

**FILE NOTATION**

Entered in NID File \_\_\_\_\_

Entered On S R Sheet \_\_\_\_\_

Location Map Pinned \_\_\_\_\_

Card Indexed \_\_\_\_\_

IWR for State or Fee Land \_\_\_\_\_

Checked by CH \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

**COMPLETION DATA:**

Date Well Completed \_\_\_\_\_

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ VW \_\_\_\_\_ TA \_\_\_\_\_

Sand released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

State of Fee Land \_\_\_\_\_

**LOGS FILED**

Driller's Log \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Misc \_\_\_\_\_

Lat. \_\_\_\_\_ M-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.  
U 31461

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Cat Creek

9. WELL NO.  
18 - 1A Cat Creek

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 18 T5S, R23E, S.L.B. & M.

12. COUNTY OR PARISH  
Uintah

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  
Del - Rio Drilling Programs, Inc.

3. ADDRESS OF OPERATOR  
448 East 4th South, Suite 203, S.L.C. UT 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
747' FWL 680' FSL **SWSW**  
 At proposed prod. zone  
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
3 miles West of Jensen, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
680'

16. NO. OF ACRES IN LEASE  
640

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.

19. PROPOSED DEPTH  
3700' *Water*

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4875' GR

22. APPROX. DATE WORK WILL START\*  
July 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	9 5/8"	40.00#	300'	Circ. to Surface
7 7/8"	5 1/2"	17.00#	3650'	320 sx.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
 DATE: 6-4-80  
 BY: M.J. Minder

*Providing BOP includes both blind & pipe rams.*

**RECEIVED**  
MAY 28 1980

DIVISION OF OIL, GAS & MINING

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

24. SIGNED [Signature] TITLE President DATE May 27, 1980

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

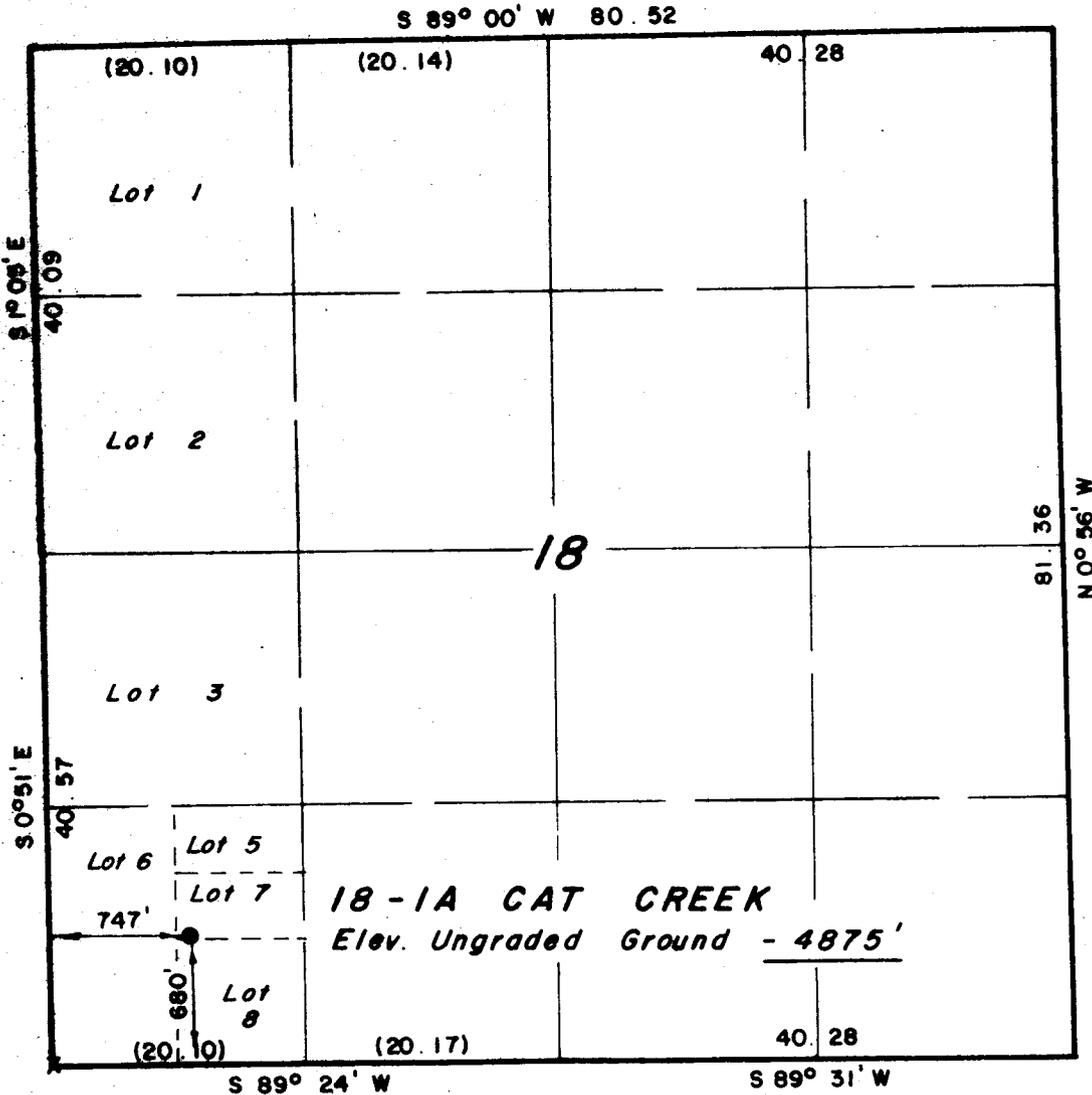
CONDITIONS OF APPROVAL, IF ANY:

Vertical stamp with text: RECEIVED, MAY 28 1980, DIVISION OF OIL, GAS & MINING, and other administrative markings.

T 5 S , R 23 E , S.L.B. & M.

PROJECT  
DEL RIO DRILLING  
PROGRAMS, INCORPORATED

Well location, 18-1A CAT  
 CREEK, located as shown in  
 Lot 7, Section 18, T5S, R23E,  
 S.L.B.&M., Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

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

*Nelson J. Campbell*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO 2454  
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING P. O. BOX Q - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE APRIL 23, 1978
PARTY N.J.M. S.H. B.F.W.	REFERENCES GLO Plat
WEATHER Cloudy, Windy & Warm	FILE DEL RIO DRILLING

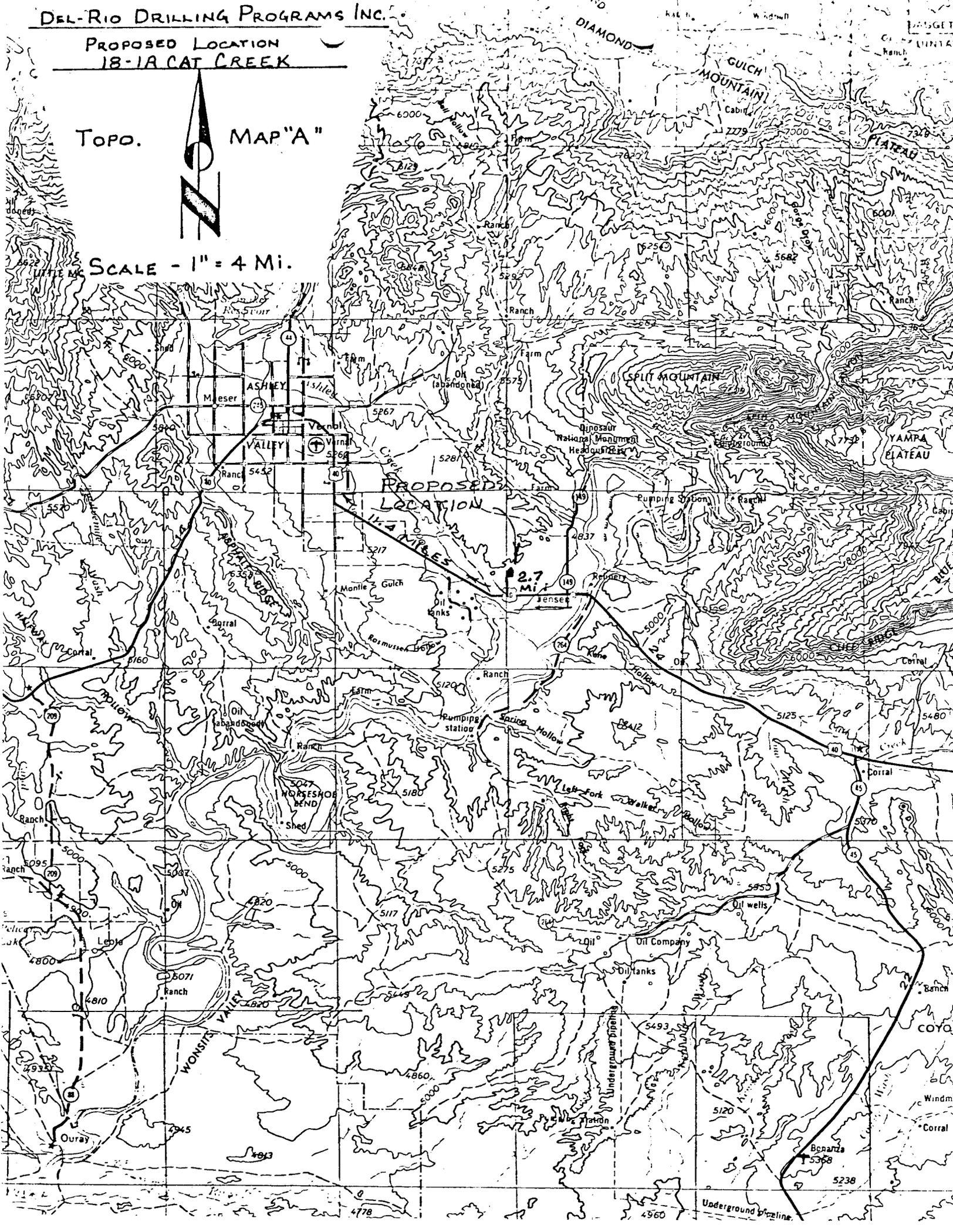
DEL-RIO DRILLING PROGRAMS INC.

PROPOSED LOCATION  
18-1A CAT CREEK

TOPO. MAP "A"



SCALE - 1" = 4 Mi.



PROPOSED LOCATION

2.7 Mi.

WONSTEIN VALLEY

Underground Pipeline

Underground Pipeline

Boanza 5368

5238

5170

5125

5480

5000

5120

5275

5117

5180

5120

5275

5281

5281

5281

5281

5281

Ranch

National Monument

Rumping Station

Rene

Socia Hollow

Leg Fork

Oil Company

Oil tanks

Oil tanks

Oil tanks

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Oil and Gas Drilling

EA # 465-80

United States Department of the Interior  
Geological Survey  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: July 29, 1980

Operator: Del Rio Drilling Programs Project or Well Name and No.: 18-1A Cat Creek

Location: 747 FWL & 680' FSL Sec. 18 T.5S R. 23E

County: Uintah State: Utah Field/Unit: Wildcat

Lease No.: U-31461 Permit No.:

Joint Field Inspection Date: June 26, 1980

Prepared By: Greg Darlington

Field Inspection Participants, Titles and Organizations:

Greg Darlington	USGS-Vernal
Gary Slagel	BLM-Vernal
Gene Stewart	Del Rio Drilling Programs

Related Environmental Analyses and References:

Unit Resource Analysis, Ashley Creek Planning Unit, BLM, Vernal

sk 8-21-80

*Drill pad 165' x 325'  
(including reserve pit 80' x 150')  
access road 18' x 0.2 miles  
3 low water crossings required  
1 cattle guard required  
2 miles from Green River  
conditions of approval p. 7 (1-5)  
Admin. complete?*



The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad about 165' wide x 325' long including a reserve pit 80' x 150' would be constructed. Approximately .2 miles of new access road, averaging a 18' driving surface, would be constructed and approximately .5 miles of existing road would be improved to 18' of driving surface from a maintained road. Maximum disturbed width of access road would be limited to 30'. Three low water crossings and one cattleguard would be required.
2. Drilling would be to a proposed depth of 3700' feet
3. Waste disposal.
4. Traffic.
5. Water requirements.
6. Completion.
7. Production.
8. Transportation of hydrocarbons.
9. Other.

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: The location is in a flat open area near the edge of presently cultivated farmland. It is about 3000' north of H.S. Highway 40 and two miles from the Green River.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected:

— Thin coal or lignite beds thought to exist in the Dakota Formation (320 feet to 410 feet estimated depth.

Information Source: MER

2. Hazards:

a. Land Stability: Adequate for the proposed project.

Information Source: Field Observation.

b. Subsidence: Not likely to be other than a minor problem.

Information Source: FO

c. Seismicity: The location is in an area of moderate seismic risk

Information Source: "Geologic Atlas of Rocky Mountain Region,"

d. High Pressure Zones/Blowout Prevention: Abnormal Pressures are not anticipated. BOP equipment to be used is described in APD.

Information Source: APD

B. Soils:

1. Soil Character: The soil is a sandy-clay which might be farmable if irrigated.

Information Source: FO

2. Erosion/Sedimentation: The flat nature of the locations topography and low rainfall in this area make it unlikely that serious erosion problems will occur.

Information Source: FO

C. Air Quality: There will be temporary impacts involved during construction and drilling phases of the proposed project.

Information Source: Field Observation

D. Noise Levels: There will be temporary impacts involved during construction and drilling phases of the proposed project.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: The location is just above the alluvial farm land of the Jensen community and is about two miles west of the Green River.

Information Source: APD

b. Ground Waters: Fresh water may be found to 2255 feet and may also be possible in the Weber Formation 3450-3700 feet.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: The reserve pit is thought to be of adequate size. An abandoned irrigation ditch is located just east of the location. In a well of this depth the potential for impacts to surface water quality is probably less than it would be in a deeper well.

Information Source: F0

b. Ground Waters: Drilling will be with a fresh water base drilling mud with barite weighting material available in case abnormal pressures are encountered. Casing program is also described in the APD. Adequate casing will be utilized to protect ground water aquifers.

Information Source. APD

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the BLM comments received from Vernal District BLM on 7-16-80 we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Grass, Rabbitbrush, and other desert plants are on the location. Good farm land is located just to the east with crops under sprinkler system irrigation.

Information Source: F0

3. Fauna: The area is often used as a deer crossing between Red Wash and the Dinosaur National Monument. Various Rodents and birds such as: Pheasants, Magpies, Sparrows, Crows and Jays may be present in the area.

Information Source: APD F0

G. Land Uses

1. General: Grazing of domestic sheep and cattle.

Information Source: APD

2. Affected Floodplains and/or Wetlands: None.

Information Source: Field Observation.

3. Roadless/Wilderness Area: N/A Area is within .2 mile of an existing road and at the edge of presently farmed land.

Information Source: FO

H. Aesthetics: Limited impacts would arise. Drilling and production facilities would be visible from U.S. Highway 40, but would not represent much of an intrusion upon the present aesthetic quality of this area.

Information Source: Field Observation.

I. Socioeconomics: The impact of one well would not be very significant. Cumulative impacts of further drilling could result in a considerable alteration of present farming lifestyles in the Jensen area. The impact on the community of Jensen may be significant.

Information Source: Field Observation

J Cultural Resources Determination: Based on the BLM comments received from Vernal District BLM we determine that there would be no effect on cultural resources subject to that archaeological clearances have been received.

Information Source: BLM stipulation letter

K. Adequacy of Restoration Plans: Apparently adequate if BLM stipulations are also accepted and complied with on the access road. The landowner agreement should adequately satisfy the landowner concerning the pad and the final 200 feet of the access road which are on his property.

Information Source: BLM Stipulations Letter, APD and Landowner agreement

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

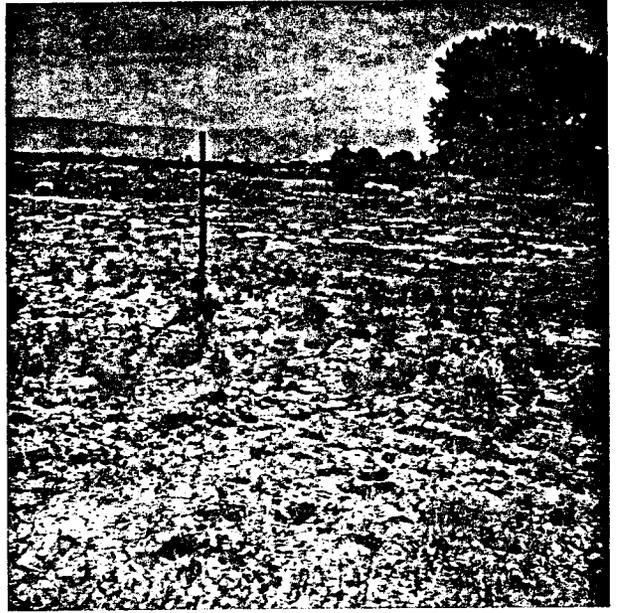
1. If approved as proposed:

- a. About 2.0 acres of vegetation would be removed, increasing and accelerating erosion potential.
- b. Pollution of groundwater systems would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
- c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- d. The potential for fires, leaks, spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to Green River would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

Pix



Del Rio Cat Creek 18-1A  
West View Sec 18, T5S, R23E  
6/26



Del Rio Cat Creek 18-1A  
East View Sec 18, T5S, R23E  
6/26



Del Rio Cat Creek 18-1A  
North View Sec 18, T5S, R23E  
6-26

2. Conditional Approval:

All adverse impacts described in section one above would occur, except.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

- ~~1. See attached Lease Stipulations.~~
2. See attached BLM Stipulations.
3. The Mineral Evaluation Report requests a log of the cuttings through the Dakota Formation to evaluate thin coal beds thought to be present there (320-410 feet depth).
4. The Mining Report requests adequate logs covering all formations containing potentially valuable minerals.
5. Suitable landowner agreement is obtained by the operator. Gene Stewart has informed the USGS that a landowner agreement had been obtained on August 6, 1980.

Controversial Issues and Conservation Division Response:

The author of this document is not aware of any at this time.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

  
Signature & Title of Approving Official

FOR E. W. GUYNN  
DISTRICT ENGINEER

AUG 26 1980  
Date

DEL RIO DRILLING PROGRAMS, INCORPORATED

13 Point Surface Use Plan

For

Well Location

18 - 1A Cat Creek

Located In

Section 18, T5S, R23E, S.L.B. & M.

Uintah County, Utah

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Maps "A" and "B".

To reach Del Rio Drilling Programs, Incorporated well location 18 - 1A Cat Creek, located in Lot 7, Section 18, T5S, R23E, S.L.B. & M., Uintah County, Utah:

Proceed Easterly out of Vernal, Utah along U.S. Highway 40 - 11.4 miles to its junction with an existing dirt road to the North; proceed Northerly along this road 0.5 miles to its junction with the proposed access road (to be discussed in Item #2).

U.S. Highway 40 is a bituminous surfaced road and is maintained by state road crews. The existing dirt road is in poor condition and will require extensive reconstruction in order to facilitate an orderly flow of traffic to and from this well during the drilling, production, and completion phases of this well. This dirt road will be constructed to meet the requirements in Item #2.

2. PLANNED ACCESS ROAD

See Topographic Map "B"

The existing unimproved road (to be re-built) leaves the existing U.S. Highway 40 in the E $\frac{1}{2}$  of Section 24, T4S, R22E, S.L.B. & M. and proceeds in a Northerly direction to the proposed road. This road is on B.L.M. lands. The grade along this road is relatively flat but will not exceed 8%. There will be a fence encountered at the beginning of this road, there is an existing gate at this fence, this gate will be replaced with a cattleguard and a new gate at one end of the cattleguard. This cattleguard will be placed according to the specifications found in the Oil & Gas surface operating manual.

There will be 1 - 18" culvert and one dry wash drainage crossing installed along this road, these will be placed according to the specifications found in the herein mentioned operating manual.

The proposed access road leaves the existing un-improved road in the SE $\frac{1}{4}$  Section 13, T5S, R22E, S.L.B. & M. and proceeds in an Easterly direction to the proposed location site. This road traverses relatively flat ground to the location site. There will be two 18" culverts required along this portion of the road. These will be placed according to the specifications required in the preveously mentioned operations manual.

There is one existing fence encountered on this portion of the road. This fence will be cut and replaced with a cattleguard. This cattleguard will be placed according to the specifications in the preveously mentioned operations manual.

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

2. PLANNED ACCESS ROAD - continued

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the areas of the road will be 1 ½ to 1 slopes and terraced. The grades on these roads will not exceed 8%.

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet end.

3. LOCATION OF EXISTING WELLS

See Topographic Map "b".

There are no known water wells, producing wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources within a one mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Del Rio Drilling Programs Incorporated tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines or disposal lines within a three mile radius of this location site.

In the event production is established, it will be contained in tanks on the location site. It is not known at this time where permanent facilities for transportation of the produced items will be placed. Plans for these facilities will be submitted to the appropriate authorities if and when production is established.

The area used to contain the temporary production facilities will be built, if possible, with native materials, and if these materials are not available then the necessary arrangements will be made to get them from private sources. These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

5. LOCATION OF AND TYPE OF WATER SUPPLY

See Topographic Map "B".

Water to be used in the drilling of this well will be hauled by truck over the roads described in Items #1 and #2 from Ashley Creek approximately 2.2 miles by road west of the location site.

In the event that this sources is not used, an alternate source will be used and all necessary arrangements will be made with proper authorities. All appropriate permits will be acquire and submitted to the proper authorities.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

Construction materials for this location site shall be borrow materials accumulated during construction of the location site. There are no pit lining materials from other sources anticipated at this time, however if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will vary in size and depth according to the water table at the time of drilling. One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements of Item #10 will be followed.

A portable trash basket will be placed on the location site and all trash will be hauled to the Vernal City Sanitary Land Fill. A portable chemical toilet will be supplied for human waste.

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representative of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type necessary to make them safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SOURCE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See Location Layout Sheet and Item #9). When all drilling and production activities have been completed, the location site will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion if drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

Restoration activities shall begin upon the approval of the agencies involved. Once restoration activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site shall be reseeded with a seed mixture recommended by the B.L.M. Representative when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner, and in strict conformity with the above mentioned Items #7 and #10.

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A").

The area is located in the Southeastern part of what is known as the Ashley Valley. The more immediate area is a large drainage formed by the Diamond Mountain to the North, the Blue Mountain to the East, and Asphalt Ridge to the West. Ashley Creek drains from the North to the south through the area and drains into the Green River to the South.

The area is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits, and shale are common in this area.

The topsoils in the area range from a light brownish-gray sandy-clay (SM-ML) type soil with poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

Ashley Creek and the Green River to the South of this location are the only perennial streams that are affected by this location site.

Due to the low precipitation average, climate conditions, and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in; it consists of areas of sagebrush, rabbitbrush, some grasses, and cacti as the primary flora. This is also true of the lower elevations.

The fauna of the area consists predominantly of the mule deer, pronghorn antelope, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (See Topographic Map "B").

DEL RIO DRILLING PROGRAMS, INCORPORATED  
18 - 1A Cat Creek  
Section 18, T5S, R23E, S.L.B. & M.

11. OTHER INFORMATION - continued

18 - 1A Cut Creek sits on top of a plateau known as Sunshine Bench which is approximately 1.5 miles East of Ashley Creek. The sides of this plateau are relatively steep on the West and South.

The vegetation in the immediate area surrounding the location site consists of grasses and sparse amounts of sagebrush.

There are occupied dwellings and other facilities of this nature approximately 0.5 miles South of this location site.

There are no visible historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B"). It will be determined by a qualified archaeologist if there are any archaeological findings in the area.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Larry Caldwell  
448 East 4th South, Suite 203  
Salt Lake City, Utah 84111

Tele: 801-255-8028

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which 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 Del Rio Drilling Programs, Incorporated and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

May 19, 1980  
Date

Larry Caldwell  
Larry Caldwell

DRILLING PLAN

DEL-RIO DRILLING PROGRAMS, INC.

18 - 1A Cat Creek

C-SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 18, T5S-R23E, SLM.,

Uintah County, Utah

1. The geologic name of the surface formation is the Mancos shale, Frontier sandstone member.
2. The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Estimated Depth</u>
Mowry	210
Dakota	320
Morrison	410
Curtis	1115
Entrada	1265
Carmel	1485
Navajo	1585
Chinle	2255
Shinarump	2455
Moenkopi	2475
Phosphoria	3325
Weber	3450
T.D.	3700 ( 200' into Weber ).

3. The estimated depths at which oil or gas are anticipated are as follows:

Salt Wash member of the Morrison: 700 to 1100'  
Entrada, 1265-1485  
Shinarump, 2455-2475  
Phosphoria, 3325-3450  
Weber, 3450-3650.

Water flows are anticipated in the Navajo Fm., 1585-2200'.

4. The proposed casing program is as follows:

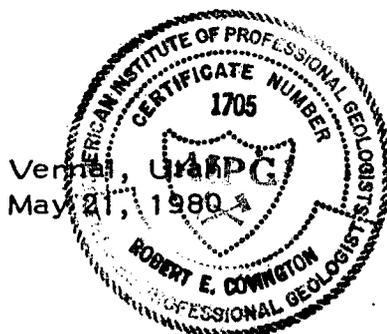
<u>Hole Size</u>	<u>Casing Size &amp; Wt./ft.</u>	<u>Depth Set</u>	<u>Cementing Program</u>
12 3/4"	9 5/8", 40.00#, New	300'	Circ. to surface
7 7/8"	5 1/2", 17.00#, New	3650'	320 sx.

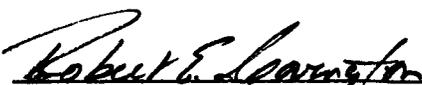
Drilling Plan, Contd.  
Del-Rio Drilling Programs, Inc.  
Cat Creek 1-18  
SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 18, T5S-R23E, SLM  
Uintah County, Utah,  
Page Two

5. Operator's minimum specification for pressure control equipment is a 10", 3000 psi hydraulic blowout preventor. Blowout preventor will be tested daily. Refer to Diagram "C".
6. Fresh water base drilling mud will be used for the entire drilling operation, utilizing a dispersed mud system to total depth. Mud weight will be controlled by controlling drilling solids. Barite will be used for weighting material in the event that abnormal pressures are encountered. Total system volume will be 320 barrels, not including potential reserve pit volume.
7. Auxiliary equipment to be used are as follows:
  - (1) Kelly cocks
  - (2) Bit floats
  - (3) A full opening-quick close drill pipe valve is to be located on the derrick floor at all times.
8. All commercial shows of oil and/or gas will be tested. We are anticipating drill stem tests in the Shinarump, Phosphoria and in the Weber. One core is anticipated in the top of the Weber.

The logging program is as follows:

- (1) Mud logging unit from 300' to T.D.
  - (2) Dual Induction-Laterlog from T.D. to base of surface casing.
  - (3) BHC-Gamma Ray Sonic w/Caliper, Integrated, from T.D. to bottom of surface casing.
  - (4) Formation Density/Compensated Neutron: Zones of interest.
9. No abnormal pressures or temperatures are anticipated. No potential hazards such as hydrogen sulfide are expected, based on experience from nearby wells.
  10. The anticipated starting date is July 15th, 1980



  
Robert E. Covington, CPG #1705  
Consultant for De-Rio Drilling Programs, Inc.

\*\* FILE NOTATIONS \*\*

DATE: May 28, 1980  
OPERATOR: Hel- Rio Drilling Programs, Inc.  
WELL NO: Cat Creek # 18-1A  
Location: Sec. 18 T. 55 R. 23E County: Uintah

File Prepared:  Entered on N.I.D:   
Card Indexed:  Completion Sheet:

API Number 43-047-30714

CHECKED BY:

Petroleum Engineer: M.S. Minder 6-4-80  
\_\_\_\_\_  
\_\_\_\_\_  
Director: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Administrative Aide: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3   
Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site

# |

Lease Designation  Plotted on Map   
Approval Letter Written   
Hot Line  P.I.

June 6, 1980

Del-Rio Drilling Programs  
448 East 4th So.  
Suite 203  
S.L.C. Utah 84111

Re: Well No. Cat Creek #18-1A  
Sec. 18, T. 5S, R. 23E.  
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, 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:

MICHAEL T. MINDER - Petroleum Engineer  
Office- 533-5771  
Home- 876-3001

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 43-047-30714.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Petroleum Engineer

/jt

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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  
Del - Rio Drilling Programs, Inc.

3. ADDRESS OF OPERATOR  
448 East 4th South, Suite 203, S.L.C. UT 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surface 747' FWL 680' FSL  
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
3 miles West of Jensen, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
680'

16. NO. OF ACRES IN LEASE  
640

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.

19. PROPOSED DEPTH  
3700'

20. ROTARY OR CABLE TOOLS  
Rotary

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

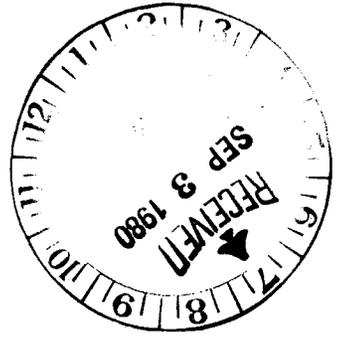
22. APPROX. DATE WORK WILL START\*  
July 15, 1980

5. LEASE DESIGNATION AND SERIAL NO.  
U 31461  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Cat Creek  
9. WELL NO.  
18 - 1A Cat Creek  
10. FIELD AND POOL, OR WILDCAT  
Wildcat  
11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA  
Sec. 18 T5S, R23E, S.L.B. & M.  
12. COUNTY OR PARISH  
Uintah  
13. STATE  
Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	9 5/8"	40.00#	300'	Circ. to Surface
7 7/8"	5 1/2"	17.00#	3650'	320 sx.

DUPLICATE COPY



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

24. SIGNED [Signature] TITLE President DATE May 27, 1980

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY [Signature] TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE AUG 29 1980

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

Utah State Oil & Gas



# United States Department of the Interior

IN REPLY REFER TO

T & R  
(U-801)

BUREAU OF LAND MANAGEMENT  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

July 11, 1980

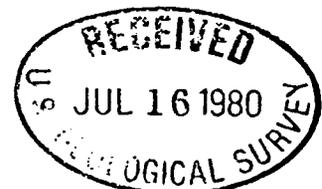
Ed Guynn, District Engineer  
USGS, Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

Re: Joint On-site Inspection  
Del Rio 18-1A  
T5S, R23E, Sec. 18 U-31461

Dear Mr. Guynn:

A joint field examination was made on June 26, 1980 of the above referenced well site location and proposed access road. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration and Development".
2. The maximum width of access roads will be 30 feet total disturbed area. Turnouts will not be required and traveling off the right-of-way will not be allowed.
3. Topsoil will be stockpiled as addressed in the applicants 13-point plan. Our office recommends that the top 8-10 inches of soil material be stockpiled.
4. The BLM will be notified at least 24 hours prior to any construction.
5. The BLM will be notified at least 24 hours prior to any rehabilitation so that the operator may be appraised of seeding and restoration requirements.



6. No culverts will be required, contrary to what was stated in the applicants 13-point plan. Gravel will be spread in the low drainages in place of the culverts.
7. One cattleguard will be required where the access road crosses an existing fence.
8. The reserve pit will be fenced on three sides prior to any drilling.
9. It was agreed to by all parties present that the applied for pad size is adequate to handle all drilling and fracking operations.

An archeological clearance has been conducted by Archeological-Environmental Research Corporation of the drill site and proposed access road. No cultural materials were located.

The proposed activities do not jeopardize listed, threatened or endangered flora/fauna and their habitats.

Sincerely,

*Byron K. Tolman (acting)*

Ralph J. Heft  
Area Manager  
Diamond Mountain Resource Area

cc: ✓ USGS, Vernal

FROM: : DISTRICT GEOLOGIST, ~~ME~~, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-31461

OPERATOR: Del-Rio Drilling

WELL NO. 18-1A Cat Creek

LOCATION: NE 1/4 SW 1/4 SW 1/4 sec. 18, T. 55., R. 23 E., 50M

Uintah County, Utah

1. Stratigraphy: Operator logs appear correct

Mancos	surface	Navajo	1585'
Mowry	210'	Chinle	2255'
Dakota	320'	Shinarump	2455'
Morrison	410'	Moenkopi	2475'
Curtis	1115'	Phosphoria	3325'
Entrada	1265'	Weber	3458'
Carmel	1485'	T.D.	3700'

2. Fresh Water:

Fresh water may be found in the Dakota, Entrada, & Navajo.  
 Weber may contain useable water. (Operator anticipates water flows in Navajo)

3. Leasable Minerals:

Thin beds of lignite and/or coal may exist in the Dakota

4. Additional Logs Needed:

Log of cuttings thru potential coal zone (320' to 410'). The rest of the specified logging program is adequate.

5. Potential Geologic Hazards: None anticipated

6. References and Remarks:

Signature: Gregory W. Wood

Date: 6-16-80

Well No. 18-55-23E

*Greg*

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-31461 Well No. 18-1A Cat Creek

1. The location appears potentially valuable for:

- strip mining\*
- underground mining\*\* *coal or lignite*
- has no known potential.

2. The proposed area is

- under a Federal lease for \_\_\_\_\_ under the jurisdiction of this office.
- not under a Federal lease under the jurisdiction of this office.
- Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

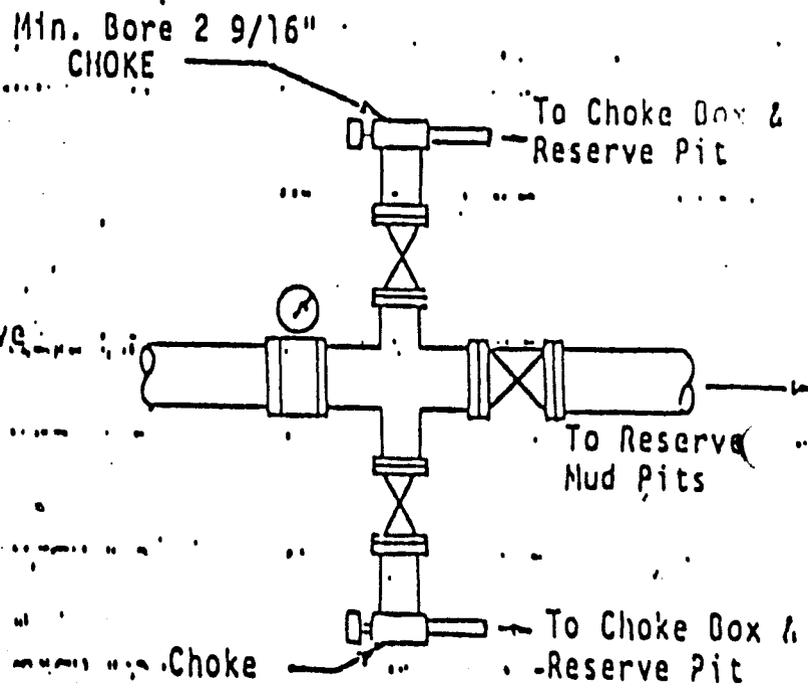
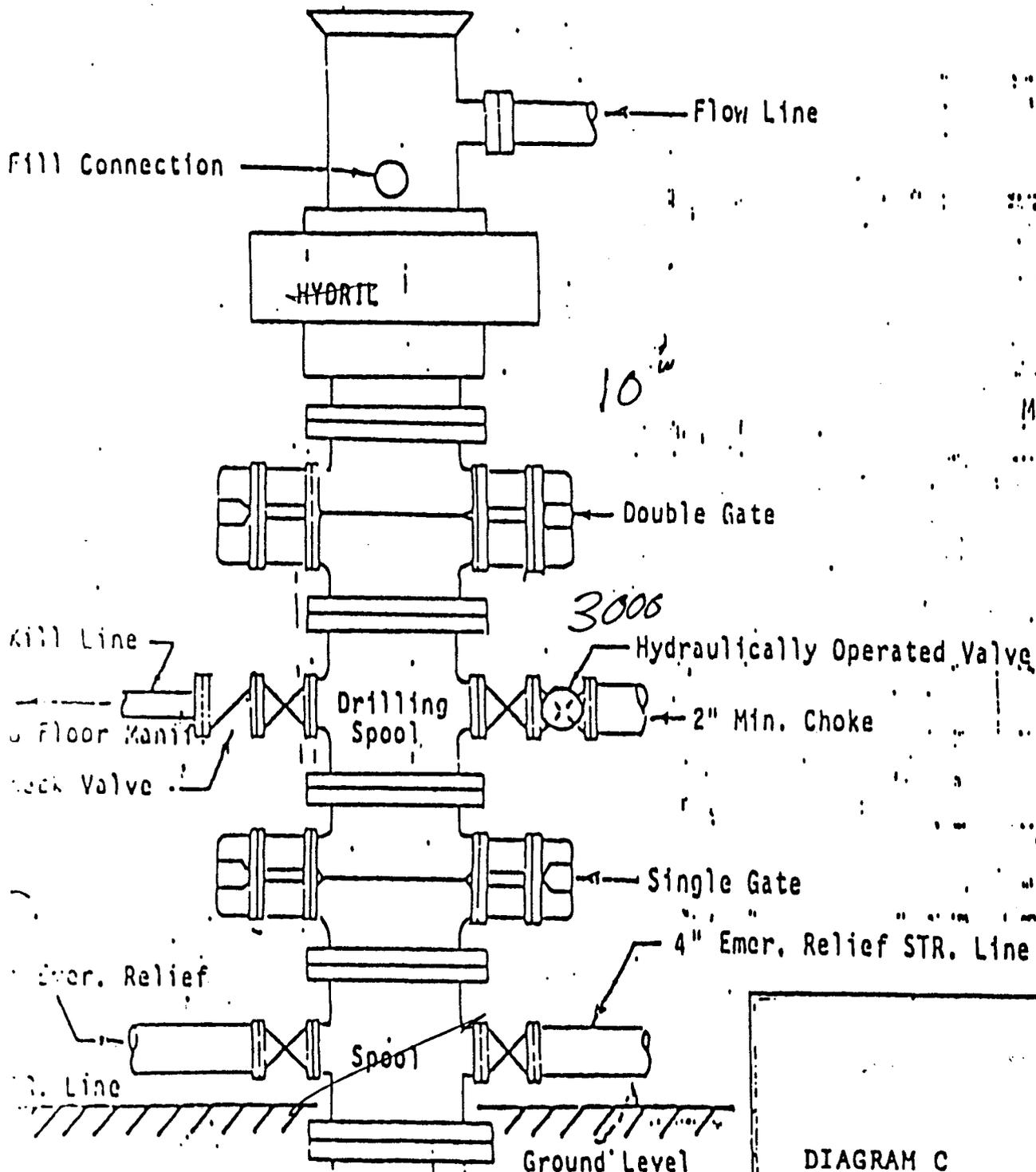
\*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at \_\_\_\_\_ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

\*\*If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed: *Allen J. Jones*



DEL-RIO DRILLING PROGRAMS, INC.  
 Cat Creek 18-1  
 SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 18, T5S-R23E, SLM  
 Uintah County, Utah

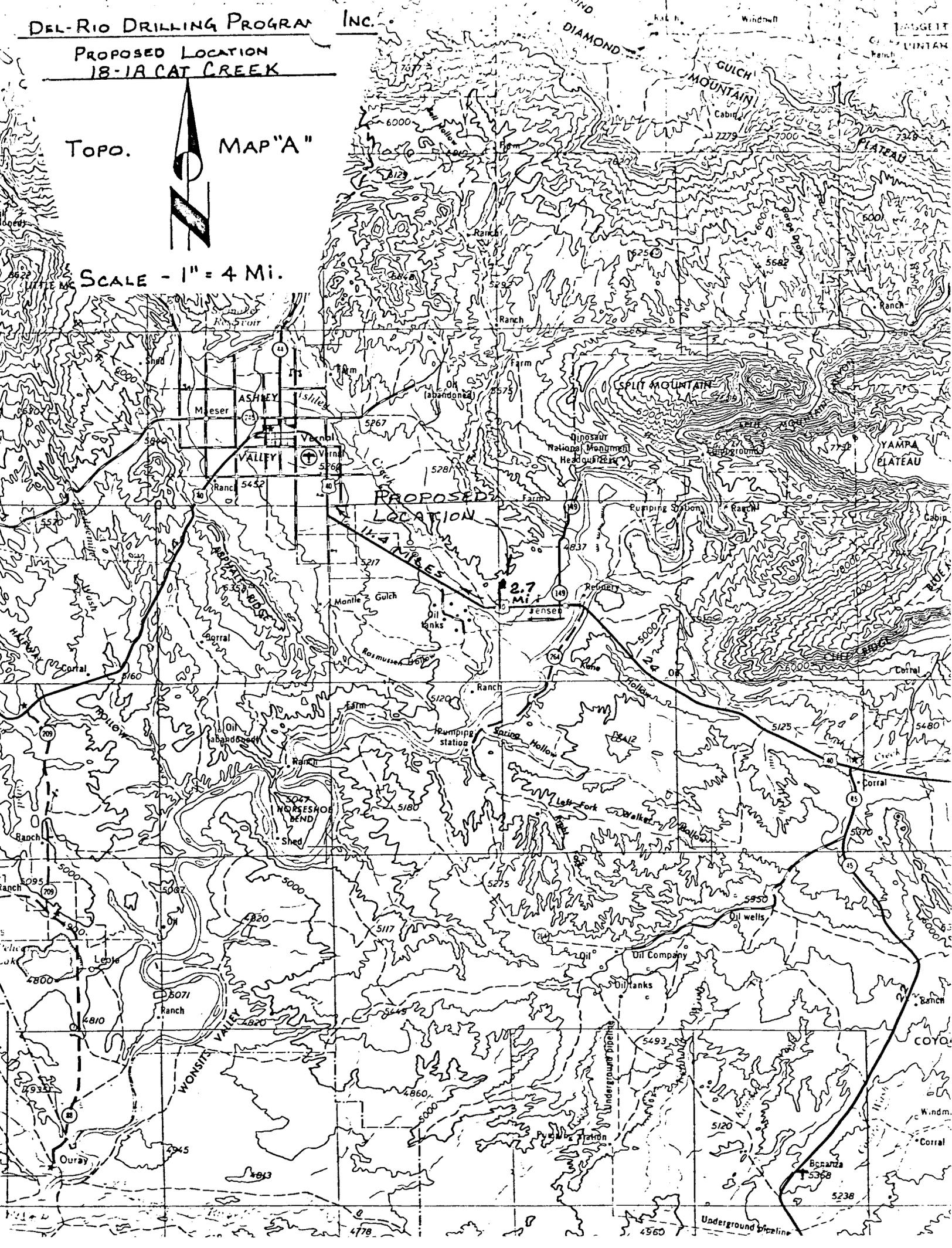
DIAGRAM C

PROPOSED LOCATION  
18-1A CAT CREEK

TOPO. MAP "A"

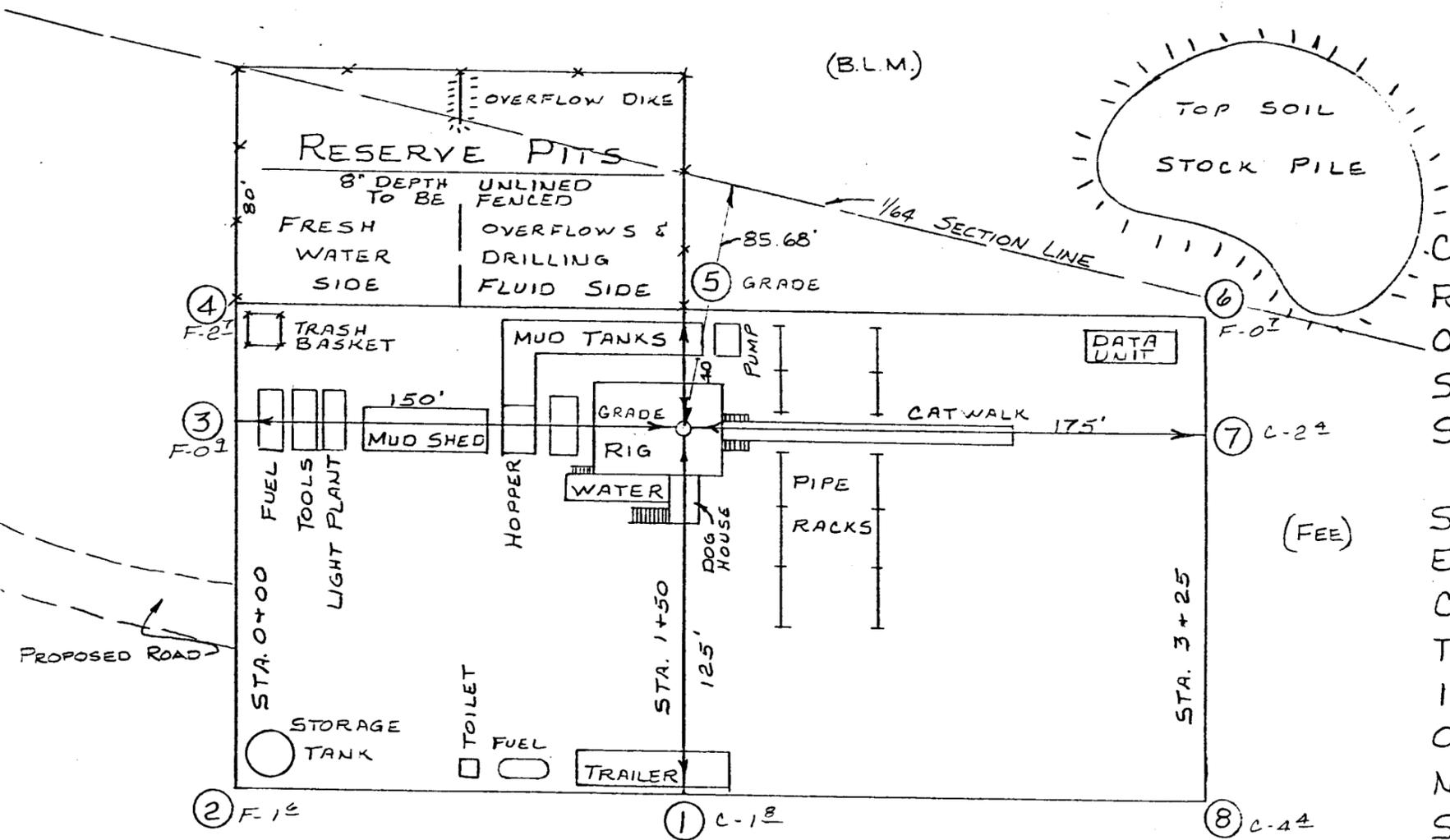


SCALE - 1" = 4 Mi.

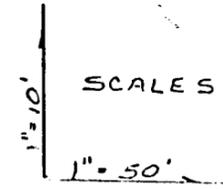
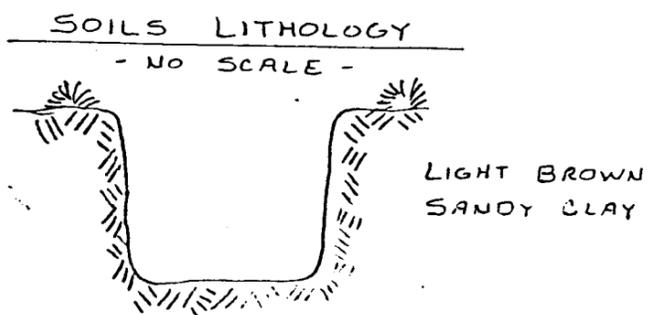
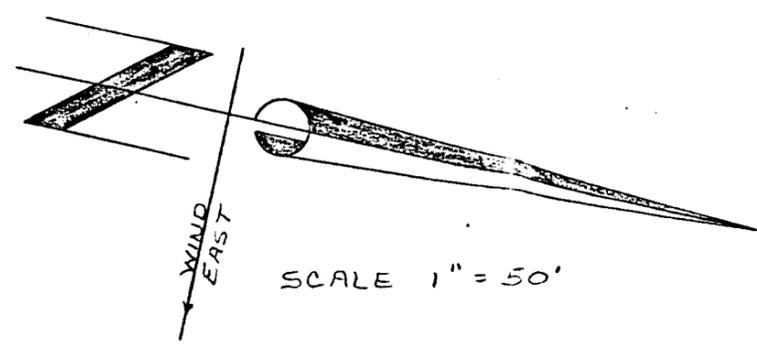
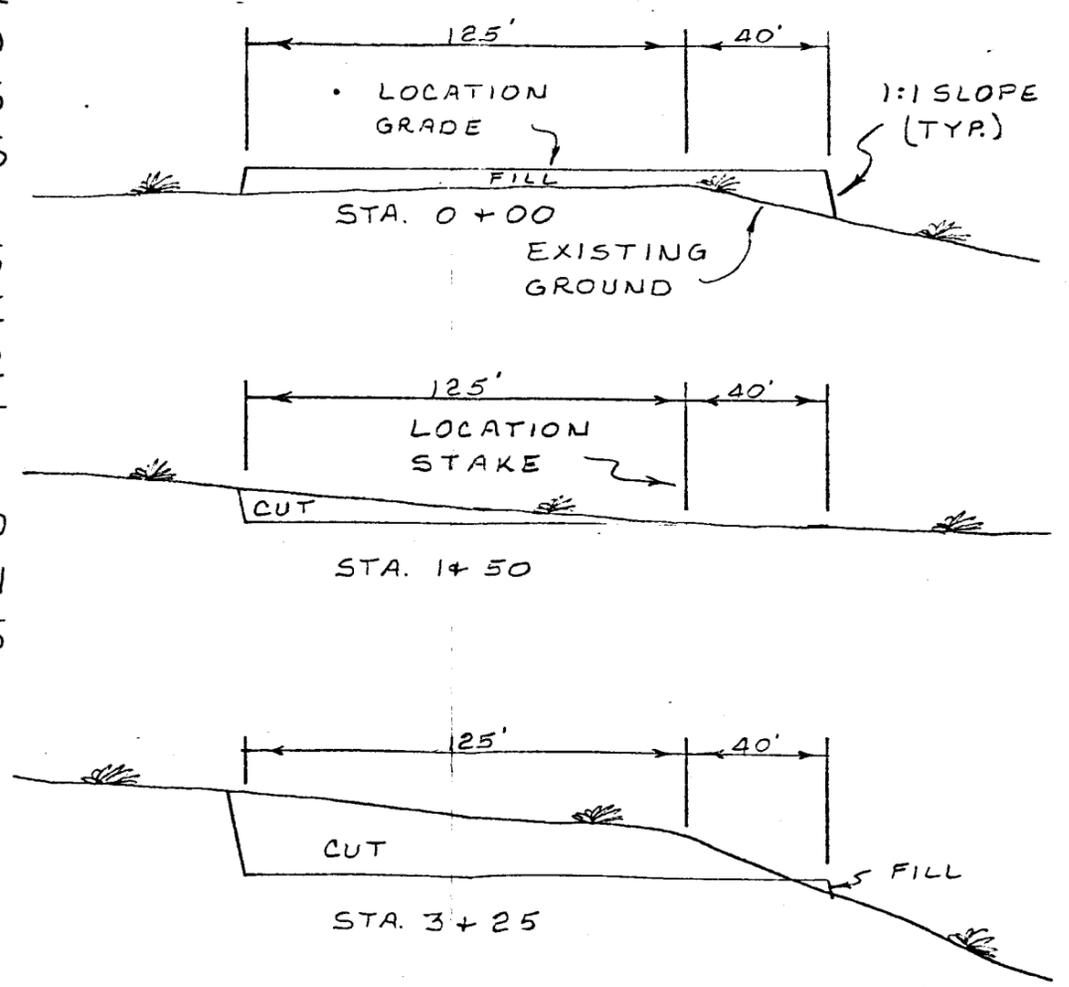


DEL RIO DRILLING PROGRAMS INC.

18-1A CAT CREEK  
LOCATION LAYOUT & CUT SHEET



CROSS SECTIONS



APPROX. YARDAGES

CUT	- 2,212	CU. YDS.
FILL	- 654	CU. YDS.



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

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

Form approved.  
Budget Bureau No. 42-R1424.

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-31461</b>
1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. <b>NAME OF OPERATOR</b> <b>Del-Rio Drilling Programs, Inc.</b>		7. UNIT AGREEMENT NAME
3. <b>ADDRESS OF OPERATOR</b> <b>448 East 400 South Salt Lake City, Utah 84111</b>		8. FARM OR LEASE NAME
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  <b>SW<math>\frac{1}{4}</math>SW<math>\frac{1}{4}</math>-7, (747 FWL &amp; 680 FSL)</b>		9. <b>WELL NO.</b> <b>1-18</b>
14. <b>PERMIT NO.</b> <b>API 43-047-30714</b>		10. <b>FIELD AND POOL, OR WILDCAT</b> <b>Wildcat</b>
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <b>4875, gr. 4888 KB</b>		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <b>Sec. 7 T5S-R23E</b>
12. <b>COUNTY OR PARISH</b> <b>Uintah</b>		13. <b>STATE</b> <b>Utah</b>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

Spud 9-11-1980. Drilled 12 $\frac{1}{4}$ " hole to 325'. Set 319" 8 5/8, 24# ST&C new casing; cemented w/175 sx, circulate to surface. Drilled 7 7/8" hole to 6888 using conventional gel mud. Logged hole with Schlumberger Dual Induction - SFL + Simultaneous Compensated Neutron Formation Density Log. Well was cored 4068-4127, 4127-4168, 4168-4176, 4187-4215, and 6075-6114. 5 $\frac{1}{2}$ ", J-155, 15.5# new casing was set at 6344 and cemented with 840 sx. Ran cement bond log and collar locator. Perforated w/one hole 6200 $\frac{1}{2}$ , one hole 6199 $\frac{1}{2}$ , one hole 6130 and one hole 6123. Swabbed and recovered 80 bbls water. Set bridge plug at 6175 and swabbed. No fluid recovery from holes at 6123 and 6130. Prep to acidize interval 6123 and 6130.

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

SIGNED Robert E. Covington TITLE Consultant DATE 11-4-80  
(This space for Federal or State office use) #1705

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.6

13

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

2. NAME OF OPERATOR

Del-Rio Drilling Programs, Inc.

3. ADDRESS OF OPERATOR

448 E. 400 S. Suite 203  
S.L., 84111 355-8028 <sup>SATILAKE</sup> 355-9028

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

At surface SW 1/4 SW 1/4-18 (747 FWL&680 FSL)

At top prod. interval reported below A/A

At total depth As above

14. PERMIT NO. DATE ISSUED

API 43-047-3071

5. LEASE DESIGNATION AND SERIAL NO.

6-1461

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

Cat Creek 1-18 18-1A

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec.18, T5S-R23E,SLM

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

15. DATE SPUDDED 9-11-80 16. DATE T.D. REACHED 10-20-80 17. DATE COMPL. (Ready to prod.) Shut In 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4888 KB 19. ELEV. CASINGHEAD 4876

20. TOTAL DEPTH, MD & TVD 6880 21. PLUG, BACK T.D., MD & TVD 5923 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 6123-30, 6060-89. 6072-76, 6055-57 25. WAS DIRECTIONAL SURVEY MADE YES 27. WAS WELL CORED YES

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

26. TYPE ELECTRIC AND OTHER LOGS RUN DAUL IND\_SFL, GR\_COMP NEUTRON DENSITY W/CALIPER

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	319	12 1/4	Circ. to surface	none
5 1/2	J-55, 15.5#	634	7 7/8	360 SX	none

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	3138	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6199 1/2, 6200 w/ 1 shot ea. & 6128& 6130 w/ 1 shot ea. Perf 6082 1/2, 84 1/2, 85 1/2		6128-30	500 gal, MSR AUD
87 1/2 w/ 1 shot ea. Perf. 6055 & 6057. Perf. 2 holes @ 3450 & 3360 & squeezed. Perf. 3410 & 3411. CIBP set at 6020'.		6060-69, 72-76	1250 gallon " "
		6060-76	Squeeze at 2000 psi
		6055-57	400 gallon MSP-100

33.\* PRODUCTION 33604 11 3450 Squeezed 3360&3450

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

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

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

35. LIST OF ATTACHMENTS Core Descriptions, Fm. Tops & Well Data

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

SIGNED Russell Caldwell TITLE President DATE 2/16/81

# INSTRUCTIONS

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

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

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

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

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p>See attachments for Formation Tops and Cored intervals and Descriptions.</p>

**38. GEOLOGIC MARKERS**

NAME	MEAS. DEPTH	TOP
		TRUE VERT. DEPTH

WELL DATA

Operator:

Del-Rio Drilling Programs, Inc., Salt Lake City, Utah

Well Name:

Cat Creek 1-18, U.S. Oil & Gas Lease U-31461

Location:

SW $\frac{1}{4}$ SW $\frac{1}{4}$  (747 FWL and 680 FSL)  
Section 18 T5S-R23E, S1M  
Uintah County, Utah

Spud:

September 11, 1980

Complete Drilling:

October 20, 1980

Elevation:

4888 KB, 4875 ground

Status:

Completing as oil well

Total Depth:

6880 driller, 6882 Schlumberger

Hole Specifications:

12 $\frac{1}{4}$ ' to 325, 7 7/8" 325 to 6880

Contractor:

CRC-Colorado Well Service, Rig 66

Company Geologist:

Robert E. Covington, CPG # 1705, Vernal, Utah

Well Site Engineer:

Marion Haughey, Vernal, Utah

Del-Rio Drilling Programs, Inc.  
Cat Creek 1-18  
C-SW-SW-18, T5S-R23E, SLM, Uintah Co., Utah  
El. 4875, gr. 4888 KB

<u>Formation</u>	<u>Depth</u>	<u>Mean Sea</u>
Mancos	Surface	
Frontier ss	768	4120
Mowry	862	4026
Dakota	1120	3768
Morrison	1190	3698
Curtis	2000	2888
Entrada	2135	2753
Carmel	2370	2518
Navajo	2480	2408
Chinle	3280	1608
Shinarump	3408	1480
Moenkopi	3430	1458
Phosphoria	4050	838
Weber	4200	688
Morgan	4750	138
Hell's Canyon	5585	- 697
Round Valley	5790	- 902
Humbug	6055 ✓	- 1167
Deseret	6210	- 1322
Madison	6350	- 1462

Tool Pusher:

Harry Keeser

Casing:

8 5/8", 24# ST&C, surface to 319, circulated to surface, 175 sx  
5 1/2", J-55, 15.5# set at 6344', cemented with 360 sx

Maximum Bottom Hole Temp:

131° F.

Mud Company:

Western Mud Co., Vernal, Utah, ✓ Creg Wilkins, Engineer

Mud Logging Company:

Melton Enterprises, Vernal, Utah, ✓ Doug Rolfe and Joseph Miller

Logging:

Schlumberger Well Logging Service Company, Vernal, Utah  
Logs: Dual Induction-SFL, 318-6876', (2"=100' & 5"=100')  
Simultaneous Compensated Neutron Fm.Density w/caliper  
(319-6837, 5"=100'), Cyberlook 3400-6850

Date of Report:

October 30, 1980

Other Services:

Halliburton Company, Vernal, Utah, cementing production string  
Martin Water Service, Vernal, Utah

Shows of Oil and Gas

Shinarump:  
3408-3430  
(22')

Reference:  
Schlumberger Cyberlook, Porosity: 26%  
Water Saturation: 60-65%

Analysis:  
Fresh water reservoir with oil, black.  
Zone will probably produce large amounts of  
water with 10-15% oil cut. Sandstone,  
clear-white, medium coarse grained,  
unconsolidated.

Phosphoria: ✓  
4118-4126  
4156-4168  
4168-4217

Microscopic examination and mud log shows  
of black-brown oil in vugs, with some  
pinpoint porosity and with fracture  
porosity with black oil staining.

Interval 4206-4217 was sandstone, white,  
quartzitic, slightly calcareous, tight  
with slight distillate odor.

Limestone and dolomite shows were low  
in porosity and were deemed non-commercial.

✓ Humburg: ✓  
6056-6086  
6126-6144  
6195-6202

Sandstone, white to clear, light to fark  
brown oil stain, calcareous. White,  
streaming cut, dull gold to yellow  
fluorescence.

Analysis:  
Potential oil zone. Set pipe and will  
attempt completion in this zone.

Cat Creek 18-1A

- 12-6-80 PU Grayco bladed mill & casing scrapper - TIH to 3318' tag retainer - RU power swivel & drill retainer - pushed down hole 30' - mill would not drill below 3448 - Pressured up on perfs to 1500 psi - 100 psi loss in 5 min. TOOH. SIFWE @ 5 PM.
- 12-7-80 SI - Sunday
- 12-8-80 RU McCullough to cmt bond log - unable to make panels in truck operate - RD McCullough RU Go International found fair cmt bond from 3447' to 3428' good cmt bond from 3418-3404 & good cmt bond from 3335-3322 - perf 1 hole @ 3410 & 1 hole @ 3411 w/4" csg gun. SIFN @ 5 PM.
- 12-9-80 TIH & set pkr @ 3396' swabbed 75 bbls wtr. SIFN @ 5 PM.
- 12-10-80 fluid at surface - swabbed to bottom - 3396' - appear to have slight amount of gas during swab pulls - recovered 75 BW gas too wet to burn.
- 12-11-80 Fluid at surface- flowing 1" stream, swabbed fluid level to bottom. No indication of gas or oil- lost swab and sinker bars, pulled tubing, dropped 7 joints tubing. Tripped in with tubing and screwed into fish. SIFN @ 5 PM.
- 12-12-80 Tripped into hole set packer at 3396' swabbed water. Recovered 300 barrels of fresh water. SIFN @ 5 PM.
- 12-13-80 Tripped out with tubing and packer. Lay down 100 joints of 2 7/8" tubing and removed and released Baker retrieve-a-matic packer. TIH with 100 joints, 3138' tubing. Rigdown BOP's , installed well head. SI @ 2PM.
- 12-14-80 SI Sunday
- 12-15-80 Rig down move of site, fence pits, clean up location. Haul 100 joints 2 7/8" tubing to Hiko Bell Yard
- Well SI for further evaluation.

CORE DESCRIPTIONS

Core number one - cored 4068-4127 feet. Cored 59 feet, full recovery.

- 4068-4069 Shale, brick-red, dolomitic, dense, grading into siltstone, dolomitic.
- 4069-4070 Dolomite, brick-red, silty to shaley, very dense.
- 4070-4084 Shale, brick-red, slightly calcareous, dense, in part finely silty, finely micaceous.
- 4084-4085 Limestone, light gray, finely crystalline to surcrosic, finely biotitic.
- 4085-4092 Shale, as above, dolomitic.
- 4092-4096 Limestone, light gray, finely crystalline to surcrosic, hard, tite, with laminated red shale. Dips appear flat. Limestone becomes very dense, 92.5-93.0. Limestone, light gray, biotitic, dense to crystalline, tite with interbedded red shale. Shale, red, siltstone, slightly calcareous, dense.
- 4096-4097 Limestone, light gray, finely crystalline, biotitic.
- 4097-4105 Shale, silty, dolomitic, dense.
- 4105-4118 Limestone, light gray, surcrosic, tite.
- 4118-4120 Limestone, as above, with thin, laminated finely streaks with black dead oil patches with no fluorescence but fast cut with yellow ring.
- 4120-4127 Limestone, light gray, dense, dolomitic.

CORE DESCRIPTIONS

Core number two - cored 4127-4168 feet. Cored 41 feet, full recovery.

- 4127-4130 Limestone, white, dense with finely sandy patchy zones with live brown oil stain with slight odor to fair odor.
- 4130-4152 Dolomite, medium gray, dense.
- 4152-4156 Dolomite, gray-green, dense to finely surcrosic.
- 4156-4167 Limestone, dark brown, finely crystalline, with sandy patches, laminated in part with pinpoint vugular porosity with black to brown oil in porous zones and with black oil stain. Gassy odor on core with pale yellow-green flourescence. Black oil has gas and oil odor but no fluorescence but gives instantaneous yellow cut.
- 4167-4168 Limestone, medium green, crystalline, brecciated, with live brown oil on fracture planes and in vuggy and pinpoint porosity. Bottom 3" is green, waxy shale with thin sandy streaks with brown oil in streaks.

CORE DESCRIPTIONS

Core number three - cored 4168-4176.7 feet. 8 feet 9", recovered 8.4 feet.

- 4168-4169 Limestone, light gray-white, finely surcrosic, pyritic, with patchy brown oil stain in sandy zones.
- 4169-4172 Limestone, light green and white, with sandy patches with light brown oil stain with vuggy, spaces voids.
- 4172-4173 Limestone, light gray, dense to finely crystalline, with clusters of pyrite.
- 4173-4174 Limestone, light green, shaley to crystalline, finely pyritic.
- 4174-4175 Shale, medium green, waxy.
- 4175-4177 Limestone, light green, shaley to crystalline, finely pyritic.

CORE DESCRIPTIONS

Core number four - cored 4187-4215, recovered 20 feet, lost 8 feet, probably 4188-4195.

- |           |   |
|-----------|---|
| 4187-4188 | Limestone, light gray, dense, shaley to surcrosic, finely pritic.   |
| 4188-4195 | Lost core.  |
| 4195-4196 | Shale, dark brown-black, siliceous.   |
| 4196-4197 | Limestone, light gray, dense, shaley in part pyritic with some clear, white crystals.   |
| 4197-4198 | Limestone, light gray-green, finely crystalline, finely pyritic.  |
| 4198-4199 | Limestone, as above, becoming increasingly shaley.  |
| 4199-4200 | Limestone, white and light gray, crystalline to coarsely crystalline, pyritic.  |
| 4200-4201 | Limestone, as above, with large, rounded clear quartz crystals.   |
| 4201-4202 | Sandstone, white, calcareous, fine grained, tite, with porosity in patchy zones with brown oil staining with yellow fluorescence giving brown and white mottled appearance. |
| 4202-4203 | Limestone, white, dense, finely sandy, tite.  |
| 4203-4204 | Sandstone, white, fine grained, surcrosic, tite, very calcareous, well sorted, clear.   |
| 4204-4205 | Sandstone, white, fine grained, hard, tite, sharp, slight gassy odor, calcareous.   |
| 4205-4206 | Sandstone, as above and limestone, dark gray, surcrosic, pyritic, hard, tite.   |
| 4206-4207 | Sandstone, fine to coarse grained, white, quartzic, hard, tite, calcareous with sub-rounded to round grains with some dark gray grains.                                     |
| 4207-4208 | Dolomite, dark gray, coarse to finely sandy, finely pyritic, tite, with some white dolomitic fine grained, tite, sandstone.   |
| 4208-4210 | Sandstone, white, fine to medium grained, hard, tite, calcareous, quartzic, light gassy odor.   |
| 4210-4211 | Sandstone, white and dark gray, mottled, fine grained, hard, tite, finely pyritic. Dark gray patches are dolomitic to shaley. Light gassy odor.                             |

Core number four cont'd.

4211-4215 Sandstone, white, quartzic, slightly calcareous,  
tite, slight distallite odor. Sandstone is very  
fine grained, sharp.

## CORE DESCRIPTIONS

Core number five - cored 6075-6114. Cored 39 feet, recovered.

- 6075-6087 Sandstone, fine to medium grained, tan, light gassy odor, fine, calcareous, grading into sandy limestone. Contact zones with black shale, shale streaks with interbedded black shale zones. Sandstone has pyritic zones. Sandstone, has sub-rounded to sub-angular frosted grains. Sandstone has yellow fluorescence with fast, milky blue cut. Some porosity.
- 6087-6089 Limestone, gray, dense, with few sandy patches with brown oil stain with cut and fluorescence, as above, finely pyritic.
- 6089-6092 Shale, green, waxy, laminated.
- 6092-6097 Limestone, light gray, dense with few thin shale streaks, in part gray-white, coarsely sandy.
- 6097-6099 Limestone, very fine grained with shale stringers, gray-green, waxy.
- 6099-6099.5 Shale, light gray, soft.
- 6099.5-6102 Limestone, light gray, dense.
- 6102-6104 Shale, medium to dark gray, waxy.
- 6104-6105 Shale, varicolored, mottled gray-green.
- 6105-6107 Shale, gray-brown, waxy.
- 6107-6111 Limestone, medium gray, shaley with carbonaceous streaks with calcite 6108.9, limestone is in part very fine grained.
- 6111-6113 Shale, gray-green with some red mottled shale.
- 6113-6114 Limestone, light gray, shaley, with green shale inclusions.

CORE ANALYSIS RESULT FOR

DEL-RIO DRILLING PROGRAMS

CAT CREEK NO. 1-18

WILDCAT

UINTAH COUNTY, UTAH

DEL-RIO DRILLING PROGRAMS  
CAT CREEK NO 1-18  
WILDCAT  
JUNTAH COUNTY

FORMATION : PHOSPHORIA  
DRLG. FLUID: WATER BASE MUD  
LOCATION : SW SW SEC 18-T5S-R23E  
STATE : UTAH

DATE : 9-28-80  
FILE NO. : RP-2-6290  
ANALYSTS : HN-CN  
ELEVATION: 4875' GND

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ. VERTICAL	POR. FLD.	FLUID SATS. OIL WATER	GR. DNS.	DESCRIPTION
	4068-4117					NO ANALYSIS - SHALE
1	4117-18	<0.01	2.9	25.9 59.2		SS TAN-BUFF VFG
2	4118-19	<0.01	2.8	45.9 38.2		SS TAN-BUFF VFG
3	4119-20	<0.01	2.6	0.0 75.4		SS TAN-BUFF VFG
4	4120-21	<0.01	5.8	0.0 38.1		SS TAN-BUFF VFG
5	4121-22	<0.01	3.1	0.0 53.5		SS TAN-BUFF VFG
6	4122-23	<0.01	2.4	0.0 68.1		SS TAN-BUFF VFG
7	4123-24	<0.01	3.1	0.0 57.3		SS TAN-BUFF VFG
8	4124-25	<0.01	2.1	0.0 54.7		SS TAN-BUFF VFG
9	4125-26	<0.01	2.4	0.0 73.7		SS TAN-BUFF VFG
10	4126-27	<0.01	2.3	0.0 78.6		SS TAN-BUFF VFG
11	4127-28	<0.01	3.3	23.4 53.5		SS TAN-BUFF VFG
12	4128-29	<0.01	3.9	43.8 49.2		SS TAN-BUFF VFG
13	4129-30	<0.01	2.7	19.6 62.8		SS TAN-BUFF VFG
	4130-4156					NO ANALYSIS - DENSE LIME & SHALE
14	4156-57	<0.01	3.5	15.6 62.2		DOLOMITE TAN-BUFF VFX PYRITE
15	4157-58	<0.01	2.4	0.0 82.3		DOLOMITE LT GRAY VFX PYRITE
16	4158-59	<0.01	2.5	0.0 76.0		SS LT GRAY VFG PYRITE
17	4159-60	<0.01	2.1	0.0 70.3		SS LT GRAY VFG PYRITE
18	4160-61	<0.01	2.3	0.0 73.7		SS LT GRAY VFG
19	4161-62	<0.01	2.1	0.0 72.3		SS LT GRAY VFG
20	4162-63	<0.01	2.2	4.8 67.0		SS LT GRAY VFG
21	4163-64	<0.01	3.4	58.0 18.3		SS LT GRAY VFG
22	4164-65	<0.01	2.9	3.7 59.7		SS LT GRAY VFG
23	4165-66	17	4.1	47.5 20.0		DOLOMITE LT GRAY VFX SANDY

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

DEL-RIO DRILLING PROGRAMS  
CAT CREEK NO 1-18  
WILDCAT  
UINTAH COUNTY

FORMATION : PHOSPHORIA  
DRLG. FLUID: WATER BASE MUD  
LOCATION : SW SW SEC 18-T5S-R23E  
STATE : UTAH

DATE : 9-28-80  
FILE NO. : RP-2-6290  
ANALYSTS : BN-CN  
ELEVATION: 4875' GND

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO HORZ.	AIR (MD) VERTICAL	POR. FLD.	FLUID OIL	SATS. WATER	GR. DNS.	DESCRIPTION
24	4166-67	F 0.16		2.8	26.3	52.6		DOLOMITE LT GRAY VFX ARG
25	4167-68	F 0.11		2.8	0.0	67.0		DOLO LT GRAY VFX SILT/CLAY PYR
26	4168-69	F 0.16		2.7	0.0	79.8		DOLO LT GRAY VFX SILT/CLAY PYR
27	4169-70		0.01	5.4	55.4	35.6		DOLO LT GRAY VFX SILT/CLAY PYR
28	4170-71		<0.01	3.1	0.0	81.9		DOLO LT GRAY VFX SILT/CLAY PYR
29	4171-72		<0.01	5.0	0.0	87.4		DOLO LT GRAY VFX SILT/CLAY PYR
30	4172-73		<0.01	2.1	0.0	81.9		DOLO LT GRAY VFX SILT/CLAY PYR
31	4173-74	F 0.07		4.5	0.0	68.4		DOLO LT GRAY VFX SILT/CLAY
32	4174-75		<0.01	4.5	0.0	82.9		DOLO LT GRAY VFX SILT/CLAY
33	4175-76	F 0.01		2.0	0.0	85.9		DOLO LT GRAY VFX SILT/CLAY
34	4176-77	F 0.01		9.7	0.0	82.0		SILTSTONE LT GRAY VFG CLAY DOLO
	4177-4187							DRILLED
35	4187-88		0.01	6.2	0.0	69.4		SILTSTONE LT GRAY VFG
	4188-4196							LOST CORE
36	4196-97		<0.01	6.2	0.0	85.5		SILTSTONE LT GRAY VFG
37	4197-98		<0.01	1.3	0.0	66.8		SS TAN-LT GRAY VFG
38	4198-99		<0.01	1.9	0.0	45.6		SS TAN-LT GRAY VFG
39	4199 -0		<0.01	2.1	0.0	42.1		SS TAN-LT GRAY VFG
40	4200 -1		<0.01	1.8	0.0	47.8		SS TAN-LT GRAY VFG
41	4201 -2		<0.01	1.6	0.0	68.3		SS TAN-LT GRAY VFG
42	4202 -3		0.01	2.1	0.0	49.1		SS TAN-LT GRAY VFG
43	4203 -4		28	16.8	0.0	63.9		SS TAN-LT GRAY VFG
44	4204 -5		19	17.9	0.0	60.3		SS TAN-LT GRAY VFG
45	4205 -6		2.3	15.2	0.0	60.7		SS TAN-LT GRAY VFG
46	4206 -7	F 187		13.7	0.0	56.5		SS TAN-LT GRAY VFG

F = Fractured Plug

DEL-RIO DRILLING PROGRAMS  
 CAT CREEK NO 1-18  
 WILDCAT  
 UINTAH COUNTY

FORMATION : PHOSPHORIA  
 DRLG. FLUID: WATER BASE MUD  
 LOCATION : SW 54 SEC 18-T5S-R23E  
 STATE : UTAH

DATE : 9-28-80  
 FILE NO. : RP-2-6290  
 ANALYSTS : BN-CW  
 ELEVATION: 4875' GND

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD)		POR. FLD.	FLUID SATS.		GR. DNS.	DESCRIPTION
		HORZ.	VERTICAL		OIL	WATER		
47	4207 -8	36		12.8	0.0	66.3		SAND WHITE VFG
48	4208 -9	83		14.6	0.0	62.6		SAND WHITE VFG
49	4209-10	10		13.9	0.0	67.3		SAND WHITE VFG
50	4210-11	30		15.9	0.0	75.2		SAND WHITE VFG
51	4211-12	2.5		9.9	0.0	49.4		SAND WHITE VFG
52	4212-13	31		14.5	0.0	65.9		SAND WHITE VFG
53	4213-14	60		13.6	0.0	77.2		SAND WHITE VFG
54	4214-15	13		13.8	0.0	67.0		SAND WHITE VFG

DEL-RIO DRILLING PROGRAMS  
 CAT CREEK NO 1-18  
 WILDCAT  
 JINTAH COUNTY

FORMATION : MANNING CANYON  
 DRLG. FLUID: WATER BASE MJD  
 LOCATION : SW SW SEC 18-T55-R23E  
 STATE : JTAH

DATE : 10-11-80  
 FILE NO. : RP-2-6290  
 ANALYSTS : BN-C#-CE-FD  
 ELEVATION: 4875' GND

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD)		POR. FLD.	FLUID SATS.		GR. DNS.	DESCRIPTION
		HORZ.	VERTICAL		OIL	WATER		
55	6076-77	56		7.7	0.0	22.6		SD GRAY FG
56	6077-78	60		15.7	1.2	55.0		SD GRAY FG
57	6078-79	1.0		10.4	4.6	23.9		SD GRAY FG
58	6079-80	19		8.6	8.1	46.4		SD GRAY FG
59	6080-81	31		13.2	6.7	65.2		SD GRAY FG
60	6081-82	0.25		10.1	8.8	62.3		SD GRAY FG
61	6082-83	2.1		6.3	14.8	23.0		SD GRAY FG
62	6083-84	28		10.0	6.9	33.4		SD GRAY FG
63	6084-85	7.3		6.8	10.3	26.5		SD GRAY FG
64	6085-86	0.08		5.2	13.7	31.2		SD GRAY FG
65	6086-87	7.5		9.1	7.5	17.1		SD GRAY FG
66	6087-88	21		4.3	11.9	42.9		SD GRAY FG
67	6088-89	2.8		1.4	0.0	44.8		SD GRAY FG

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

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

COMPANY DEL-RIO DRILLING PROGRAMS, INC. FIELD WILDCAT

FILE RP-2-6290

WELL CAT CREEK NO 1-18 COUNTY UTAH

DATE 9-28-80

LOCATION SW SW SEC 18-T58-R23E STATE UTAH

ELEV. 4875' GND

# CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

## CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

RADIATION INCREASE



## COREGRAPH

TOTAL WATER

PERCENT TOTAL WATER  
80 60 40 20

PERMEABILITY

MILLIDARCY

100 50 10 5 1

POROSITY

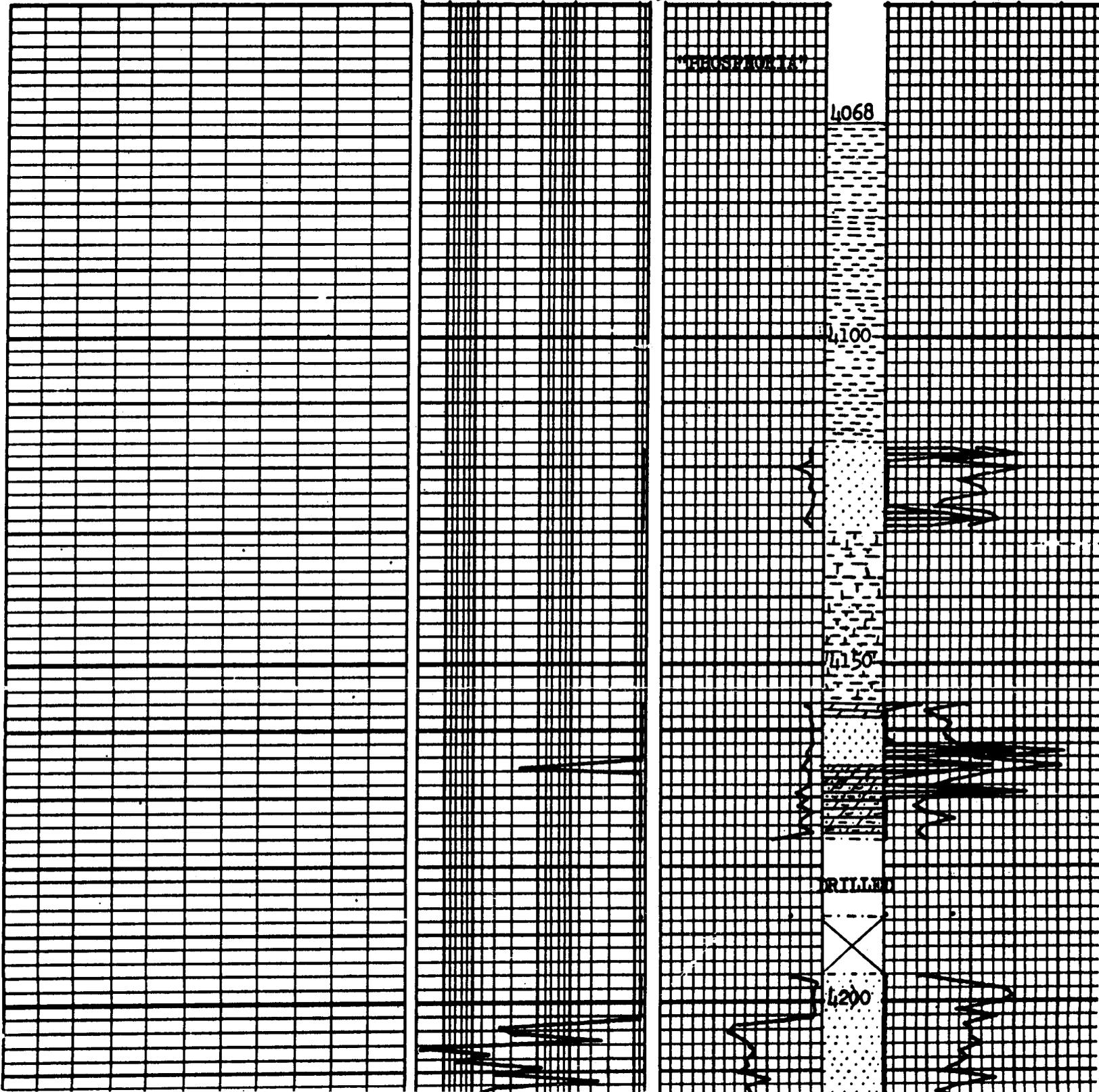
PERCENT

30 20 10 0

OIL SATURATION

PERCENT PORE SPACE

0 20 40 60 80



MANNING  
CANYON

6076

6089

CL-539

**CORE SUMMARY AND CALCULATED RECOVERABLE OIL**

**FORMATION NAME AND DEPTH INTERVAL: Manning Canyon - 6076.0-6089.0 Feet**

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	13	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	38.0
FEET OF CORE INCLUDED IN AVERAGES	13	AVERAGE BONNATE WATER SATURATION: PER CENT OF PORE SPACE	35 (e)
AVERAGE PERMEABILITY: MILLIDARQYS	18.2	OIL GRAVITY: °API	38 (e)
PRODUCTIVE CAPACITY: MILLIDAREY-FeET	236.0	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	8.4	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.25 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	7.3	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	339

Calculated maximum solution gas drive recovery is \_\_\_\_\_ barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is \_\_\_\_\_ barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

(c) Calculated (e) Estimated (m) Measured (\*) Refer to attached letter.

**INTERPRETATION OF DATA**

- 4117.0-4130.0 Feet - Non productive due to low permeability.
- 4156.0-4177.0 Feet - Essentially non productive due to low permeability.
- 4196.0-4203.0 Feet - Non productive due to low permeability.
- 4203.0-4215.0 Feet - Essentially water productive.
- 6076.0-6089.0 Feet - Appears to be oil productive. A water cut is expected to accompany production. A formation treatment will be needed.

*These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.*

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

**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  
Del-Rio Drilling Programs, Inc.

3. ADDRESS OF OPERATOR  
448 East 400 South, Salt Lake City, Utah 84111

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: SW1/4 SW1/4 Sec.18  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: (747 FWL & 689 FSL)

5. LEASE  
U-31461

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.  
Cat Creek 1-18

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec.18, T5S-R23E

12. COUNTY OR PARISH | 13. STATE

14. API NO.  
API 43-047-30712

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4875 gr. 4888 KB

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 checked="" 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)			

(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.)\*

Perforated 2 squeeze holes at 3450. Tripped in hole with packer at 3300. Could not circulate to surface. Perforated 2 holes at 3360. Cemented perfs at 3450. Ran Go Intl. Cement bond log- good bond 3418-3404 & 3335-3322. Perf 1 hole 3410 & 1 hole 3411. Swabbed fresh water. Tubing is landed at 3138. Riggd down BOP'S installed well head and released rig. Waiting on evaluation of engineering and geological data.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct  
SIGNED Lawrence C Caldwell TITLE President DATE 2/16/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
MAXILIAN A. FARBMAN  
EDWARD T. BECK  
E. STEELE McINTYRE

April 27, 1981

*Del-Rio Drilling Programs  
448 East 4th So.  
Suite 203  
Salt Lake City, Utah 84111*

Re: Well No. Cat Creek #18-1A  
Sec. 18, T. 5S. R. 23E.  
Uintah County, Utah  
(October 1980- April 1981)

Re: Well No. Flat rock #30-2A  
Sec. 30, T. 14S. R. 20E.  
Uintah County, Utah  
(November 1980- April 1981)

Gentlemen:

*Our records indicate that you have not filed the Monthly drilling reports for the months indicated above on the subject wells.*

*Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This Report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.*

*Your prompt attention to the above will be greatly appreciated.*

*Very truly yours,*

DIVISION OF OIL, GAS, AND MINING

*Sandy Bates*  
SANDY BATES  
CLERK-TYPIST

July 6, 1981

Del-Rio Drilling Programs, Inc.  
448 East 400 South, Suite 203  
Salt Lake City, Utah 84111

Re: Well No. Cat Creek 1-18(A)  
Sec. 18, T. 5S, R. 23E  
Uintah County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office 2-16-81, from above referred to well indicates the following electric logs were run: Dual Ind-SFL, Gr-Comp Neutron Density W/ Caliper. 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.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Sandy Bates  
Clerk-Typist

/lm

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER DRY HOLE		5. LEASE DESIGNATION AND SERIAL NO. U-31461
2. NAME OF OPERATOR DEL RIO DRILLING PROGRAMS		6. IF INDIAN ALLOTTEE OR TRIBE NAME <b>031633</b>
3. ADDRESS OF OPERATOR P.O. BOX 1845, VERNAL, UTAH, 84078		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* Sec also space 17 below.) At surface 747 FWL & 680 FSL SEC.18 (SW $\frac{1}{4}$ SW $\frac{1}{4}$ )		8. FARM OR LEASE NAME
14. PERMIT NO. 43-047-30714		9. WELL NO. 18-1A
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4875' GR., 4888' KB		10. FIELD AND POOL, OR WILDCAT WILDCAT
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA SEC. 18, T5S-R23E, S1M
		12. COUNTY OR PARISH UINTAH
		13. STATE UTAH

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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

Prior work done on this well is included in the accompanying Sundry Notices dated 11-4-80 and 12-29-80. Completion data is included in the attached Daily Completion Reports. Hole is cased with 319' of 8 5/8" casing cemented with 175 sx. Drilled 7 7/8" hole to T.D. 6888' and set at 6344' and cemented with 840 sx. All perforations below 6057 were cement squeezed. Two perfs at 6055 and 6057' were not squeezed but Cast Iron bridge plug was set above them at 5(23 ft. with 5 sx cement on top BP. Pressure tested ok. Above BP two holes were perf'd at 3410 & 3411'. Propose to set Cast Iron Bridge Plug at 3430' and fill hle with cement, circulating cement to surface. Propose to set dry hole marker, clean location and reseed as per Rehabilitation Schedule submitted to your office between Verlin & Lewis Vincent and Hiko Bell Mining & Oil Company, and subsequently assigned to Del Rio Drilling Programs, Inc.

**RECEIVED**  
MAR 10 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Robert E. Swainston

TITLE SECRETARY-TREASURER

DATE 3-4-87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

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

Federal approval of this action  
is required before commencing  
operations.

\*See Instructions on Reverse Side

DATE 3-12-87

BY John R. Day

COMPANY: DEL-RIO

UT ACCOUNT # 10330 SUSPENSE DATE: July 11, 1988

*Suspense*

*July 11, 1988*

WELL NAME: CAT CREEK #18-1A

API #: 43 047 30714

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: LINDA CONDE

~~STEVE MARTENS~~

SEC, TWP, RNG: 18 55 23E

CONTACT TELEPHONE NO.: ~~277-5934~~

~~531-9671~~

SUBJECT: STATUS OF WELL?

*is reported thru 12-86*

*4 FEB 88*

*NO REPORTS SINCE.*

*10-14-88*

*ULC-DOG M*

*LARRY CALDWELL  
538-0369*

*LARRY WILL  
CHECK AROUND  
& CALL BACK.  
2-22-88 8:30*

(Use attachments if necessary)

RESULTS: 3-7-88 8:35 NO ANSWER

4-12-88 1:00 LARRY SAID I NEED TO TALK TO STEVE MARTENS. I TOLD LARRY THAT STEVE REFERRED ME TO HIM, STEVE IS OUT OF TOWN TIL FRIDAY. LARRY WILL GET WITH HIM & GET BACK WITH ME ON MONDAY. UC

(Use attachments if necessary)

CONTACTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

status changes.

- 43-047 ✓ 15102 from SWW to PA 4/80 qg, ed 13-<sup>20</sup>~~25~~-05 #2 Bylesby.  
-22-48  
Status Supply  
no file  
✓ 20448 from WSW to PA. 2/87 6-25-36 Rogan et al #1  
~~10509 from WSW to PA 10/86 7-23-9 Pearl Producers #3.~~  
led in Prod ✓ 30579. from TA to PA 9/86 8-21-33 Duncan Ed #33 #8  
✓ 30714 from SOW to WSW 4/80 5-23-18 Cat Creek 18-1A.  
✓ 15375 from SOW to WSW 11/86 10-21-16 Uintah Unit #1  
✓ 15376 from PA to WSW 12/86 10-21-23. Uintah Unit #4  
✓ 15275 from POW to WSW 10/86 7-23-26. RWU 16S.  
✓ 31473 from PA to SOW 8-18-26 Parrett Ed 16-26

from Carol Kubly 5 Oct 87  
789-1388

12-11-87

JOHN - HERE ARE THE FILES FOR THE ABOVE LIST FROM CAROL.

CAN I USE THIS LIST TO CHANGE THE STATUS OR SHD WE REQUEST ADD'L INFO FROM THE OPERATORS?

PLEASE ADVISE!

Vicky C

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original copy to:  
~~See Below~~  
(Location) Sec \_\_\_ Twp \_\_\_ Rng \_\_\_  
(API No.) \_\_\_\_\_

Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

Other  
VLC  
Del Rio Prod. File

1. Date of Phone Call: 9-26-89 Time: 10:00 Am

2. DOGM Employee (name) Don Staley (Initiated Call   
Talked to:

Name Linda Conde (Initiated Call  - Phone No. ( ) 722-9267  
of (Company/Organization) Bar mesa Resources (<sup>Linda</sup> formerly ~~with~~ Del Rio)

3. Topic of Conversation: Missing Prod. Reports 1987-89

4. Highlights of Conversation: Linda has not <sup>worked for or</sup> prepared prod. reports for Del Rio for several years (we still print her name on Del Rio's reports as the contact person). She said the wells were operated by Larry Caldwell and Steve Martens (sic) - owners of Del Rio. She thinks Steve Martens is still in Salt Lake City. She said Del Rio filed for bankruptcy several years ago, but the court threw it out.

I will have TAS check with BLM to find out who they show as operator, if they have an address, and if anyone has sent in reports recently. DTS

Well Files: Cat Creek 18-1A (43-047-30714) 18-55-23 E  
FLAT ROCK 30-2 (43-047-15764) 30-145-20 E  
FLAT ROCK 30-2A (43-047-30641) 30-145-20 E  
OIL CANYON 29-1A (43-047-30981) 29-145-20 E

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: <input checked="" type="checkbox"/>		5. Lease Designation and Serial Number: K-31461
2. Name of Operator: Del Rio Resources INC		6. If Indian, Altiotsee or Tribe Name:
3. Address and Telephone Number: Box 510028 SLC Ut. 84151		7. Unit Agreement Name:
4. Location of Well Footages: QQ, Sec., T., R., M.: T 5 So. R. 23 E Sec. 18 S 4m		8. Well Name and Number: Cat Creek 18-1A
		9. API Well Number: 4304730714
		10. Field and Pool, or Wildcat:
		County: Uintah
		State: Utah

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

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

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

Well WAS converted to water well and used by surface owners.

Annual Status Report:

180 FSL  
747 FWL

**RECEIVED**

FEB 17 1993

DIVISION OF  
OIL GAS & MINING

13. Name & Signature: Steve MARKENS Title: Adm. Date: 2-13-93

(This space for State use only)

289-1687

Larry Caldwell  
789-8162

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File CAT CREEK  Suspense  Other  
18-1A (Return Date) \_\_\_\_\_  
(Location) Sec 18 Twp 55 Rng 23E (To - Initials) \_\_\_\_\_  
(API No.) 43-047-30714 \_\_\_\_\_

1. Date of Phone Call: MARCH 5, 1993 - Time: 10:45

2. DOGM Employee (name) MIKE HEBERTSON (Initiated Call )  
Talked to:  
Name MARGIE HERMAN (Initiated Call ) - Phone No. (801) 789-1362  
of (Company/Organization) BUREAU OF LAND MANAGEMENT

3. Topic of Conversation: SUNDRY INFORMATION OR NOTICES  
SHOWING CONVERSION TO A WATER WELL.

4. Highlights of Conversation: WELL WAS RECOMPLETED  
AS A WATER WELL. VINCENT WANTS  
TO CONTINUE USING WATER FROM THIS  
WELL BOND ON THE WELL IN THE NAME  
OF RUTTERS & WILLBANK. ACCORDING TO  
JERRY ~~KENCZKA~~ KENCZKA.



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

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

March 15, 1993

**Mr. Robert W. Leake**  
**Division of Water Rights**  
**Eastern Area Office**  
**State and County Building**  
**152 East 100 North**  
**Vernal, Utah 84078-2126**

Dear Mr. Leake:

Re: Cat Creek 18-1A, Water Well, 747 FWL 680 FSL, Sec. 18, T. 5 S, R. 23 E, Uintah County, Utah

The Division of Oil, Gas and Mining has determined that the above referenced well has been completed as a water well, and that the surface owner has been using water from this well since 1981.

It is the feeling of Oil, Gas and Mining that the well should be plugged or that a permit for the water use should be obtained.

Since this matter appears to be within your jurisdiction, Oil, Gas and Mining is remanding it to you along with our most recent information.

A copy of your final determination is requested.

Very truly yours,

A handwritten signature in cursive script that reads "F. R. Matthews".

F. R. Matthews  
Petroleum Engineer

ldc  
cc: R.J. Firth  
WOI28



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WATER RIGHTS

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Robert L. Morgan  
State Engineer

Eastern Area  
State/County Building  
152 East 100 North  
Vernal, Utah 84078-2110  
801-781-0770 x 327

RECEIVED

MAR 22 1993

DIVISION OF  
OIL GAS & MINING

March 18, 1993

F. R. Matthews, Petroleum Engineer  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Dear Mr. Matthews:

RE: Cat Creek 18-1A Well, Sec. 18, T5S, R23E, SLB&M.

We are in receipt of your letter of March 15, 1993, requesting a determination on the above referenced well.

We talked to Lewis Vincent, co-owner of the Sunshine Ranch who is both the previous owner of the property and currently lessee of the property. He states that the subject well has never been used as a water well. He advised us that the well has a wellhead on it that leaks a considerable amount of water which the cattle drink when they are in the pasture.

The current owner of the property is Corbin Robertson, Trustee, P. O. Box 16290, Houston, TX 77222.

Since it has not been completed as a water well, nor is it being used as a water well, it would not fall under our jurisdiction.

Sincerely,

Robert W. Leake, P.E.  
Regional Engineer

RWL/bmw









# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

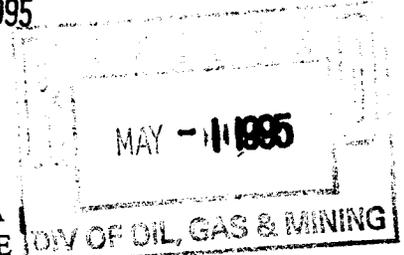
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

IN REPLY REFER TO:

3162.34  
UT08438

Larry Caldwell  
Del Rio Resources, Inc.  
P.O. Box 459  
Vernal, UT 84078

APR 26 1995



Re: Cat Creek #18-1A  
SWSW 18-5S-23E  
Uintah County, Utah  
Lease U-31461

43-047-30714

Dear Mr. Caldwell:

We are in receipt of the agreement (see attached) dated March 22, 1995, which transferred the liability for the Cat Creek #18-1A to the surface owners (Lewis and Verlan Vincent's Sunshine Partnership) for continued use as a water well. Therefore, we have determined that Del Rio has no further obligations to complete the plugging and abandonment of the Cat Creek #18-1A. A memorandum requesting that the bond liability associated with Rutter and Wilbanks for the lease also be released has been sent to our State Office.

This has been a long drawn out process and all those involved need to be congratulated in resolving this problem which has still allowed for the continued use of precious water resources. If you have any further questions regarding this matter, please contact Jerry Kenczka in our office at (801) 789-1362.

Sincerely,

Howard B. Cleavinger  
Assistant District Manager for Mineral  
Resources

cc: DOGM  
Rutter & Wilbanks Corp.

