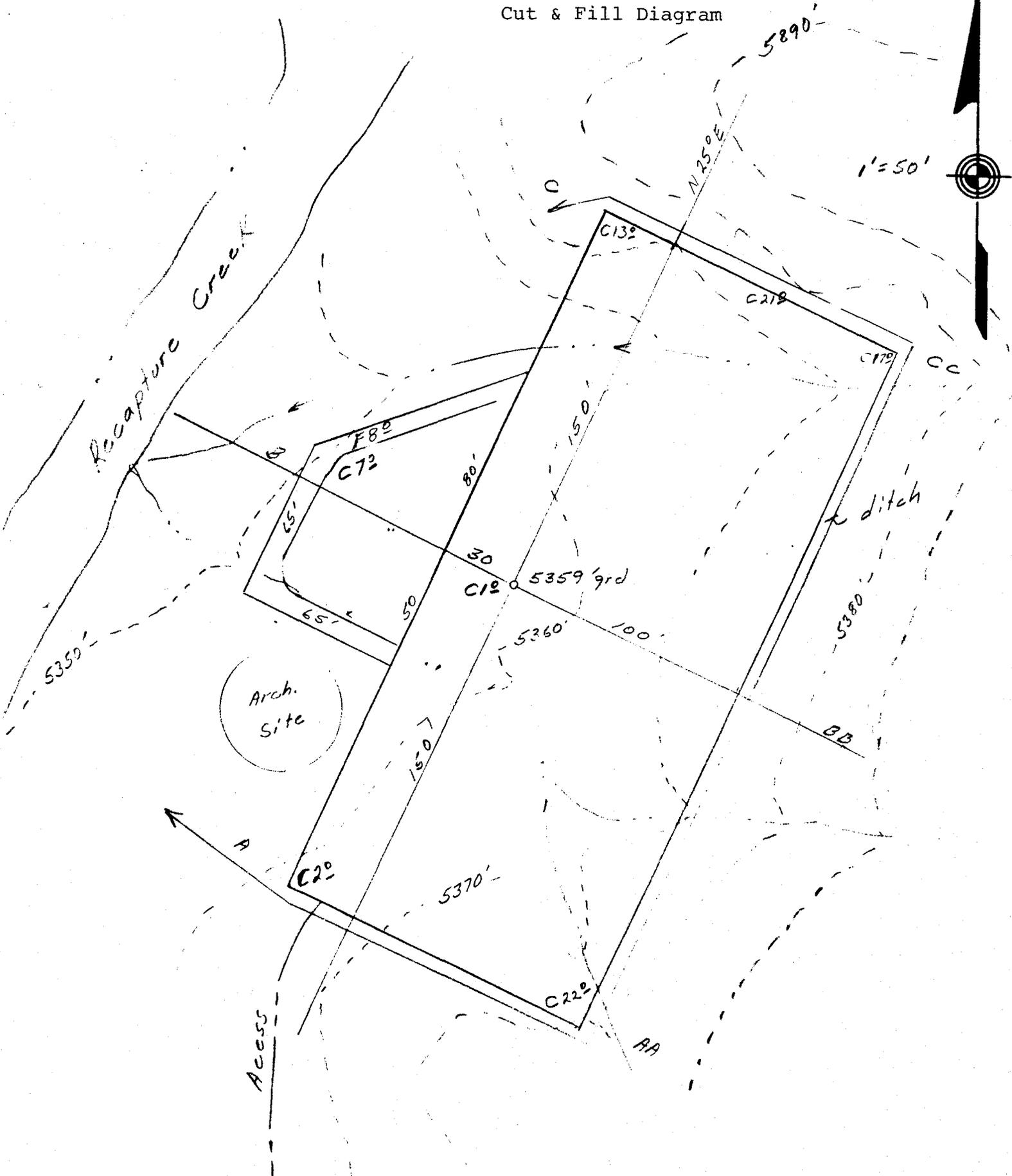
DIAGRAM #3
Cross Section
Raymond T. Duncan
R. C. Federal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah



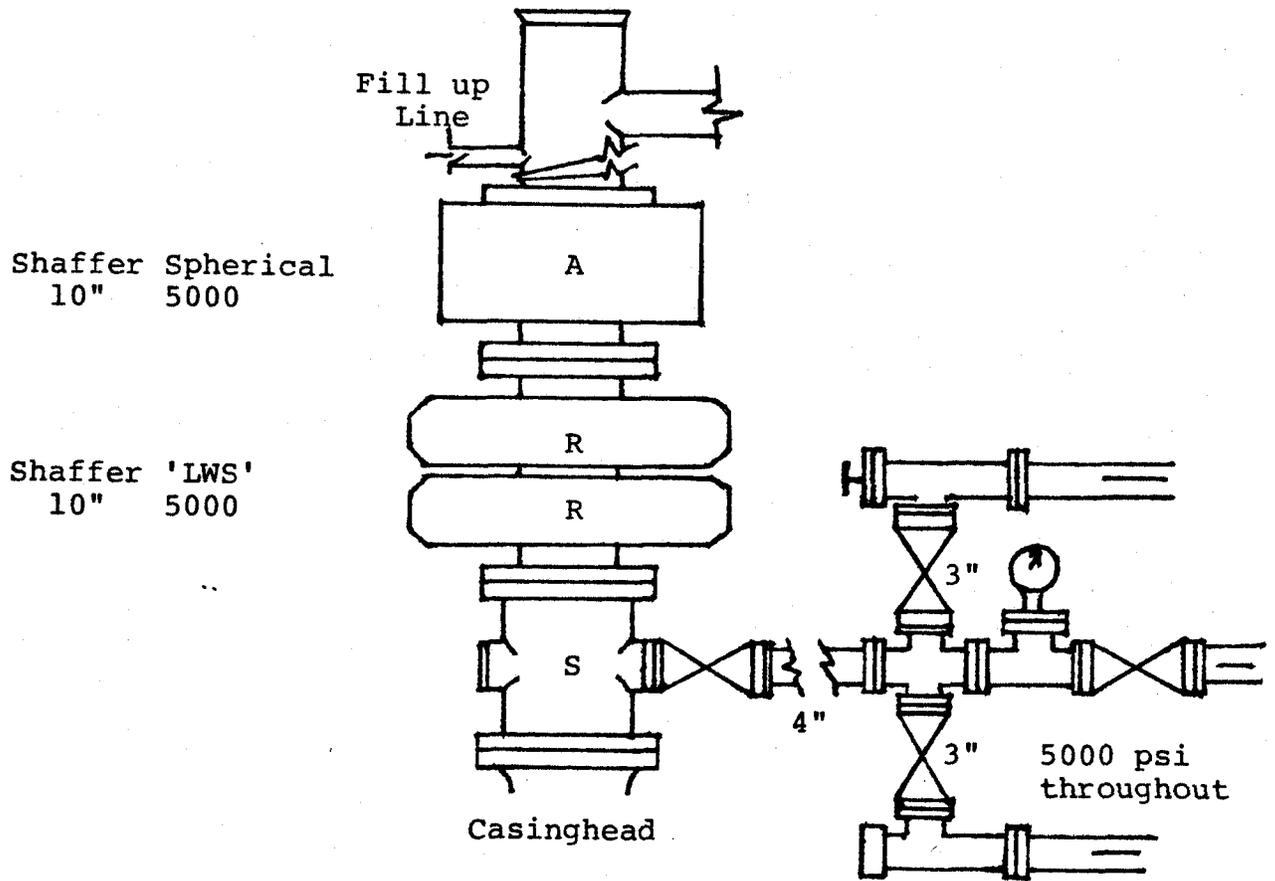
POWERS ELEVATION

DIAGRAM #4
Raymond T. Duncan
R. C. Rederal #1-19
1570' FSL & 570' FEL
Section 19, T37S-R23E
San Juan County, Utah

Cut & Fill Diagram



BOP DIAGRAM



TENNESSEE

OPERATOR RAYMOND T DUNCAN

DATE 4-28-83

WELL NAME PC FED # 1-19

SEC NESE 19 T 37S R 23E COUNTY SAN JUAN

43-037-30893
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

HL

NID

PI

MAP

PROCESSING COMMENTS:

NO OIL WELLS WITHIN 1000'

DJT ✓

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

c-3-a _____ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FEN*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

April 28, 1983

Raymond T. Duncan
1777 South Harrison
Penthouse #1
Denver, Colorado 80210

RE: Well No. R C Federal #1-19
NESE SEc. 19, T.37S, R.23E
1570 FSL, 570 FEL
San Juan County, Utah

Gentlemen:

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

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

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

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

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

The API number assigned to this well is 43-037-30893.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: Oil & Gas Operations
Enclosure

Permitco

A Petroleum Permitting Company

April 28, 1983

Bureau of Land Management
1745 W. 1700 S., Ste. 2000
Salt Lake City, UT 84104

RE: Raymond T. Duncan
R. C. Federal #1-19
NE/SE Sec. 19, T37S-R23E
San Juan County, Utah

Gentlemen:

Enclosed please find one copy of the Archeological Report on the above-mentioned location. This report was not included with the application for permit to drill which was submitted on April 25*, 1983.

Sincerely,

PERMITCO



Lisa L. Green
Consultant for
Raymond T. Duncan

LLG/tjb

Enclosure

cc: Div. of Oil, Gas & Mining
Salt Lake City, UT

RECEIVED

MAY 02 1983

**DIVISION OF
OIL, GAS & MINING**



La Plata Archeological Consultants, Inc.

P.O. Box 783
Dolores, Colorado 81323
303-882-4933

April 25, 1983

Mr. Chas Cartwright
Area Archeologist
Bureau of Land Management
P.O. Box 7
Monticello, Utah 84535

Mr. Cartwright:

Please find enclosed the archeological survey report for Walter Duncan Oil Properties' R.C. Duncan Federal #1-19 well pad and access road, located in San Juan County, Utah. One site requires protection during construction activities and another site should be strictly avoided. Given the stipulations contained in the report archeological clearance is recommended.

Sincerely,

Patrick L. Harden
President

Distribution:

BLM - Moab
Salt Lake City
Division of State History - Antiquities Section
Permitco
Walter Duncan Oil Properties

PLH/rjs

AN ARCHEOLOGICAL SURVEY OF
WALTER DUNCAN OIL PROPERTIES'
R.C. DUNCAN FEDERAL #1-19
WELL PAD AND ACCESS ROAD
SAN JUAN COUNTY, UTAH

LAC REPORT 8308

BY
Patrick L. Harden

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.
P.O. BOX 783
DOLORES, COLORADO 81323
303-882-4933

April 24, 1983

Federal Antiquities Permit
83-AZ/CO/NM/UT-006

Prepared For:
Walter Duncan Oil Properties
Penthouse
1777 S. Harrison St.
Denver, Colorado 80210

ABSTRACT

An archeological survey of Walter Duncan Oil Properties' R.C. Duncan Federal #1-19 well pad and access road was conducted by personnel of La Plata Archeological Consultants on March 6 and 9, 1983. The well pad is located in Recapture Canyon on lands administered by the Bureau of Land Management - San Juan Resource Area, Utah. Four archeological sites and one isolated projectile point were located during the survey. Two of the sites are outside of the area to be impacted by the project, and two are close to construction areas. One site is adjacent to the well pad and requires protection from construction activities. Fencing of the site area would be an acceptable means of protection for the site near the well pad. The other site near areas to be impacted is located along the access route and can be easily avoided by road construction. If the sites located near construction areas are strictly avoided archeological clearance is recommended for this project.

INTRODUCTION

The archeological survey for the R.C. Duncan Federal #1-19 well pad project was requested by Ms. Lisa Green, acting permit agent for Walter Duncan Oil Properties. The survey was performed in conjunction with the staking of the well pad location by Gerald Huddleston, land surveyor. An on-site pre-drill inspection was held on April 22, 1983. Persons attending the

pre-drill inspection were Ms. Green (Permitco), Brian Wood (BLM), Jerry Husky (Urado Construction), Gerald Huddleston (Powers Elevation), and Harden (LAC).

The proposed project consists of the construction of a single well pad approximately 200 X 300 feet in size. A larger pad was desired but could not be achieved because of the proximity of cultural resources and restrictions imposed by terrain. Also, improvements to approximately 1000' of existing seismograph trail is necessary for access.

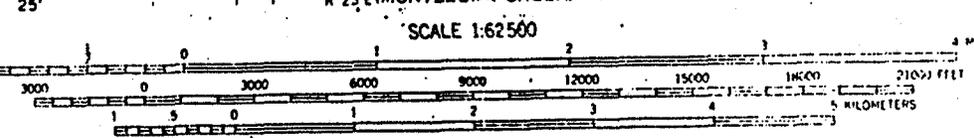
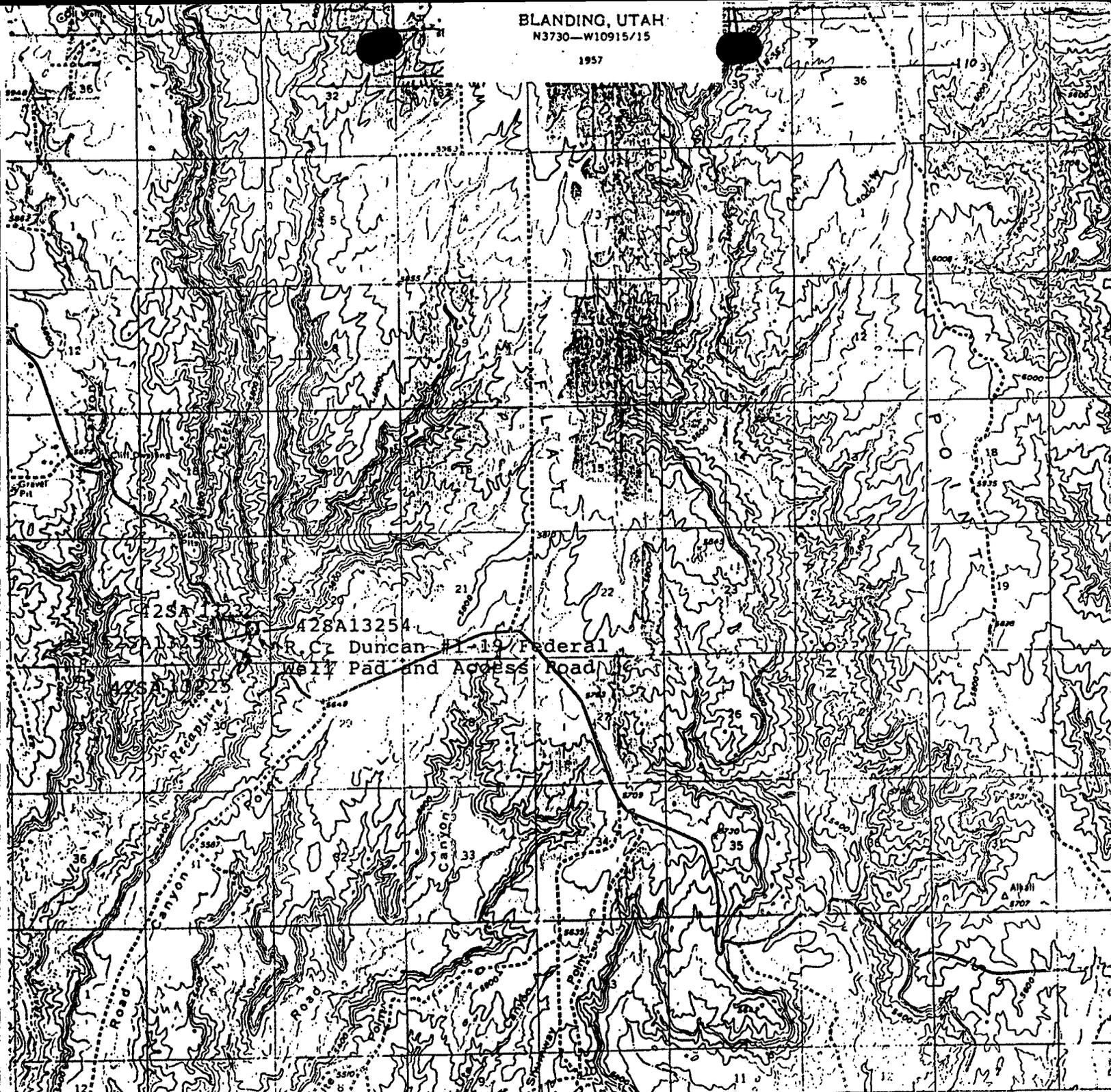
The project is located in the SE $\frac{1}{4}$ of section 19, T37S, R23E, San Juan County, Utah. The well pad is in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$. The area is included on the Blanding, Utah 15' series topographic map (1957).

PHYSIOGRAPHY AND ENVIRONMENT

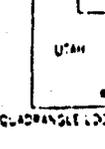
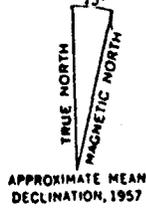
The project area is located approximately five miles southeast of Blanding, Utah in Recapture Canyon. The well pad is located ca. 1000' north of where the Blanding-Hatch road crosses Recapture Creek. The pad is located on a small terrace adjacent to Recapture Creek along its east side. The access road follows a series of low ridges in the canyon bottom paralleling the Creek. Terrain is moderately dissected in the canyon bottom, with high precipitous cliffs bordering the canyon. Elevations range from 5600' along the canyon rims to 5360' adjacent to the Creek. Elevations in the project area are

BLANDING, UTAH
N3730—W10915/15

1957



SCALE 1:62500
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL



[3]

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Methods checked 1957
Zone

ca. 5360-5380'.

Sediments consist of poorly sorted colluvial deposits in most of the area, with large alluvial terraces frequently present along the Creek. Bedrock is exposed in places on ridges, particularly to the north and east of the well pad. The terrace on which the pad is located has colluvium overlying alluvial deposits.

Vegetation is primarily a pinyon-juniper plant community, with understory species of snakeweed, yucca, ephedra, gramma, greasewood, and sagebrush. Big sagebrush is the dominant species on terraces. The small terrace on which the well pad is located is primarily grass covered. A sparse riparian plant community is found along the fringes of Recapture Creek.

Water sources are restricted to Recapture Creek, which contains water throughout most of the year. Fauna is consistent with that found in the Upper Sonoran Life Zone throughout much of the northern Southwest.

METHODOLOGY

Prior to initiation of the field investigations a file and literature review was conducted at the San Juan Resource Area office of the BLM in Monticello on March 1, 1983. The results of this review indicated that an archeological survey had been conducted adjacent to a small section of the access route to the well pad (Hauck 1979), with two sites recorded near, but not in, the project boundaries. Also, it is pre-

sumed that an archeological survey was conducted for the seismograph trail to be used for access to the well, but no record of who may have conducted this work was found. Contact with other archeological consultants working in the area did not prove fruitful in finding out who may have conducted the work (Swift; Ford; Davis; personal communications).

On-the-ground investigations were conducted by Patrick Harden of La Plata Archeological Consultants of Dolores, Colorado. An area 600 X 600 feet surrounding the well pad center stake was surveyed by walking a series of transects spaced 15 meters apart over the entire area. A 50' wide corridor along the existing seismograph trail to be used for access was also surveyed by walking a single zig-zag transect. Due to the presence of an archeological site located adjacent to the well pad considerable time was spent attempting to situate the well pad so as not to cause disturbance to the site and to stake a pad the size requested by Duncan Oil. Mr. Gerald Huddleston, the land surveyor staking the well, was very cooperative in attempting to satisfy both the oil company and restraints imposed by the cultural resources in the area.

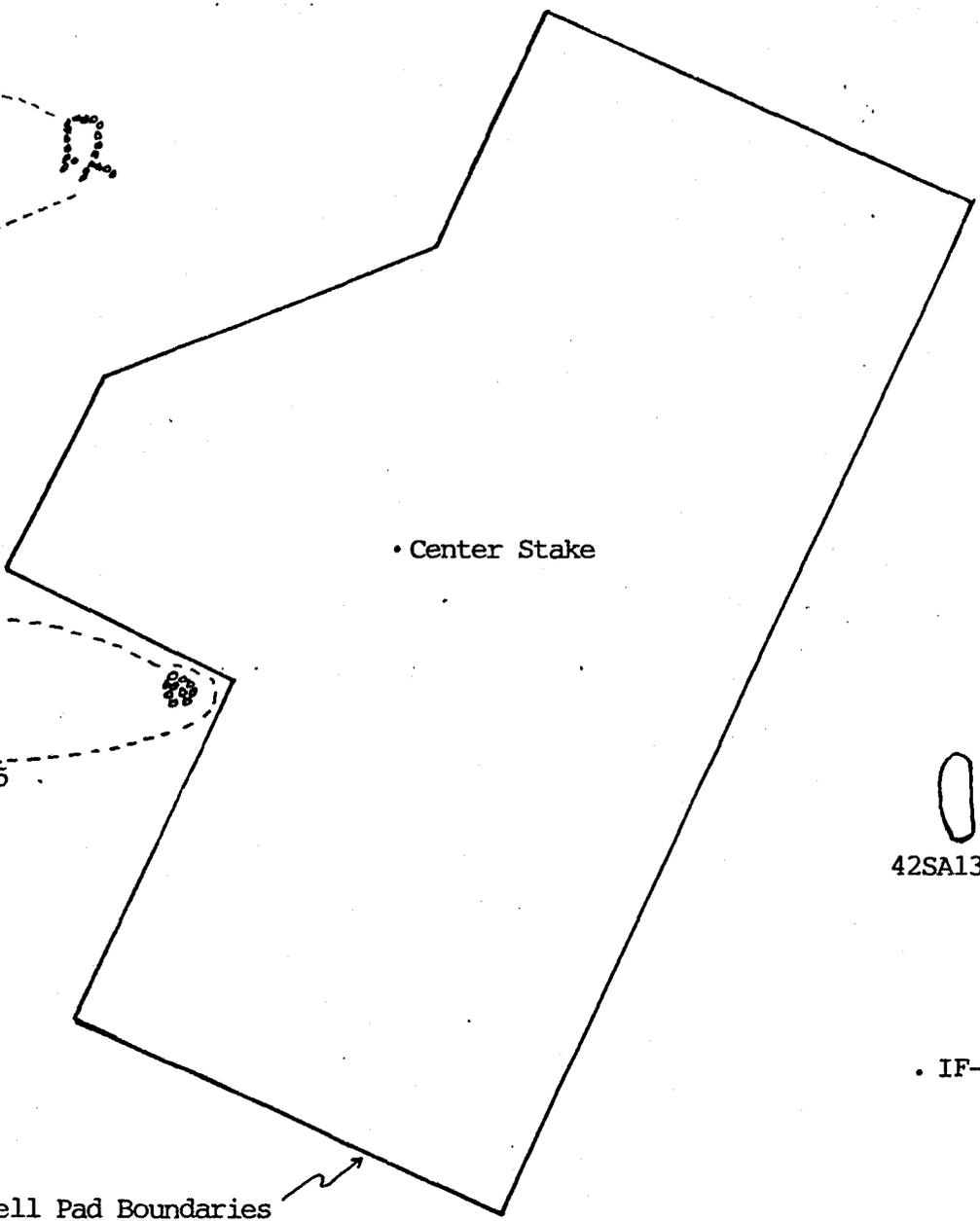
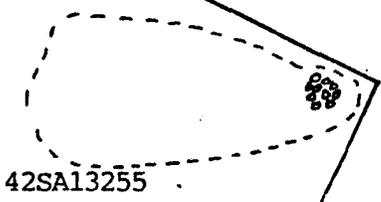
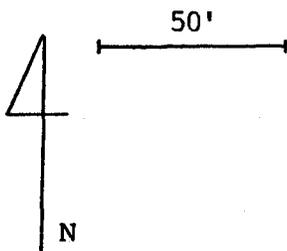
RESULTS

A total of four archeological sites and one isolated projectile point were located during the course of the survey. Three sites and the isolated artifact were located in the well pad survey area, and one site along the access route. One

site (42SA13255) is in danger of destruction during well pad construction if protective measures are not conducted. Brief descriptions of the sites recorded are presented below: more complete information is contained in the IMACS site forms submitted to appropriate Bureau of Land Management offices and the Division of State History - Antiquities Section.

SITE	42SA13232
DESCRIPTION	This site consists of three separate loci of occupation. Two of the loci are of prehistoric Anasazi affiliation and the other loci is historic. Loci 1 is a 2-3 room structure located among several large boulders on a ridge toe just north of the well pad area. The boulders are incorporated into the structure, forming parts of the walls. Rather large sandstone rocks were used in construction. A very sparse number of ceramic sherds and lithic debitage were located along the southwest slopes beneath the structure. Ceramics indicate a Pueblo III component for this part of the site. Loci 2 is a recent shepherders camp, consisting of a wooden bench, one large juniper pole, and a hearth. One small metal can was also present. Loci 3 is a sparse lithic debitage scatter, with one probable PIII affiliated sherd, and a chert biface fragment. A small area along an arroyo bank has ash and fire cracked rock eroding out about 1 meter below the ground surface. This area is separated from the artifact scatter by an old drainage. Loci 3 appears to be associated with a Pueblo III occupation, and may be associated with the occupation represented at Loci 1.
CRM COMMENTS	The site is outside of the area to be impacted by well pad construction. The site is eligible for nomination to the National Register.
SITE	42SA13254
DESCRIPTION	This site consists of a sparse scatter of ceramic sherds in an area ca. 5 X 8m in size. Approximately 40 unclassifiable corrugated sherds and three Mancos/McElmo B/W sherds were found. The site apparently represents a "pot drop", with two vessels present. The site is located on the crest of a narrow rocky ridge just above the small terrace on which the well pad is located. Ceramics indicate a PII-PIII affiliation.
CRM COMMENTS	This site is outside of the area to be impacted by the project and will not be affected. The site is not eligible for National Register consideration.
SITE	42SA13255
DESCRIPTION	The site consists of a sparse scatter of ceramic sherds and lithic debitage, and a possible field house. The possible field house consists

WELL PAD & SITE LOCATIONS



. IF-1

of a concentration of unshaped sandstone rocks in a 4 X 4m area on a small knoll adjacent to the artifact scatter. It could not be definitely determined from the surface indications whether or not the rock concentration represents a structure. The site is located on the small terrace and directly east of Recapture Creek.

CRM COMMENTS

The site is located directly adjacent to the proposed well pad boundaries and is in danger of disturbance from construction activities. The well pad had to be slightly smaller in size than desired in order to accommodate restrictions imposed by both terrain and the presence of the site. Although significance of the site could not be determined from the survey data, the site requires either protection or more complete evaluation (i.e., testing or excavation). In discussions with Mr. Chas Cartwright, BLM Area Archeologist, and Mr. Brian Wood of the BLM, it was decided that the site could be adequately protected by placing a fence around its perimeter prior to well pad construction, thus prohibiting equipment access to the site area. The fence should remain in place until the well pad has been reclaimed as well.

SITE

42SA13225

DESCRIPTION

The site consists of a midden area and a possible foundation of what appears to be a field house. Fire cracked rock, sherds, lithic debitage, and ash stains are concentrated in a 10 X 10m area southwest of the possible structure. The structure consists of a single linear alignment of stones 4m in length. Ceramics indicate a BMIII-PI affiliation for the site. The site is located on a terrace ca. 60m northeast of Recapture Creek and adjacent to the Blanding-Hatch Trading Post road along its northeast side.

CRM COMMENTS

The site has been severely disturbed from vandalism. Most of the midden area has been destroyed by pot hunters. Some significant subsurface deposits may be present in the area of the structure, as well as in places in the midden. The site can be easily avoided during access road construction if all improvements are strictly confined to the existing seismograph trail and to the northwest of it.

IF-1

The isolated projectile point found is a blade and base fragment of a medium sized corner notched type. The point was manufactured from a gray chert. The point form indicates a Basketmaker II-III affiliation.

CONCLUSION

The archeological survey of Walter Duncan Oil Properties' R.C. Duncan Federal #1-19 well pad and access road was conducted by Patrick Harden of La Plata Archeological Consultants

on March 6 and 9, 1983. The survey located four archeological sites and an isolated projectile point. One site (42SA13255) is located adjacent to the well pad and is in danger of disturbance from construction activities. The significance of the site could not be fully assessed from surface evidence alone, but may be considered significant if the rock concentration on the site proves to be a structure. Subsurface testing of the site is necessary in order to evaluate site significance. Three alternatives are available to allow well pad construction to continue and still preserve the cultural resource. First: the recommended action is to simply fence the perimeter of the site prior to well pad construction in order to keep all equipment off of the site area. This means of protection was discussed with and agreed to by Chas Cartwright (BLM Area Archeologist) and Brian Wood (BLM). Fencing the site would be the most economical method of protection while still ensuring the preservation of the site. The fence should remain in place until the well pad is reclaimed. Second: site testing could be conducted. Testing would allow an evaluation of significance and if the site proved to be non-significant then construction could proceed after consultation with the BLM archeologists and Utah State Preservation Officer. Third: if the site proved significant then either full excavation or some form of protection (such as fencing) would be necessary.

Site 42SA13225 is located adjacent to the access route (seismograph trail) and the Blanding-Hatch Trading Post road. No evidence of an archeological survey of the recent seismograph trail or recording of the site could be found, and calls to other archeologists working in the area (op. cit.) failed to identify who surveyed or should have surveyed the trail and recorded the site. The site can be avoided during access road construction by strictly limiting areas of disturbance and equipment to the existing trail and to its northwest side.

The other two sites recorded (42SA13232 and 42SA13254) are outside of the project limits and should receive no adverse impact.

It is recommended that site 42SA13255 be fenced prior to well pad construction and that site 42SA13225 be strictly avoided during access road improvements. The limits of both sites were shown to the construction personnel present during the pre-drill. Given these stipulations archeological clearance is recommended for this project.

REFERENCES CITED

- Davis, William and Dabney Ford
Personnal communication, March 28, 1983.
- Swift, Marilyn
Personnal communication, March 28, 1983.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OIL & GAS OPERATIONS

5. LEASE DESIGNATION AND SERIAL NO. U-23153
 6. IF INDIAN, ALLOTTEE OR FINE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME C. Federal
 9. WELL NO. -19
 10. FIELD AND POOL, OR WILDCAT Wildcat
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T37S-R23E
 12. COUNTY OR PARISH San Juan
 13. STATE Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Raymond T. Duncan

3. ADDRESS OF OPERATOR
 1777 So. Harrison, Penthouse #1, Denver, CO 80210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 1570' FSL & 570' FEL
 At proposed prod. zone NE/SE Section 19

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Located 6.5 miles southeast of Blanding, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 570'

16. NO. OF ACRES IN LEASE 2019.07

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. none

19. PROPOSED DEPTH 6200'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5359' Gr.

22. APPROX. DATE WORK WILL START* Immediately upon

23. PROPOSED CASING AND CEMENTING PROGRAM approval of this permit.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0#	110'	Cement to surface
12-1/4"	8-5/8"	24.0#	2000'	Cement to surface
7-7/8"	5-1/2"	15.5#	6200'	300 sx. Class "G" + additive

Raymond T. Duncan proposes to drill a well to the depth of 6200' 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 State of Utah and Federal requirements.

Note: This lease expires June 1, 1983.

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 W. S. Fallis TITLE Chief Engineer DATE 4-25-83

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
 APPROVED BY W. S. Fallis for E. W. Guynn
 CONDITIONS OF APPROVAL, IF ANY: TITLE District Oil & Gas Supervisor DATE MAY 06 1983

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

State O & G

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

RECEIVED
MAY 09 1983
DIVISION OF OIL, GAS & MINING

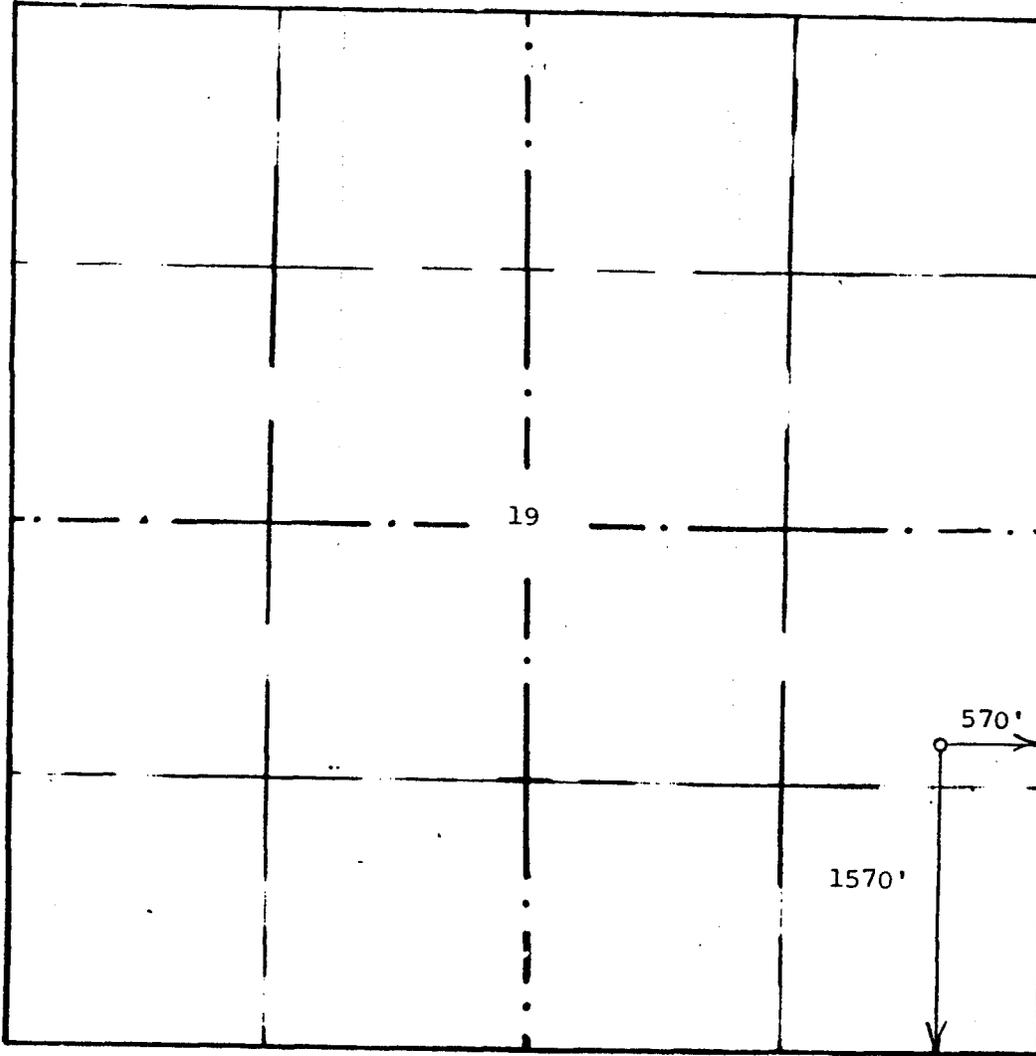


POWERS ELEVATION

Plat #1

Well Location Plat

7790 chains



77.79 chains

Operator R.T.Duncan		Well name 1-19 R.C. Federal	
Section 19	Township 37 South	Range 23 East	Meridian S.L.P.M.
Footage: 1570'FSL & 570'FEL			County/State San Juan Utah
Elevation 5359'	Requested by Lisa Green		
The above plat is true and correct to the best of my knowledge and belief.			
11 March 1983		 Gerald G. Huddleston, L.S. Utah Exception	

Raymond T. Duncan
Well No. 1-19
Section 19, T. 37 S., R. 23 E.
San Juan County, Utah
R. C. Unit
Lease U-23153

Supplemental Stipulations

- 1) Adequate and sufficient electric/radioactive logs will be run to locate and identify the saline minerals in the Paradox formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the saline minerals resource. Surface casing program may require adjustment for protection of fresh water aquifers.

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

(1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

(2) 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 must be housed and/or fenced.

(3) All disturbed areas not required for operations will be rehabilitated.

(4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.

(5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.

(6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.

(7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.

(8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.

(9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.

(10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.

(11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.

(12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Change of Operator <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
MAY 25 1983

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

14. API NO.
43-037-30893

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

Please be advised that Tenneco Oil Company has assumed operation of this well from Raymond T. Duncan, as per the attached Designation of Agent. We will conduct operations in accordance with the approved APD with the exception of cores, logs, DST's and drill procedure. Revisions are attached for your approval.

Tenneco Oil Company requests a confidential or "Tight Hole" status be given all logs and reports concerning this well.

CONFIDENTIAL

FEB 15 1984 Exp.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Ken Russell TITLE Sr. Production Analyst DATE May 24, 1983

(This space for Federal or State office use)
APPROVED BY E. W. GUYNN DATE MAY 25 1983
CONDITIONS OF APPROVAL, IF ANY: _____
TITLE DISTRICT OIL & GAS SUPERVISOR

State - DOGM

(Submit in Triplicate)

DESIGNATION OF AGENT

Chief, Branch of Fluid Minerals, Oil and Gas Operations:

The undersigned is, on the records of the Bureau of Land Management, Unit Operator under the R. C. Unit Agreement, San Juan County, Utah, No. 14-08-0001-21206 approved April 26, 1983 and hereby designates:

NAME: Tenneco Oil Company
ADDRESS: P. O. Box 3249
Englewood, Colorado 80155

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the Chief or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No. 1-19, in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 19, Township 37 South, Range 23 East, S.L.M., San Juan County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

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

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the Bureau of Land Management a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

ATTEST:




Unit Operator - Raymond T. Duncan
1777 South Harrison St.
Penthouse One
Denver, CO 80210

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
6061 SOUTH WILLOW DRIVE
ENGLEWOOD, COLORADO 80155

DRILLING PROCEDURE

DATE: May 23, 1983 WELL NO.: 1-19
LEASE: Tenneco RC Federal
LOCATION: 1570 FSL 570' FEL FIELD: Wildcat
Section 19, T37S, R23E
San Juan County, Utah
ELEVATION 5359' G. L. Surveyed
TOTAL DEPTH: 6485'
PROJECTED HORIZON: Akah

SUBMITTED BY: TOM DUNNING *TD*

DATE May 23, 1983

APPROVED BY: _____

DATE _____

CC: Administration
DSB Well File
Field File

CONFIDENTIAL FEB 15 1984 *Epp.*

ESTIMATED FORMATION TOPS

Morrison Shale	Surface	
Entrada Sand	910'	(Water)
Navajo Sand	1110'	(Water)
Kayenta Shale	1328'	(Water)
Wingate Sand	1498'	(Water)
Chinle Shale	1798'	
Shinarump Sand	2438'	
Organ Rock Shale	2803'	
Ceder Mesa Sand	3332'	
Hermosa Lime	4784'	
Ismay	6121'	(Oil and Gas)
Lower Ismay	6261'	
Desert Creek	6358'	(Oil and Gas)
Akah	6465'	
T.D.	6485'	
Salt	6496'	

1. No abnormal pressures, temperatures or H₂S is anticipated on this hole.

CONFIDENTIAL FEB 15 1984 *Epp.*

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT
2. Set 110' of 13-3/8" casing to be used as conductor casing. Cement with sufficient volume to circulate cement to the surface.
3. Nipple up 12" casing flange, hydrill, and choke manifold. Pressure test hydrill, manifold, etc. to 1000 psi for 15 minutes.
4. Drill 11" hole to 2000' or 200 feet to the Chinle Shale Formation.
5. Log well as per Exploration Department recommendations.
6. Run 8-5/8" 24# & 32#, K-55, ST&C casing to T.D. Cement with sufficient volume to circulate cement to the surface.
7. WOC. Nipple up 10" casing head, BOP's & choke manifold. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes. Drill out float collar & shoe.
8. Drill 7-7/8" hole to TD. Core and DST as shows warrant.
9. Log well as per Exploration department recommendations.
10. If well is productive, run 5-1/2", 17# & 20# N-80, LT&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
11. If the well is non-productive, P & A as per Regulatory Agency specifications.

CASING PROGRAM

CONDUCTOR	0-110'	110'	13 3/8", 54.5#, K-55, ST&C
SURFACE:	0-200'	200'	8 5/8", 24#, K-55, ST&C
	200'-2000'	1800'	8 5/8", 32#, K-55, ST&C Special Drift
PRODUCTION:	0-4000'	4000'	5 1/2", 17#, N-80, LT&C
	4000'-6485'	2485'	5 1/2", 20#, N-80, LT&C

CONFIDENTIAL FEB 15 1984 Exp.

MUD PROGRAM

0-110' Spud mud.
110'-2000' Fresh water. Mud sweeps as needed to clean hole.
2000'-6100' Fresh Water. Mud sweeps as needed to clean hole.
6100'-6485' LSND

EVALUATION

Cores and DST's: One 60' core in the Ismay. One 30' in Lower Ismay and one 30' core in Desert Creek.
3 DST's, one in Ismay, one in Lower Ismay and one in Desert Creek.

Deviation Surveys

110' Every 100' unless hole conditions prohibit running the surveys. Maximum deviation at T.D. 1°.
110'-2000' Every 500' or on trips. Maximum deviation 1° per 100' or 3° at T.D.
2000'-6485' Every 500' or on trips. Maximum deviation 1° per 100' or 6° at T.D.

Samples:

Four sets of dried samples-surface to T.D.:
30' intervals from surface to 4500'
10' intervals from 4500' to T.D.

Logs:

Surface Hole - as specified by Exploration Department GR-BHC/DIL
Production Hole - as specified by Exploration Department. GR-BHC, DLL-MSFL-GR, CNL-LDT-GR, GEO-DIP, CALIPER & VELOCITY SURVEY.

BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Preventors must be checked for operation every 24 hours. This check must be recorded on the IADC Drilling Report Sheet.

CONFIDENTIAL FEB 15 1984

Exp.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

(1) Tom Dunning	740-4813	Office
Drilling Engineer	797-2154	Home
(2) Ted McAdam	740-2576	Office
Senior Drilling Engineer Specialist	978-0724	Home
(3) Charles R. Jenkins	740-2575	Office
Division Drilling Engineer	989-1727	Home
(4) Harry Hufft	771-5257	Home
Division Production Manager		

CONFIDENTIAL FEB 13 1961

Exp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

14. API NO.
43-037-30893

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Change of Operator	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

Please be advised that Tenneco Oil Company has assumed operation of this well from Raymond T. Duncan, as per the attached Designation of Agent. We will conduct operations in accordance with the approved APD with the exception of cores, logs, DST's and drill procedure. Revisions are attached for your approval.

Tenneco Oil Company **requests a confidential** or "Tight Hole" status be given all logs and reports concerning this well.

CONFIDENTIAL

FEB 15 1984 Exp.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Ken Russell TITLE Sr. Production Analyst DATE May 24, 1983
Ken Russell

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

RECEIVED

MAY 25 1983

DIVISION OF
OIL, GAS & MINING

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

DATE: 5/26/83
BY: [Signature]

*See Instructions on Reverse

(Submit in Triplicate)

DESIGNATION OF AGENT

Chief, Branch of Fluid Minerals, Oil and Gas Operations:

The undersigned is, on the records of the Bureau of Land Management, Unit Operator under the R. C. Unit Agreement, San Juan County, Utah, No. 14-08-0001-21206 approved April 26, 1983 and hereby designates:

NAME: Tenneco Oil Company

ADDRESS: P. O. Box 3249
Englewood, Colorado 80155

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the Chief or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No. 1-19, in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 19, Township 37 South, Range 23 East, S.L.M., San Juan County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

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

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the Bureau of Land Management a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

ATTEST:




Unit Operator - Raymond T. Duncan
1777 South Harrison St.
Penthouse One
Denver, CO 80210

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
6061 SOUTH WILLOW DRIVE
ENGLEWOOD, COLORADO 80155

DRILLING PROCEDURE

DATE: May 23, 1983 WELL NO.: 1-19
LEASE: Tenneco RC Federal
LOCATION: 1570 FSL 570' FEL FIELD: Wildcat
Section 19, T37S, R23E
San Juan County, Utah
ELEVATION 5359' G. L. Surveyed
TOTAL DEPTH: 6485'
PROJECTED HORIZON: Akah

SUBMITTED BY: TOM DUNNING *TD*

DATE May 23, 1983

APPROVED BY: _____

DATE _____

CC: Administration
DSB Well File
Field File

CONFIDENTIAL

FEB 15 1984

Exp.

ESTIMATED FORMATION TOPS

Morrison Shale	Surface	
Entrada Sand	910'	(Water)
Navajo Sand	1110'	(Water)
Kayenta Shale	1328'	(Water)
Wingate Sand	1498'	(Water)
Chinle Shale	1798'	
Shinarump Sand	2438'	
Organ Rock Shale	2803'	
Ceder Mesa Sand	3332'	
Hermosa Lime	4784'	
Ismay	6121'	(Oil and Gas)
Lower Ismay	6261'	
Desert Creek	6358'	(Oil and Gas)
Akah	6465'	
T.D.	6485'	
Salt	6496'	

1. No abnormal pressures, temperatures or H₂S is anticipated on this hole.

CONFIDENTIAL

FEB 15 1984

Epp.

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT
2. Set 110' of 13-3/8" casing to be used as conductor casing. Cement with sufficient volume to circulate cement to the surface.
3. Nipple up 12" casing flange, hydrill, and choke manifold. Pressure test hydrill, manifold, etc. to 1000 psi for 15 minutes.
4. Drill 11" hole to 2000' or 200 feet to the Chinle Shale Formation.
5. Log well as per Exploration Department recommendations.
6. Run 8-5/8" 24# & 32#, K-55, ST&C casing to T.D. Cement with sufficient volume to circulate cement to the surface.
7. WOC. Nipple up 10" casing head, BOP's & choke manifold. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes. Drill out float collar & shoe.
8. Drill 7-7/8" hole to TD. Core and DST as shows warrant.
9. Log well as per Exploration department recommendations.
10. If well is productive, run 5-1/2", 17# & 20# N-80, LT&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
11. If the well is non-productive, P & A as per Regulatory Agency specifications.

CASING PROGRAM

CONDUCTOR	0-110'	110'	13 3/8", 54.5#, K-55, ST&C
SURFACE:	0-200'	200'	8 5/8", 24#, K-55, ST&C
	200'-2000'	1800'	8 5/8", 32#, K-55, ST&C Special Drift
PRODUCTION:	0-4000'	4000'	5 1/2", 17#, N-80, LT&C
	4000'-6485'	2485'	5 1/2", 20#, N-80, LT&C

CONFIDENTIAL

FEB 15 1984

Exp.

MUD PROGRAM

0-110' Spud mud.
110'-2000' Fresh water. Mud sweeps as needed to clean hole.
2000'-6100' Fresh Water. Mud sweeps as needed to clean hole.
6100'-6485' LSND

EVALUATION

Cores and DST's: One 60' core in the Ismay. One 30' in Lower Ismay and one 30' core in Desert Creek.
3 DST's, one in Ismay, one in Lower Ismay and one in Desert Creek.

Deviation Surveys

110' Every 100' unless hole conditions prohibit running the surveys. Maximum deviation at T.D. 1°.
110'-2000' Every 500' or on trips. Maximum deviation 1° per 100' or 3° at T.D.
2000'-6485' Every 500' or on trips. Maximum deviation 1° per 100' or 6° at T.D.

Samples:

Four sets of dried samples-surface to T.D.:
30' intervals from surface to 4500'
10' intervals from 4500' to T.D.

Logs:

Surface Hole - as specified by Exploration Department GR-BHC/DIL

Production Hole - as specified by Exploration Department. GR-BHC, DLL-MSFL-GR, CNL-LDT-GR, GEO-DIP, CALIPER & VELOCITY SURVEY.

BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Preventors must be checked for operation every 24 hours. This check must be recorded on the IADC Drilling Report Sheet.

CONFIDENTIAL

FEB 15 1984

Exp.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

(1)	Tom Dunning Drilling Engineer	740-4813 797-2154	Office Home
✓(2)	Ted McAdam Senior Drilling Engineer Specialist	740-2576 978-0724	Office Home
(3)	Charles R. Jenkins Division Drilling Engineer	740-2575 989-1727	Office Home
(4)	Harry Hufft Division Production Manager	771-5257	Home

CONFIDENTIAL FEB 15 1984

Epp.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Teonco Oil Company

WELL NAME: R.C. Federal 1-19

SECTION 19 TOWNSHIP 37S RANGE 23E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG # 3

SPUDDED: DATE 5/27/83

TIME 1 pm

How _____

DRILLING WILL COMMENCE _____

REPORTED BY Howard

TELEPHONE # _____

DATE 5/27/83 SIGNED RJR

NOTICE OF SPUD

Company: Tenneco Oil Company

Caller: Howard Miller

Phone: 303 740 2576

Well Number: RC 1-19

Location: 19-³⁷~~32~~S-23E

County: San Juan State: Utah

Lease Number: U-23153

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 5-27-83 1 p.m.

Dry Hole Spudder/Rotary: rotary

Details of Spud (Hole, Casing, Cement, etc.) 17½" hole
for 110', 13 3/8" casing; 11" hole plus or minus 2500 feet 8 5/8"
casing

Rotary Rig Name & Number: Colman Rig #3

Approximate Date Rotary Moves In: 5/26/83

FOLLOW WITH SUNDRY NOTICE

Call Received By: Al Johansson

Date: May 27, 1983

✓ BLM, Durango
State O&G
MER
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-23153

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

CONFIDENTIAL EXP
APR 15 1984

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

5/27/83: MIRURT. Spud @ 5:00 pm, 5/27/83, w/Coleman Rig #3. Drill to 125', C&C. POOH. Run 3 jts (124') 13-3/8", 54.5#, K-55 ST&C csg, set @ 121'. Cmt w/130 sx Cl-B w/3% CaCl₂. PD @ 12:25 am, 5/28/83. God circ thru-out, circ 1 bbl cmt to surface.

5/28/83: WOC. Cmt 13-3/8" csg, weld on bradenhead, nipple up hydrill. TIH, drill out & ahead.

5/30/83: Drill to 2069'. C&C for logs. RU & log. TIH, C&C, RU to run csg. Run 50 jts (2059') 8-5/8", 32# & 24#, LT&C & ST&C K-55 csg set @ 2064'.

5/31/83: Cmt w/485 sx 65:35 POZ + 6% gel + 1/4#/sx flocele. Tail w/200 sx Cl-B + 1/4#/sx flocele + 2% CaCl₂. Displaced w/124 bbls water. Bump plug w/1400 psi @ 7:30 am, 5/31/83. Float held, good circ. Circ 50 bbls excess cement. ND 13-3/8" stack & WOC. Cut off csg, weld on 8-5/8" x 11", 3000 csg head. Test weld to 1000 psi. NUBOP.

6/1/83: Test all chokes & manifolds & lines to 3000 psi. Test all rams to 3000 psi. Test cs to 1500 psi. Pressure test Hydril to 1400 psi. NU flow line, wash out mousehole. TIH drill float collar & 38' cement test shoe jt to 1500 psi., drill out to 12.1 epq (8.4# surface pressure 400 psi). Drill out and ahead.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John Orr John Orr TITLE Production Analyst DATE June 8, 1983

(This space for Federal or State office use)

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

JUN 13 1983

*See Instructions on Reverse Side

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

5. LEASE NO. 1-215
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH | 13. STATE
San Juan | UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

Tenneco Oil Company requests a revised TD of 6600', per telephone conversation with Bill Martens this date.

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

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John Orr TITLE Production Analyst DATE June 14, 1983

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH | 13. STATE
San Juan | UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO:
- TEST WATER SHUT-OFF
 - FRACTURE TREAT
 - SHOOT OR ACIDIZE
 - REPAIR WELL
 - PULL OR ALTER CASING
 - MULTIPLE COMPLETE
 - CHANGE ZONES
 - ABANDON*
 - (other)

SUBSEQUENT REPORT OF:

RECEIVED

JUN 27 1983

DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

6/20/83: Run 6624', 161 jts 5-1/2" 17# K-55 LT&C csg. Land G.S. @ 6616' RKB float @ 6567' RKB. Bottom marker 6177'. Top at 6156' RKB. Pmp 20 bbls mud flush ahead mix & pmp 250 sx "H" neat w/10% Gyp. + 10% salt, drop plug & displace w/15 bbls H₂O, + 137 bbls 10# gal. salt water. Plug down @ 5:09 am, 6/21/83.

6/21/83: R.D.BOP & tack, Nipple up Lower Section Tree. Rig released @ 4:00 pm, 6/21/83.

CONFIDENTIAL

APR 15 1984

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John Orr John Orr TITLE Production Analyst DATE June 21, 1983

(This space for Federal or State office use)

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

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*
- (other)

SUBSEQUENT REPORT OF:

-
-
-
-
-
-
-
-
-

CONFIDENTIAL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

*expiration date
4/15/84*

5. LEASE U-23153	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME R. C. Federal	
9. WELL NO. 1-19	
10. FIELD OR WILDCAT NAME Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T37S, R23E	
12. COUNTY OR PARISH San Juan	13. STATE UT
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5359' GR	

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.)*

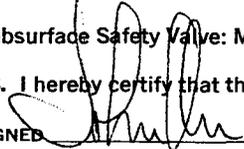
6/28/83: Press test blind rams to 1500 psi for 15 min. OK. Shot 500 gal 7-1/2% HCL w/1 gal inhibitor & 2 gal non-emulsifier, weighted to 10# per gal. w/NaCl from 6567'-5967'.

6/29/83: Perf Desert Cr. 6538-48' w/4 Premium SPF. Break down Desert Cr. perms w/7-1/2% acid in csg. Pmp 5 bbls 2% KCL water. Perfs broke from 3000 psi to 2800 psi @ 1 BPM. Increase rate to 4-1/2 BPM & 3500 psi. Acidize Desert Cr. w/1000 gals 15% MSR 1000 w/2 gal. inhibitor & 4 gal non-emulsifier & 1000 SCF/bbls N₂. Flush to bottom perf plus, 3 bbls w/2% KCL water & 1000 SCF/bbls N₂.

7/1/83: Frac well w/4000 gal 28% MSR-100 + 8 gal inhibitor + 16 gal non-emulsifier 240 bbls water - frac - 40 + 4 gal defoam 471,900 SCF N₂

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED  John Orr TITLE Production Analyst DATE 7/11/83

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
R. C. Federal

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH | 13. STATE
San Juan | UT

14. API NO.
43--037-30893

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF

RECEIVED

AUG 31 1983

DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

8/6/83 - 8/24/83 - Testing and evaluating

CONFIDENTIAL
EAP. 4/15/84

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John H. TITLE Production Analyst DATE 8/26/83

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

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Tenneco Oil Company

3. ADDRESS OF OPERATOR
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AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON* (other)	<input type="checkbox"/>		<input type="checkbox"/>

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
R. C. Federal

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

14. API NO.
43-037-30893

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

08/25/83 - 09/09/83: Testing and Evaluating

RECEIVED
SEP 13 1983

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

Encl. 4/15/84

Subsurface Safety Valve: Manuf and Type _____ Set @ _____ Ft.

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

SIGNED John M. [Signature] TITLE Production Analyst DATE 9/9/83

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249 Englewood, CO (303) 740-2584

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
R. C. Federal

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH | 13. STATE
San Juan | UT

14. API NO.
43-037-30893

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Flare Gas	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

CONFIDENTIAL Corp. 4/15/84

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.)*

Tenneco respectfully requests permission to flare gas from the above well for an indefinite period of time. The present production rate is 5 BO and 50 mcf/D gas. The reasons for flaring are:

- 1) There is not a pipeline within 15 miles of the wellsite.
- 2) Tenneco is in the beginning stages of an exploration project.
- 3) Tenneco has recently run additional seismic and is in the process of evaluating this information.
- 4) We plan to drill more wells in this area and:
- 5) if field is commercial then a pipeline will be brought in to collect gas production.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John A. TITLE Production Analyst DATE 9/16/83

(This space for Federal or State office use)

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

APPROVED BY THE STATE
DATE _____
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 11/29/83
BY: [Signature]

*See Instructions on Reverse Side

Testing & Evaluation, Only.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

5

Form approved.
Budget Bureau No. 42-R355.5.

9

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155 (303) 740-2584

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1570' FSL, 570' FEL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
U-23153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
R. C. Federal

8. FARM OR LEASE NAME
R. C. Federal

9. WELL NO.
1-19

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 19, T37S, R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

RECEIVED
OCT 20 1983
NESE
DIVISION OF
OIL, GAS & MINING
43-037-30893

14. PERMIT NO. & DATE ISSUED
43-037-30893

15. DATE SPUDDED: 5/27/83

16. DATE T.D. REACHED: 6/20/83

17. DATE COMPL. (Ready to prod.): 9/12/83

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*: 5371' KB

19. ELEV. CASINGHEAD: 5359' GR

20. TOTAL DEPTH, MD & TVD: 6616' KB

21. PLUG, BACK T.D., MD & TVD: 6589' KB

22. IF MULTIPLE COMPL., HOW MANY*: ---

23. INTERVALS DRILLED BY: ---

ROTARY TOOLS: 0' - TD

CABLE TOOLS: ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6538 - 48' KB, Desert Creek

25. WAS DIRECTIONAL SURVEY MADE
no

26. TYPE ELECTRIC AND OTHER LOGS RUN
CN/LD, BCS, DL/SFL, High Resolution Dipmeter

27. WAS WELL CORED
no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	121' KB	17 1/2"	130 sx Cl-B w/3% CaCl ₂	
8 5/8"	32# & 24#	2064' KB	12 1/4"	485 sx 65:35 POZ + 6% gel	1/4#/sx flocele
5 1/2"	15.5#	6616' KB	7 7/8"	tailed by 200 sx Cl-B+1/4#sx flocele + (See Reverse)	2% CaCl ₂

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"	6550' KB	

31. PERFORATION RECORD (Interval, size and number)
6538 - 48' KB, 4 PSPF, 40 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6538-48' KB	1000 gal 15% MSR-1000 w/2 gal inhibitor + 4 gal non-emulsifier + 1000 SCF/bbl N ₂ Frac w/4000 gal 28% MSR-1000 + 8 gal inhibitor

CONFIDENTIAL

33.* PRODUCTION

DATE FIRST PRODUCTION: 6/30/83

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Pumping

WELL STATUS (Producing or shut-in): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/12/83	24	N/A	→	13.33	105	.59	7876/1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
---	25PSIA	→	13.33	105	.59	

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Logs Forwarded by Schlumberger

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

SIGNED: John Orr
TITLE: Production Analyst
DATE: 9/22/83

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

*+16 gal non-emulsifier + 240 bbls water-frac-40 +4gal defoam + 471,900 SCF N₂

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 30:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

* 5 1/2" casing cementing detail: 250 sx cl-H neat w/10% Gypsum + 10% salt

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NAME
			MEAS. DEPTH
			TRUE VERT. DEPTH
Morrison	0'	785'	Shale, Sand
Entrada	785'	933'	Sand
Navajo	933'	1518'	Sand
Kayenta	1518'	1724'	Shale
Wingate	1724'	1975'	Sand
Chinle	1975'	2620'	Shale
Shinarump	2620'	3032'	Sand
Organ Rock	3032'	3573'	Shale
Cedar Mesa	3573'	5036'	Sand
Honaker Trail	5036'	6239'	Limestone, Silt, Sand
Ismay	6239'	6340'	Limestone
Hovenweep	6340'	6371'	Shale
Lower Ismay	6371'	6442'	Anhydrite, Limestone, Sand
Gothic	6442'	6461'	Shale
Upper Desert			Anhydrite
Creek	6461'	6531'	
Lower Desert			Dolostone, Limestone
Creek	6531'	6575'	Shale
Chimney Rock	6575'	6603'	Dolostone
Akah	6603'	TD	

Note: All depths expressed in terms of KB.

FILE IN TRIPLICATE
FORM OGC-8-X

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

56 64 03
RECEIVED
NOV 21 1960

DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number R. C. Federal 1-19
Operator Tenneco Oil Company Address P.O. Box 3249, Englewood, CO 80155
Contractor Four Corners Drilling Address Box 1067, Farmington, NM 87401
Location NE 1/4 SE 1/4 Sec. 19 T: 37S R. 23E County San Juan

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continue of reverse side if necessary)

Formation Tops

Remarks No water flows encountered, no tests taken and no rates established.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

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AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

5. LEASE U-23153 ✓	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME R. C. Federal	
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14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5359' GR	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

CONFIDENTIAL

4/15/84

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.)*

Tenneco respectfully request permission to Plug & Abandon above mentioned well per attached detailed procedure.

Accepted
[Signature]

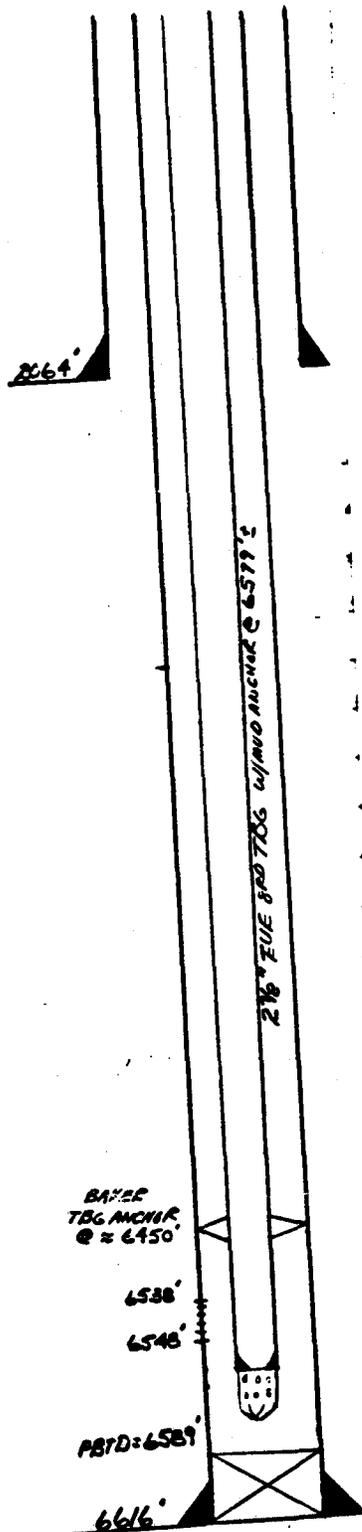
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Randolph C. Wolf TITLE Sr. Production Analyst DATE 12-9-83

(This space for Federal or State office use)

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



LEASE R. C. Federal

WELL NO. 1-19

8-5/8 "OD, 24/32 LB, K-55 CS6.W/685 SX

TOC @ surface

5-1/2 "OD, 15.5 LB, K-55 CS6.W/250 SX

TOC @ 5580'

DETAILED PROCEDURE:

1. MIRUSU. Kill well.
2. POOH w/pmp & rods. (LAY DOWN)
3. NDWH. NUBOP. Release anchor & POOH w/tbg.
4. RIH w/cmt retainer on tubing. Set @ 6450' ±.
5. P.T. tbg to 2000 psi. Sting out of retainer & establish reverse circ.
6. Sting into retainer & P.T. annulus to 500 psi.
7. Cement squeeze perms w/50 sxs Class "H" cmt (max STP 1750 psi).
8. Sting out of retainer, reverse circ. POOH w/tbg.
9. RIH & free point csg.
10. Cut csg above freepoint & retrieve as much csg as possible.
11. RIH w/tbg spot a 100' Class "H" cmt plug 50' below csg cut point & 50' above (vol = 21 sx).
12. Pull up hole to 2114' & spot a 100' Class H cmt plug 50' below surface csg and 50' above (vol. = 30 sx).
13. Pull up to 100' ± & spot a 100 Class "H" cmt plug to surface (vol = 30 sx).
14. POOH w/tbg.
15. Cut wellhead off below surface, install dryhole marker & restore surface location.

CEMENTING SERVICE REPORT



MENT NUMBER **15-69-0607** DATE **2-14-84**
 STAGE **DOWELL DISTRICT** **CORTES CO.**

DWL-496-N PRINTED IN U.S.A. **PAGE 1 OF 2**

DOWELL DIVISION OF DOW CHEMICALS
 AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

WELL NAME AND NO. **R.C. FEDERAL # 1-19** LOCATION (LEGAL) **SEC 19 T37S R23E**
 FIELD-POOL **WILDCAT** FORMATION **DESERT CREEK**
 COUNTY/PARISH **SAN JUAN** STATE **UTAH** API. NO. **7-141**

RIG NAME: **NH**
 WELL DATA: BOTTOM TOP
 BIT SIZE CSGLINER SIZE **5 1/2 8 5/8**
 TOTAL DEPTH WEIGHT **15.5 24**
 ROT CABLE FOOTAGE **2935-TP 2061**
 MUD TYPE GRADE
 BHST BHCT THREAD
 MUD DENSITY **9.2** LESS FOOTAGE SHOE JOINT(S)
 MUD VISC. DISP. CAPACITY
 NOTE: INCLUDE FOOTAGE FROM GROUND LEVEL TO HEAD IN DISP. CAPACITY

NAME **TENNECO OIL COMPANY**
 AND **P.O. Box 3249**
 ADDRESS **ENGLEWOOD, COLORADO**
 ZIP CODE **80155**

SPECIAL INSTRUCTIONS
PLUG TO ABANDON WELL (THREE PLUGS)
1ST PLUG 2936-2336 (TOTAL 42 SKS)
2ND PLUG 2103-2003 (45 SKS)
3RD PLUG 601-0 (22 SKS)

HEAD & PLUGS	<input checked="" type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB	
<input type="checkbox"/> DOUBLE	SIZE 2.876 EOE	TOOL	TYPE
<input type="checkbox"/> SINGLE	<input type="checkbox"/> WEIGHT 6.5		DEPTH
<input checked="" type="checkbox"/> SWAGE	<input type="checkbox"/> GRADE 7.55	TAIL PIPE: SIZE	DEPTH
<input type="checkbox"/> KNOCKOFF	<input type="checkbox"/> THREAD 8 RP	TUBING VOLUME	Bbls
TOP <input type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls
BOT <input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL	Bbls
ROTATE	RPM	RECIPROCATE	FT
NO. OF CENTRALIZERS		ANNUAL VOLUME	
		Bbls	

PRESSURE LIMIT PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCATE FT NO. OF CENTRALIZERS

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 1600	DATE: 2-1-84	TIME: 1430	DATE: 2-1-84	TIME:	DATE:	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
1430								PRE-JOB SAFETY MEETING			
1715								WAIT WHILE RIG LAY DOWN TORING			
1717	2.50		5	0		MUD 9#		START MUD TO BREAK CIRCULATION TR @ 2936'			
1720	2.60		6	5	1.6	SUDRY 15.6		START CEMENT			
1723	2.50		16.5	11	2	MUD 9#		START DISPLACEMENT			
1731	VAR			27.5	2			SHUT DOWN			
20700											
0720								WAIT ON RIG TO TAG PLUG (TAG 25' LWD)			
0826	2.50		5	0		MUD 9#		START MUD TO BREAK CIRCULATION TR @ 2103'			
0733	2.50		2.5	5	.8	SUDRY 15.6		START CEMENT			
0834	0		16.5	7.5	2.5	MUD 9#		START DISPLACEMENT			
0842	VAR			24	2			SHUT DOWN			
1020								WAIT ON RIG TO LAY DOWN TORING			
0920	2.00		5	0		MUD 9#		START MUD TO BREAK CIRCULATION TR @ 2103'			
0930	2.50		9.5	5		SUDRY 15.6		START CEMENT			
0935			11	14.5		MUD		START DISPLACEMENT			
0942				25.5				SHUT DOWN			

SYSTEM CODE	NO. OF BAGS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED	
						BBLs	DENSITY
001	30	1.18	CLASS E	W/2% CALCIUM CHLORIDE	IN MIX WATER	6.5	15.6
002	12	1.18	CLASS F	NEAT		2.5	15.6
003	45	1.18	CLASS F	W/2% CALCIUM CHLORIDE		4.5	15.6
004	22	1.18	CLASS E	NEAT		5	15.6

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. **250** MIN:
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO CEMENT CIRCULATED TO SURF. YES NO Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 WASHED THRU PERES YES NO TO FT MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS CUSTOMER REPRESENTATIVE DOWELL SUPERVISOR
T. R. LEWIS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1570' FSL, 570' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBJECT REPORT OF
TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
PULL OR ALTER CASING
MULTIPLE COMPLETE
CHANGE ZONES
ABANDON*
(other)

RECEIVED
FEB 15 1984

DIVISION OF
OIL, GAS & MINING

5. LEASE
U-23153 ✓
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
R. C. Federal
9. WELL NO.
1-19
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T37S, R23E
12. COUNTY OR PARISH | 13. STATE
San Juan | UT
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5359' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

CONFIDENTIAL

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

2/6/84: MIRUSU 1-29-84. Pull PMP and set 5-1/2" Baker Retainer @ 6435'. Sqz. PERFS @ 6538'-6548' w/50sx 59 cf Class B 15.6#, 3.25 bbl cmt in Perfs. Max sqz @ 1850 PSI. Run FTPT, csg free @ 2174'. Pulled 72 jts 5-1/2" csg (2935'). Plugged well as follows: Plug #1 2985'-2885' 42/sx 50 cf cmt CL-B 2% CaCl₂ 15.6#/gal Tag cmt @ 2911'. Plug #2 2114'-2014' 45 sx 53 cf cmt CL-B 2% CaCl₂ 15.6#/gal. Tag cmt 2014'. Plug #3 60' to surface 23 sx 27 cf CL-B cmt. RDMOSU. Rig release 2-4-84 Install dry hole marker.

NOTE: Stipulation called for class H cmt, Class B was used due to availability. Detail procedure called for a 100' plug at surface, BLM Rep. on location approved 60' plug and requested the plugs be tagged. Location will be reclaimed in the spring of 1984 and reseeded in fall of 1984.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Scott McKinney TITLE Sr. Prod. Analyst DATE 2/9/84

(This space for Federal or State office use)

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

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE 2/11/84
BY: [Signature]



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

September 17, 1984

Tenneco Oil Company
P.O. Box 3249
Englewood, Colorado 80155

Gentlemen:

Re: Well No. R. C. Federal 1-19 - Sec. 19, T. 37S., R. 23E.
San Juan County, Utah - API #43-037-30893

According to our records, a "Well Completion Report" filed with this office September 22, 1984, on the above referred to well, indicates the following electric logs were run: CN-LD, BCS, DL-SFL and High Resolution Dipmeter. As of today's date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

Claudia L. Jones
Well Records Specialist

clj
cc: D. R. Nielson
R. J. Firth
J. R. Baza
File
00000001-24

Tenneco Oil Company

A Tenneco Company



Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6162 South Willow Drive
Englewood, Colorado 80111

November 1, 1984

RECEIVED

NOV 06 1984

DIVISION OF OIL
GAS & MINING

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

Attention: Claudia Jones

45-037-30893

Dear Ms. Jones:

In response to your letter dated September 17, 1984, we are sending you copies of our logs on the RC-Federal 1-19 well in Sec. 19-37S-23E, San Juan County, Utah. According to our records those logs were sent in September 1983, however, they must have been lost. We sincerely apologize for the late arrival of this second set of logs to your office. We are sending zerox copies as the blue lines are missing. You may use a copy of this letter as an acknowledgement of receipt of the logs by signing below. Please send this letter back with the enclosed self addressed envelope.

Sincerely,

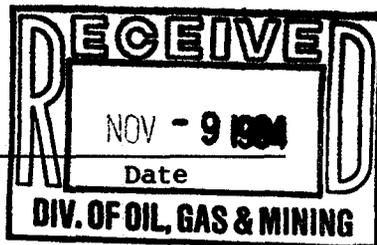
TENNECO OIL COMPANY

Patrick R. McGraw

Patrick McGraw
Geological Technician

Logs were received by:

Claudia Jones
Signature



P./ff
0407V