

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
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR
85 South 200 East, Vernal, UT 84078 Telephone 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 2035' FWL, 1980' FSL, Section 24, T.8S., R.21E., NE 1/4 SW 1/4
At proposed prod. zone

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

5. LEASE DESIGNATION AND SERIAL NO.
38046

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Uintah and Ouray

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC #23-24 South Wonsits Val

10. FIELD AND POOL, OR WILDCAT
Wonsits Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

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

16. NO. OF ACRES IN LEASE
240

17. NO. OF ACRES ASSIGNED TO THIS WELL
160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
9500

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Ungr. Ground 4819

22. APPROX. DATE WORK WILL START*
Aug. 1, 1982

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#, H-40	80	To surface
12-1/4"	9-5/8"	36#, K-55	2000	To surface
7-7/8"	5-1/2"	17#, N-80	T.D.	As required to protect the producing formations and the oil shale zones.

MESA VERDES

See attached sheets for additional details.

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

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 Wm Ryan TITLE Petroleum Engineer DATE June 11, 1982
William A. Ryan

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

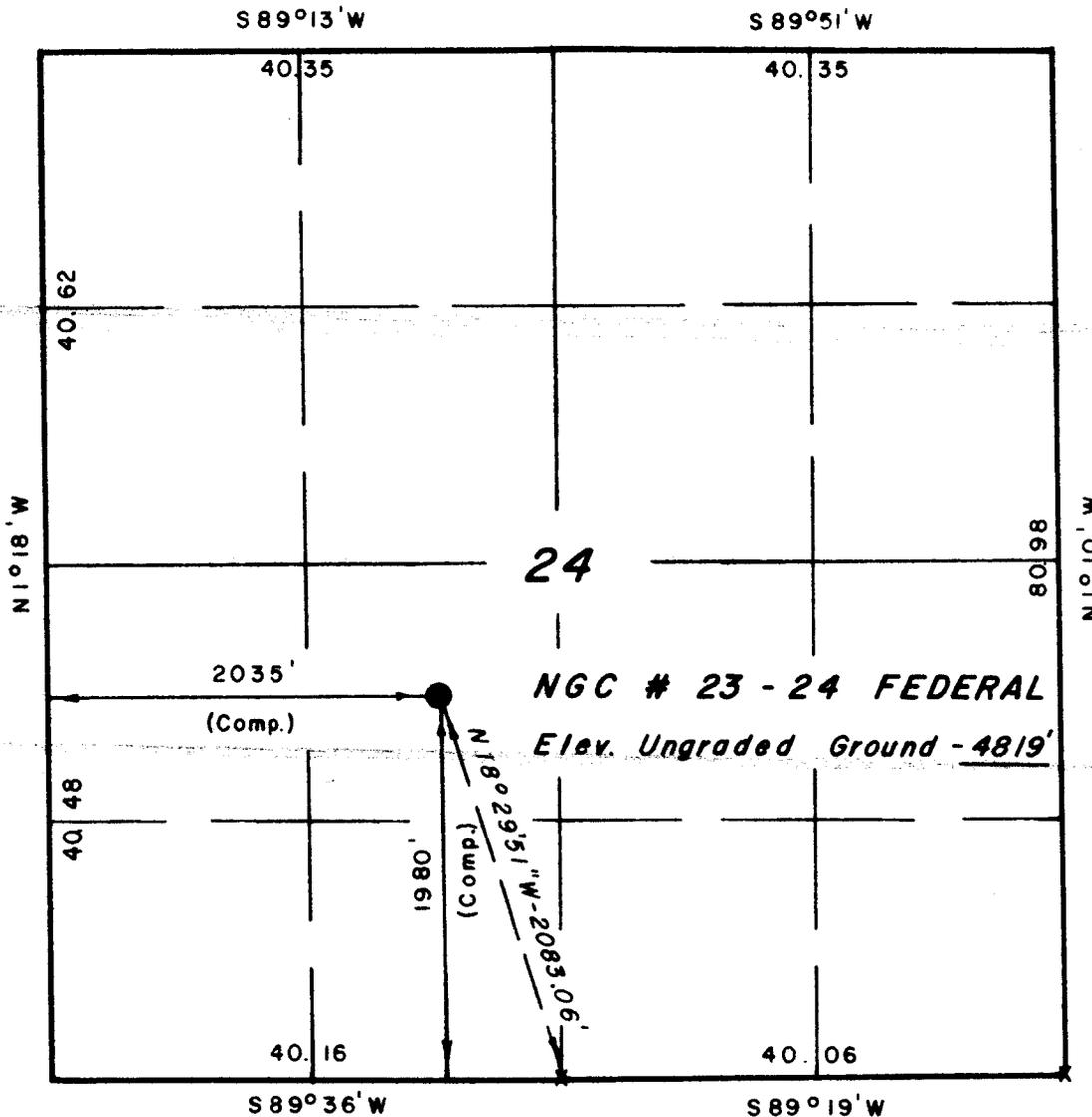
cc: MMS; Div. OG&M; Operations; CTCClark; ERHenry

T 8 S, R 2 1 E, S.L.B.&M.

PROJECT

NATURAL GAS CORP. OF CALIF.

Well location, *NGC # 23 - 24 FEDERAL*, located as shown in the NE 1/4 SW 1/4 Section 24, T8S, R21E, 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.

Lawrence E. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 3137
 STATE OF UTAH

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

SCALE	1" = 1000'	DATE	6/4/82
PARTY	R.K. B.K. SB	REFERENCES	GLO Plat
WEATHER	Fair	FILE	NATURAL GAS CORP.

MINERALS MANAGEMENT
SERVICE
OIL & GAS OPERATIONS
RECEIVED

Identification No. 388-82

JUL 19 1982
SALT LAKE CITY, UTAH

United States Department of the Interior
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Natural Gas Corp of California
Project Type Caswell - wellbore
Project Location 2035 FUL 1480 FSL SEC 24 T8S R71E
Well No. 23-24 Lease No. U-38406
Date Project Submitted 6-22-82

FIELD INSPECTION Date 6-29-82

Field Inspection Participants Craig Hansen MMS - UTAH
Bill Ryan Natural Gas Corp
Lynn Hall Bin Ft Duchesne

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

6-30-82
Date Prepared

Craig Hansen
Environmental Scientist

I concur

JUL 21 1982
Date

WJ Mauter FOR E. W. GYNN
DISTRICT OIL & GAS SUPERVISOR
District Supervisor

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement



United States Department of the Interior
BUREAU OF INDIAN AFFAIRS
UINTAH AND OURAY AGENCY

Fort Duchesne, Utah 84026
(801) 722-2406 Ext.
202

IN REPLY REFER TO:
S.M.C.

July 8, 1982

Mr. Craig Hansen
Mineral Management Service
P.O. Box 1037
Vernal, Utah 84078

Dear Mr. Hansen:

Enclosed are Environmental Analyses and Negative Declaration for the following well locations:

<u>Company</u>	<u>Well No.</u>	<u>Legal Description</u>
CIGE	101D-20-9-21J	NWSW, Sec. 20, T9S., R21E., SLM.
CIGE	100D-13-9-21J	NWSW, Sec. 13, T9S., R21E., SLM.
Natural Gas Corp. of California	23-24	NESW, Sec. 24, T8S., R21E., SLM.

The surface use and operating plans are adequate with the changes made at the on-site inspection and included in the Mineral Management Service Environmental Assessment. The additional stipulation listed below are submitted as condition of approval of the A.P.D.

1. The operator will obtain the required right-of-ways and permits from B.I.A. and Ute Tribe and pay established fees.
2. The operator will comply with B.I.A., Ute Tribe and Mineral Management Service Regulations.
3. The operator shall assume a continuing responsibility for all adverse conditions resulting from the exploration, production and related activities and agrees to correct or mitigate these conditions when requested by the B.I.A. or Mineral Management Service.

Thank you for the assistance you provide us.

Sincerely yours,

L. W. Callahan
Superintendent

cc: Realty Office

Memorandum

TO : Realty Officer

DATE: July 6, 1982

FROM : Soil Conservationist

SUBJECT: Environmental Analyses and Negative Declaration.

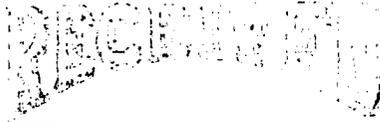
Enclosed are Environmental Analyses and negative declaration for the following well locations:

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CIGE	101D-20-9-21J	NWSW, Sec. 20, T9S., R21E., SLM.
CIGE	100D-13-9-21J	NWSW, Sec. 13, T9S., R21E., SLM.
Natural Gas Corp. of California	23-24	NESW, Sec. 24, T8S., R21E., SLM.

The company representative was instructed to contact your office for the required right-of-ways and permits.

R. Lynn Hall

R. Lynn Hall
Soil Conservationist



Uintah and Ouray Agency
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, Utah 84026

JUL 8 1982

(801) 722-5141

UINTAH & OURAY
AGENCY

June 30, 1982

RE: Natural Gas Corporation of California
Well #NGC #23-24 South Wonsit Valley
Lease #U-38406, section 24
T. 8 South, R. 21 East,
Uintah County, Utah

Mr. L. W. Collier, Superintendent
Bureau of Indian Affairs
Uintah and Ouray Agency
Ft. Duchesne, Utah 84026

Dear Superintendent Collier:

In regard to the reference APD submitted by
for approval, we have reviewed the various components of the situation and
find all to be in order as only Tribal surface is involved (BLM and fee minerals)
and the on-site inspection has had satisfactory results.

This shall serve to notify you of our concurrence in the approval of APD.
Please feel free to contact us should further assistance in the matter be
required.

Sincerely,

Ronald J. Chohamin
RONALD J. CHOHAMIN
Director, Energy & Minerals

sbm

cc: Jason Cuch
BIA Realty
BIA Land Operations
E&M Section File
File

Utah and Ouray Agency
Environmental Analysis and Negative Declaration

1. Description of Proposal:

Natural Gas Corp. of California proposes to drill an gas well# NGC#23-24
to a proposed depth of 9,500 feet; to construct approximately 7,000 ft miles of new access road;
and upgrade approximately none miles of existing access road. The well site is located approximately
15 miles East of Ouray, Utah in the NESW, Sec. 24, T8S, R21E, SLM.

2. Description of the Environment: 2,035' FWL and 1,980' FSL.

The area is used for livestock grazing, wildlife, recreation, hunting scenic qualities
and oil and gas drilling and production. The topography is an undulating
alluvial plain with silty to sandy soils. The vegetation consists of
Indian rice grass, galleta grass, 4-winged salt bush, shadscale, horse brush,
greasewood, russian thistle.

The area is used as wildlife habitat for X deer, X antelope, elk,
bear, X small animals, pheasant, dove, sage grouse, ruffle grouse, blue grouse, bald eagle,
golden eagle, other rabbits, coyotes, small rodents, reptiles, raptors

The climate is characterized by having cold snowy winters and warm dry summers. Temperatures range from -40°F during the winter to 105°F in the summer. The approximate annual precipitation is 6-8 inches. The elevation is 4,819 feet.

3. Environmental Impacts:

During construction of the well dust and exhaust emissions will affect air quality. Soil and vegetation will be removed from 7 acres of land occupied by the well site and access road. The disturbance of the soil and removal of vegetation will:

A. Destroy wildlife habitat for X deer, X antelope, elk, bear, X small animals, pheasant, dove, sage grouse, ruffle grouse, blue grouse, X rabbit, golden eagle, bald eagle, other small rodents, reptiles.

B. Remove from production: X rangeland for livestock grazing, irrigated cropland, irrigated pastureland, prime timberland, pinion-juniper land.

C. Result in the invasion of annual weeds and will cause accelerated soil erosion: During the construction and production of the well human activity in the area will increase significantly. This is expected to significantly increase: X poaching of wildlife, X disturbance of wildlife, X vandalism of property, X theft of firewood, X litter accumulations, X livestock disturbance, X livestock thefts, X livestock loss to accidents, X increase the hazard to public health and safety. There is a X high, moderate, slight possibility that pollution from this activity will enter a stream or lake.

Production facilities can easily be seen from a: community, major highway, public facility.

4. Mitigating measures:

To lessen the impact on the environment the provisions stipulated in the letter to Mr. Ed W. Gynn, District Engineer, U.S. Geological Survey, dated February 13, 1980 will be implemented. Additional stipulations and changes to the 11 point surface use plan are: (1) changes made at on-site inspection and included in mineral management service environmental assessment #388-82 (2) operator will obtain all the right-of-way and permits required by the BIA and Ute Tribe (3) operator will assume a continuing responsibility for all adverse impacts related to the oil and gas drilling and production activities and will correct or mitigate at the request of BIA and MMS.

5. Unavoidable adverse effects:

None of the adverse effects listed in item #3 above can be avoided in a practical manner except those which were mitigated in item #4 above.

6. Relationship between short term and longterm productivity:

As long as oil or gas wells are producing and the access roads are retained there will be a total loss of production on the land and the Environmental Impacts will continue to affect the surrounding area. Normally oil and gas wells produce from 15 to 30 years. After the wells stop producing it is standard policy to restore the surface to near its original condition. Occasionally the site occupied by the well or road can be restored to produce as much as it originally produced, but most of the time it can not be restored to its original productive capacity. Therefore, the land surface productive ability will be permanently damaged.

7. Irreversible and Irretrievable commitment of Natural Resources:

There are two irreversible and irretrievable resources commit in this action.

A. Oil or Gas: Oil and gas is a non-renewable resource. Once it has been removed it can never be replaced.

B. Damage to the land surface: There are three causes of damage to the soil surface due to oil or gas wells and road construction. (1) Gravel is normally hauled onto the site as a pad foundation for equipment and traffic to operate on. Gravel has low fertility and low waterholding capacity. Therefore, after the site is restored the gravel must either be removed, or incorporated into the natural landscape. (2) Chemicals are often either accidentally spilled or intentionally applied to the site for weed and dust control. Generally the chemicals are crude oil or production water, which may contain as much as 20,000 PPM of salts. Once chemicals become incorporated in the soil they are difficult to remove and interfere with the soils ability to produce vegetation. (3) Soil compaction occurs where the site is subject to sunny wet weather and traffic from heavy trucks and equipment. Each of the above items cause soil damage and after the site is restored the productive ability of the soil will be damaged permanently.

8. Alternatives:

A. No. program - This alternative refuses the authorization of the application for permit to drill. This action would not allow the operator to enter upon the land surface to drill for oil or gas. Because the minerals usually cannot be developed without encroachment on the surface, the mineral estate is normally and traditionally designated as dominant, and the surface ownership subservient. The mineral operator's conduct is generally prescribed only by the rule of reasonableness and the limitations that he is not permitted to act in a wanton or negligent manner. Within their confines, the operator has considerable latitude in the necessary use of the surface to produce and develop the mineral estate. Therefore if the application for permit is not signed, the operator would undoubtedly initiate court proceedings against the surface owner, in this case the Ute Tribe and the Bureau of Indian Affairs. Historically the courts have upheld the right of the mineral owner to develop the mineral resource regardless of the surface owners desire, therefore the operators rights will likely be upheld if B.I.A. refuses to sign the application for permit to drill this well.

B. Sign the application for permit to drill. This alternative authorizes the operator to drill for oil or gas as prescribed in the application, providing he complies with stipulations which are considered reasonable as specified in paragraph 4 above under mitigating measures.

9. Consultation:

Bill Ryan - Natural Gas Corporation of California

Bob Cook - Casada Construction

Leonard Heeney - Ross Construction

Dick Peatross - Skewes and Hamilton Construction

Ed Kurip - Ute Tribe Energy and Minerals

Bob Jenks - Ute Tribe Energy and Minerals

R. Lynn Hall

R. Lynn Hall 6-29-82
B.I.A. Representative

10. We (concur with or, recommend) approval of the Application for Permit to Drill the subject well.

Based on available information 6-29-82, we have cleared the proposed location in the following areas of environmental impact:

Yes No Listed threatened or endangered species

Yes No Critical wildlife habitat

Yes No Historical or cultural resources

Yes No Air quality aspects (to be used only if project is in or adjacent to a Class I area of attainment)

Yes No Other (if necessary)

Remarks: _____

The necessary surface protection and rehabilitation requirements are specified above.

R. Lynn Hall

R. Lynn Hall

B.I.A. Representative

11. Declaration:

It has been determined that the drilling of the above well is not a Federal action significantly affecting the quality of the environment as would require the preparation of an environmental statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (c).

[Signature]

Superintendent

Ten Point Plan
 Well #23-24 South Wonsits Valley
 Section 24, T.8S., R.21E.
 Uintah County, Utah

1. Surface Formation: Green River
2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River	1718	3101
Parachute Creek	2453	2366
H	4078	741
K	4758	61
L	5008	- 189
Tgr Lime	5358	- 539
Wasatch	5658	- 839
Mesaverde	8458	-3639
TD	9619	-4800

3. Producing Formation Depth: 5658 - T.D.

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>
17-1/2"	13-3/8"	48#, H-40	80'	New
12-1/4"	9-5/8"	36#, K-55	2000'	New
7-7/8"	5-1/2"	17#, N-80	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 9-5/8" surface casing. BOP system including the casing will be pressure tested to a minimum of 3000 psi for 30 min. prior to drilling and will be mechanically checked daily during drilling operations.

6. Mud Program:

<u>Interval</u>	<u>Mud Weight lbs./gal.</u>	<u>Viscosity Sec./Qt.</u>	<u>Fluid Loss ML/30 mins.</u>	<u>Mud Type</u>
0-2500	Clear Water		No Control	Water Gel
2500-TD	9.5	35	10cc/less	Brine

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: One core in the Green River 4979-5039; one possible core in the Green River Lime.

c) Sampling: Samples will be taken on 10' intervals from 2000' to T.D.

d) Logging:

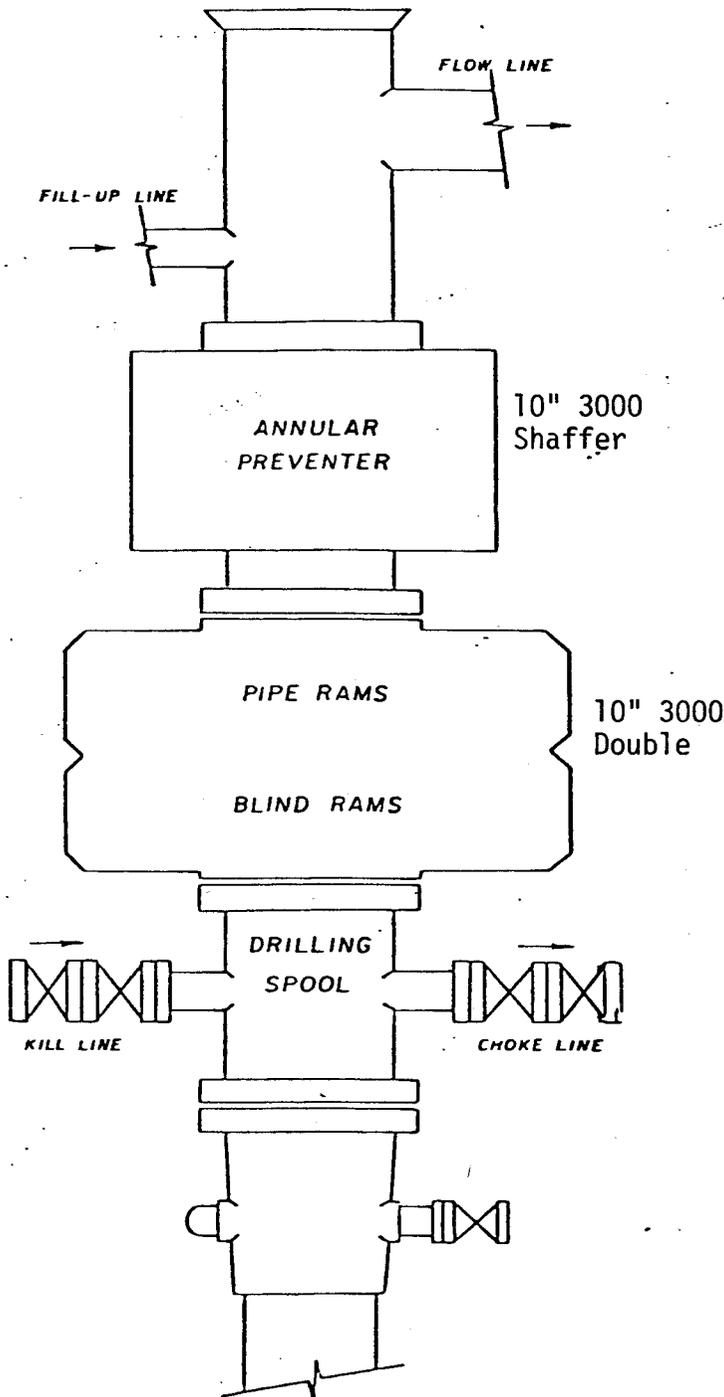
<u>Type</u>	<u>Interval</u>
1) DIL w/GR	Surface - T.D.
2) BHC Sonic w/GR Cal & "F" log overlay	"
3) CNL/FDC w/GR	Potential pay zones

9. Abnormalities (including sour gas): No abnormal temperatures, pressures or other potential hazards are anticipated.

10. Drilling Schedule: Anticipated starting date is August 1, 1982 with duration of operations expected to last 30 days.

NATURAL GAS CORPORATION
OF
CALIFORNIA
BOP AND PRESSURE CONTAINMENT DATA

NGC #23-24 South Wonists Valley
Section 24, T.8S., R.21E.
Uintah 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

Well Location

NGC #23-24 Federal

Located in

Section 24, T.8S., R.21E.

Uintah County, Utah

1. EXISTING ROADS

See attached topographic map A . To reach Natural Gas Corporation of CA's well location NGC #23-24 South Wonsits Valley, proceed east from Vernal, UT along U.S. Highway 40 13 miles to its junction with Utah State Highway 245 to the south. Proceed in a southerly direction along Utah State Highway 245 ±17.6 miles to Red Wash, Utah; proceed westerly from Red Wash, Utah on a Uintah County Road (Glen Bench Rd.) 11 miles to the junction of this road and an existing dirt road to the west. Proceed westerly along this road 1.7 miles to its junction with the proposed access road, then one mile north following the above ground pipeline. There are no improvements planned on these roads at this time.

The above access is via county road or BIA administered lands and will not require off-lease right-of-ways from the BLM.

2. PLANNED ACCESS ROAD

See attached topographic map B .

The planned access road leaves the existing road described in Item #1 and proceeds north along the above ground pipeline then due west to the location.

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 - 5%.
- 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 - None. There will be two dry washes crossed along the above ground pipeline.
- 6) Surfacing materials - None.
- 7) Gates, cattleguards, or fence cuts - None.
- 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 - One oil well in the SW-NW of Section 24, T.8S., R.21E.
- 6) Producing Wells - None.
- 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 - none.
(2) Production facilities - none.
(3) Oil gathering lines - none.
(4) Gas gathering lines - none.
- B. (1) In the event production is established, plans for a gas pipeline from this location to the existing gathering lines will be submitted under an amendment to this plan for approval. 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 B.

Water will be trucked from the White River. The point of diversion will be at the Mt. Fuel Bridge. Application is being made to the Uintah and Ouray Agency for a water permit (see attached applications).

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. Olsen #2.

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 1200 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: 5 lbs./acre Western Wheatgrass
5 lbs/acre Thickspike Wheatgrass

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 soil is gravelly, loamy clay with 5% vegetation coverage consisting of 75% sagebrush, 15% other shrubs, 5% grass and 5% miscellaneous.
2. The surface is within the Uintah and Ouray Indian Reservation. Cattle and sheep are grazed in the area.
3. There are no occupied dwellings or other facilities including archaeological, historical, or cultural sites near the proposed location. The nearest water is the White River 3.0 miles to the southwest.
4. Off-lease right-of-ways will not be required from the BLM.

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.

June 18, 1982
Date

William A. Ryan
William A. Ryan, Petroleum Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
Uintah and Ouray Agency
Fort Duchesne, Utah 84026

PERMIT FOR USE OF WATER

1. Permission is granted to Natural Gas Corporation of California, hereinafter referred to as Permittee, by the Ute Indian Tribe, hereinafter referred to as Permitter, to use water for the purpose of an oil and/or gas well drilling operation located in Section 24, T.8S., R.21E., water to be drawn from in NE $\frac{1}{4}$ of Section 17, T.9S., R.22E..

2. In consideration of the water claimed by the Ute Indian Tribe, the Permittee will pay the sum of \$3,300.00 by check, payable to the Bureau of Indian Affairs.

3. The Permittee agrees:

a. The Permitter can make no guarantee as to amount of or time of year that such water will be available. It is understood that availability is totally dependent on the natural supply of water.

b. All facilities including, but not limited to pipe and pumps, installed by the Permittee must be of such nature and design so as not to in any way interfere with the delivery of irrigation water.

c. Upon completion or apparent abandonment of the oil and/or gas well for which this drilling permit is granted, the Permittee will repair any damages and remove or be responsible for the cost of removal of any facilities installed by the Permittee.

d. **LIABILITY:** Permittee is liable for all damages that result from his operations, or for injury to the Permitter or his property, including livestock; to lessees, licensees and surface owners. The Permittee agrees to save and hold harmless the Permitter and the United States and its officers, representatives and employees, and the surface owners or their tenants from all suits for injury or claims for damage to persons and property from the Permittee's operations under

this permit.

e. BOND: To guarantee performance under this permit, a bond is to be furnished as follows: Nationwide Oil and Gas Bond #

f. TERM: Permittee is granted use of water subject to conditions hereinabove stated for a period beginning with the date of approval of this permit, and ending December 31, 1982

g. All conditions of this permit are thoroughly understood and only those specifically stated herein are intended to be granted.

h. Issue copy of permit to each water hauler.

i. Remind company personnel that carrying firearms while on the Uintah and Ouray Reservation is prohibited.

PERMITTEE:

Natural Gas Corporation of California

By: Bill Ryan, Petroleum Engineer
(Name and title typed)

ATTEST:

Secretary, Uintah and Ouray Tribal
Business Committee

PERMITTER: THE UTE INDIAN TRIBE

By: Chairperson, Uintah and Ouray Tribal
Business Committee

APPROVED: _____

(date)

Superintendent, Uintah and Ouray Agency

APPLICATION FOR GRANT OF RIGHT-OF-WAY

Natural Gas Corporation of California

having a residence or principal place of business at 85 South 200 East, Vernal, UT 84078 hereby files an application with the Bureau of Indian Affairs, pursuant to the terms and provisions of the Act of February 5, 1948 (62 Stat. 17; 25 U.S.C. 323), and to the regulations of the Department of the Interior contained in Title 25, Code of Federal Regulations, Part 161, for the grant of a right-of-way for the following purposes and reasons:

To construct an access road and well location for well #23-24 South Wonsits Valley.

Across the following described Indian land:
Sec. 30, T.8S., R.22E.; Sec. 25 and 24, T.8S., R.21E.

Said right-of-way to be approximately 7,000 feet in length, 30 feet in width, and 7.18 (size or area), and more particularly described and shown on the map of definite location to be attached and made a part hereof.

The applicant understands and hereby expressly agrees to the following stipulations:

- a. To construct and maintain the right-of-way in a workmanlike manner.
- b. To pay promptly all damages and compensation, in addition to the deposit made pursuant to 161.4, determined by the Secretary to be due the landowners and authorized users and occupants of the land on account of the survey, granting, construction and maintenance of the right-of-way.
- c. To indemnify the landowners and authorized users and occupants against any liability for loss of life, personal injury and property damage arising from the construction, maintenance, occupancy or use of the lands by the applicant, his employees, contractors and their employees, or subcontractors and their employees.
- d. To restore the lands as nearly as may be possible to their original condition upon the completion of construction to the extent compatible with the purpose for which the right-of-way was granted.
- e. To clear and keep clear the lands within the right-of-way to the extent compatible with the purpose of the right-of-way; and to dispose of all vegetative and other material cut, uprooted, or otherwise accumulated during the construction and maintenance of the project.
- f. To take soil and resource conservation and protection measures, including weed control, on the land covered by the right-of-way.
- g. To do everything reasonably within its power to prevent and suppress fires on or near the lands to be occupied under the right-of-way.
- h. To build and repair such roads, fences, and trails as may be destroyed or injured by construction work and to build and maintain necessary and suitable crossings for all roads and trails that intersect the works constructed, maintained, or operated under the right-of-way.
- i. That upon revocation or termination of the right-of-way, the applicant shall, so far as is reasonably possible, restore the land to its original condition.

- j. To at all times keep the Secretary informed of its address, and in case of corporations, of the address of its principal place of business and of the names and addresses of its principal officers.
- k. That the applicant will not interfere with the use of the lands by or under the authority of the landowners for any purpose not inconsistent with the primary purpose for which the right-of-way is granted.

IN WITNESS WHEREOF, _____ has
 caused this instrument to be executed this _____ day
 of _____ 19 ____.

 WITNESS

William A Ryan

 APPLICANT

 WITNESS

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

SUPPORTING DOCUMENTS

- () Written consent of the landowners.
- () Evidence of good faith and financial responsibility.
- () \$4,180.00 estimated damages.
- () State certified copy of corporate charter or articles of incorporation.
- () Certified copy of resolution or bylaws of the corporation authorizing the filing of the application.
- () State certification that the applicant is authorized to do business in the State where the land is located.
- () Certified copy of the articles of partnership or association.
- (x) Map of definite location.
- () Other:

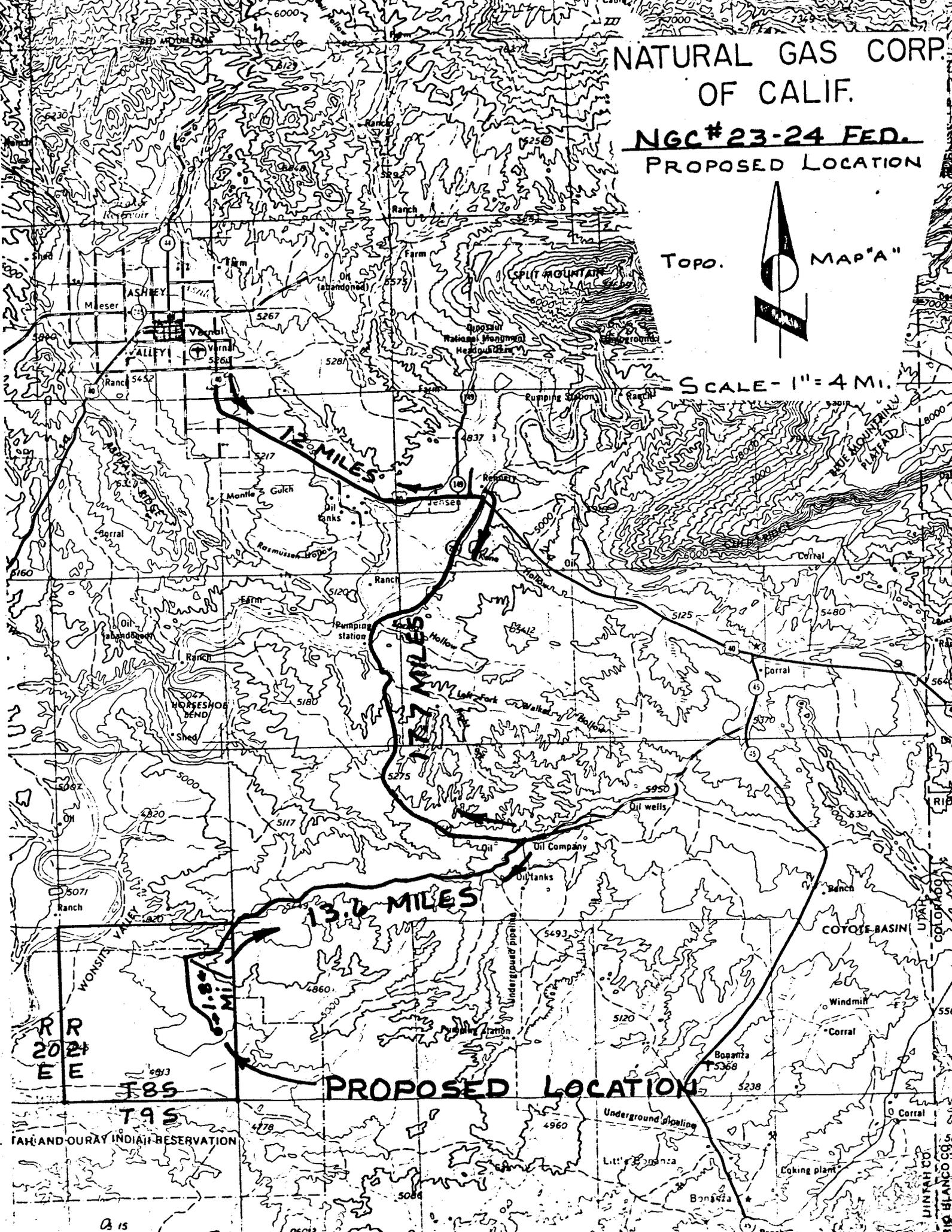
NATURAL GAS CORP. OF CALIF.

NGC#23-24 FED. PROPOSED LOCATION



TOPO. MAP "A"

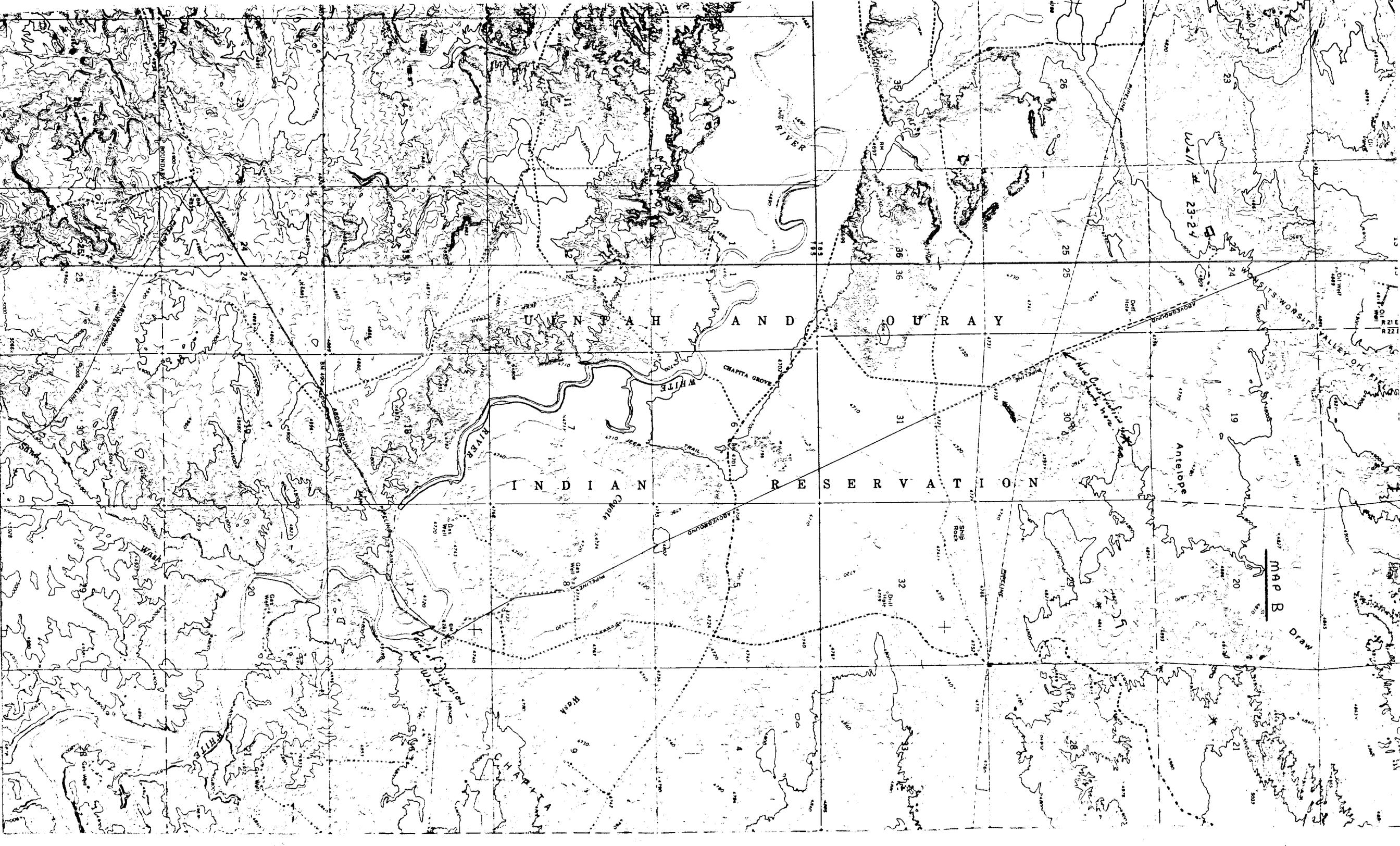
SCALE - 1" = 4 MI.



PROPOSED LOCATION

TAH AND OURAY INDIAN RESERVATION

UNITH CO
RIS BLANCO CO



UNK AND OURAY
INDIAN RESERVATION

MAP B

Antelope

Snake River

White River

Chapita Grove

SNAKE ROCK

Snake River

White River

Wagon

Trail

23-24

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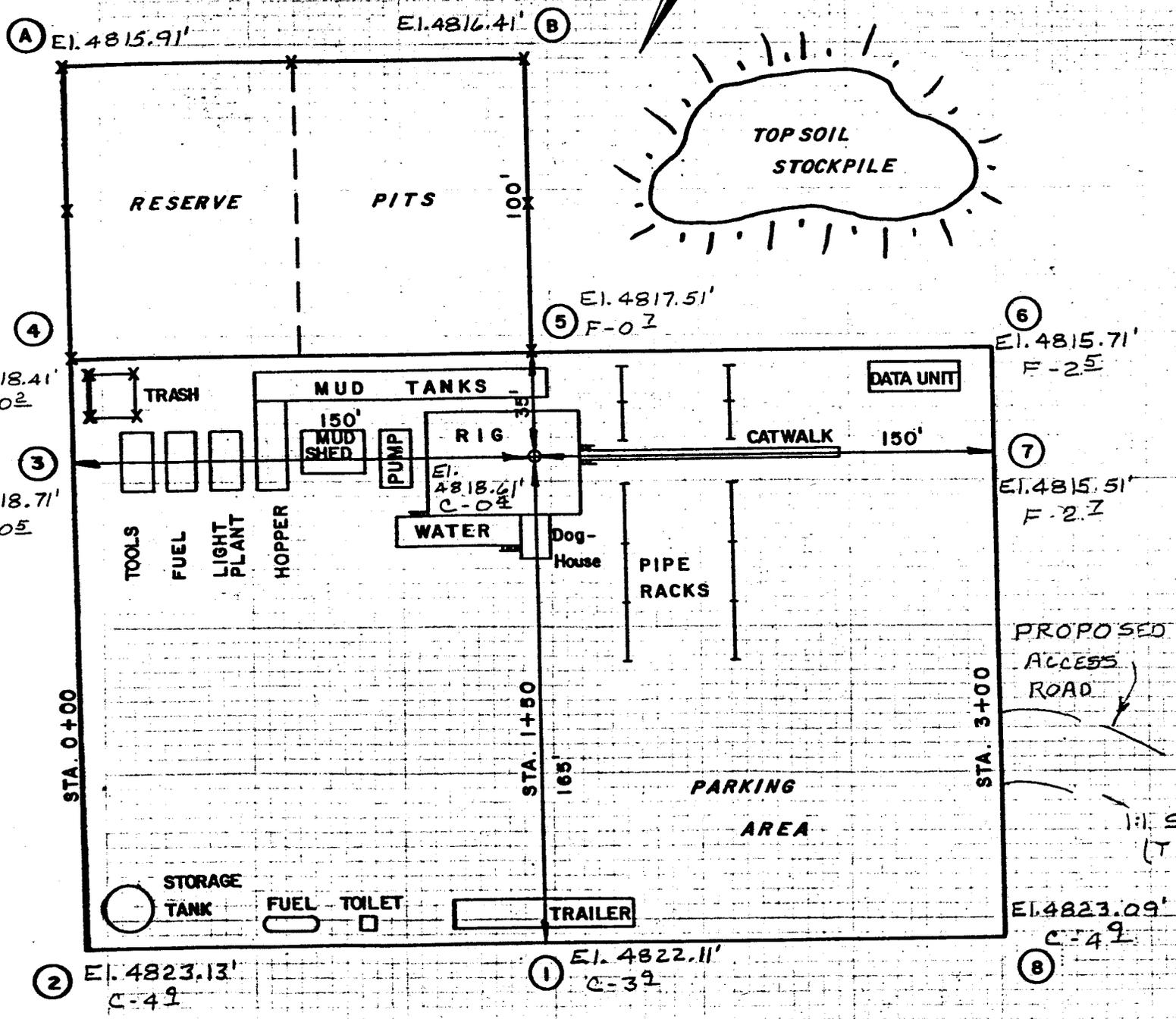
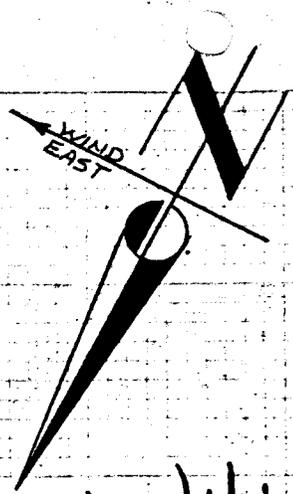
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SOILS LITHOLOGY

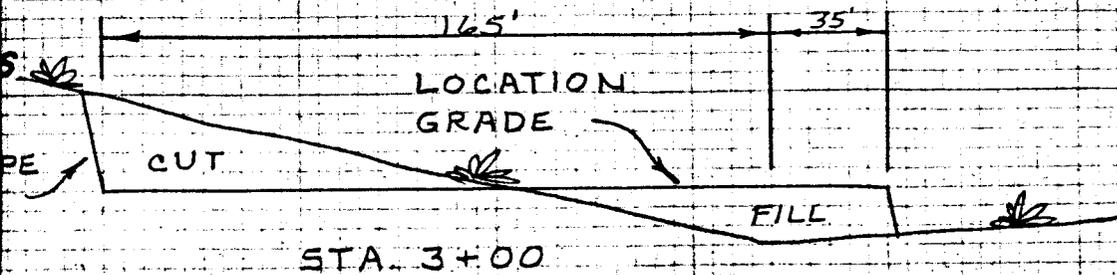
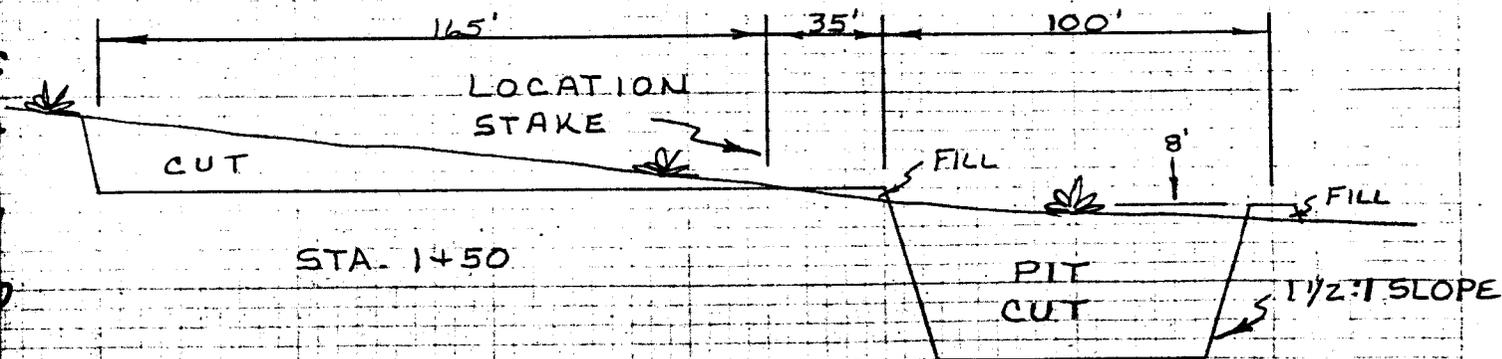
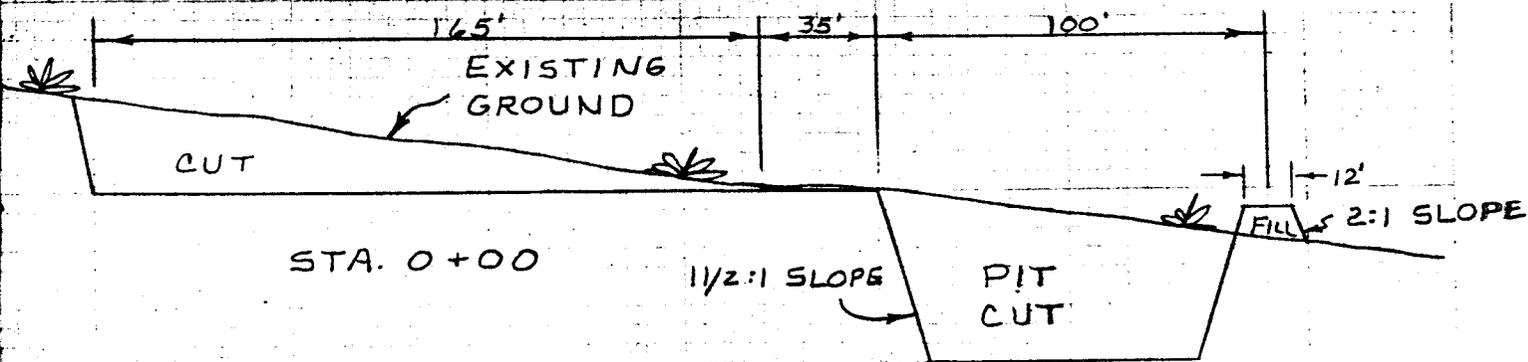
- No Scale -



NATURAL GAS CORP. OF CALIF.

NGC # 23-24 FED.

LOCATION LAYOUT & CUT SHEET



Scales

1" = 50'

APPROX. YARDAGES

Cubic Yards Cut - 9373

Cubic Yards Fill - 639

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

June 11, 1982

Bureau of Indian Affairs
U. S. Dept. of Interior
Uintah and Ouray Agency
Fort Duchesne, UT 84026

Re: South Wonsits Valley #23-24
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T.8S., R.21E.
Uintah County, Utah

Gentlemen:

We propose to drill the subject well on Lease no. 38046. The surface is owned by the Ute Indian Tribe and located within the Uintah and Ouray Reservation.

Our offer for surface damages is \$750 per acre for surface disturbance on the location pad and \$500 per acre on the access road. We estimate the surface disturbance at 2.36 acres for the location and 4.82 acres for the access road, and the surface damage fee at \$4,180.

After the site has been constructed, a survey will be conducted to determine the actual amount of surface disturbance.

Also enclosed is a permit for use of water. The point of diversion would be at the Mt. Fuel bridge. We would appreciate being notified if this offer is acceptable.

Yours truly,

Wm Ryan

William A. Ryan
Petroleum Engineer

WAR/kh

Encls.

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078

June 18, 1982

Minerals Management Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104
Attn: E. W. Guynn

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

Re: NGC #23-24 Federal
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 24, T.8S., R.21E.
Uintah County, UT
Wonsits Valley area

Gentlemen:

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

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

Should you require additional information, please contact this office. Your early consideration and approval would be appreciated.

Yours truly,

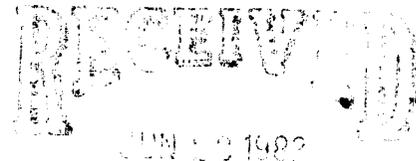
William A. Ryan

William A. Ryan
Petroleum Engineer

/kh

Encls.

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



DIVISION OF
OIL, GAS & MINING

** FILE NOTATIONS **

DATE: June 28, 1982
OPERATOR: Natural Gas Corp.
WELL NO: N6C #23-24
Location: Sec. 24 T. 8S R. 21E County: Uintah

File Prepared:
Card Indexed:

Entered on N.I.D.:
Completion Sheet:

API Number 43-047-31253
Checked by: test well, spacing for watch only *Due to measure*
Petroleum Engineer: C-3
Director: _____
Administrative Aide: As Per Order Below C-3

However, as the location of this well is within the spaced area covered by the Order of Cause no. 187-2, the approval of this office is necessary prior to any completion attempt in the watch formation.

APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. 187-2, 82080 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 Fed. Plotted on Map
Approval Letter Written
Hot Line P.I.

July 1, 1982

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

RE: Well No. NGC #23-24
Sec. 24, T8S, R21E
Uintah County

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, as the location of this well is within the spaced area covered by the Order of Cause NO. 187-2, the approval of this office is necessary prior to any completion attempt in the Wasatch Formation.

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

CLEON B. FEIGHT
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 43-047-31253.

Sincerely,



RONALD J. FIRTH
CHIEF PETROLEUM ENGINEER

RJF:SC
cc: Minerals Management Service
Enclosure

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease **NATURAL GAS CORPORATION**
CIRCULATE HANDLE FILE NOTE

DISTRICT LAND OFFICE:
SERIAL NO.: U-38406

III 6 1982

and hereby designates

RJF _____ RDD _____
WAR _____ SLR _____
KMH _____

NAME: Natural Gas Corporation of California
ADDRESS: 7800 E. Union Ave.-Ste. 800
Denver, Co. 80237

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 8 South, Range 21 East, SLM
Sec. 23: SE $\frac{1}{4}$ SE $\frac{1}{4}$
Sec. 24: N $\frac{1}{2}$ S $\frac{1}{2}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$

containing 240 acres, m/1
Uintah County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

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

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST:

CHORNEY OIL COMPANY

By: *Arvid G. Dean*

By: *D. Paul Buehler*
(Signature of lessee)

6-30-82
(Date)

1860 Lincoln St-Ste. 401, Denver, Co. 80295
(Address)

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078

July 7, 1982

Mr. E. W. Guynn
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 Well #23-24 Federal
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T.8S., R.21E.
Federal Lease U-38406
Uintah County, UT

Gentlemen:

Attached is the Designation of Operator from Chorney Oil Company to
Natural Gas Corporation of California for the above captioned well.

Sincerely,

W.A. Ryan kh
W. A. Ryan
Petroleum Engineer

/kh

Attachment

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

RECEIVED
JUL 08 1982

DIVISION OF
OIL, GAS & MINING

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
Natural Gas Corporation of California

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FWL and 1980' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$)
AT TOP PROD. INTERVAL: of Sec. 24, T.8S., R.21E.
AT TOTAL DEPTH:

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

5. LEASE
U-38406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Uintah and Ouray

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC #23-24 South Wonsits Valley

10. FIELD OR WILDCAT NAME
Wonsits Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH; 13. STATE
Uintah Utah

14. API NO.
43-047-31253

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4819'

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

(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.)*

Operator proposes to change casing program as discussed with Jimmy Raffoul on Sept. 24, 1982 to 300' of 9-5/8", 36#, K-55 and 5 1/2", 17 1/2", N-80, set to T.D. Cementing will be done in two stages; *with sufficient cement volume to protect all oil and gas productive formations and the oil shale interval.*

* APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/27/82
BY: [Signature]

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

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

SIGNED Arick Lancaster TITLE Associate Engr. DATE 9/27/82

(This space for Federal or State office use)

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

cc: MYS; Div. OG&M; Operations; ERHenry

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078
September 27, 1982

Mr. E. W. Guynn
Minerals Management Service
1745 West 1700 South
2000 Administration Bldg.
Salt Lake City, UT 84102

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

Re: NGC #23-24 Federal
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T.8S., R.21E.
Uintah County, Utah
South Wonsits Valley

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,
Request for Approval to Change Casing Program, for the above referenced
well.

Sincerely,

Rick Canterbury kh
Rick Canterbury
Associate Engineer

/kh

Attachment

cc: Operations
C. T. Clark (Cover Letter Only)
E. R. Henry

RECEIVED
OCT 01 1982

DIVISION OF
OIL, GAS & MINING

NOTICE OF SPUD

Company: Natural Gas Corp. of Ca

Caller: Carla

Phone: _____

Well Number: 23-24

Location: NESW 24-8S-21E

County: Uintah State: Utah

Lease Number: U-38406

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 10-23-82 1:00 P.M.

Dry Hole Spudded/Rotary: _____

Details of Spud (Hole, Casing, Cement, etc.) _____

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: KR

Date: 10-25-82

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: NATURAL GAS CORPORATION OF CALIFORNIA

WELL NAME: 23-24

SECTION NESW 24 TOWNSHIP 8 S RANGE 21 E COUNTY Uintah

DRILLING CONTRACTOR Olsen Drilling

RIG # 5

SPUDED: DATE 10-23-82

TIME 1:00 PM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Karla

TELEPHONE # 789-4573

DATE 10-25-82 SIGNED AS

2

NATURAL GAS CORPORATION OF CALIFORNIA

85 South 200 East
Vernal, Utah 84078
October 25, 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

Mr. Sam Boltz, Jr.
Chorney Oil Company
1860 Lincoln, Suite 401
Denver, CO 80295

Mr. J. B. Dunnewald
Belco Petroleum Corporation
445 Union Blvd., Suite 209
Lakewood, CO 80228

Mr. J. L. Goolsby
Gulf Oil Exploration & Prod. Co.
P.O. Box 2619
Casper, WY 82602

Mr. Bob Gilmore
DeGolyer & MacNaughton
No. 1 Energy Square
Dallas, TX 75206

Re: NGC #23-24 Federal
NE SW Sec. 24, T.8S., R.21E.
Uintah County, UT
So. Wonsits Valley area

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,
Report of Spud Date, for the subject well.

Sincerely,

Rick Canterbury *kh*

Rick Canterbury
Associate Engineer

/kh

Attachment

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

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
Natural Gas Corporation of California

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FWL, 1980' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$)
AT TOP PROD. INTERVAL: Sec. 24, T.8S., R.21E.
AT TOTAL DEPTH:

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

5. LEASE
U-38406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC #23-24

10. FIELD OR WILDCAT NAME
So. Wonsits Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH
Utah

13. STATE
Utah

14. API NO.
43-047-31253

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4819'

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

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

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

Operator reports the spudding of the subject well October 23, 1982 at 1 p.m. by Olsen Drilling Rig 5.

Spud date reported orally to Minerals Management Service October 25, 1982.

RECEIVED
OCT 27 1982

Subsurface Safety Valve: Manu. and Type _____

DIVISION OF
OIL, GAS & MINING
Set @ _____ Ft.

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE October 25, 1982
Rick Canterbury

(This space for Federal or State office use)

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

cc: MMS; Div. OG&M; Chorney; Gulf; Belco; DeGolyer; Operations; CTClark; ERHenry; SFurtado

M

NATURAL GAS CORPORATION OF CALIFORNIA

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

November 29, 1982

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

Mr. J. B. Dunnewald
Belco Petroleum Corporation
200 Union Blvd., Suite 118
Lakewood, CO 80228

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

Mr. J. L. Goolsby
Gulf Oil Exploration & Prod. Co.
P.O. Box 2619
Casper, WY 82602

Mr. Sam Boltz, Jr.
Chorney Oil Company
1860 Lincoln, Suite 401
Denver, CO 80295

Mr. Bob Gilmore
DeGolyer & MacNaughton
No. 1 Energy Square
Dallas, TX 75206

Re: NGC #23-24 Federal
NE SW Sec. 24, T.8S., R.21E.
Uintah County, UT
So. Wonsits Valley area

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,
Request for Approval to Abandon the subject well.

Sincerely,

Rick Canterbury

Rick Canterbury
Associate Engineer

/kh

Attachment

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

RECEIVED
DEC 01 1982
DIVISION OF
OIL, GAS & MINING

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
Natural Gas Corporation of California

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FWL and 1980' FSL (NE 1/4 SW 1/4)
AT TOP PROD. INTERVAL: Sec. 24, T.8S., R.21E.
AT TOTAL DEPTH:

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

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

SUBSEQUENT REPORT OF:

5. LEASE U-38406	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Uintah and Ouray	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Federal	
9. WELL NO. NGC #23-24 South Wonsits Valley	
10. FIELD OR WILDCAT NAME Wonsits Valley	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 24, T.8S., R.21E.	
12. COUNTY OR PARISH Uintah	13. STATE Utah
14. API NO. 43-047-31253	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 4819'	

(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.)*

Operator proposes to plug and abandon the subject well. There is 315' of 9-5/8" casing.

Plug no. 1 5200'-5000'
Plug no. 2 3500'-3300'
Plug no. 3 415'- 215'
Plug no. 4 15 sacks at surface

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 12/20/82
BY: [Signature]

Oral plugging instructions were received from Jimmy Raffoul on November 9, 1982.

~~DIVISION WAS NOT ADVISED NOR WERE PLUGGING PROCEDURES APPROVED PRIOR TO PLUG & ABANDONMENT OPERATIONS - PLEASE ADVISE DIVISION IN THE FUTURE PRIOR TO P&A OPERATIONS.~~

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

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE November 29, 1982
RTCK Canterbury

(This space for Federal or State office use)

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

cc: MMS; Div. OG&M; Chorney; Belco; Gulf; DeGolyer; Operations; CTClark; ERHenry; SFurtado

CORE ANALYSIS RESULTS

for

NATURAL GAS CORPORATION OF CALIFORNIA
23-24 FEDERAL-SOUTH WONSITS VALLEY WELL
RED WASH FIELD
UINTAH COUNTY, UTAH

DIVISION OF
MINE GAS & MINING

DEC 19 1982

RECEIVED
MINE GAS & MINING

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 1

NAT. GAS CORP. OF CALIFORNIA
 23-24 FED.-S. WONSITS VALLEY
 RED WASH FIELD
 UINTAH COUNTY, UTAH

DATE : 11-1-82
 FORMATION : GREEN RIVER
 DRG. FLUID: WRM
 LOCATION : NE SW SEC. 24 T8S R21E

FILE NO : 3807-000021
 ANALYSTS : R. MOHL
 ELEVATION: 4819 GL

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM K _a MAXIMUM	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN		DESCRIPTION
	4859.0-83.0							SHALE-NO ANALYSIS
1	4883.0-84.0	0.61	2.2	42.8	48.1	2.68	OVF	SHL SDY SL/LMY
2	4884.0-85.0	0.06	3.3	42.2	21.1	2.65	CVF	SD VFG S & P SL/LMY
3	4885.0-86.0	0.05	4.4	43.3	20.6	2.65	OVF	SD VFG S & P SL/LMY
	4886.0-01.0							SHALE-NO ANALYSIS
	4901.0-02.0							LOST CORE
	4902.0-19.0							SHALE-NO ANALYSIS
4	4919.0-20.0	0.01	1.8	43.8	38.4	2.65		SD VFG V/SLTY SHLY SL/LMY
	4920.0-29.0							SHALE-NO ANALYSIS
5	4929.0-30.0	<0.01	1.7	67.4	23.7	2.66	CVF	SD VFG SLTY SHLY
	4930.0-79.0							SHALE-NO ANALYSIS

CVF=CLOSED VERTICAL FRACTURE OVF=OPEN VERTICAL FRACTURE

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 profitableness 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
DALLAS, TEXAS

NAT. GAS CORP. OF CALIFORNIA
23-24 FED.-S. WONSITS VALLEY

DATE : 11-1-82
FORMATION : GREEN RIVER

FILE NO. : 3807-000021
ANALYSTS : R. MOHL

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 4859.0 TO 4979.0

FEET OF CORE ANALYZED : 5.0 FEET OF CORE INCLUDED IN AVERAGES: 5.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.) : 0.00 TO 1.0 (UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%) : 0.0 TO 100.0
OIL SATURATION RANGE (%) : 0.0 TO 100.0
WATER SATURATION RANGE (%) : 0.0 TO 100.0

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 4859.0 TO 4979.0

AVERAGE PERMEABILITY (MILLIDARCIES)		PRODUCTIVE CAPACITY (MILLIDARCY-FEET)	
ARITHMETIC PERMEABILITY	: 0.15	ARITHMETIC CAPACITY	: 0.73
GEOMETRIC PERMEABILITY	: 0.04	GEOMETRIC CAPACITY	: 0.18
HARMONIC PERMEABILITY	: 0.01	HARMONIC CAPACITY	: 0.05
AVERAGE POROSITY (PERCENT)	: 2.7	AVERAGE TOTAL WATER SATURATION (PERCENT OF PORE SPACE)	: 28.0
AVERAGE RESIDUAL OIL SATURATION (PERCENT OF PORE SPACE)	: 46.1	AVERAGE CONNATE WATER SATURATION ** (PERCENT OF PORE SPACE)	:

** ESTIMATED FROM TOTAL
WATER SATURATION.

PERMEABILITY VS POROSITY

COMPANY: NAT. GAS CORP. OF CALIFORNIA
 FIELD : RED WASH FIELD

WELL : 23-24 FED.-S. WONSITS VALLEY
 COUNTY, STATE: UINTAH COUNTY, UTAH

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
4859.0 - 4979.0	1 (+)	0.001	1.0	0.0	5.0	2.7	0.15	0.01	0.04

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :
 $\text{LOG}(K) = (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}$
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT})$

RANGE	EQUATION OF THE LINE
1	$\text{PERM} = \text{ANTILOG}((0.7585)(\text{POROSITY}) + -3.4849)$

10

GREEN RIVER Fm.

PERMEABILITY: MILLIDARCIES

1

0.1

0.01

0.0

2.0

4.0

6.0

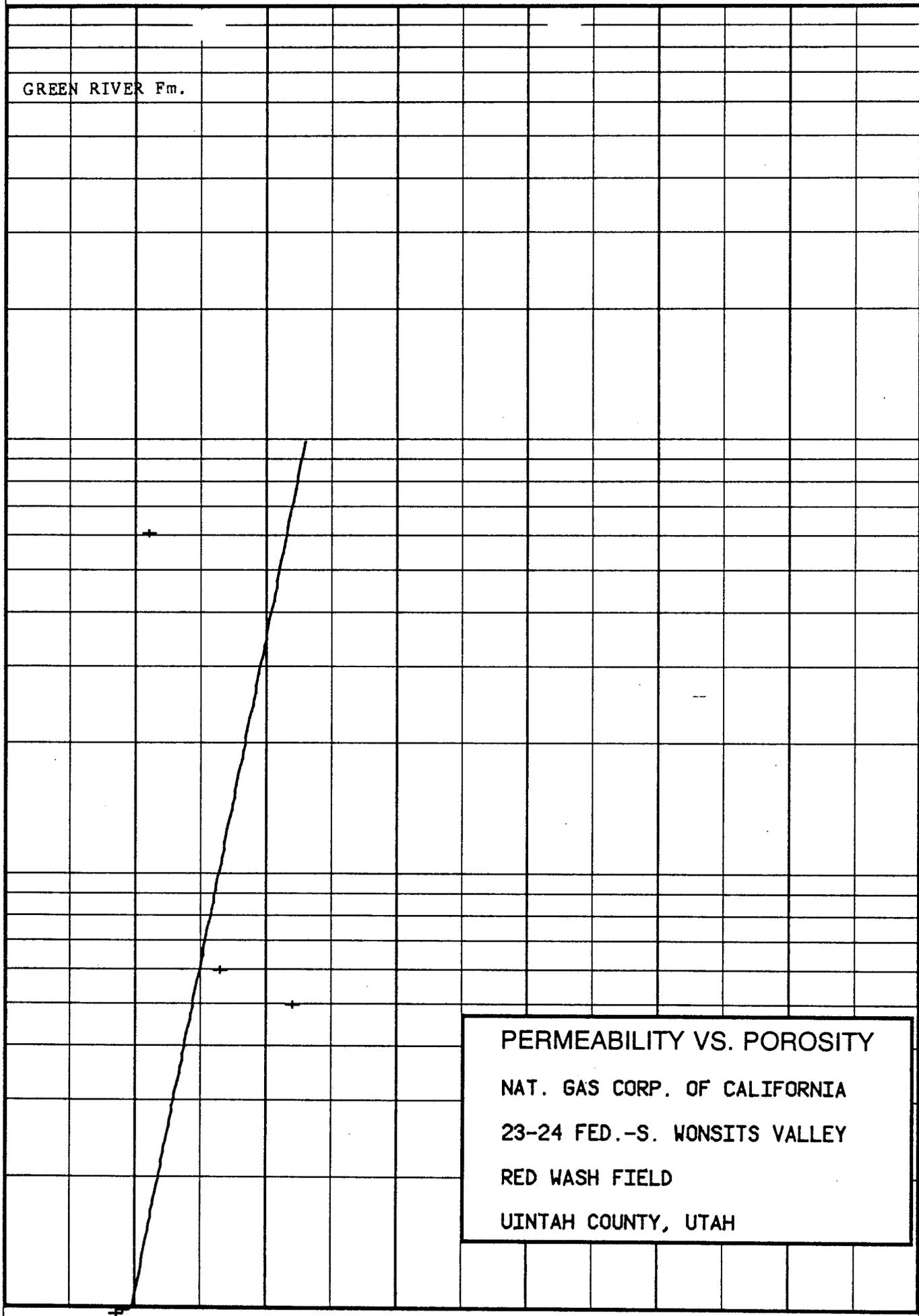
8.0

10.0

12.0

POROSITY: PERCENT

PERMEABILITY VS. POROSITY
 NAT. GAS CORP. OF CALIFORNIA
 23-24 FED.-S. WONSITS VALLEY
 RED WASH FIELD
 UINTAH COUNTY, UTAH



STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: NAT. GAS CORP. OF CALIFORNIA WELL : 23-24 FED.-S. WONSITS VALLEY
 FIELD : RFD WASH FIELD COUNTY, STATE: Uintah County, Utah

AIR PERMEABILITY : MR. (HORIZONTAL) RANGE USED 0.001 TO 1.
 POROSITY : PERCENT (HELIUM) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 4859.0 - 4979.0 INTERVAL LFNGTH : 120.0
 FEET ANALYZED IN ZONE : 5.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GFOMETRIC
2.7	0.15	0.01	0.04

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: NAT. GAS CORP. OF CALIFORNIA
 FIELD : RED WASH FIELD

WELL : 23-24 FED.-S. WONSITS VALLEY
 COUNTY, STATE: UINTAH COUNTY, UTAH

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	(ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	2.0	1.8	0.007	0.007	40.0	40.0
2.0 - 4.0	2.0	2.8	0.191	0.335	40.0	80.0
4.0 - 6.0	1.0	4.4	0.050	0.050	20.0	100.0

TOTAL NUMBER OF FEET = 5.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: NAT. GAS CORP. OF CALIFORNIA
 FIELD : RED WASH FIELD

WELL : 23-24 FED.-S. WONSITS VALLEY
 COUNTY, STATE: UINTAH COUNTY, UTAH

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	1.0	0.005	0.005	1.7	20.0	20.0
0.010 - 0.020	1.0	0.010	0.010	1.8	20.0	40.0
0.039 - 0.078	2.0	0.055	0.055	3.8	40.0	80.0
0.312 - 0.625	1.0	0.610	0.610	2.2	20.0	100.0

TOTAL NUMBER OF FEET = 5.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: NAT. GAS CORP. OF CALIFORNIA
 FIELD : RED WASH FIELD

WELL : 23-24 FED.-S, WONSITS VALLEY
 COUNTY, STATE: UINTAH COUNTY, UTAH

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
-----	-----	-----	-----	-----	-----	-----
0.0	0.0	0.0	5.0	100.0	2.7	2.5
2.0	2.0	26.1	3.0	73.9	3.3	
4.0	4.0	67.2	1.0	32.8	4.4	
6.0	5.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 13.4

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

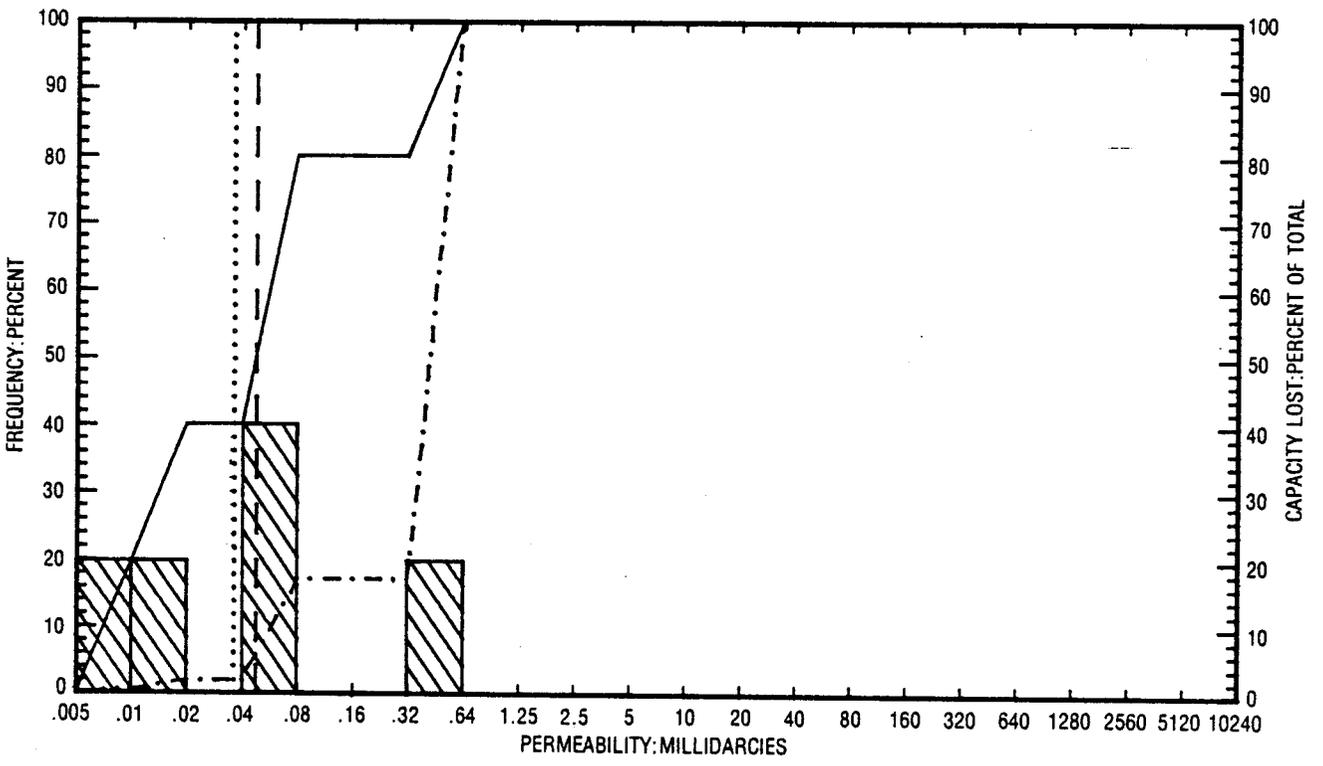
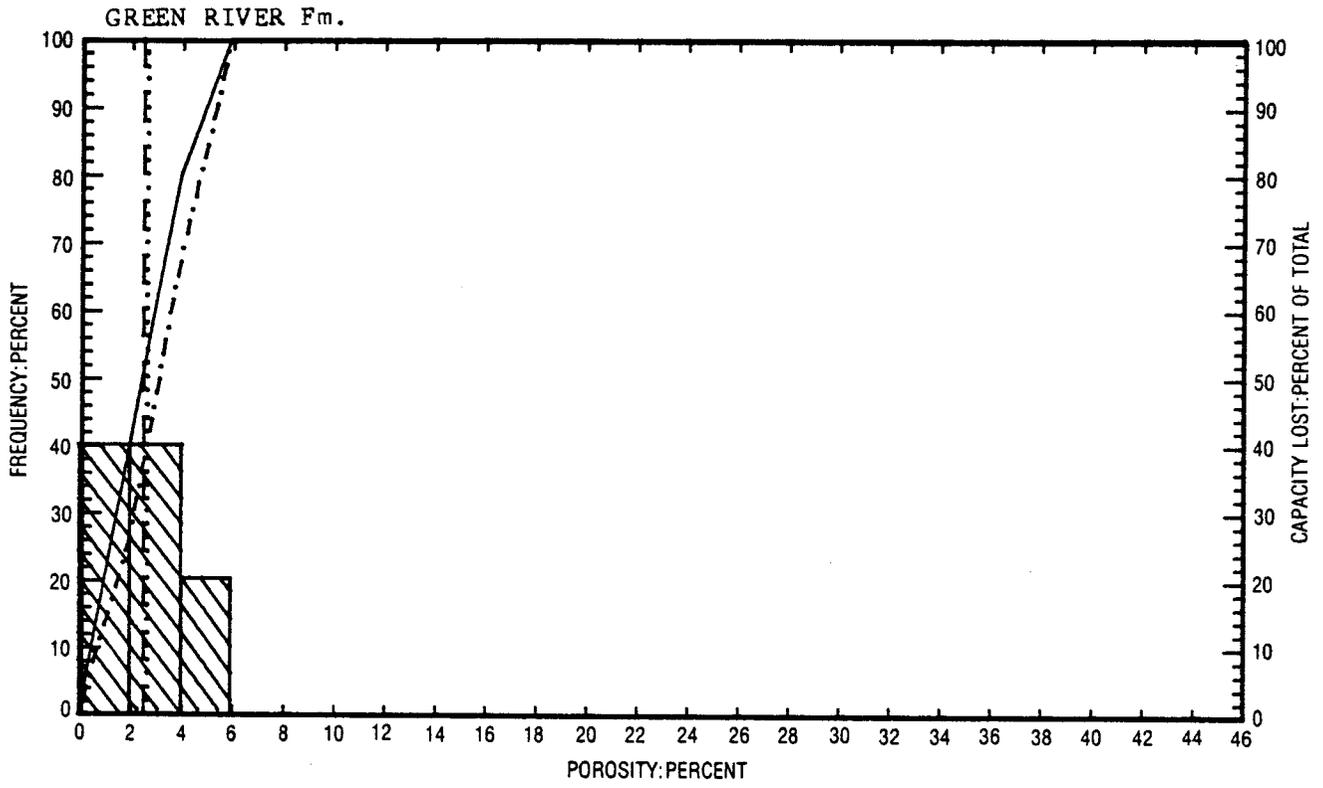
COMPANY: NAT. GAS CORP. OF CALIFORNIA
 FIELD : RFD WASH FIELD

WELL : 23-24 FED.-S. WONSITS VALLEY
 COUNTY, STATE: UINTAH COUNTY, UTAH

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	5.0	100.0	0.04	0.05
0.010	1.0	0.7	4.0	99.3	0.07	0.06
0.020	2.0	2.0	3.0	98.0	0.12	
0.039	2.0	2.0	3.0	98.0	0.12	
0.078	4.0	17.0	1.0	83.0	0.61	0.44
0.156	4.0	17.0	1.0	83.0	0.61	
0.312	4.0	17.0	1.0	83.0	0.61	
1.	5.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 0.73



PERMEABILITY AND POROSITY HISTOGRAMS

NAT. GAS CORP. OF CALIFORNIA
 23-24 FED.-S. WONSITS VALLEY
 RED WASH FIELD
 UINTAH COUNTY, UTAH

LEGEND
 ARITHMETIC MEAN POROSITY
 GEOMETRIC MEAN PERMEABILITY
 MEDIAN VALUE - - - - -
 CUMULATIVE FREQUENCY _____
 CUMULATIVE CAPACITY LOST - . - . - .



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY NATURAL GAS CORPORATION of CALIFORNIA FILE NO. 3807-000021
 WELL 23-24 FEDERAL-S. WONSITS VALLEY DATE 11-1-82 ENGRS. R. MOHL
 FIELD RED WASH FORMATION GREEN RIVER ELEV. 4819 GL
 COUNTY UINTAH STATE UTAH DRLG. FLD. WBM CORES _____

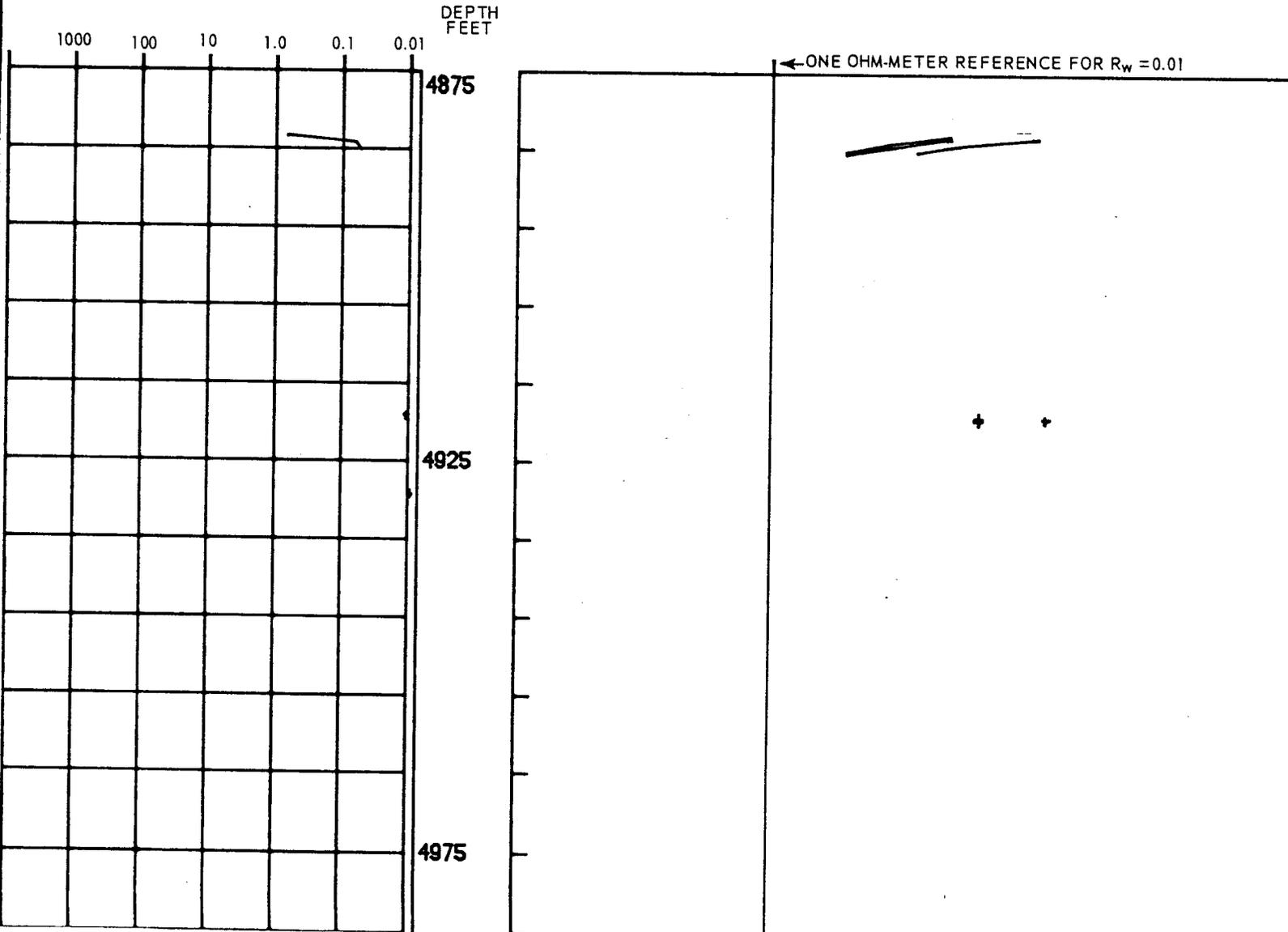
CoRes Log
CORE and RESISTIVITY EVALUATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best 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, proven operation or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

RESISTIVITY PARAMETERS: a = 1.00 m = 1.76 n = 1.89 . Depths 4859 to 4979 .
 a = _____ m = _____ n = _____ . Depths _____ to _____ .

PERMEABILITY
 MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY
 R₀ = OHM-METERS AT 100% S_w _____
 R_{mp} = OHM-METERS AT CRITICAL S_w _____





CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY NAT. GAS CORP. OF CALIFORNIA FILE NO. 3807-000021
 WELL 23-24 FED.-S. WONSITS VALLEY DATE 11-1-82
 FIELD RED WASH FORMATION GREEN RIVER ELEV. 4819 GL
 COUNTY UINTAH STATE UTAH DRLG. FLD. WBM CORES _____
 LOCATION NE SW SEC. 24 T8S R21E

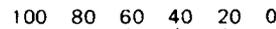
CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or 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 operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

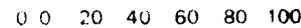
Total Water _____

PERCENT PORE SPACE



Oil Saturation _____

PERCENT PORE SPACE



Gamma Ray

RADIATION INCREASE →

Permeability $\times .1$

MILLIDARCIES



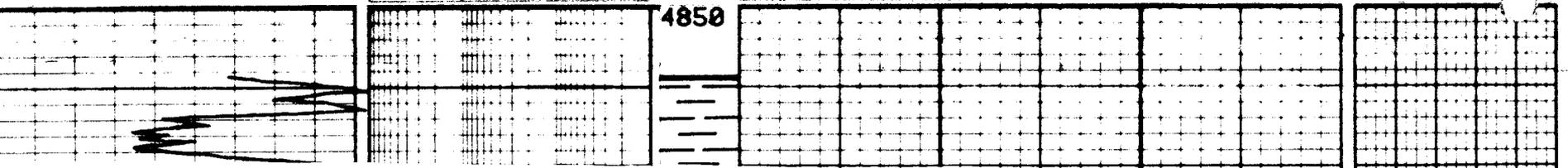
Porosity _____

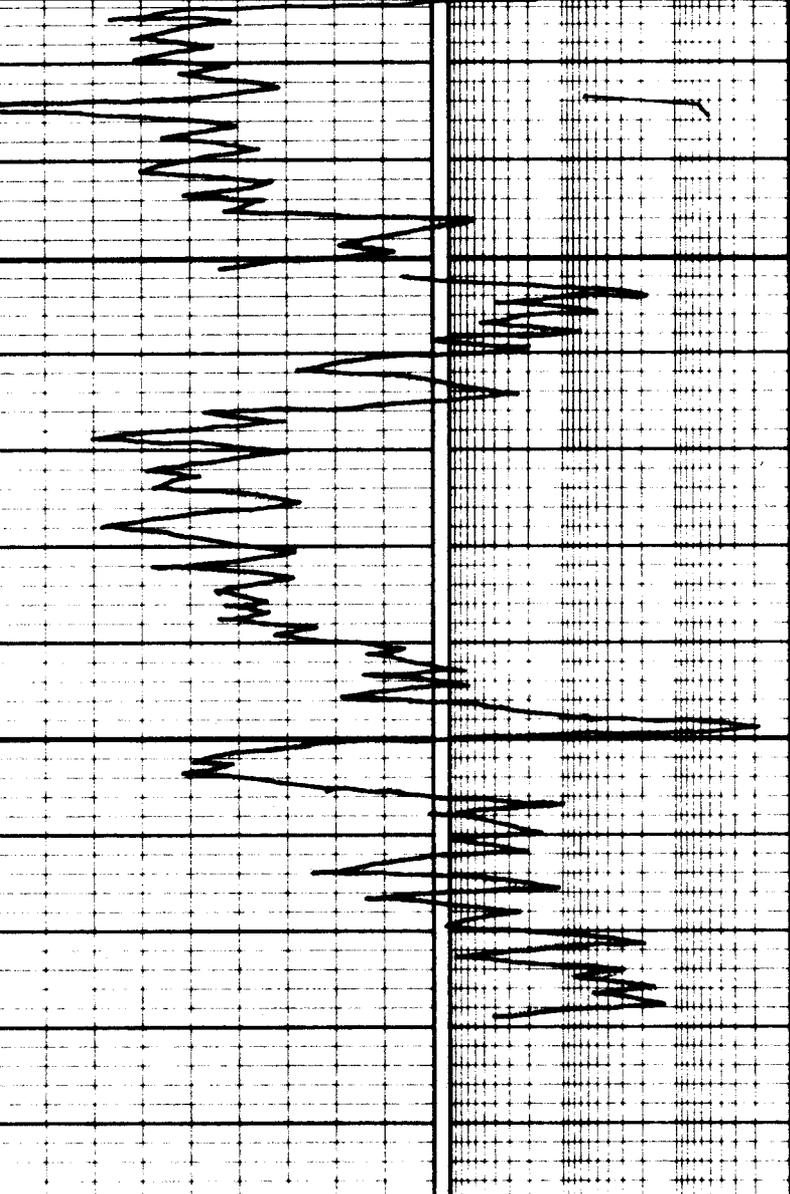
PERCENT



Depth Feet

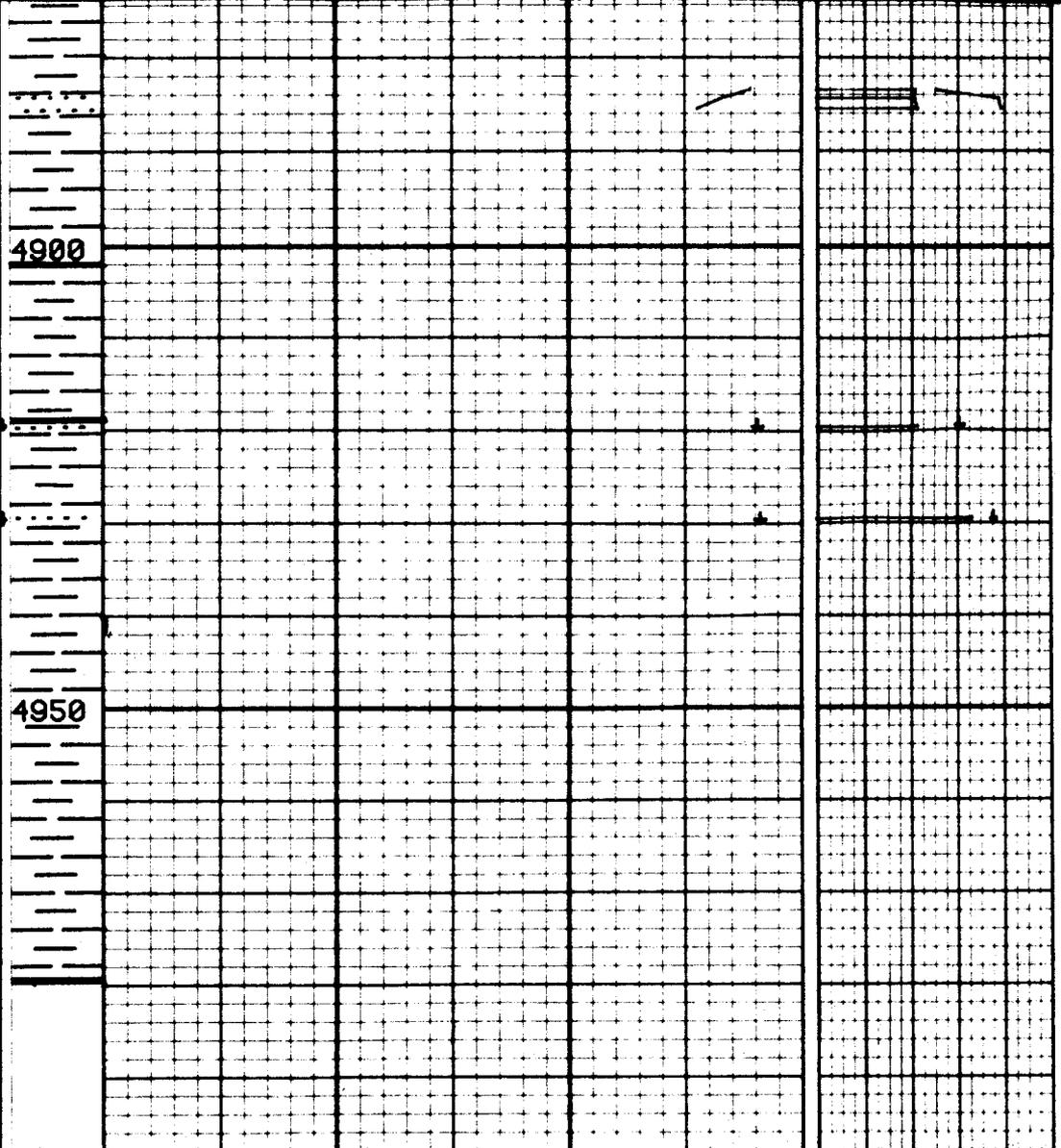
4850





4900

4950



Contractor Olsen Drilling Co.
 Rig No. 5
 Spot NE-SW
 Sec. 24
 Twp. 8S
 Rng. 21E
 Field Wonsits Valley
 County Uintah
 State Utah
 Elevation 4819' GL
 Formation Parachute Creek L

Top Choke 1/4"
 Bottom Choke 1"
 Size Hole 7 7/8"
 Size Rat Hole --
 Size & Wt. D. P. 4" 14.40
 Size Wt. Pipe --
 I. D. of D. C. 2 1/4"
 Length of D. C. 690'
 Total Depth 5850'
 Interval Tested 5005' - 5037'
 Type of Test Inflate
Straddle

Flow No. 1 15 Min.
 Shut-in No. 1 30 Min.
 Flow No. 2 60 Min.
 Shut-in No. 2 120 * Min.
 Flow No. 3 -- Min.
 Shut-in No. 3 -- Min.

Bottom Hole Temp. 120°F
 Mud Weight 9.4
 Gravity --
 Viscosity 43

Tool opened @ 1:00am

Outside Recorder

PRD Make Kuster K-3
 No. 7653 Cap. 4000 @ 5011'

	Press	Corrected
Initial Hydrostatic	A	2574
Final Hydrostatic	K	2450
Initial Flow	B	82
Final Initial Flow	C	68
Initial Shut-in	D	72
Second Initial Flow	E	72
Second Final Flow	F	77
Second Shut-in	G	*
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, WY
 Our Tester: Charles Tuzicka
 Witnessed By: Jim Wright

Did Well Flow - Gas No Oil No Water No

RECOVERY IN PIPE: 35' Drilling mud = 0.2 bbl.

Top Sample R.W.: 2.0 @ 60°F = 3500 ppm. Cl.

Blow Description:

1st Flow: Tool opened with a weak blow, increasing to a 1 1/2" underwater blow and remained thru flow period.

2nd Flow: Tool opened with a weak blow, increasing to a 1/2" underwater blow, died in 13 minutes and remained thru flow period.

* Lost packer seats after final flow period.

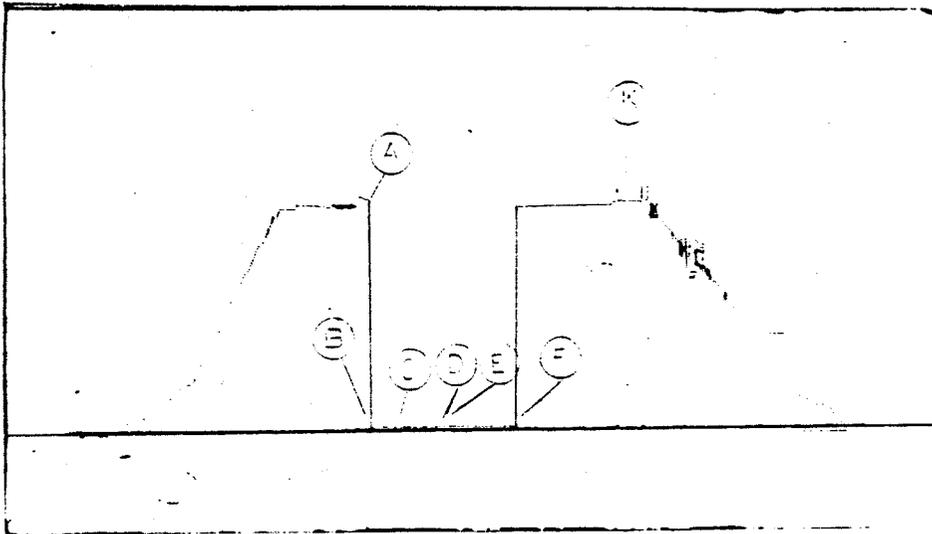
Operator Natural Gas Corporation of California Well Name and No. Federal #23-24
 Address See Distribution
 Ticket No. 27045
 Date 11-9-82
 No. Final Copies 14
 DST No. 1

LYNES, INC.

Natural Gas Corporation of California
Operator

Federal #23-24
Well Name and No.

1
DST No.



Inside Recorder

PRD Make Kuster K-3
No. 18731 Cap. 5125 @ 4987'
Press Corrected

Initial Hydrostatic	A	2540
Final Hydrostatic	K	2436
Initial Flow	B	37
Final Initial Flow	C	34
Initial Shut-in	D	37
Second Initial Flow	E	37
Second Final Flow	F	30
Second Shut-in	G	*
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Pressure Below Bottom
Packer Bled To

PRD Make _____
No. _____ Cap. _____ @ _____
Press Corrected

Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pressure Below Bottom
Packer Bled To

LYNES, INC.

Sampler Report

Company Natural Gas Corporation of California Date 11-9-82
Well Name & No. Federal #23-24 Ticket No. 27045
County Uintah State Utah
Test Interval 5005'-5037' DST No. 1

Total Volume of Sampler: 2150 cc.
Total Volume of Sample: 2150 cc.
Pressure in Sampler: 15 psig
Oil: None cc.
Water: None cc.
Mud: 2150 cc.
Gas: None cu. ft.
Other: None

Sample R.W.: 1.0 @ 70°F = 6000 ppm. Cl.

Resistivity

Make Up Water 9.0 @ 55°F Salinity Content 750 ppm.

Mud Pit Sample 2.0 @ 75°F Salinity Content 2800 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On Location

Remarks: _____

LYNES, INC.

Distribution of Final Reports

Natural Gas Corporation Of California
Operator

Federal #23-24
Well Name and No.

Original &

2 Copies: Natural Gas Corporation of California, 7800 East Union Avenue, Suite

800, Denver, CO 80237 Attn: Operations Supt./Dave McGinley/

Rod Boschee

1 Copy: Natural Gas Corporation of California, 85 South 200 East, Vernal, UT

84078

2 Copies: Minerals Management Service, 2000 Administration Bldg., 1745 West 1700

South, Salt Lake City, UT 84104 Attn: E. W. Guynn

1 Copy: Division of Oil Gas & Mining, 4241 State Office Bldg., Salt Lake

City, UT 84114

2 Copies: Chorney Oil Company, 1860 Lincoln, Suite 401, Denver, CO 80295

Attn: Sam Boltz, Jr.

1 Copy: DeGolyer & MacNaughton, No. 1 Energy Square, Dallas, TX 75206

Attn: Bob Gilmore

3 Copies: Gulf Oil Exploration and Production Company, P. O. Box 2619, Casper,

WY 82602 Attn: J. L. Goolsby

1 Copy: Belco Petroleum Corporation, 445 Union Blvd., Suite 209, Lakewood, CO

80228 Attn: J. B. Dunnewald

*Natural Gas
Corporation of
California*

January 19, 1983

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

Mr. Sam Boltz, Jr.
Chorney Oil Company
1860 Lincoln, Suite 401
Denver, CO 80295

Mr. J. B. Dunnewald
Belco Petroleum Corporation
200 Union Blvd., Suite 118
Lakewood, CO 80228

Mr. J. L. Goolsby
Gulf Oil Exploration & Prod. Co.
P.O. Box 2619
Casper, WY 82602

Mr. Bob Gilmore
DeGolyer & MacNaughton
No. 1 Energy Square
Dallas, TX 75206

Re: NGC #23-24 Federal
NE SW Sec. 24, T.8S., R.21E.
Uintah County, UT
So. Wonsits Valley area

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,
Subsequent Report of **Abandonment**, for the subject well.

Sincerely,

Rick Canterbury

Rick Canterbury
Associate Engineer

/kh

Attachment

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R365.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
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 2035' FWL and 1980' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 24, T.8S. R.21E.
 At top prod. interval reported below
 At total depth

14. PERMIT NO. 43-047-31253 DATE ISSUED 7-1-82

5. LEASE DESIGNATION AND SERIAL NO.
W-38406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Uintah and Ouray

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC #23-24

10. FIELD AND POOL, OR WILDCAT
South Wonsits Valley

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

15. DATE SPUNDED 10-23-82 16. DATE T.D. REACHED 11-8-82 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, ET, GR, ETC.)* 4819' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5864' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-CNL Litho Density 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	300	12-1/4"	To surface	None

29. LINER RECORD 30. TUBING RECORD

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

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION 11-12-82 P&A PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) P&A

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS
Geological report to be submitted later.

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

SIGNED Rick Canterbury TITLE Associate Engineer DATE January 19, 1983

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

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.

Item 4: If there are no applicable State requirements, 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 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.)

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.

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.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
				Green River	1701'
				Parachute Creek	2384'
				H-Marker	4115'
				K-Marker	4735'
				L-Marker	4994'
				Green River Lime	5471'
				Wasatch	5599'

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
Natural Gas Corporation of California

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FWL and 1980' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$)
AT TOP PROD. INTERVAL: of Sec. 24, T.8S., R.21E.
AT TOTAL DEPTH:

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

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

5. LEASE
U-38406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Uintah and Ouray

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC #23-24 So. Wonsits Valley

10. FIELD OR WILDCAT NAME
Wonsits Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.
43-047-31253

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4819'

(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.)*

Operator plugged the subject well as follows:

Set Plug #1 at 4845'-5045', 95 sacks
Set Plug #2 at 3300'-3500', 70 sacks
Set Plug #3 at 215'- 415', 75 sacks
Set Plug #4 - 15 sacks at surface

A regulation dry hole marker will be erected. The location site will be cleaned, restored, and rehabilitated in conformance with the revised surface plan.

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

DATE: _____
BY: _____ Ft.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED Rich Canterbury TITLE Assoc. Engr. DATE January 19, 1983
Rick Canterbury

(This space for Federal or State office use)

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

cc: MMS; Div. OG&M; Chorney; Belco; Gulf; DeGolyer; Operations; CTClark; ERHenry; SFurtado

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
Natural Gas Corporation of California

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FWL and 1980' FSL (NE $\frac{1}{4}$ SW $\frac{1}{4}$)
AT TOP PROD. INTERVAL: Sec. 24, T.8S., R.21E.
AT TOTAL DEPTH:

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

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

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

5. LEASE
U-38406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Uintah and Ouray

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
NGC 23-24

10. FIELD OR WILDCAT NAME
Wonsits Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T.8S., R.21E.

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.
43-047-31253

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4819'

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

The location for the subject well has been cleaned up and recontoured. The location was reseeded in the Fall of 1983 with the following seed mixture as requested by Bob Fuller of the BIA: 3 lbs./acre Crested Wheatgrass
3 lbs./acre Yellow Sweetclover
2 lbs./acre Shadscale

The Operator would appreciate being notified if the seeding is acceptable.

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

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE January 17, 1984
Rick Canterbury

(This space for Federal or State office use)

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

cc: (3) BLM/Vernal; (1) BLM/SLC; (1) BIA; Chorney; Belco; Gulf; Operations; Land; ERHenry; SFurtado; Div. OG&M