

UTAH OIL AND GAS CONSERVATION COMMISSION

OIL

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_

DATE FILED 10-19-82  
 LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-10760 INDIAN \_\_\_\_\_

DRILLING APPROVED: 10-21-82  
 SPUDDED IN: \_\_\_\_\_  
 COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_  
 GRAVITY A.P.I. \_\_\_\_\_  
 GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_  
 TOTAL DEPTH: 610'  
 WELL ELEVATION: 1-22-84

DATE ABANDONED: 2-2-84 1A well never drilled  
 FIELD: MONUMENT BUTTE 3/16  
 UNIT: \_\_\_\_\_

COUNTY: DUCHESNE  
 WELL NO. N.G.C. FEDERAL #21-8-H API NO. 43-013-30694  
 LOCATION 610 FT. FROM (N) X LINE. 2128 FT. FROM X (W) LINE. NE NW 1/4 - 1/4 SEC. 8

| TWP.      | RGE.       | SEC.     | OPERATOR                 | TWP. | RGE. | SEC. | OPERATOR |
|-----------|------------|----------|--------------------------|------|------|------|----------|
| <u>9S</u> | <u>17E</u> | <u>8</u> | <u>NATURAL GAS CORP.</u> |      |      |      |          |

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078

September 20, 1982

Mr. E. W. Gynn  
Minerals Management Service  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #21-8-H Federal  
NE $\frac{1}{4}$  NW $\frac{1}{4}$  Section 8, T.9S., R.17E.  
Duchesne County, Utah  
Pleasant Valley area

Gentlemen:

Natural Gas Corporation of California proposes to drill the above captioned well. Enclosed are the following:

- 1) Application for Permit to Drill
- 2) Surveyor's Plat
- 3) Ten Point Plan
- 4) 13 Point Surface Use Plan

Your early consideration and approval of this application would be appreciated. Should you have any questions concerning this application, please contact this office.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

Encls.

cc: Operations  
C. T. Clark  
E. R. Henry

**RECEIVED**

OCT 19 1982

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

(Other instructions on reverse side)

OIL & GAS DIVISION  
RECEIVED  
OCT 19 1982  
SALT LAKE CITY, 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  
 Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
 85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 2128' FWL and 610' FNL (NE $\frac{1}{4}$  NW $\frac{1}{4}$ ) Section 8, T.9S., R.17E.  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 12 miles southwest of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 610'

16. NO. OF ACRES IN LEASE  
 800

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.  
 6101'

19. PROPOSED DEPTH  
 6101'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5246' GR

22. APPROX. DATE WORK WILL START\*  
 Oct. 25, 1982

5. LEASE DESIGNATION AND SERIAL NO.  
 U-10760

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 NGC #21-8-H

10. FIELD AND POOL, OR WILDCAT  
 Pleasant Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 8, T.9S., R.17E.

12. COUNTY OR PARISH  
 Duchesne

13. STATE  
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT   |
|--------------|----------------|-----------------|---------------|--|
| 12-1/4"      | 9-5/8"         | 36#             | 300           | To surface   |
| 7-7/8"       | 5-1/2"         | 17#             | TD            | As required to protect oil shale and producing formations. |

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 Rick Canterbury TITLE Associate Engineer DATE 9/20/82  
 Rick Canterbury

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY W.P. Mauter TITLE E. W. Guynn DATE NOV 18 1982  
 District Oil & Gas Supervisor

cc: MMS; Div. OG&M; Operations; CTClark; ERHenry

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

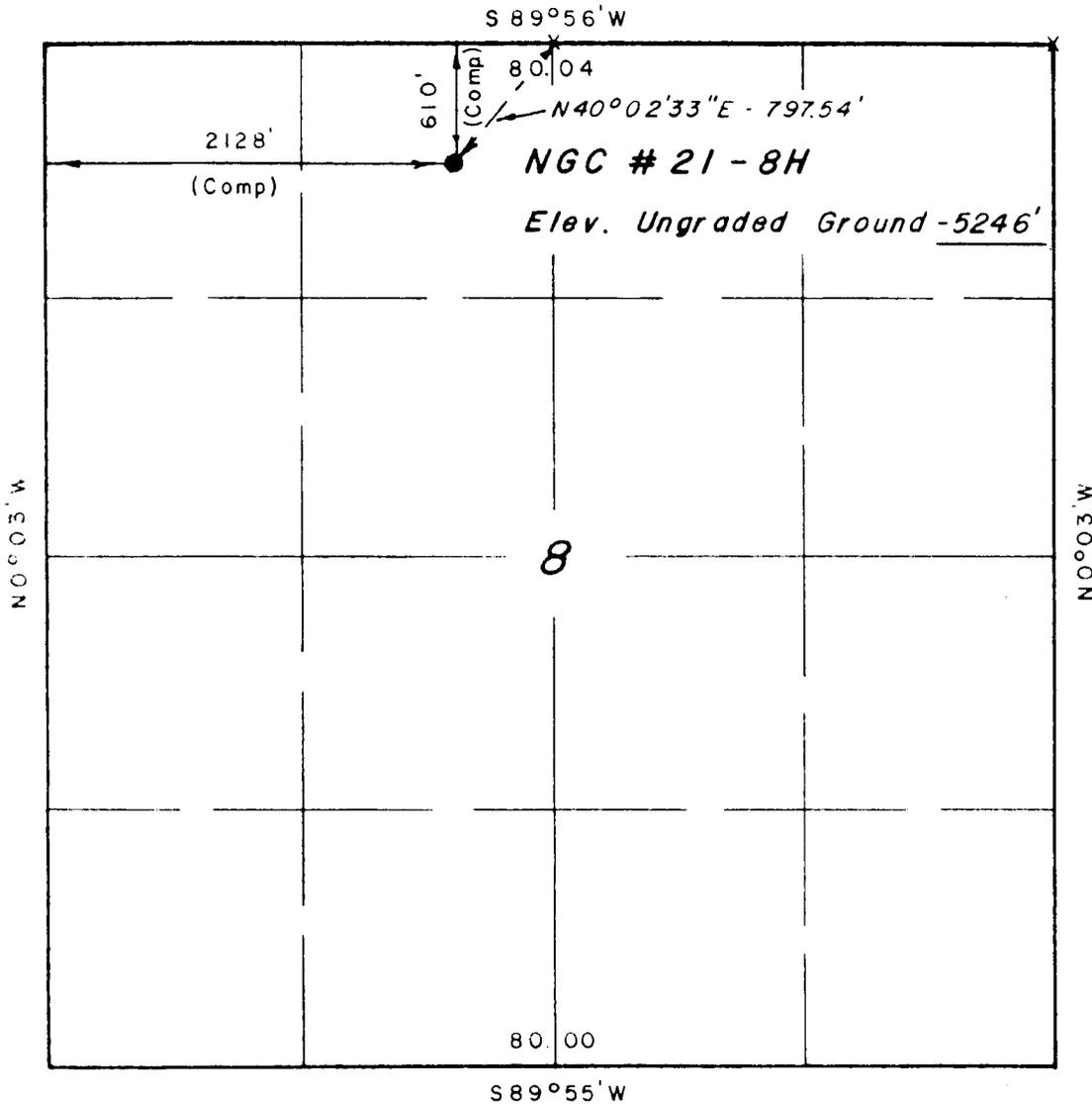
State Oil & Gas

PROJECT

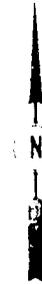
NATURAL GAS CORP. OF CALIF.

T 9 S, R 17 E, S.L.B.&M.

Well location, *NGC # 21-8H*,  
located as shown in the NE1/4 NW1/4  
Section 8, T9S, R17E, S.L.B.&M.  
Duchesne County, Utah.



X = Section Corners Located



THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED WELL IS LOCATED IN THE NE1/4 NW1/4 SECTION 8, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH. THE SURVEY WAS MADE BY ME AND I AM A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH. THE RESULTS OF MY SURVEY ARE AS FOLLOWS:

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 2454  
STATE OF UTAH

|  |                        |
|--|------------------------|
| UTAH ENGINEERING & LAND SURVEYING<br>P O BOX Q - 85 SOUTH - 200 EAST<br>VERNAL, UTAH - 84078 |                        |
| SCALE 1" = 1000'   | DATE 9/16/82           |
| PARTY R.K. D.K. B.K. S.B.  | REFERENCES GLO Plat    |
| WEATHER Fair   | FILE NATURAL GAS CORP. |

Natural Gas Corporation of California  
Well No. 21-8-H  
Section 8, T.9S., R.17E.  
Duchesne County, Utah  
Lease U-10760

Supplemental Stipulations

- 1) It is recommended that the pits be lined. A jell-base liner such as suggested by the operator will be adequate. A small dike will be constructed around the pit to divert runoff around the pits.
  
- 2) Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Mahogany Zone of the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale resource. Surface casing program may require adjustment for protection of fresh water aquifers. (See attached tentative casing and cementing program for the Uinta Basin.)



# United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

February 2, 1981

## General Outline for the Protection and Isolation of Ground Water and Oil Shale in the Uinta Basin.

The oil shale occurs with varying thicknesses in most parts of the Uinta Basin and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon in the Uinta Basin should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta Basin, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

This notice's purpose is to attempt to lay the groundwork for a casing program and cementing program that will protect the oil shale and the ground water if present.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well. Cementing from the bottom up is an economical solution if carefully conducted.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale. These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.

B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement baskets or equivalent as described below and on attached sketches:

1. Cement first stage through the casing shoe to fill annulus back to base of lower aquifer.
2. Place 1st stage collar (with cement basket immediately below) at a selected point at the base of the oil shale. Cement will have to reach top of oil shale.
3. Place 2nd stage collar (with cement basket immediately below) 50 feet above the top of the Bird's Nest aquifer and cement to at least 300 feet above the stage collar.

C. The above is an example. Reasonable equivalents that accomplish these same protective measures, (such as cementing the water zones instead of isolating them), depending on the individual cases will be considered for approval.

D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

E. The Operator of such well should notify U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached Sketches:

1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.
3. Schematic of the general ground water protection program.

E. W. Guynn  
District Oil and Gas Supervisor

AMR/kr

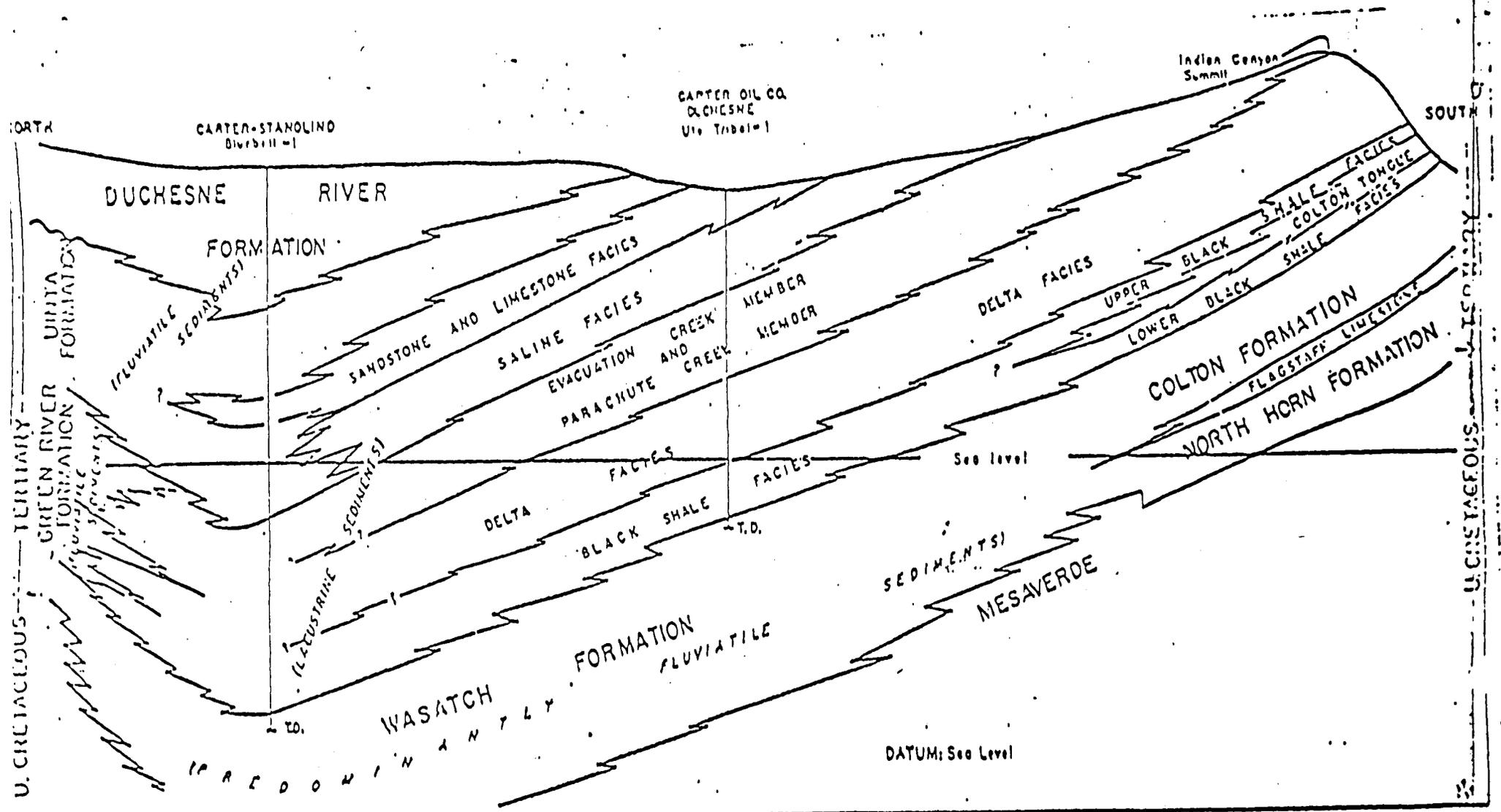
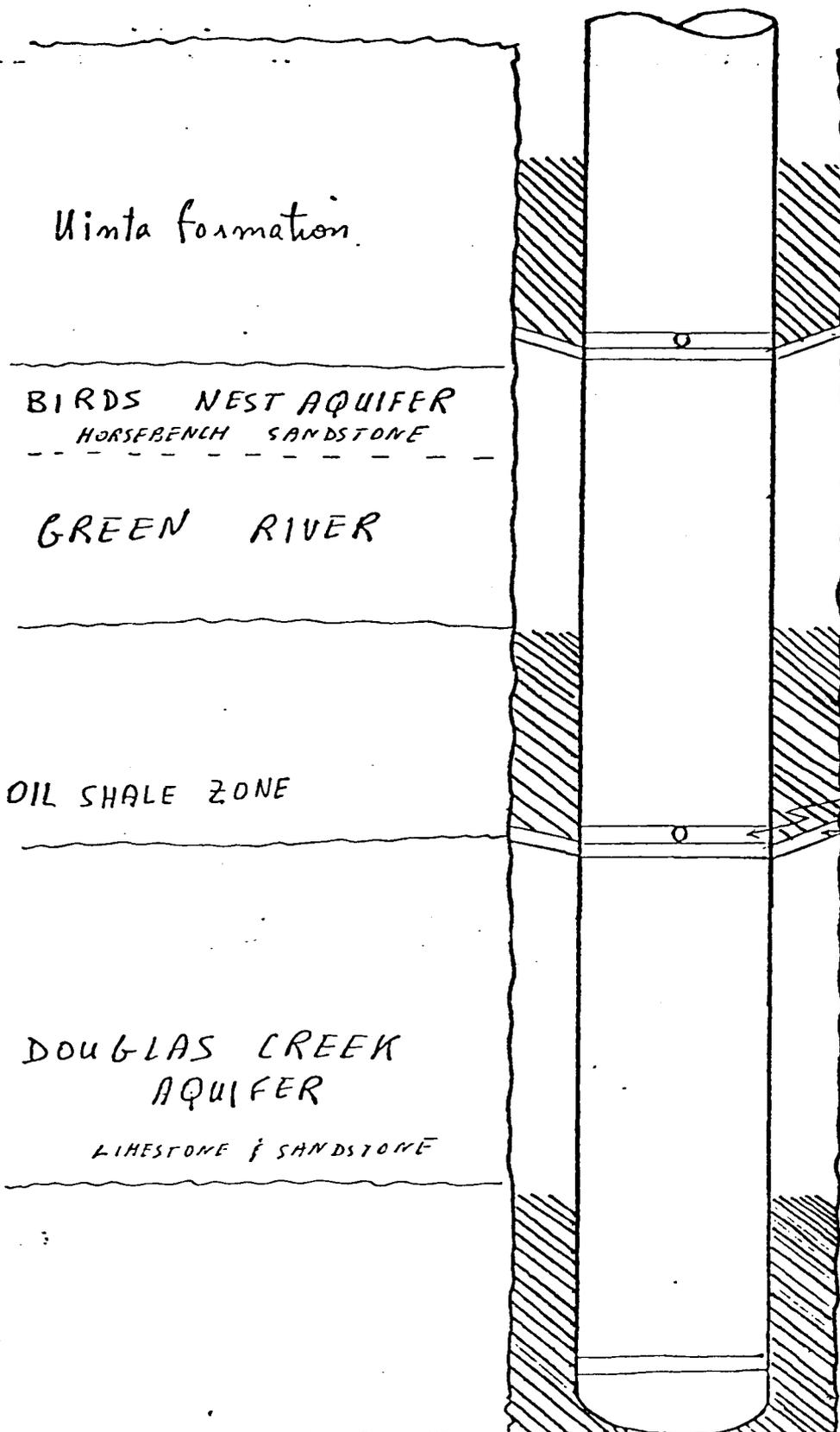


Figure 5.- View east of cross section of Uinta Basin showing stratigraphy and intertonguing of Tertiary rocks. Ute Tribal-1 (in section) is located about 8 miles southeast of the application area .

PARTIAL CASING & CEMENTING PROGRAM FOR WELLS IN NATURAL BUTTES FIELD. HINTAH COUNTY, UTAH



NO SCALE

CEMENT BASKET IS PLACED 50' ABOVE TOP AQUIFER CEMENT TO RISE AT LEAST 300' IN ANNULUS

STAGE COLLAR  
CEMENT BASKET

CEMENT BASKET IS SET AT CONSOLIDATED SECTION AT THE BASE OF THE OIL SHALE ZONE. CEMENT TO REACH THE TOP OF THE MAHOGANY ZONE

CEMENT WILL REACH BASE OF LOWER AQUIFER

Uinta formation

BIRDS NEST AQUIFER  
HORSEBENCH SANDSTONE

GREEN RIVER

OIL SHALE ZONE

DOUGLAS CREEK AQUIFER

LIMESTONE & SANDSTONE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

3

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

Natural Gas Corporation of California

3. ADDRESS OF OPERATOR

85 South 200 East, Vernal, UT 84078

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

At surface  
2128' FWL and 610' FNL (NE $\frac{1}{2}$  NW $\frac{1}{2}$ ) Section 8, T.9S., R.17E.  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 12 miles southwest of Myton, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 610'

16. NO. OF ACRES IN LEASE

800

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

6101'

20. ROTARY OR CABLE TOOLS

Rotary

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

5246' GR

22. APPROX. DATE WORK WILL START\*

Oct. 25, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT   |
|--------------|----------------|-----------------|---------------|--|
| 12-1/4"      | 9-5/8"         | 36#             | 300           | To surface   |
| 7-7/8"       | 5-1/2"         | 17#             | TD            | As required to protect oil shale and producing formations. |

RECEIVED

OCT 19 1982

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 Rick Canterbury TITLE Associate Engineer DATE 9/20/82  
(This space for Federal or State office use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

cc: MMS; Div. OG&M; Operations; CTClark; ERHenry

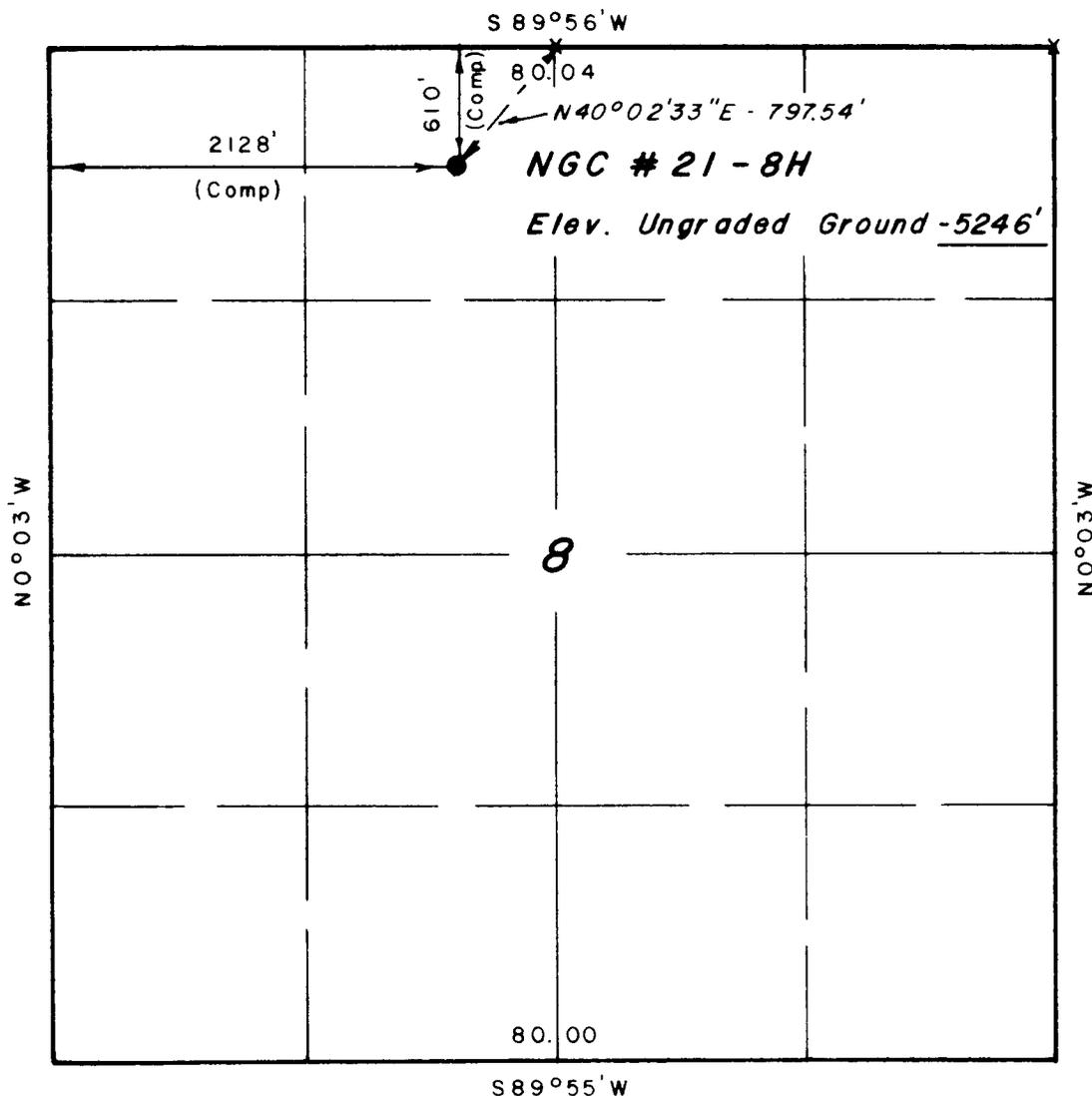
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 DATE: 10-21-82  
 BY: [Signature]

T 9 S, R 17 E, S.L.B.&M.

PROJECT

NATURAL GAS CORP. OF CALIF.

Well location, *NGC # 21-8H*,  
located as shown in the NE1/4 NW1/4  
Section 8, T9S, R17E, S.L.B.&M.  
Duchesne County, Utah.



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.

*[Signature]*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

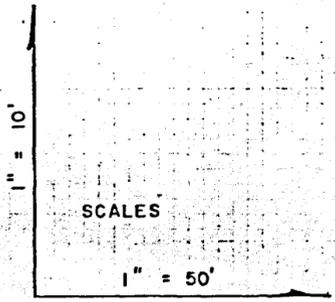
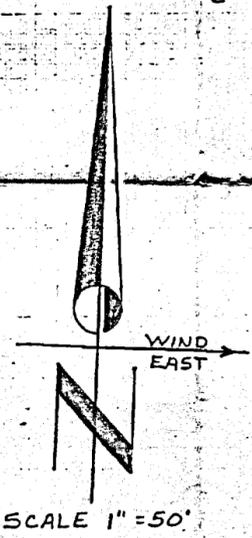
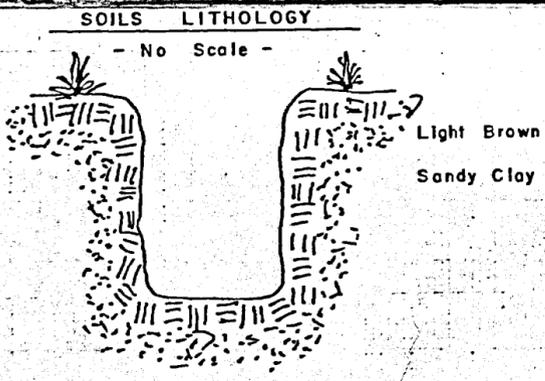
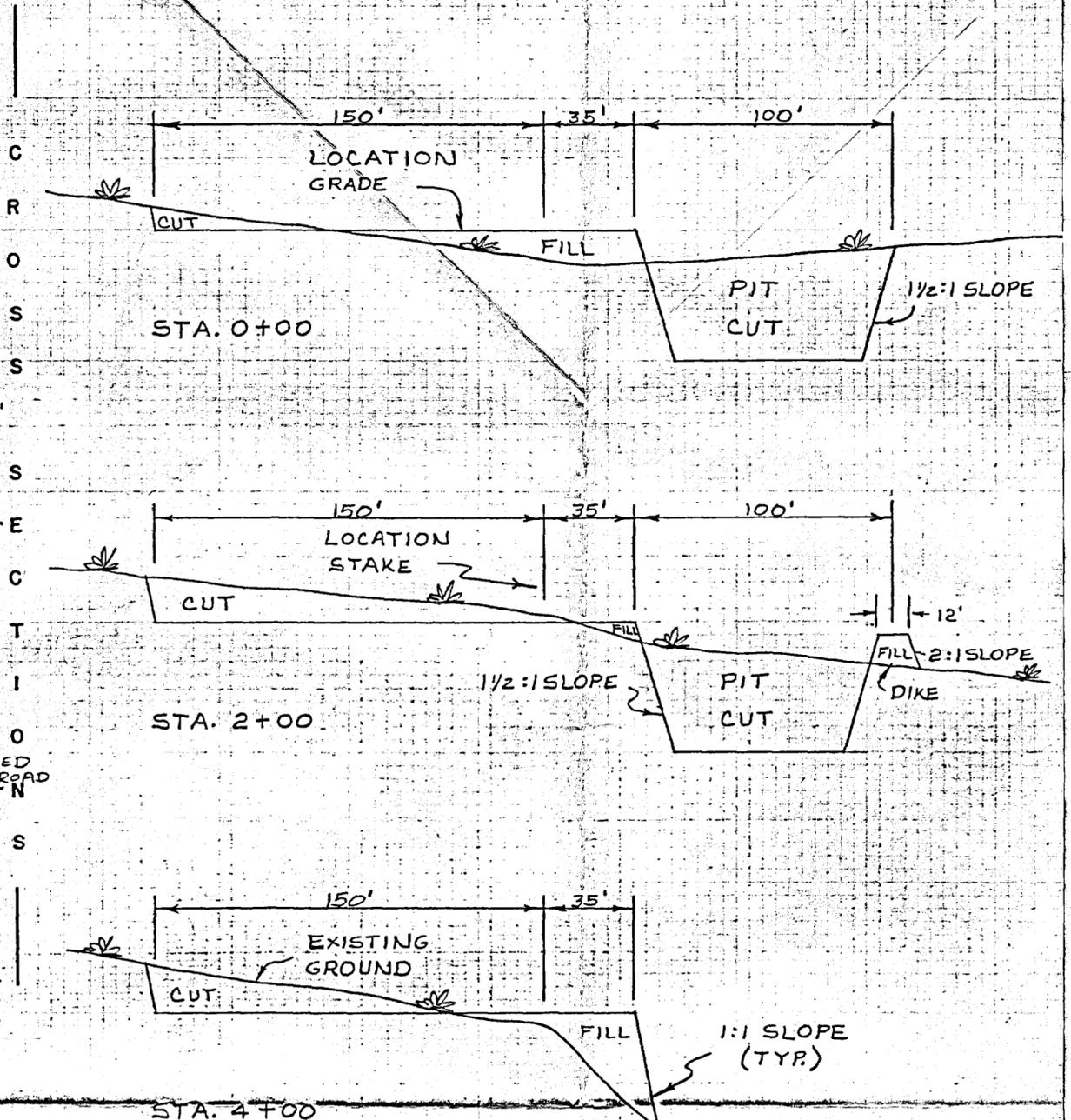
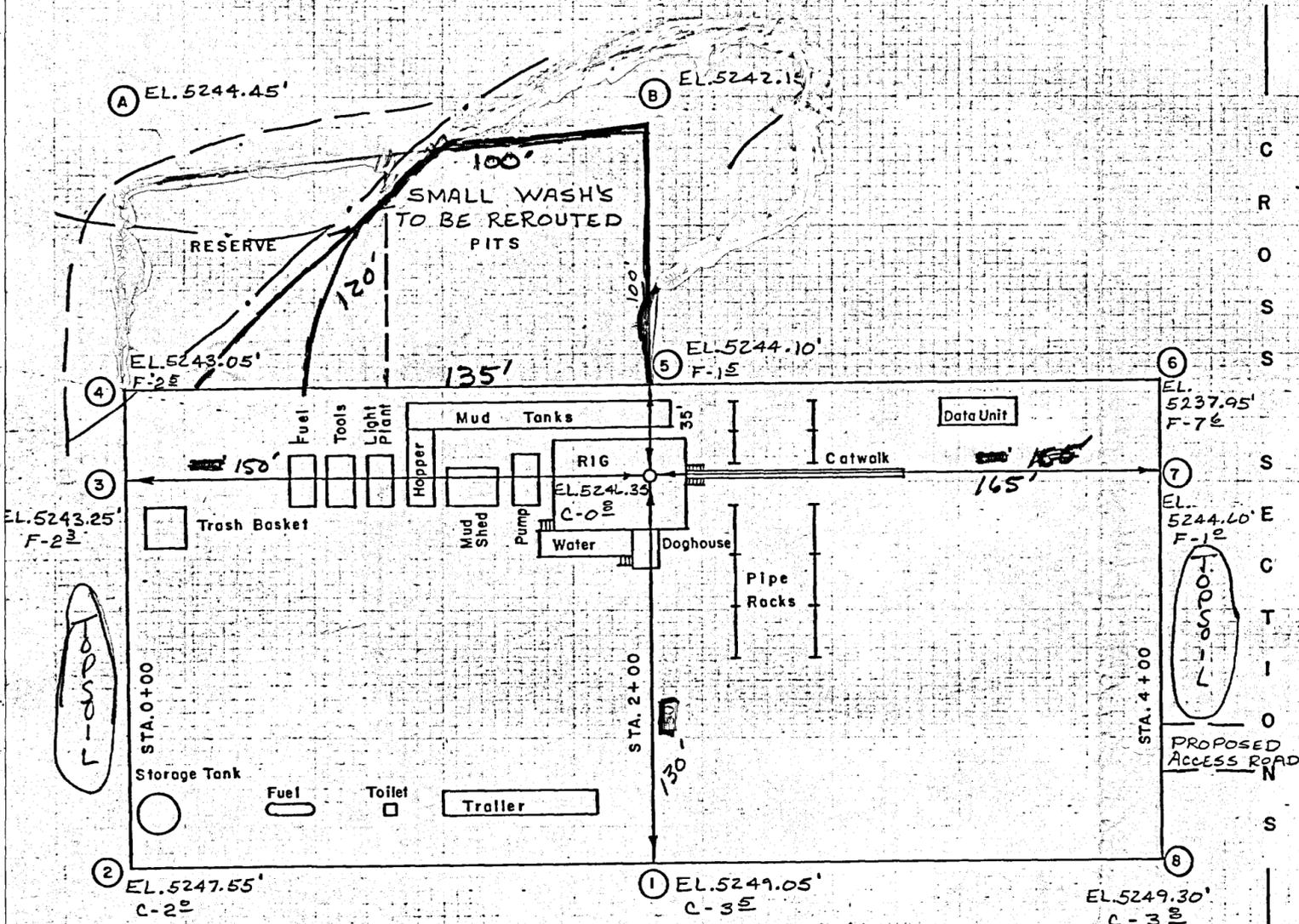
UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

|         |                     |            |                   |
|---------|---------------------|------------|-------------------|
| SCALE   | 1" = 1000'          | DATE       | 9/16/82           |
| PARTY   | R.K. D.K. B.K. S.B. | REFERENCES | GLO Plat          |
| WEATHER | Fair                | FILE       | NATURAL GAS CORP. |

X = Section Corners Located

# NATURAL GAS CORP. OF CALIF.

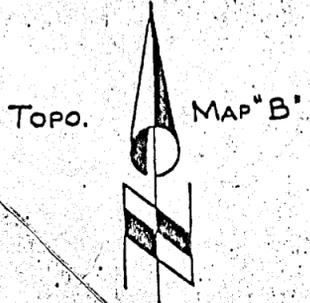
N.G.C. # 21-8H



APPROXIMATE YARDAGES  
Cubic Yards Cut - 9,932  
Cubic Yards Fill - 1,833



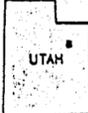
NATURAL GAS CORP.  
OF CALIF.  
NGC #21-8H  
PROPOSED LOCATION



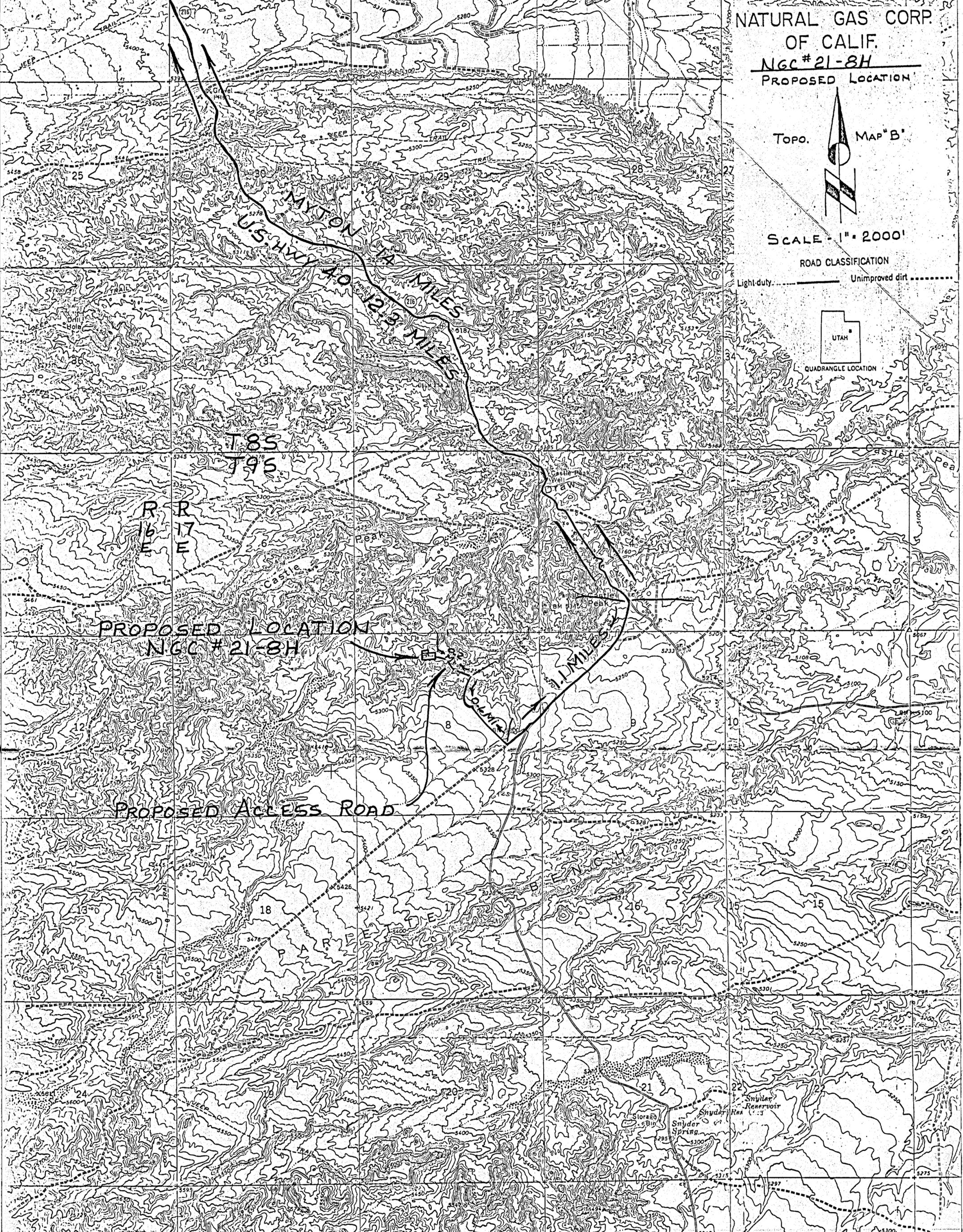
SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light-duty ..... Unimproved dirt .....



UTAH  
QUADRANGLE LOCATION



MYTON TA  
U.S. HWY 40  
12.9 MILES

PROPOSED LOCATION  
NGC #21-8H

PROPOSED ACCESS ROAD

1.1 MILES

R R  
16 E  
17 E

T 8 S  
T 9 S

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Ten Point Plan  
 Natural Gas Corporation of California  
 Well #21-8-H Federal  
 NE¼ NW¼ Section 8, T.9S., R.17E.

1. Surface Formation: Uintah.
2. Estimated Formation Tops and Datum:

| <u>Formation</u>   | <u>Depth</u> | <u>Datum</u> |
|--------------------|--------------|--------------|
| Uintah             | Surface      | +5260' KB    |
| Green River        | 1496'        | +3764'       |
| Oil Shale Facies   | 2116'        | +3144'       |
| Delta Facies       | 3151'        | +2109'       |
| Green Shale Marker | 4201'        | +1059'       |
| Black Shale Facies | 5299'        | - 39'        |
| Green River Lime   | 5841'        | - 581'       |
| Wasatch            | 6011'        | - 751'       |
| T.D.               | 6101'        | - 841'       |

3. Producing Formation Depth: ✓ Formation objective is the Green River.

4. Proposed Casing Program:

| <u>Hole Size</u> | <u>Casing Size</u> | <u>Weight/Ft.</u> | <u>Setting Depth</u> | <u>Casing New/Used</u> |
|------------------|--------------------|-------------------|----------------------|------------------------|
| 12-1/4"          | 9-5/8"             | 36#               | 300'                 | New                    |
| 7-7/8"           | 5-1/2"             | 17#               | T.D.                 | New                    |

5. BOP and Pressure Containment Data: A 3000 psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from under the surface casing. BOP system including the casing will be pressure tested to a minimum of 3000 psi for 30 mins. prior to drilling and will be mechanically checked daily during drilling operations.

6. Mud Program:

| <u>Interval</u> | <u>Mud Weight<br/>lbs./gal.</u> | <u>Viscosity<br/>Sec./Qt.</u> | <u>Fluid Loss<br/>ML/30 mins.</u> | <u>Mud Type</u> |
|-----------------|---------------------------------|-------------------------------|-----------------------------------|-----------------|
| 0-4000'         | Clear Water                     | ---                           | No Control                        | Water/Gel       |
| 4000'-T.D.      | 8.8                             | 40                            | 10cc/less                         | L.S.N.D.        |

7. Auxiliary Equipment: Upper Kelly cock, full opening stabbing valve, 2½" choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

a) Testing: None.

b) Coring: There will be 2500' of continuous core taken from approximately 3430' (Delta Facies) through 5930' (Wasatch).

c) Sampling: 20' samples will be taken from surface to 3000'; 10' samples from 3000' to T.D.

d) Logging:

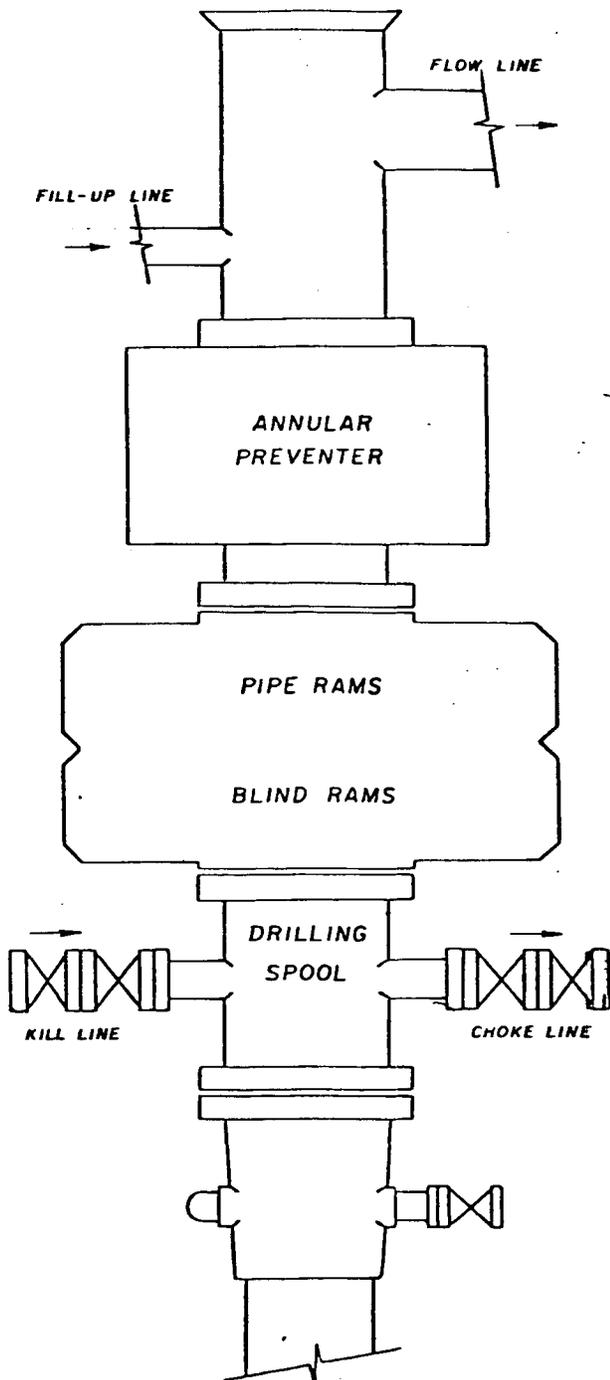
| <u>Type</u>                                | <u>Interval</u>   |
|--|---|
| DIL or DLL w/GR and SP                     | Logged interval to be selected by the wellsite Geologist. |
| BHC Sonic w/GR and CAL and "F" Log Overlay |   |
| Proximity Microlog and/or EPT              |   |
| Dipmeter w/DEV and AZIM and RB w/FIL log   |   |
| Litho Density CNL w/GR and CAL             |   |
| NGT w/CGR and SGR-EPT-FID, Digital Sonic   |   |

9. Abnormalities (including sour gas): No abnormalities are anticipated.

10. Drilling Schedule: Anticipated starting date is Oct. 20, 1982 and duration of operations is expected to last about 15 days.

NATURAL GAS CORPORATION  
OF  
CALIFORNIA  
BOP AND PRESSURE CONTAINMENT DATA

NGC #12-8-H Federal  
Section 8, T.9S., R.17E.  
Duchesne County, Utah



1. BOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventers, one equipped w/pipe rams, the other w/blind rams.
2. BOP's are to be well braced w/ hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator &/or flow sensors w/alarms.
5. All BOP equipment, auxiliary equipment stand pipe & valves & rotary hose to be tested to the rate pressure of the BOP's at time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

Natural Gas Corporation of California

13 Point Surface Use Plan

for

NGC #21-8-H Federal

NE $\frac{1}{4}$  NW $\frac{1}{4}$  Section 8, T.9S., R.17E.

Duchesne County, Utah

## 1. EXISTING ROADS

See attached topographic map A .

To reach NGC Well #21-8-H, proceed west from Myton, Utah on Highway 40 for about 1.5 miles to its junction with U.S. Highway 53; proceed south on Highway 53 to its junction with county road #216. Follow this road south for about 10 miles to the Sand Wash Road. Proceed southwest on the Sand Wash Road for about 1 mile and then north for about .4 miles. The new road will start at this point. No improvements are planned for these existing roads.

## 2. PLANNED ACCESS ROAD

See attached topographic map B .

The proposed access road will be .2 mile long.

The access road will be constructed to the following standards:

- 1) Width - The running surface will be 18 feet and the total disturbance width including the ditches will not exceed 40 feet.
- 2) Maximum grade - 4%.
- 3) Turnouts - None.
- 4) Drainage designs - Ditches will be constructed on each side of the road, V-shaped, 1 foot deep at 3:1 slopes.
- 5) Location and size of culverts, major cuts and fills - No major cuts or fills will be required.
- 6) Surfacing materials - None are planned.
- 7) Gates, cattleguards, or fence cuts - None necessary.
- 8) The proposed road has been flagged.

## 3. LOCATION OF EXISTING WELLS

The following wells are located within a 1 mile radius of the location site.

- 1) Water Wells - None.
- 2) Abandoned Wells - None.
- 3) Temporarily Abandoned Wells - None.

- 4) Disposal Wells - None.
- 5) Drilling Wells - None.
- 6) Producing Wells - Paiute Well #14-8, NGC Well #31-8-H, NGC Well #42-8-H, NGC Well #13-9-H, NGC Well #11-16.
- 7) Shut-in Wells - None.
- 8) Injection Wells - None.
- 9) Monitoring or observation wells for other resources - None.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. (1) Tank batteries - Yes, a tank battery will be located on the location.  
(2) Production facilities - none.  
(3) Oil gathering lines - No lines will be required as the oil will be trucked.  
(4) Gas gathering lines - none.
- B. (1) In the event production is established, all petroleum production facilities are to be contained within the proposed location site. In the event that production of oil from this well is established, a berm will be constructed around the tank battery large enough to contain the contents of tanks.  
(2) Construction methods and materials - Production facilities will be placed on the proposed pad. Construction materials will come from the unused portion of the pad.  
(3) Livestock and wildlife protection - The evaporation pond will be fenced on all four sides and overhead wire with flagging installed, if there is oil in the pit.
- C. The rehabilitation of disturbed areas no longer required for the production of this well will be completed by backfilling, recontouring, topsoiling and seeding.

5. LOCATION AND TYPE OF WATER SUPPLY

See attached topographic map A.

Water will obtained from the Upper Pleasant Valley Canal in Section 33, T.4S., R.2W. An agreement has been made with Mr. Clark Roberts, a copy is attached.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road will be borrow materials, accumulated during construction of the location site. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

- 1) Cuttings, drilling fluids and produced fluids - A reserve pit will be constructed. The reserve pit will be approximately 10' deep and at least one-half of this depth shall be below the surface of the existing ground.

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 nonflammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

Prior to the onset of drilling, a "stock tight" fence shall be installed on three sides of the reserve pit. This fence will be either (1) woven wire at least 28 inches high and within 4 inches of ground surface with two strands of barbed wire above the woven wire with 10-inch spacing, or, (2) at least five strands of barbed wire spaced, starting from the ground, at approximately 6-, 8-, 10-, 12-, and 12-inch intervals. At the completion of drilling operations, the fourth side of the reserve pit will be fenced and allowed to dry completely before the pit is backfilled. If there is oil on the pits, overhead wire and flagging will be installed on the pits.

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

- 2) Sewage - A portable chemical toilet will be supplied for human waste.
- 3) Garbage - Trash cages will be on all locations and all trash will be removed to an authorized landfill.
- 4) Site Clean-up - Immediately after the rig is moved out, the area around the well site will be cleaned and all refuse placed in the trash cages.

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 typical rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

Prior to construction of the location, the top 6 inches of soil material will be stripped and stockpiled. This will amount to approximately 1800 cubic yards of material that will be stockpiled.

If the well is producing, the platform and pit areas no longer required for the production of the well will be backfilled, recontoured, topsoiled and seeded.

If the well is abandoned, the entire disturbed area (including roads) will be restored by: (1) backfilling; (2) recontouring; (3) topsoiling; (4) seeding. Specifically: the platform highwall(s) and road fill(s) will be eliminated by moving all excavated material back in place. Restoration of the location and access road will begin within 90 days after completion of the well. The BLM representative will be notified prior to starting the rehabilitation operations.

The following seed mixture and methods for seeding will be used:

The seed mixture will be: Determined at the time of abandonment.

Seed will be planted after September 1 and prior to ground frost; or seed will be planted after the frost has left and before May 15. All seed will be drilled on the contour at a depth of  $\frac{1}{4}$  to  $\frac{1}{2}$  inch. Slopes too steep or rocky for machinery will be broadcast and the seed hand raked into the soil. When broadcasting the seed, the rate per acre will be doubled.

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.

11. OTHER INFORMATION

- 1) The Vernal District BLM will be contacted by the Operator or dirt contractor forty eight hours prior to beginning any work on public land.
- 2) The dirt contractor will be furnished a copy of the approved APD and Surface Use Plan prior to beginning any work on public land.
- 3) All permanent (on-site for six (6) months duration or longer) structures constructed or installed, including the pumpjack, shall be painted a flat, non-reflective, earthtone color to match Tnemec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities shall be painted within 6 months of when the production facilities are put in place. Facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) are excluded.
- 4) Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes shall be in accordance with the surface use standards as set forth in the booklet, "Surface Operating Standards for Oil and Gas Exploration and Development."

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Natural Gas Corporation of California  
85 South 200 East  
Vernal, UT 84078  
Attn: Bill Ryan or Rick Canterbury

Telephone: (801) 789-4573

13. CERTIFICATION

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

Oct. 15, 1982

Date

Rick Canterbury

Rick Canterbury, Associate Engineer

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078

September 20, 1982

Mr. Clark Roberts  
P.O. Box 156  
Myton, UT 84052

Re: Natural Gas Corporation of CA  
Proposed Well #21-8-H Fed.  
Section 8, T.9S., R.17E.

Dear Mr. Roberts:

The purpose of this letter is to make an additional agreement with you for a water supply for drilling operations on the above referenced well.

In consideration for you providing this water, Natural Gas Corporation of California will compensate you \$1200 per well, payable two weeks prior to the spudding of the well. If you are in agreement with this, please indicate your approval by signing below.

Very truly yours,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer  
Natural Gas Corporation of CA

Owner: \_\_\_\_\_

*Roberts*

Date: \_\_\_\_\_

RC/kh

OPERATOR NATURAL GAS CORP OF CALIF

DATE 10-21-82

WELL NAME NGC FED # 21-8-H

SEC NE NW 8 T 9S R 17E COUNTY DUCHESNE

43-013-30694  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

HL

NID

PI

MAP

PROCESSING COMMENTS:

LOCATION IS WITHIN THE MONUMENT BUTTE (GREEN RIVER POOL) FIELD,  
AND EVEN THOUGH IT IS IN THE WASATCH POOL, THE WELL IS  
INTENDED TO PRODUCE THE GREEN RIVER POOL  
RTE. ✓

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

c-3-a \_\_\_\_\_ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION *FED*

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC. *S*

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

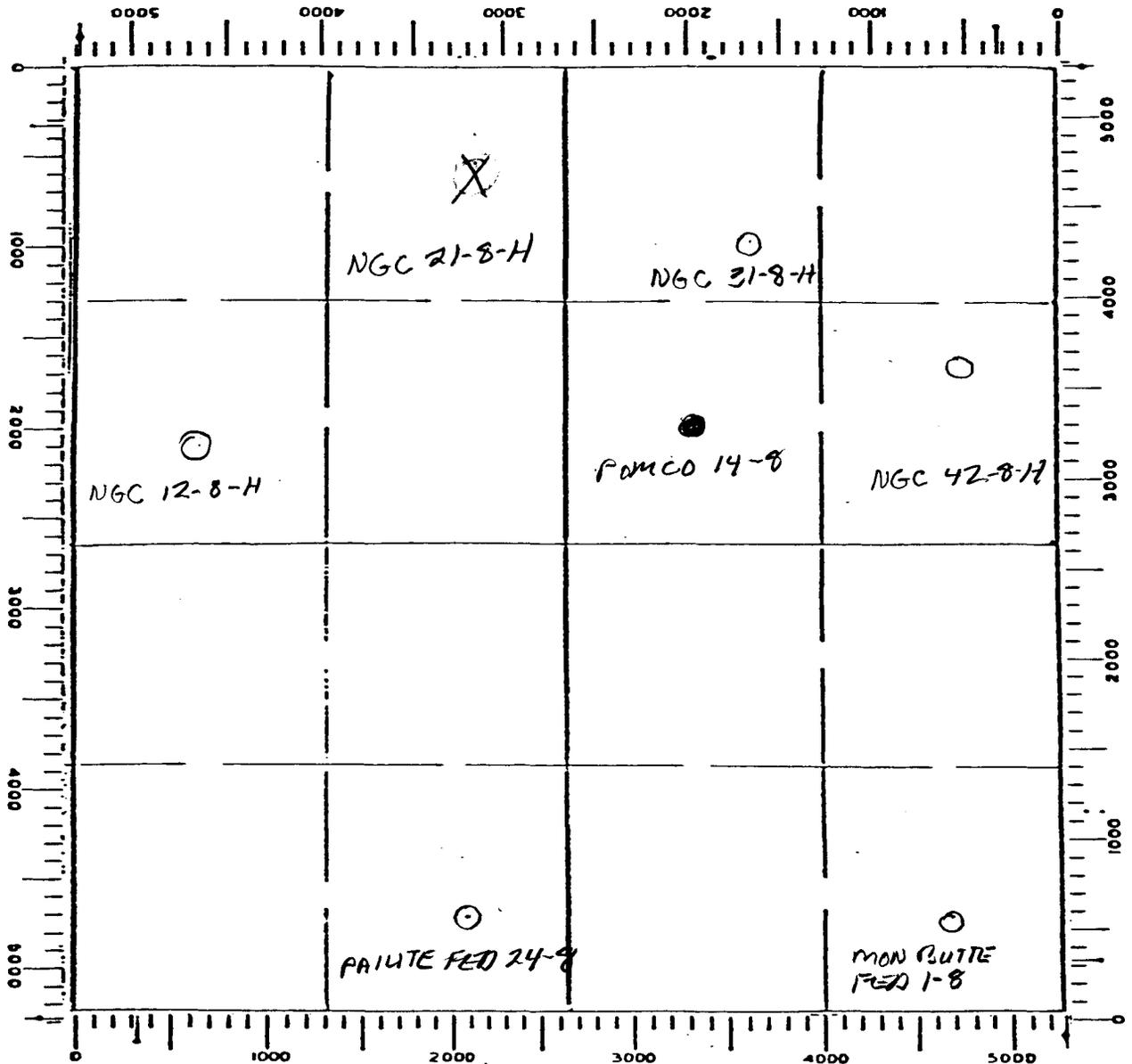
c-3-c

OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

*14* POTASH — *NO*

OPERATOR NEC DATE 10-21-82

SEC 8 T 9S R 17E COUNTY DUCHECNE



⊖ SCALE OF MAP 1" = 1000 FT.

October 25, 1982

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah 84078

RE: Well No. NGC Fed. #21-8-H  
NENW 8, T. 9 S. R.17E  
Duchesne County, Utah

Gentlemen:

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

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

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

OR

CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

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 43-013-30694.

Sincerely,



Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Minerals Management Service  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

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

December 22, 1983

Natural Gas Corporation of California  
85 South 200 East  
Vernal Utah 84078

RE: Well No. NGC #21-8-H  
610' FNL, 2128' FWL NE NW  
Sec. 8, T. 9S, R. 17E.  
Duchesne County, Utah

Gentlemen:

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded effective one calendar month from the date of this notice.

A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

Respectfully,

A handwritten signature in black ink, appearing to read 'Norman C. Stout'.

Norman C. Stout  
Administrative Assistant

NCS/cj

3100  
U-810

June 8, 1984

RECEIVED  
JUN 11 1984  
DIVISION OF OIL  
GAS & MINING

Natural Gas Corporation  
of California  
85 South 200 East  
Vernal, UT 84078

Re: Rescind Application for Permit to Drill  
Well No. Pleasant Valley 21-8-H  
Section 8, T9S, R17E  
Duchesne County, Utah  
Lease U-10760

Gentlemen:

The Application for Permit to Drill the referenced well was approved on November 18, 1982. Since that date, no known activity has transpired at the approved location. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

*Donald C. Alvord*

Donald C. Alvord  
Associate District Manager

cc: Well File  
State O & G ✓  
SMA

*B. Muth: ma*