

NATURAL GAS CORPORATION
OF CALIFORNIA

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

November 26, 1980

Mr. E. W. Gynn
Geological Survey-Conservation Div.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Mr. Frank M. Hamner
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, UT 84116

Re: Proposed NGC #21-11 Federal
NE-NW Section 11, T16S, R24E
Grand County, Utah

Gentlemen:

Enclosed are the following documents relating to drilling the above captioned well:

- 1) Application for Permit to Drill
- 2) Surveyor's Plat
- 3) Ten Point Drilling Procedure
- 4) BOP and Pressure Control Specifications
- 5) Location Layout Map
- 6) Topographic Maps

Your early consideration and approval of this application will be appreciated. Should you require any additional information, please contact this office.

Yours truly,

Wm Ryan
Wm. A. Ryan
Petroleum Engineer

/kh

Encls.

cc: J. C. Bendler
C. T. Clark
E. R. Henry

RECEIVED

NOV 30 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-11

10. FIELD AND POOL, OR WILDCAT
~~San Arroyo~~ *Chalchicomula*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 11, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
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
1871' FWL, 809' FNL, Sec. 11, T16S, R24E, NE-NW
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 21 miles NW of Mack, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
809'

16. NO. OF ACRES IN LEASE
560

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

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

19. PROPOSED DEPTH
7667'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
8188' Ungr. GR.

22. APPROX. DATE WORK WILL START*
Upon receipt of approval.

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#, K55 New	250	250 sacks
8-3/4"	7"	23# K55 New	4325	160 sacks
6-1/8"	4-1/2"	11.6#, N80 New	TD	As required.

Operator proposes to drill well to 7667' to test the Morrison formation. All water flows and significant hydrocarbon shows will be evaluated and reported. Drilling operations will be conducted according to the attached program and all applicable regulations. Adequate BOP equipment will be installed and maintained as indicated in the attached pressure control specifications. Casing will be run as outlined above and cemented sufficiently to protect all potentially productive intervals. No abnormal pressures, temperatures, or other hazards are anticipated.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 12/1/80
BY: CS Feagler

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 11/26/80
Wm. A. Ryan
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

cc: USGS; UT Div. OG&M; JCBendler; CTCIark; ERHenry

West 1/4 Corner Section 2,
T16S, R24E, S1B & M

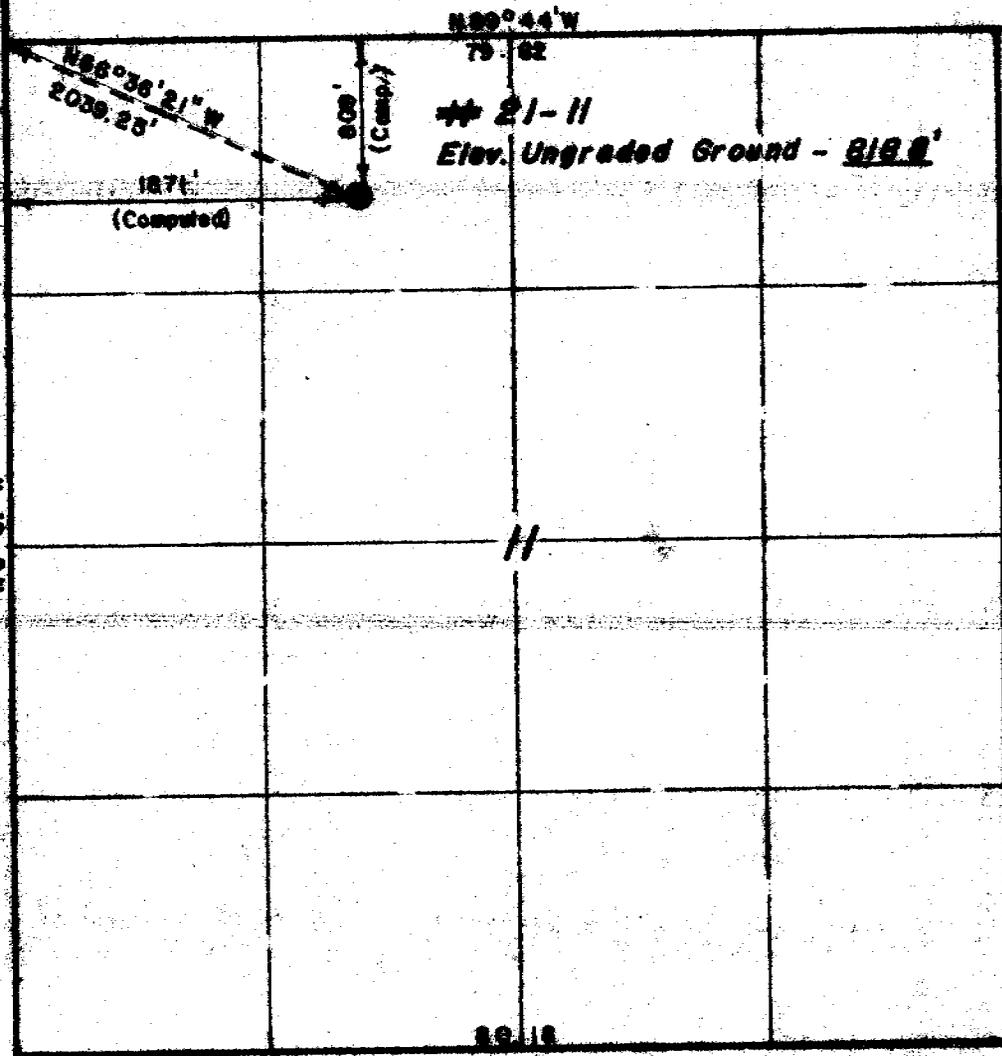
T16S, R24E, S.L.B. & M.

Date of Bearings

N 0° 01' W

N 0° 01' W

N 0° 01' W



N 89° 44' W
75.62

★ 21-11
Elev. Ungraded Ground - 819.8'

N 88° 36' 21" W
2039.23'

1871'
(Computed)

809'
(Computed)

89.18
N 89° 58' W

X = Section Corners Located

PROJECT
NATURAL GAS COMP. OF CALIF.

Well location, # 21-11, located as shown in the NE 1/4 NW 1/4 Section 2, T16S, R24E, S.L.B. & M. Grand 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.

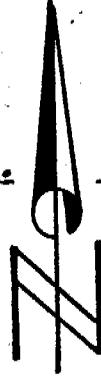
Lawrence H. [Signature]
REGISTERED LAND SURVEYOR
REGISTRATION NO. 8187
STATE OF UTAH

UTAH ENGINEERING & LAND SURVEYING P.O. BOX 9 - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 4/19/80
PARTY LOK SN JS	REFERENCES SLO Plat
WEATHER COOL	FILE NATURAL GAS COMP. OF CALIF.

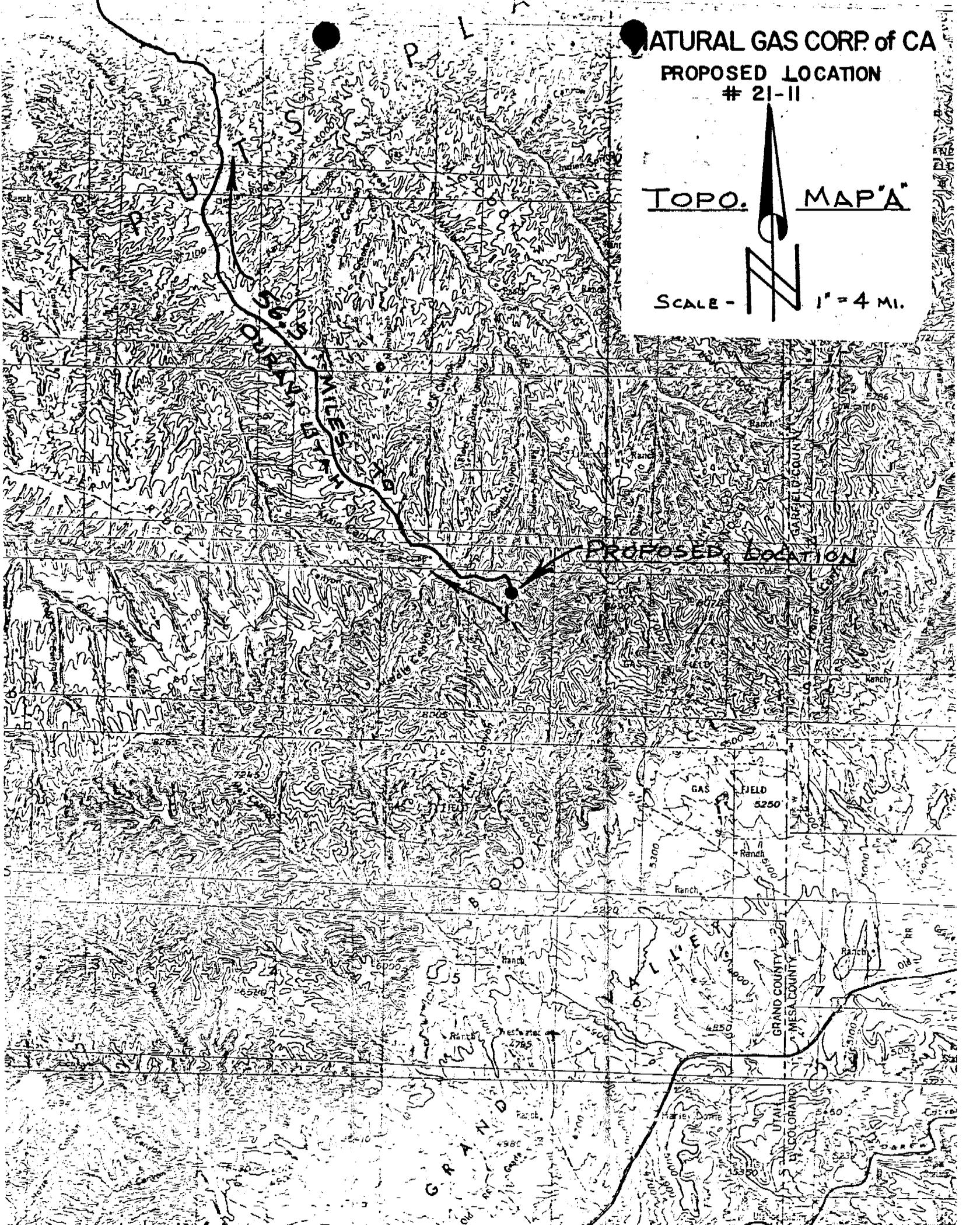
NATURAL GAS CORP. of CA

PROPOSED LOCATION
21-11

TOPO. MAP 'A'



SCALE - 1" = 4 MI.



Natural Gas Corporation of California
 San Arroyo #21-11 Federal
 10 Point Drilling Procedure

1. Surface formation is Green River.

2. Estimated Formation Tops:	<u>Elevation</u>	<u>Datum</u>
Tertiary	Surface	+8188'
Mesaverde	1738'	+6450'
Castlegate	3583'	+4605'
Mancos	3695'	+4493'
Mancos B	4325'	+3863'
Dakota Silt	7213'	+ 975'
Morrison	7458'	+ 730'
TD	7667'	+ 521'

3. Estimated zones with gas, oil and/or water.

Mancos B
 Dakota
 Cedar Mountain

4. Casing Program:

Surface - 9-5/8" @ 250', K-55, STC, 36.0#, New
 Intermediate - 7" @ 4325', K-55, STC, 23.0#, New
 Production - 4-1/2" @ 7667', N-80, LTC, 11.6#, New

5. Pressure Control Equipment: See attached diagram. BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing and will be checked daily as to mechanical operating conditions.

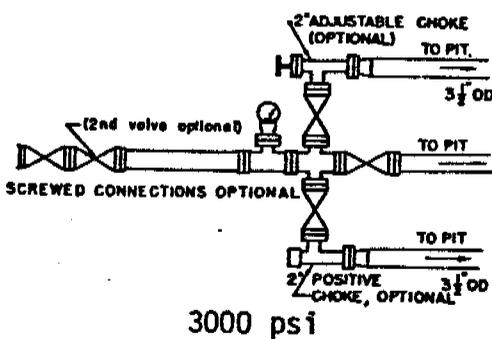
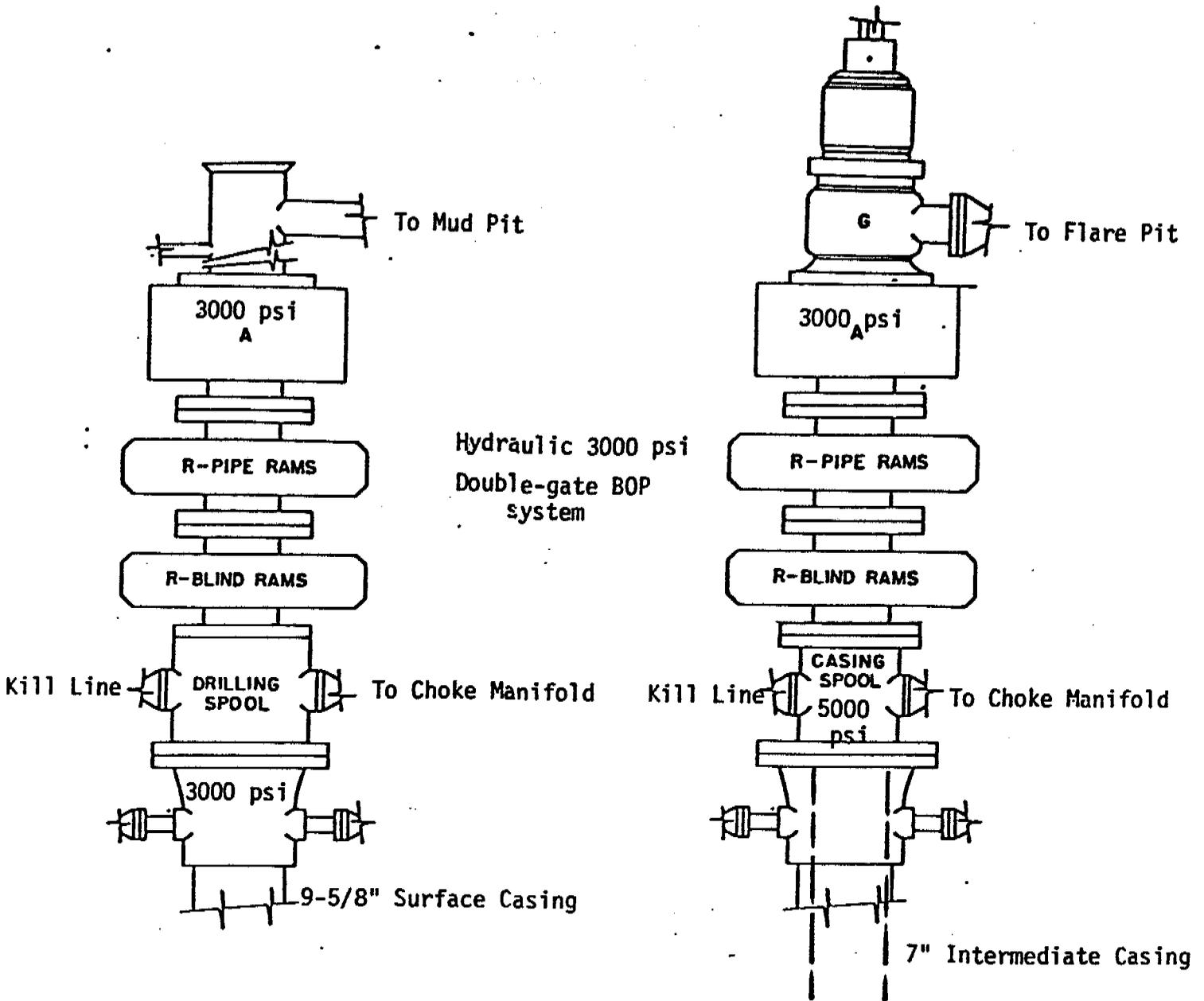
6. Mud Program will be fresh water base drilling mud below surface casing to intermediate casing depth. Gel and lime should be used if needed in the event additional viscosity is required for hole cleaning. Conventional types of lost circulation materials should handle minor losses. However, if losses are severe, cement plugs should be utilized to regain circulation.

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>
0 - 250	8.3 - 8.4	27 - 29
250 - 4325	8.4 - 8.8	27 - 29
4325 - TD	Air or air mist	

7. Auxiliary equipment will include (1) Kelly cock, (2) drill pipe float (air drilling), (3) monitoring of mud system will be visual, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when kelly is not in the string and (5) rotating drilling head (air drilling).

8. No coring or drillstem testing has been scheduled for this well, however, frequent flow testing while air drilling through potential formations will be conducted. Logging will include DIL-GR, BHC-Sonic-Gamma Ray and FDC/CNL from 4325' to base surface casing and DIL-SFL, SNP-Gamma Ray, FDC-Gamma Ray and Dipmeter (selective intervals) from TD to base of intermediate casing. A temperature log may be run if the well is flowing gas. Stimulation will be determined at time of completion. A Sundry Notice will be submitted prior to commencing operations.
9. No abnormal pressures or temperatures, hydrogen sulfide, or other hazards are anticipated. However, a mud logger or wellsite geologist will be on location at all times to monitor drilling progress.
10. Anticipated starting date upon receipt of approval. Duration of drilling operations is expected to be about 20 days.

BLOWOUT-PREVENTOR AND ACCESSORY EQUIPMENT



CHOKE MANIFOLD

Test Schedule

- 1) 10" BOP, choke manifold and 9-5/8" casing to 1000 psi on nipple up.
- 2) 10" BOP, choke manifold and 7" casing to 3000 psi.
- 3) All BOP equipment tested for operation daily and on bit trips.

NGC #21-11 Federal
NE-NW Section 11, T16S, R24E
Grand County, Utah

NATURAL GAS CORP. OF CALIFORNIA

13 Point Surface Use Plan

for

Well Location

#21 - 11

Located In

Section 11, T16S, R24E, S.L.B. & M.

Grand County, Utah

NATURAL GAS CORP. OF CALIFORNIA
#21-11
Section 11, T16S, R24E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach NATURAL GAS CORP., well location #21-11, located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 11, T16S, R24E, S.L.B. & M., Grand County, Utah, proceed West from Vernal, Utah along U.S. Highway 40 - 14 miles to the junction of this highway and Utah State Highway 88 that exits to the South. Proceed South along Utah State Highway 88-17.8 miles to Ouray, Utah; proceed South from Ouray along the Uintah County Road (of which the first 12 miles is paved and the rest is improved dirt road) 53 miles to P.R. Springs; proceed Easterly along an improved dirt road that is called the McCook Ridge road 2.2 miles to the junction of this road and the beginning of the proposed access road (to be discussed in Item #2).

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to Ouray, Utah at which point the road is surfaced with native asphalt for approximately 12 miles, and then is improved dirt.

There will be no construction on the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and the production phase of this well at such time that production is established.

The highways mentioned above are under Utah State jurisdiction and are maintained by State Road Crews. The County road is constructed of native asphalt (partially) and is maintained by County Road crews.

The roads that are required for access during the drilling phase, completion phase, and production phase, of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned access road leaves the existing road described in Item #1 in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 2, T16S, R24E, S.L.B. & M. and proceeds in a Southerly direction approximately 0.6 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

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

Back slopes along the cut area of the road will be 1 $\frac{1}{2}$ to 1 slopes and terraced.

NATURAL GAS CORP. OF CALIFORNIA
#21-11
Section 11, T16S, R24E, S.L.B.& M.

2. PLANNED ACCESS ROAD - cont...

There will be no culverts required along this road.

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

There are no fences encountered along this access road. There will be no gates or cattleguards required.

Most lands involved in this action are under B.L.M. jurisdiction.

The terrain that is traversed by this road is relatively flat. Running down a ridge to the location site. It is sparsely vegetated with sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

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

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

At the present time there are no existing batteries, production facilities, gas gathering lines, injection or disposal lines within a one-mile radius of this location site which belongs to Natural Gas Corp. of California.

In the event that production of gas from this well is established then the existing area of the location well be utilized for the establishment of the necessary production facilities.

This area will be built, if possible, with native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities if deemed necessary by the controlling agencies involved.

In the event the the production of natural gas is established, then the necessary arrangements for a gas flowline will be made.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Item #7 and #10 and these requirements and standards will be adhered to.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "B".

The anticipated water supply for this location is from P.R. Springs in Section 33, T15 $\frac{1}{2}$ S, R23E, S.L.B. & M. and will be hauled by truck the 2.8 miles over the roads discussed in Item #1 and #2.

If this water source is not available then the necessary arrangements will be made to acquire the water needed for the drilling and production of this well and all agencies involved will be notified of any changes.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

All appropriate permits will be acquired and submitted to the proper authorities.

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

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site shall 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

See Location Layout Sheet.

The reserve pit will vary in size and depth according to the water table at the time of drilling.

One half of the reserve pit will be used as fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

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

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

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

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

7. METHODS FOR HANDLING WASTE DISPOSAL - cont...

A portable trash basket will be placed on the location site and all trash will be hauled to the nearest Sanitary Land Fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See Location Layout Sheet.

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

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

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

10. PLANS FOR RESTORATION OF SURFACE

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

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

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

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

11. OTHER INFORMATION

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

The terrain of the general area slopes from the rim of the Book Cliff Mountains to the North to the Colorado River to the South and is a portion of the East Tavaputs Plateau.

The area is interlaced with numerous ridges and canyons formed by non-perennial streams and washes. The sides of the hills and canyons are rather steep and outcrops of sandstones, conglomerates, and shale deposits, are common in the area forming ledges and cliffs along the sides of the canyons.

The visible geologic structures in the area are of the Tuschier Formation Tertiary Period and the Wasatch Formation also of the Tertiary Period.

The major drainage in the area with a year-round flow is the West Fork Bitter Creek to the East.

The majority of the numerous drainages in the surrounding area are of the non-perennial nature flowing only during the early spring run-off and during extremely heavy rain storms of relatively long duration: This type of storm is rather uncommon as the normal annual precipitation is around 8".

The topsoil in the area ranges from a sandy-clay (SM-ML) type soil to a clayey (OL) type soil.

Due to the low precipitation average, climate condition and the types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in, and consists of juniper and pinion pine trees, sagebrush, scrub oak, shadscale, and bitterbrush, and some grasses and cacti as the primary flora.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents and various forms of reptiles.

The area is used by man for the primary purpose of grazing domestic livestock and sheep.

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

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

The proposed location sits on the top of a ridge above Brusher canyon to the East and Hideout Canyon to the West.

11. OTHER INFORMATION - cont...

The visible structure of the location is of the Tuscher formation and consists of brownish-gray sandy-clay (SP-CL) with some shale outcrops.

The ground slopes through the location to the North at approximately a 18% grade.

The location is covered with juniper and pinion pine trees, scrub oak, sagebrush, and grasses.

There are no occupied dwellings or other facilities of this nature in the general area. There is however a radio facility site within a one mile radius of this location site.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

R.J. Firth
85 South 200 East
Vernal, Utah 84078 Tele: 801-789-4573

13. CERTIFICATION

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

Date

11/26/80

ORIGINAL SIGNED
BY: R. J. FIRTH

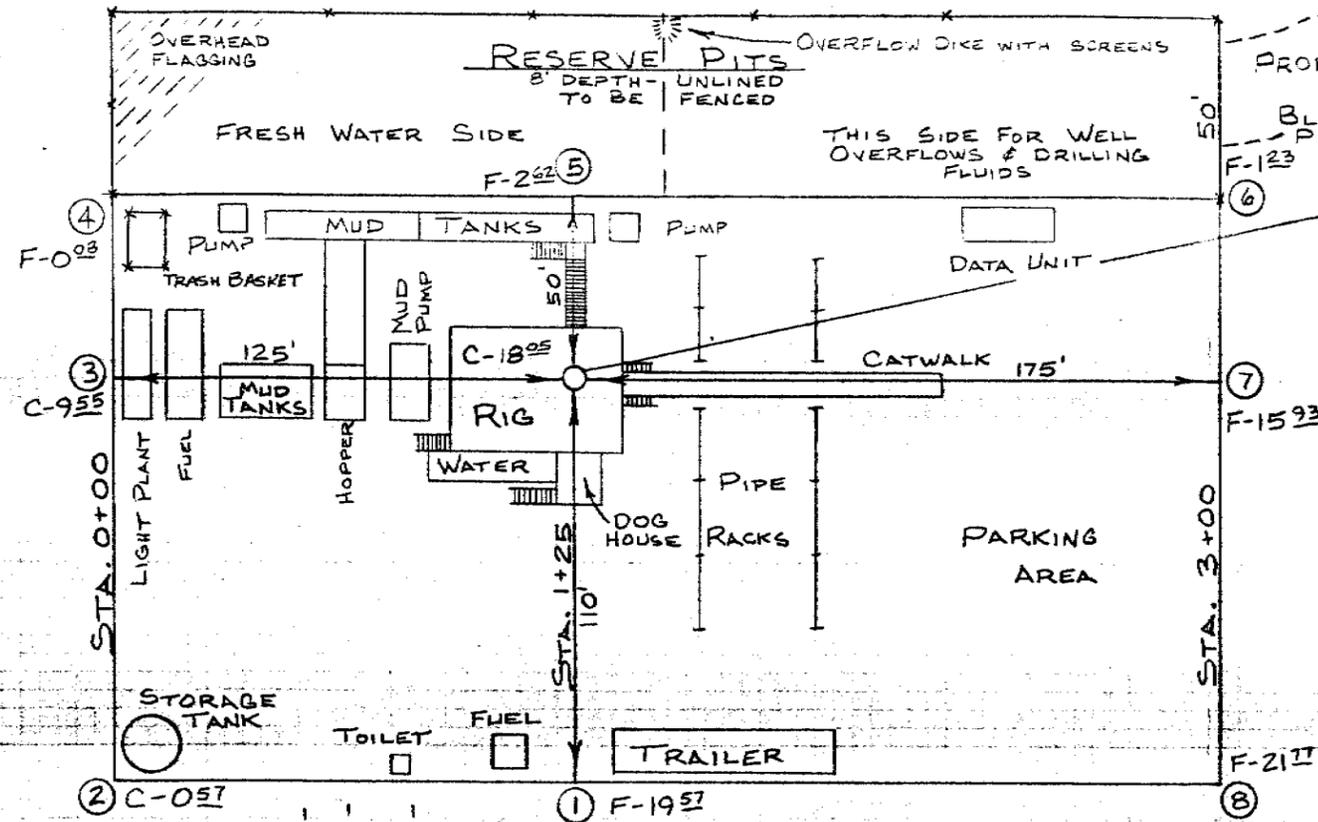
R.J. Firth

NATURAL GAS CORP. OF CALIF.

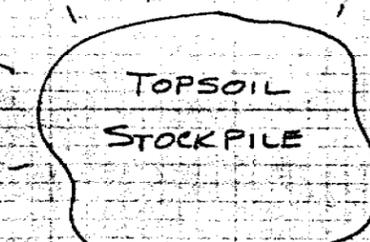
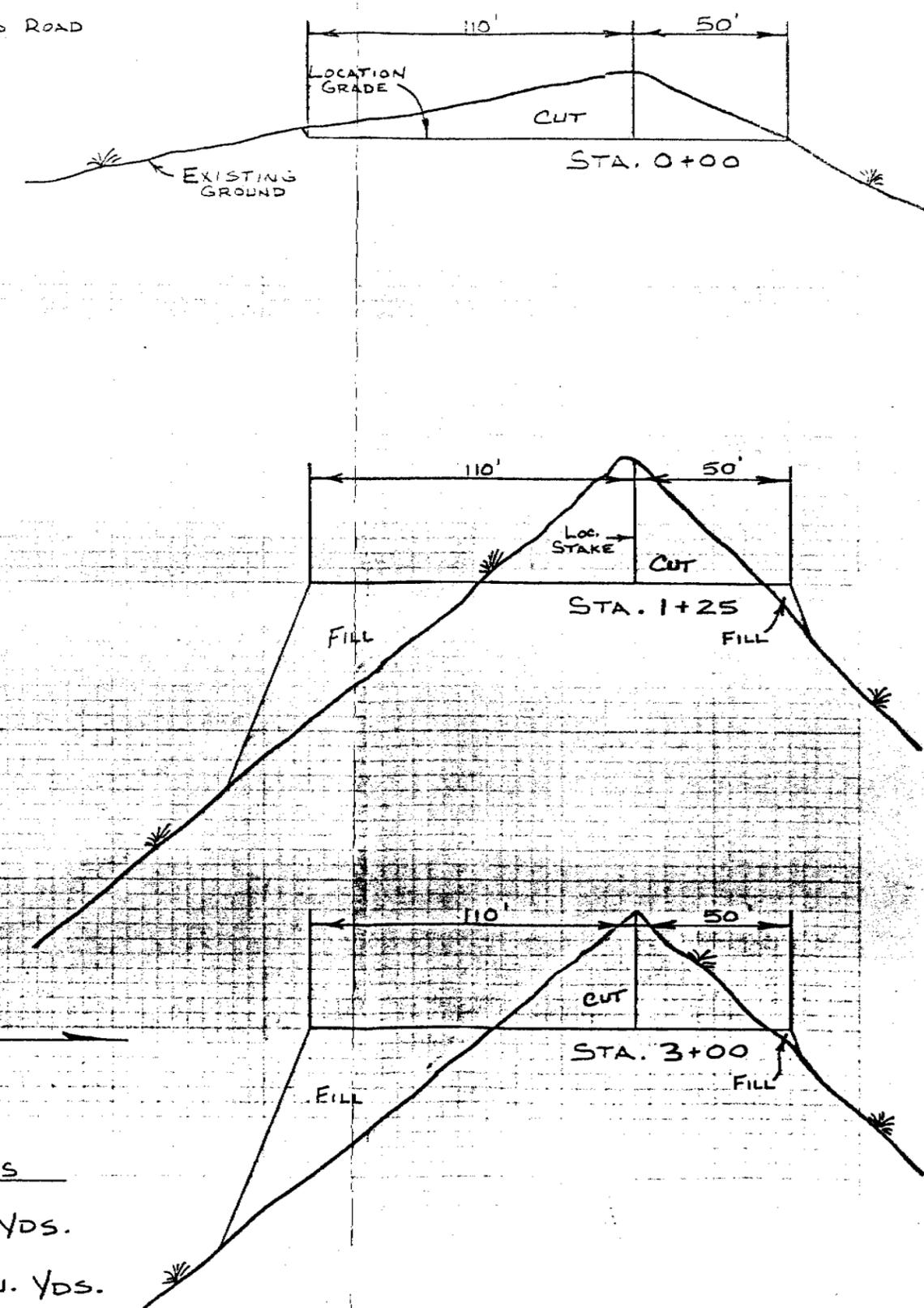
21-11

LOCATION LAYOUT SHEET

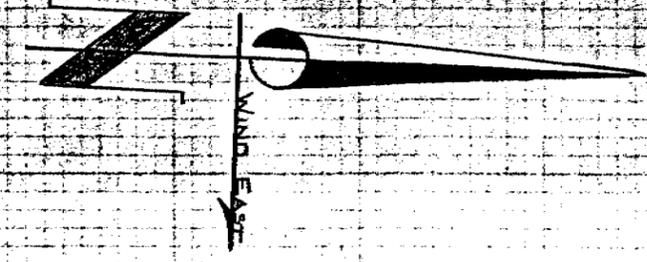
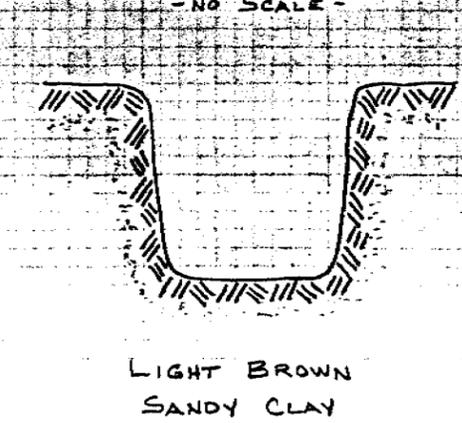
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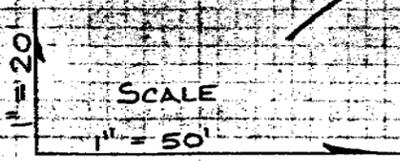
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SOILS LITHOLOGY



SCALE - 1" = 50'



APPROX. YARDAGES
 CUT - 9,070 CU. YDS.
 FILL - 8,074 CU. YDS.

NATURAL GAS CORP. of CALIF.

PROPOSED LOCATION

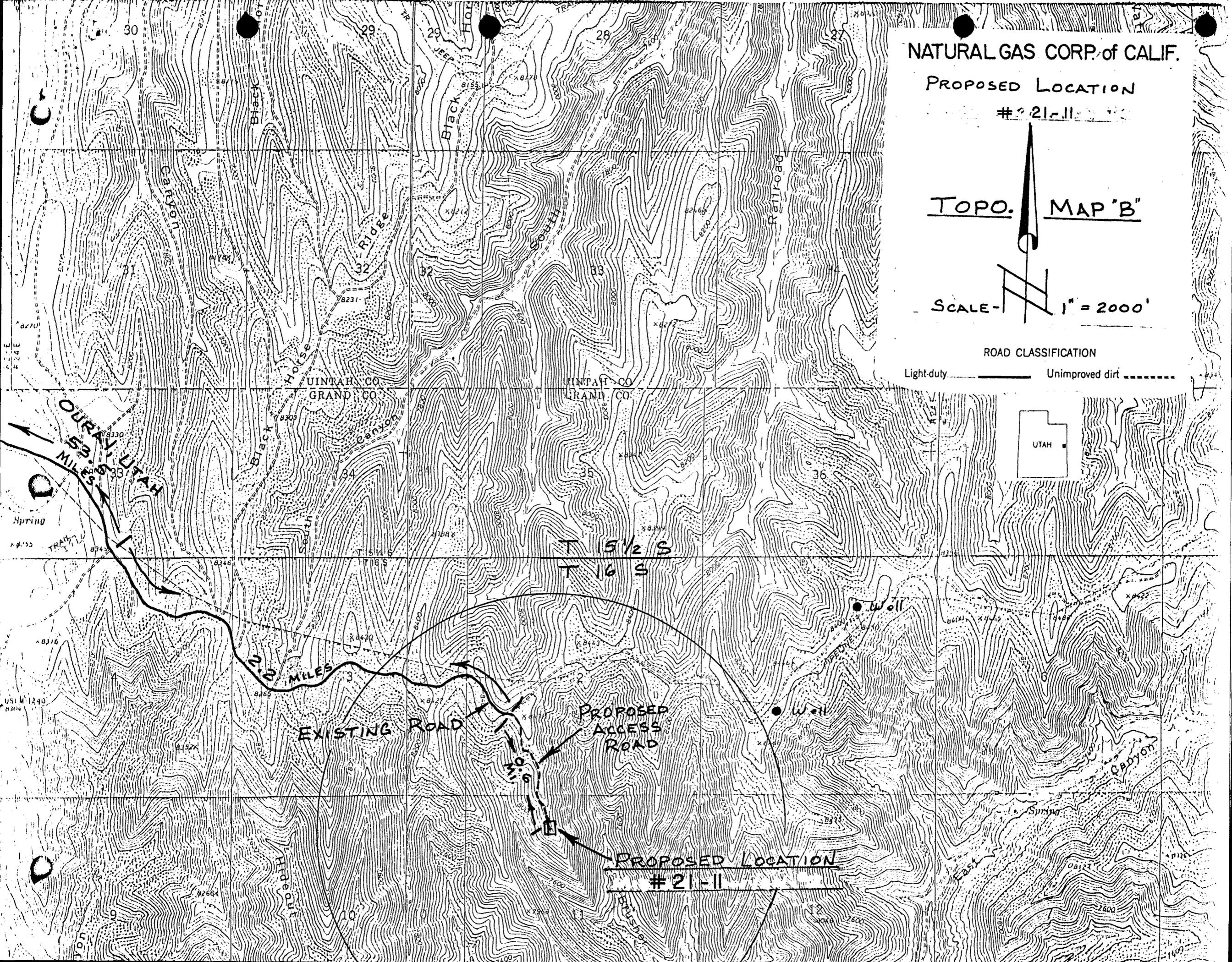
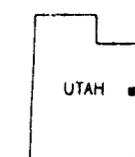
21-11



SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light-duty ————— Unimproved dirt - - - - -



OURAY, UTAH

UINTAH CO.
GRAND CO.

UINTAH CO.
GRAND CO.

T 15 1/2 S
T 16 S

EXISTING ROAD

PROPOSED
ACCESS
ROAD

PROPOSED LOCATION
#21-11

Spring

Well

Well

UTAH

Spring

East

Canyon

Hideout

Brushy

30

29

28

27

32

32

33

34

34

35

36

3

10

Black Horse

Black Horse

South

Railroad

Canyon

Horse

South

Hideout

Brushy

East

Canyon

Spring

Well

Well

UTAH

OURAY, UTAH

UINTAH CO.
GRAND CO.

UINTAH CO.
GRAND CO.

T 15 1/2 S
T 16 S

EXISTING ROAD

PROPOSED
ACCESS
ROAD

PROPOSED LOCATION
#21-11

Spring

Well

Well

UTAH

Spring

East

Canyon

Hideout

Brushy

30

29

28

27

32

32

33

34

34

35

36

3

10

Black Horse

Black Horse

South

Railroad

Canyon

Horse

South

Hideout

Brushy

East

Canyon

Spring

Well

Well

UTAH

** FILE NOTATIONS **

DATE: Dec 1, 1980

OPERATOR: Natural Gas Corp of Calif

WELL NO: Feel 21-11

Location: Sec. 11 T. 16S R. 24E County: Sierr

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-019-~~31180~~³⁰⁷⁵⁰

CHECKED BY:

Petroleum Engineer: _____

Director: OK as per adv issued in case 149-1
This is the unit well for Orling Unit # 5 Zone II

Administrative Aide: _____

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 149-1 March 14, 73

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation

Plotted on Map

Approval Letter Written

Hot Line

P.I.

December 2, 1980

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

RE: Well No. Federal #43-7, Sec. 7, T. 16S, R. 25E, Grand County, Utah
RE: Well No. Federal #21-11, Sec. 11, T. 16S, R. 24E, Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 149-1 dated March 14, 1973.

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

Michael Minder-Petroleum Engineer
OFFICE: 533-5771
HOME: 876-3001

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

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

The API numbers assigned to these wells are: Federal #43-7 (43-019-30479) Federal #21-11 (43-019-30480).

This is the unit well for Drilling Unit #27 Zone II. (Fed. #43-7)
This is the unit well for Drilling Unit #5 Zone II. (Fed. #21-11)

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Original Signed by C. B. Feight

ELSON B. FEIGHT
DIRECTOR

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-10423

and hereby designates

NAME: NATURAL GAS CORPORATION OF CALIFORNIA
ADDRESS: 85 South 200 East
Vernal, Utah 84078

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 16 South, Range 24 East, SLM
Section 11: N $\frac{1}{2}$, SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$

containing 560 acres, m/1
Grand 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:

MONO POWER COMPANY

By: Carole C. Quinn
CAROLE C. QUINN ASST. SECRETARY

By: B. King
(Signature of lessee)

December 22, 1980
(Date)

P. O. Box 800
Rosemead, CA 91770
(Address)

NATURAL GAS CORPORATION
OF CALIFORNIA

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

January 27, 1981

Mr. Glenn Doyle
Environmental Scientist
U. S. Geological Survey
P.O. Box 3768
Grand Junction, CO 81502

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

Re: NGC #21-11 Federal
Section 11, T16S, R24E
Grand County, Utah

Gentlemen:

Please find enclosed the new pad layout and cut-fill diagram per our conversation January 26, 1981 for the above referenced well.

Yours truly,

Wm Ryan

W. A. Ryan
Petroleum Engineer

WAR/kh

Encls.

unusual

NATURAL GAS CORPORATION
OF CALIFORNIA

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

February 10, 1981

Mr. E. W. Guynn
Geological Survey-Conservation Div.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Mr. Michael T. Minder
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, UT 84116

Re: Lease No. U-10423; Grand Co., UT
NGC #21-11 Federal
NE NW Section 11, T16S, R24E

Gentlemen:

Enclosed are copies of the Designation of Operator from BACO Partnership, Calalta Resources, Inc., Coseka Resources (U.S.A.) Limited, Mono Power Company, Netumar Resources, Inc., Pacific Century Resources, Inc., and Pacific Transmission Supply Company to Natural Gas Corporation of California for Lease no. U-10423.

Sincerely,

W. A. Ryan
Petroleum Engineer

/kh

Encls.

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

RECEIVED
FEB 11 1981
DIVISION OF
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: USA U-10423

and hereby designates

NATURAL GAS CORPORATION OF CALIFORNIA
NAME: 2300 Energy Center One
ADDRESS: 717 Seventeenth Street
Denver, Colorado 80202

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 16 South, Range 24 East, S.L.M.
Section 11: W $\frac{1}{2}$

Containing 320.00 acres, more or less in
Grand 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.

BACO PARTNERSHIP
c/o Coseka Resources (U.S.A.) Limited,
Managing Partner

By:



(Signature of lessee)

Emory J. Sampson, Executive Vice President
718 17th Street, Suite #630
Denver, Colorado 80202

1/29/81

(Date)

(Address)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: USA U-10423

and hereby designates

NAME: NATURAL GAS CORPORATION OF CALIFORNIA
2300 Energy Center One
ADDRESS: 717 Seventeenth Street
Denver, Colorado 80202

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 16 South, Range 24 East, S.L.M.
Section 11: W $\frac{1}{2}$

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

CALALTA RESOURCES, INC.

BY: 

(Signature of lessee)

J. L. Oaks, Vice President
718 17th Street, Suite #630
Denver, Colorado 80202

(Address)

1/29/81

(Date)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: USA U-10423

and hereby designates

NAME: NATURAL GAS CORPORATION OF CALIFORNIA
2300 Energy Center One
ADDRESS: 717 Seventeenth Street
Denver, Colorado 80202

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 16 South, Range 24 East, S.L.M.
Section 11: W $\frac{1}{2}$

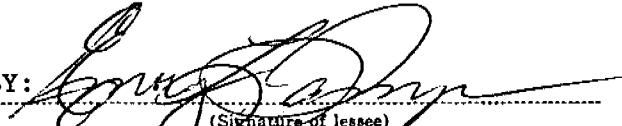
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Grand County, Utah

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

COSEKA RESOURCES (U.S.A.) LIMITED

BY: 

(Signature of lessee)

Emory L. Sampson, Executive Vice President
718 17th Street, Suite #630
Denver, Colorado 80202

1/29/81

(Date)

(Address)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: USA U-10423

and hereby designates

NAME: NATURAL GAS CORPORATION OF CALIFORNIA
ADDRESS: 2300 Energy Center One
717 Seventeenth Street
Denver, Colorado 80202

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 16 South, Range 24 East, S.L.M.
Section 11: W $\frac{1}{2}$

Containing 320.00 acres, more or less in
Grand County, Utah

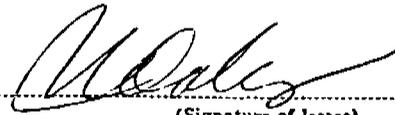
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The lessee agrees promptly to notify the supervisor of any change in the designated operator.

NETUMAR RESOURCES, INC.

BY: _____



(Signature of lessee)

J. L. Oaks, Vice President
718 17th Street, Suite #630
Denver, Colorado 80202

(Address)

1/29/81

(Date)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: USA U-10423

and hereby designates

NAME: NATURAL GAS CORPORATION OF CALIFORNIA
2300 Energy Center One
ADDRESS: 717 Seventeenth Street
Denver, Colorado 80202

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 16 South, Range 24 East, S.L.M.
Section 11: W $\frac{1}{2}$

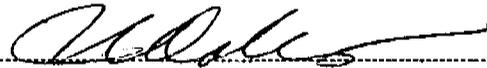
Containing 320.00 acres, more or less in
Grand County, Utah

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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.

PACIFIC CENTURY RESOURCES, INC.

BY: 

(Signature of lessee)

J. L. Oaks, Vice President
718 17th Street, Suite #630
Denver, Colorado 80202

(Address)

1/29/81

(Date)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL No.: U-10423

and hereby designates

NAME: Natural Gas Corporation of California
ADDRESS: 717 17th Street-Suite 2300
Denver, Colorado 80202

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 16 South, Range 24 East, SLM
Section 11: N $\frac{1}{2}$, SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$

Containing 560 acres, m/1
Grand 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:

PACIFIC TRANSMISSION SUPPLY COMPANY

By: _____

By: C. T. Clark, Jr.
(Signature of lessee)

C. T. Clark, Jr. - Attorney-in-Fact

February 5, 1981

(Date)

717 17th Street-Ste. 2300, Denver, Co. 80202

(Address)

U.S. GOVERNMENT PRINTING OFFICE : 1978 O - 277-343

**EVIDENCE OF AUTHORITY FOR ATTORNEY-IN-FACT
IS FILLED IN U-46500 AND SUCH
AUTHORITY IS STILL IN EFFECT.**

323-9382-00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Duplicate

SUBMIT IN TRIPLICATE*
(Other Instructions on
reverse side)

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
 1871' FWL, 809' FNL, Sec. 11, T16S, R24E, NE-NW
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 21 miles NW of Mack, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 809'

16. NO. OF ACRES IN LEASE 560

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7667'

19. PROPOSED DEPTH 7667'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 8188' Ungr. GR.

22. APPROX. DATE WORK WILL START*
 Upon receipt of approval.

5. LEASE DESIGNATION AND SERIAL NO.
 U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 21-11

10. FIELD AND POOL, OR WILDCAT
 San Arroyo Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 11, T16S, R24E

12. COUNTY OR PARISH 13. STATE
 Grand Utah

Duplicate

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#, K55 New	250	250 sacks
8-3/4"	7"	23# K55 New	4325	160 sacks
6-1/8"	4-1/2"	11.6#, N80 New	TD	As required.

Operator proposes to drill well to 7667' to test the Morrison formation. All water flows and significant hydrocarbon shows will be evaluated and reported. Drilling operations will be conducted according to the attached program and all applicable regulations. Adequate BOP equipment will be installed and maintained as indicated in the attached pressure control specifications. Casing will be run as outlined above and cemented sufficiently to protect all potential wellbore intervals. No abnormal pressures, temperatures, or other hazards are anticipated.

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

RECEIVED
 MAR 27 1981
 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 Wm Ryan TITLE Petroleum Engineer DATE 11/26/80
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY (ORIG. SGD.) R. A. HENRICKS FOR TITLE E. W. GUYNN DATE 3/26/81
 CONDITIONS OF APPROVAL, IF ANY: DISTRICT ENGINEER

cc: USGS; UT Div. OG&M; JCBond; STGClark; ERHenry
 CONDITIONS OF APPROVAL ATTACHED

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

NOTICE OF APPROVAL

of state oil and gas commission

TO OPERATOR'S COPY
 *See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-10423

OPERATOR: Natural Gas Corp.

WELL NO. 21-11

LOCATION: C NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 11, T. 16 S., R. 24 E., 51M

Grand County, Utah

1. Stratigraphy: Operator tops seem reasonable

Green River	surface		
Mesaverde	1740'	Morrison	7460'
Castlegate	3585'	<u>TD</u>	<u>7667'</u>
Mancos	3695'		
Mancos B	4325'		
Dakota Silt	7215'		

2. Fresh Water:

Small amounts of fresh water may occur in the Mesaverde.

3. Leasable Minerals:

Coal in the upper Mesaverde (~ 1800 to 2800').
The coal is currently sub economic.

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None expected

RECEIVED
MAR 27 1981

6. References and Remarks:

DIVISION OF
OIL, GAS & MINING

Signature: Gregory W Wood

Date: 12-27-80

United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Natural Gas Corp. of California, Federal # 21-11

Project Type Development Gas Test

Project Location 1871' FWL, 809' FNL, Sec. 11, T16S, R24E, Grand County, Utah

Date Project Submitted November 28, 1980

FIELD INSPECTION

Date January 22, 1981

Field Inspection
Participants

Bill Ryan - Operator

Earl Cody - Ross Construction

Elmer Duncan, Mical Walker - BLM

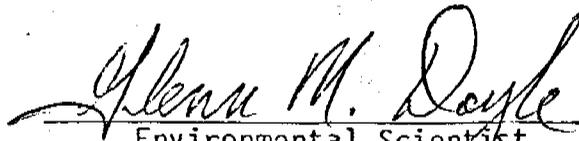
Glenn Doyle - USGS

Spencer Davis, John Bare - Northwest Pipeline

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.

March 16, 1981

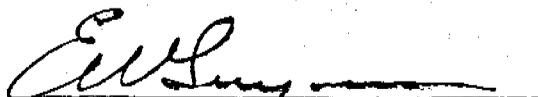
Date Prepared


Environmental Scientist

I concur

3/20/81

Date


District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety				5-3/16/81				1/22/81	
2. Unique characteristics					1, 2				
3. Environmentally controversial					1, 2				
4. Uncertain and unknown risks						4			
5. Establishes precedents					1, 2				
6. Cumulatively significant					1, 2		6		
7. National Register historic places	1-3/13/81								
8. Endangered/threatened species	1-3/13/81								
9. Violate Federal, State, local, tribal law				5-12/27/80					3

Site-Specific Stipulations Attached

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

8/80

RECEIVED

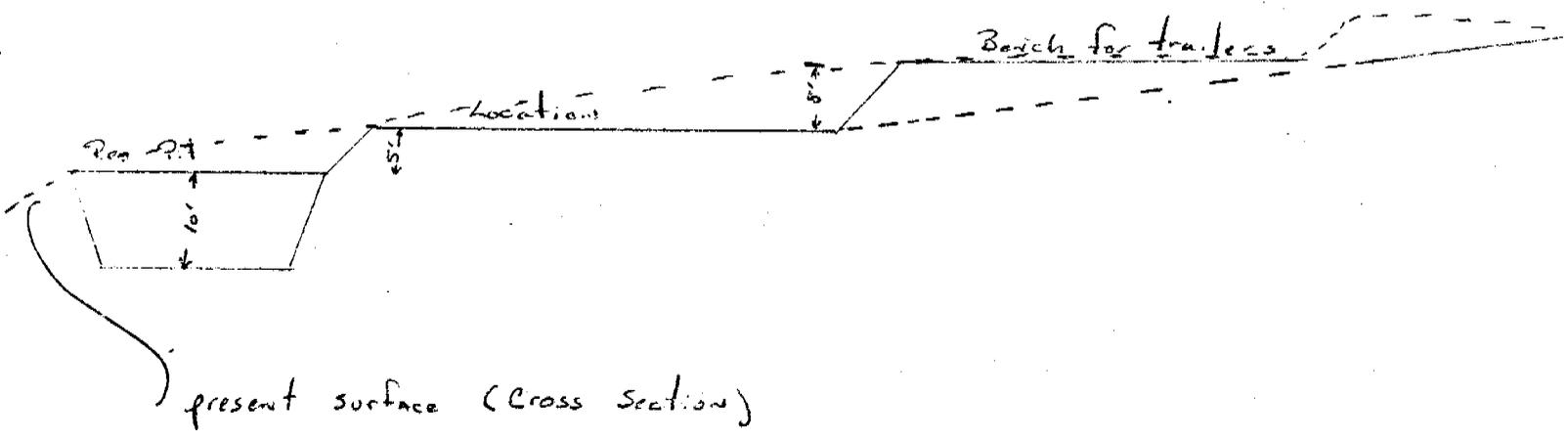
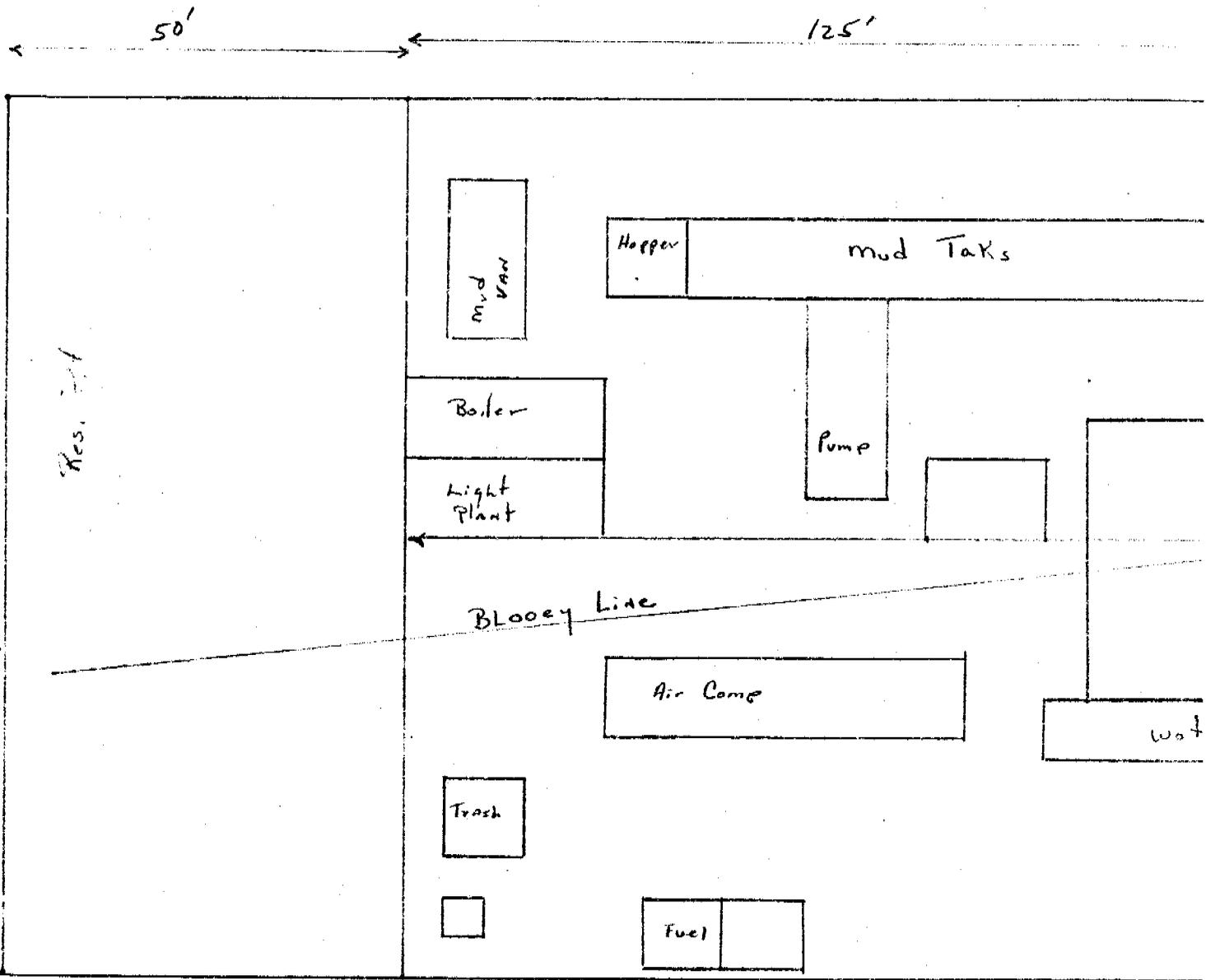
MAR 27 1981

DIVISION OF
OIL, GAS & MINING

SITE-SPECIFIC STIPULATIONS

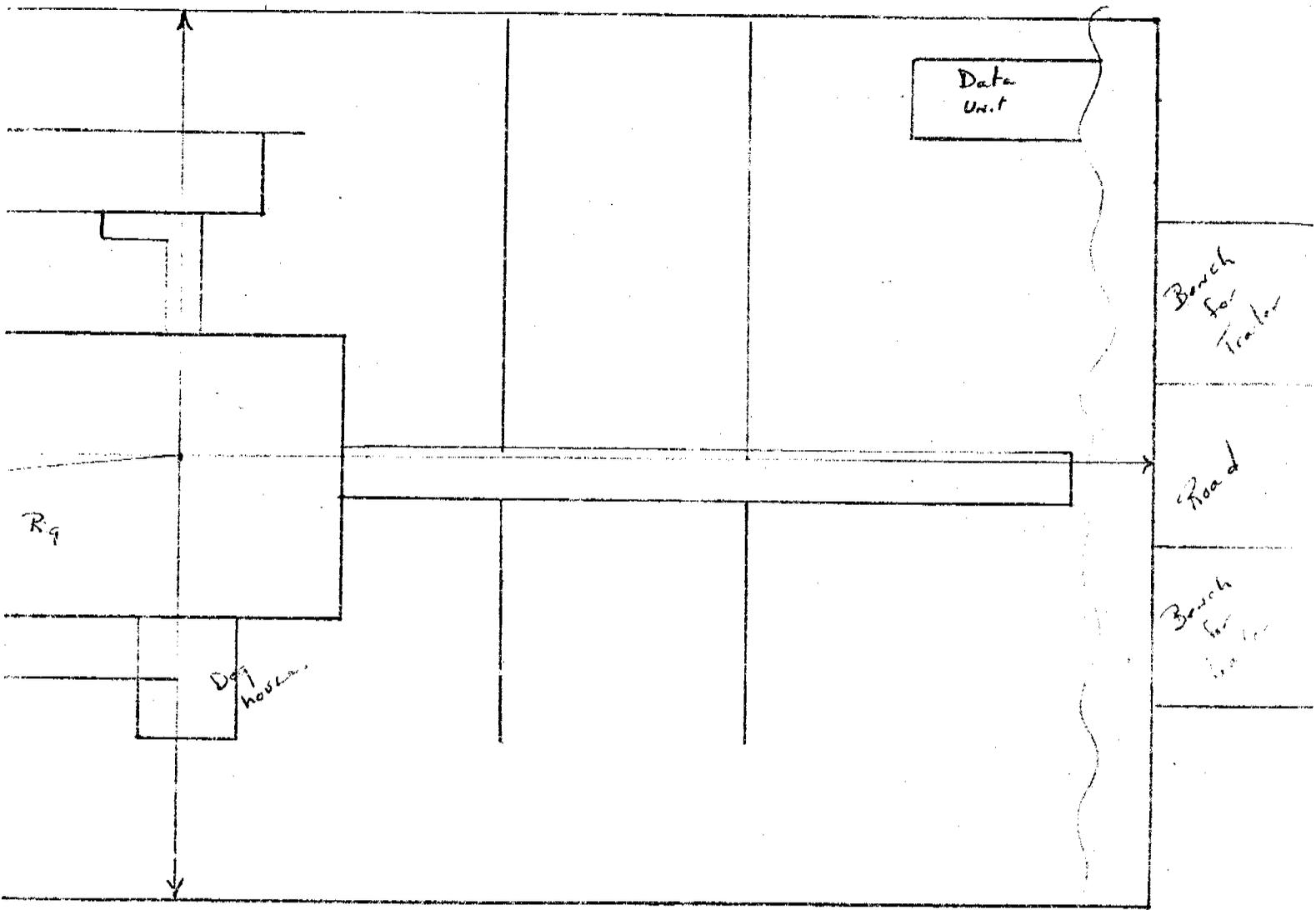
- 1) The location lies on a narrow ridge with steep slopes on each side. Operator was questioned as to the ability of the rig to operate safely with such limited space. Operator agreed that a revised rig layout was necessary and that this revision needed substantiation in writing from their engineering/operations department. (See attached letters of 1/27/81 and 3/9/81.)

- 2) Operator will fence the reserve pit on three sides during drilling and on the fourth side once the rig moves off.



N →

150



Rq

Data Unit

Bench for Tractor

Road

Bench for Tractor

Dog house

12%

Scale ← 20' →

RECEIVED

MAR 27 1981

DIVISION OF OIL, GAS & MINING

CALIF.

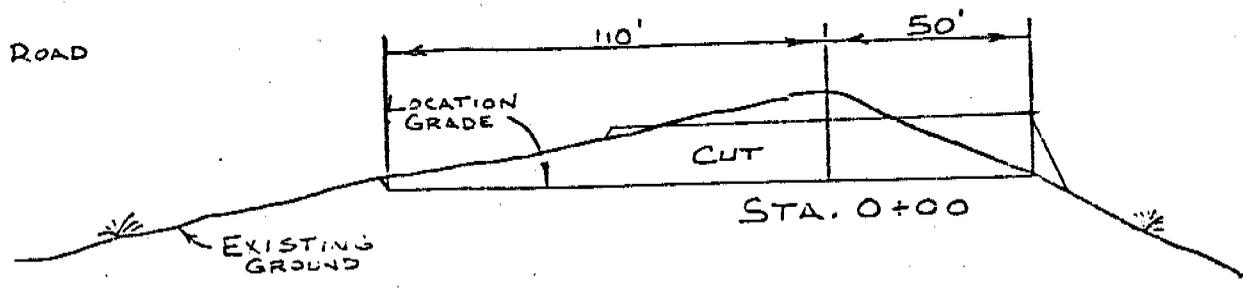
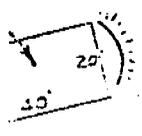
Well # N&C 21-11

Sec 11, T16S, R24E

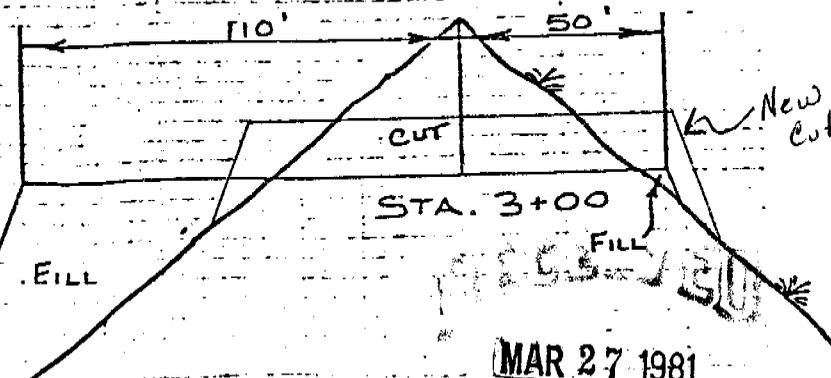
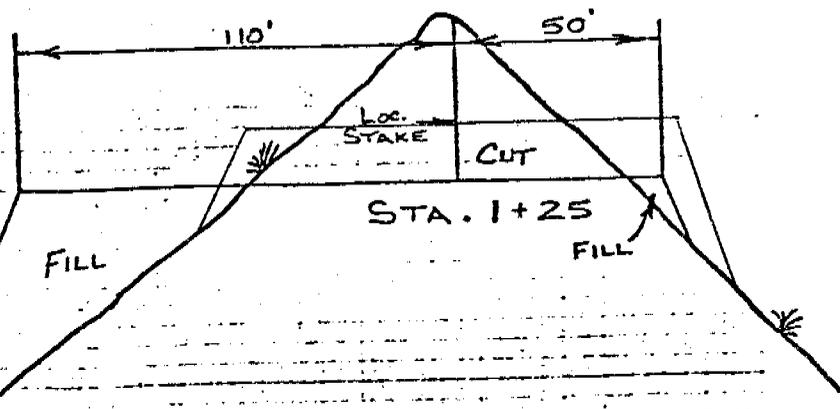
LAYOUT SHEET

ALL SLOPES 1:1

ACCESS ROAD



C
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SCALE

1" = 50'

YARDAGES

070 CU. YDS.

074 CU. YDS.

MAR 27 1981

June 23, 1981

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

Re: See Attached Sheet

Gentlemen:

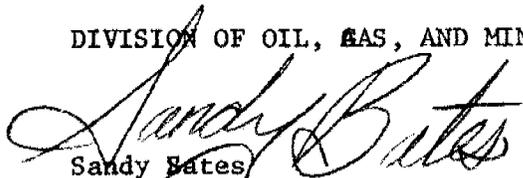
In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING


Sandy Bates
Clerk-Typist

1. Well No. Federal #11
Sec. 11, T. 16S, R. 24E
Grand County, Utah
2. Well No. Federal #23-1
Sec. 1, T. 16S, R. 24E
Grand County, Utah
3. Well No. Federal #31-1
Sec. 1, T. 16S, R. 24E
Grand County, Utah
4. Well No. Federal #41-14
Sec. 14, T. 16S, R. 25E
Grand County, Utah
5. Well No. Federal #42-8
Sec. 8, T. 16S, R. 25E
Grand County, UTAH
6. Well No. Federal #43-7
Sec. 7, T. 16S, R. 25E
Grand County, Utah

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: 1871' FWL, 809' FNL, Sec. 11,
AT TOP PROD. INTERVAL: T16S, R24E
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) <u>Change casing program</u>	<input checked="" 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 proposes to set 1200 ft. of 9-5/8", 36#, K-55 new casing instead of 250' of 9-5/8", 36#, K-55 new casing due to location of well pad. Purpose is to prevent lost circulation and possible washing out of mountain side.

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

DATE: 7/21/81

BY: [Signature]

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

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

SIGNED R. D. Dethlefsen TITLE Office Supervisor DATE July 7, 1981

(This space for Federal or State office use)

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

cc: USGS; Div. OG&M; DeGolyer; Mono; Coseka; Calalta; Pacific Century; Netumar; Operations Supt.; E. R. Henry

NEW

NATURAL GAS CORPORATION
OF CALIFORNIA

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

July 17, 1981

RECEIVED
JUN 22 1981
DIVISION OF
OIL, GAS & MINING

Mr. E. W. Guynn
Geological Survey-Conservation Div.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

~~Mr.~~ Michael T. Minder
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, UT 84116

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

Coseka Resources (USA) Limited
718 17th Street, Suite 630
Denver, CO 80202

Mr. B. J. Perry
Mono Power Company
P.O. Box 800
Rosemead, CA 91770

Re: NGC #21-11 Federal
Section 11, T16S, R24E
Grand County, Utah

Gentlemen:

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

Yours truly,

Wm. A. Ryan
Wm. A. Ryan
Petroleum Engineer

/kh

Encls.

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

**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: 1871' FWL, 809' FNL, Sec. 11, T16S, R24E
AT TOP PROD. INTERVAL: R24E
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) Report of Spud			

5. LEASE NO.
U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-11

10. FIELD OR WILDCAT NAME
San Arroyo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 11, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
43-019-30480

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8188' Ungr. GR.

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

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

Well was spudded 10 a.m. 7/13/81.

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

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

SIGNED Wm. A. Ryan TITLE Petroleum Engineer DATE July 17, 1981

(This space for Federal or State office use)

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

cc: USGS; Div. OG&M; DeGolyer; Coseka; Mono; Operations; C. T. Clark; E. R. Henry

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: 1871' FWL, 809' FNL, Sec. 11, T16S, R24E
AT TOP PROD. INTERVAL: R24E
AT TOTAL DEPTH:

5. LEASE
U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-11

10. FIELD OR WILDCAT NAME
San Arroyo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 11, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
43-019-30480

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8188' Ungr. GR

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

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

(other) Report Changes in Casing Program

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

DIVISION OF
OIL, GAS & MINING

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.)*

12-1/4 Hole	9-5/8" Casing	1210' Setting Depth	400 sx cement	<i>cemented to surface</i>
8-3/4 Hole	7" Casing	4255' Setting Depth	200 sx cement	
6-1/8 Hole	4-1/2" Casing	7680' - 3811'	TD - 3811'	

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

DATE: 10-2-81

BY: M.S. Minder
Set @ _____

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED W.M. Ryan TITLE Petroleum Engr. DATE September 22, 1981
William A. Ryan

(This space for Federal or State office use)

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

cc: USGS; Div. OG&M; DeGolyer; Coseka; Mono; Operations; ERHenry



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

February 2, 1982

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

Re: See attached

Gentlemen:

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

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

Your prompt attention to the above will be greatly appreciated.

Very truly yours.

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

Well No. Sweetwater Canyon Unit #31-15
Sec. 15, T. 14S, R. 24E
Uintah County, Utah
(July 1981- December 1981)

Well No. Sweetwater Canyon Unit 42-23
Sec. 23, T. 14S, R. 24E
Uintah County, Utah
(September 1981- December 1981)

Well No. Federal #1-5
Sec. 5, T. 10S, R. 23E
Uintah County, Utah
(April 1981- December 1981)

Well No. Federal #21-11
Sec. 11, T. 16S, R. 24E
Grand County, Utah
(October 1981- December 1981).



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

April 5, 1982

Natural Gas Corp. Of Cal.
85 South 200 East
Vernal, Utah 84078

Re: See attached

Gentlemen:

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

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

** If we do not hear from your office within fourteen days, this file will be turned over to the attorney at the Division of Oil, Gas and Mining for legal action.

Thank you for your cooperation relative to the above.

Sincerely,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist

Well No. Sweetwater Canyon Unit #31-15
Sec. 15, T. 14S, R. 24E.
Uintah County, Utah
(January- February 1982)

Well No. Sweetwater Canyon Unit #42-23
Sec. 23, T. 14S, R. 24E.
Uintah County, Utah
(January- February 1982)

Well No. Federal #1-5
Sec. 5, T. 10S, R. 23E.
Uintah County, Utah
(January- February 1982)

Well No. Federal #21-11
Sec. 11, T. 16S, R. 24E.
Grand County, Utah
(January- February 1982)

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078

April 8, 1982

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

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

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

Mr. Bernard Perry
Mono Power Company
P.O. Box 800
Rosemead, CA 91770

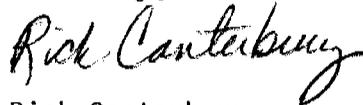
Coseka Resources (USA) Limited
718 17th Street, Suite 630
Denver, CO 80202

Re: NGC #21-11 Federal
Section 11, T.16S., R.24E.
Grand County, Utah
San Arroyo area

Gentlemen:

Attached are copies of Form OGC-1b, Sundry Notices and Reports on
Wells, Notification of Well Status, for the above referenced well.

Sincerely,



Rick Canterbury
Associate Engineer

/kh

Attachment

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

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

5. LEASE DESIGNATION AND SERIAL NO.
U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-11

10. FIELD AND POOL, OR WILDCAT
San Arroyo

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Section 11, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
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. See also space 17 below.)
At surface
1871' FWL, 809' FNL, Sec. 11, T.16S., R.24E.

14. PERMIT NO.
43-019-30480

15. ELEVATIONS (Show whether OP, RT, GR, etc.)
8188' Ungr. GR

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

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

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

This well has been drilled but not completed and therefore status is reported as Operations Suspended.

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

SIGNED Rick Canterbury TITLE Associate Engineer DATE April 7, 1982
Rick Canterbury

(This space for Federal or State office use)

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

cc: USGS; Div. OG&M; DeGolyer; Coseka; Mono; Operations; ER Henry; C.T. Clark

*See Instructions on Reverse Side

4

**NATURAL GAS CORPORATION
OF CALIFORNIA**

85 South 200 East
Vernal, Utah 84078

November 1, 1982

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

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

Coseka Resources (USA) Limited
718 17th Street, Suite 630
Denver, CO 80202

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

Mr. Bernard Perry
Mono Power Company
P.O. Box 800
Rosemead, CA 91770

Re: NGC #21-11 State
Section 11, T.16S., R.24E.
Grand County, Utah
San Arroyo area

Gentlemen:

Attached are copies of Form OGC-3, Well Completion or Recompletion Report and Log, for the subject well.

Sincerely,

William A. Ryan

William A. Ryan
Petroleum Engineer

/kh

Attachment

cc: Operations
C. T. Clark
E. R. Henry
R. Boschee
D. McGinley
J. M. Kunz
M. L. Clarke
I. Chai
S. Furtado

RECEIVED
NOV 04 1982

DIVISION OF
OIL, GAS & MINING

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
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 1871' FWL, 809' FNL, Section 11, T.16S., R.24E.
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-11

10. FIELD AND POOL, OR WILDCAT
San Arroyo

11. SEC., T., R., M., OR BLOCK AND SURVEY OR ARBA
Section 11, T.16S., R.24E.

14. PERMIT NO. 43-019-30480 DATE ISSUED

12. COUNTY OR PARISH Grand 13. STATE Utah

15. DATE SPUDDED 7/13/81 16. DATE T.D. REACHED 9/21/81 17. DATE COMPL. (Ready to prod.) 9/23/82 18. ELEVATIONS (DF, REB, ET, GE, ETC.)* 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7654 21. PLUG, BACK T.D., MD & TVD 7414 22. IF MULTIPLE COMPLETIONS, HOW MANY* 23. INTERVALS DRILLED BY OTHER TOOLS 0-TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)
7420-25 Buckhorn
7330-40 Dakota Sand 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-GR, BHC-Sonic, FDC/CNL, SEL, Dipmeter 27. WAS WELL CORRED no

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#, K-55	1210	12-1/4	400 sx - to surface	
7"	23#, K-55	4255	8-3/4		
4-1/2"	11.6#, N-80	3811-7654	7-7/8		

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	7309	

31. PERFORATION RECORD (Interval, size and number)

7420-7425	- 1 SPF 6 shots 90° 3-3/8 hyperjet II
7330-7340	- 11 holes 1 SPF 90° 3-3/8 hyperjet II

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7420-7425	400 gal 7 1/2% HCL 400 CFN ₂ /bbl
7330-7340	1000 gal 7 1/2% HCL 600 CFN ₂ /bbl

33.* PRODUCTION

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

DATE OF TEST 9/23/82 HOURS TESTED 24 CHOKE SIZE 23/64 PROD'N. FOR TEST PERIOD → OIL—BBL. 0 GAS—MCF. 646 WATER—BBL. 23 GAS-OIL RATIO

FLOW. TUBING PRESS. 340 CASING PRESSURE 560 CALCULATED 24-HOUR RATE → OIL—BBL. 0 GAS—MCF. 646 WATER—BBL. 23 OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS
None

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

SIGNED Wm Ryan TITLE Petroleum Engineer DATE 11/2/82
W. A. Ryan

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

CORRECTED 11/24/82

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

43

5. LEASE DESIGNATION AND SERIAL NO.

U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

21-11

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

Section 11, T.16S.; R.24E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
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 all requirements)*
At surface 1871' FWL, 809' FNL, Section 11, T.16S., R.24E.

At top prod. interval reported below

At total depth

RECEIVED
NOV 26 1982
DIVISION OF OIL, GAS & MINING

14. PERMIT NO. 43-019-30480 DATE ISSUED

12. COUNTY OR PARISH Grand

13. STATE Utah

15. DATE SPUNDED 7/13/81 16. DATE T.D. REACHED 9/21/81 17. DATE COMPL. (Ready to prod.) 9/23/82 18. ELEVATIONS (DF, REB, BT, CR, ETC.)* 8188 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7654 21. PLUG, BACK T.D., MD & TVD 7414 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7330-40 Dakota Sand 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-GR, BHC-Sonic, FDC/CNL, SFL, Dipmeter 27. WAS WELL CORED no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#, K-55	1210	12-1/4	400 sx - to surface	
7"	23#, K-55	4255	8-3/4		
4-1/2"	11.6#, N-80	3811-7654	7-7/8		

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	7309	

31. PERFORATION RECORD (Interval, size and number)

7420-7425 - 1 SPF 6 shots 90°
3-3/8 hyperjet II
7330-7340 - 11 holes 1 SPF 90°
3-3/8 hyperjet II

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7420-7425	400 gal 7 1/2% HCL 400 CFN ₂ /bbl.
7330-7340	1000 gal 7 1/2% HCL 600 CFN ₂ /bbl.

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
WOPL	Flowing	SI WOPL					
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/23/82	24	23/64		0	646	23	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
340	560		0	646	23		

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

Vented

TEST WITNESSED BY

Boyd Snow

35. LIST OF ATTACHMENTS

None

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

SIGNED W^m Ryan
W. A. Ryan

TITLE Petroleum Engineer

DATE 11/2/82

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Mesaverde	1723	
				Castlegate	3515	
				Mancos	3722	
				Mancos B	4321	
				Dakota Sand	7300	
				Cedar Mt.	7350	
				Buckhorn	7406	
				Morrison	7534	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction
reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

21-11

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

Section 11, T.16S., R.24E.

14. PERMIT NO.

43-019-30480

15. ELEVATIONS (Show whether DF, WT, CR, etc.)

8188' GR

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PCLL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SEGGING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other) Request Temporary Surface Pit

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

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

Operator requests an unlined surface pit per NTL-2B, Sec. VI. The subject pit would be used as a blow down pit when the well is flow tested.

If you require additional information, please contact me at our Vernal office - telephone 789-4573.

RECEIVED
NOV 23 1984

DIVISION OF
OIL, GAS & MINING

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

SIGNED

William A. Ryan
William A. Ryan

TITLE Petroleum Engineer

DATE November 15, 1984

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

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

DATE: 12/20/84

*SBY instructions on reverse side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

January 17 1985

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

Gentlemen:

Re: Well No. Federal 21-11 - Sec. 11, T. 16S., R. 24E.
Grand County, Utah - API #43-019-30750

In preparing the file on the above referred to well for microfiching it has been noted that the wrong API number was typed on the letter of approval for this well. The number you have been using is 43-019-30480. This number belongs to another well. The number that was issued and should have been on the letter of approval is #43-019-30750.

Since production information etc. is now being computerized it is necessary to correct this error in your records. We apologize for this inconvenience.

If there are any questions or problems regarding this change, please contact me at 538-5340 and I will be happy to help you in any way I can.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0004S/2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-10423

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

060923

SGW

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

21-11

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

Sec. 11, T16S, R24E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
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.* See also space 17 below.)
At surface
1871' FWL, 809' FNL, NE NW

RECEIVED

JUN 04 1987

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.
43-019-30750

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8188' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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.)*

Natural Gas Corporation of California designates Joel B. Burr, Jr., P.O. Box 50, Farmington, NM as operator of the subject well.

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

SIGNED Karla Hanberg
Karla Hanberg

TITLE Office Supervisor

DATE June 2, 1987

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

*Natural Gas
Corporation of
California*

AS

September 4, 1987

RECEIVED

SEP 8 1987

DIVISION OF OIL
AND GAS

Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: San Arroyo #21-11 Federal
NE/NW Section 11, T16S, R24E
Grand County, UT
Entity #06051

Gentlemen:

Attached are copies of Form 3160-5, "Sundry Notices and Reports on Wells", designating Natural Gas Corporation of California as operator of the subject well.

At this time we are also requesting that this well be added to the "Monthly Oil and Gas Production Report".

Sincerely,

Karla Hanberg

Karla Hanberg
Office Supervisor

Attachments

cc: W. G. Paulsell
S. Furtado
L. Jorgensen
K. Warren

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-10430

SGW

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

090907

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

21-11

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

Sec. 11, T16S, R24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Natural Gas Corporation of California

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

1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1871' FWL, 809' FNL, NE/NW

14. PERMIT NO.
43-019-30750

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8188' GR

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

NOTICE OF INTENTION TO:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

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

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

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

Natural Gas Corporation of CA designated Joel B. Burr, Jr. as operator of the subject well June 2, 1987. Mr. Burr purchased Natural Gas Corporation's interest in the subject well, but failed to meet sales agreement requirements. Therefore, Natural Gas Corporation of California rescinds the original Sundry Notice and requests that we be reinstated as operator.

In a review of our records we found that "Monthly Report of Operations" have never been filed. The status of the well is still waiting on pipeline. Attached are annual reports from November 1982, through August 1987. We will report on a semi-annual basis from now on.

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

SIGNED Karla Hanberg
Karla Hanberg

TITLE Office Supervisor

DATE 9/4/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

RECEIVED
SEP 8 1987

*See Instructions on Reverse Side

Natural Gas
Corporation of
California

RECORDED
DEC 31 1987

DIVISION OF
OIL, GAS & MINING

December 28, 1987

Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, UT 84532

~~Division of Oil, Gas & Mining~~
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: San Arroyo #21-11 Federal
NE/NW Section 11, T16S, R24E
Grand County, UT

San Arroyo #41-20 Federal
NE/NE Section 20, T16S, R25E
Grand County, UT

Gentlemen:

Attached are copies of Form 3160-5, "Sundry Notices and Reports on Wells", designating Beartooth Oil and Gas Company as operator of the subject wells.

If you have any questions, please call me in the Vernal office.

Sincerely,



Karla Hanberg
Office Supervisor

Attachments

cc: W. G. Paulsell
S. Furtado
L. Jorgensen
K. Warren

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

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

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

5. LEASE DESIGNATION AND SERIAL NO.

U-10423

SEW - DR - BK 3

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

030703

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

21-11

10. FIELD AND POOL, OR WILDCAT

San Arroyo

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

Sec. 11, T16S, R24E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug a well. Different proposals use "APPLICATION FOR PERMIT" for such proposals.

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Natural Gas Corporation of California

DEC 31 1987

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

*DIVISION OF
OIL, GAS & MINING*

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

1871' FWL, 809' FNL NE/NW

14. PERMIT NO.
43-019-30750

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8188' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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

N6700

N1790

Natural Gas Corporation of California designates Beartooth Oil and Gas Company, P.O. Box 2564, Billings, MT 59103, as operator of the subject well effective September 1, 1987.

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

SIGNED *Karla Hanberg*
Karla Hanberg

TITLE Office Supervisor

DATE 12/28/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

COMPANY: BEARTOOTH O & G UT ACCOUNT # U1790 SUSPENSE DATE: _____

WELL NAME: FED 21-11

API #: 43 019 30750

SEC, TWP, RNG: 11 165 24E

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: _____

CONTACT TELEPHONE NO.: 1-406-259-2451

SUBJECT: PROD ZONE? DKTA

DK-BK

JOHN -
SHD PZ BE DKTA
OR DK-BK?

(Use attachments if necessary)

RESULTS: PER CALL TO BEARTOOTH
USE DK-BK PZ.

MY 1ST THOUGHT WOULD
BE DK-BK, BUT THE
WCR WITH DKTA WAS
RECEIVED LATER.

PLEASE ADVISE.

(Use attachments if necessary)

CONTACTED BY: VC

DATE: 4-25-88

Vicky
4-22-88

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

RECOMPLETION

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR: _____

3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____ PHONE NUMBER: _____

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: _____
AT TOP PRODUCING INTERVAL REPORTED BELOW: _____
AT TOTAL DEPTH: _____

5. LEASE DESIGNATION AND SERIAL NUMBER: _____

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT or CA AGREEMENT NAME _____

8. WELL NAME and NUMBER: _____

9. API NUMBER: _____

10 FIELD AND POOL, OR WILDCAT _____

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____

12. COUNTY _____ 13. STATE **UTAH**

14. DATE SPUDDED: _____ 15. DATE T.D. REACHED: _____ 16. DATE COMPLETED: _____ ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): _____

18. TOTAL DEPTH: MD _____ TVD _____ 19. PLUG BACK T.D.: MD _____ TVD _____ 20. IF MULTIPLE COMPLETIONS, HOW MANY? * _____ 21. DEPTH BRIDGE PLUG SET: MD _____ TVD _____

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) _____

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES NO IF YES -- DATE FRACTURED: _____

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Federal 21-11 WORK OVER REPORT

- 9-29-2015 Perforated off depth below Castlegate 3532-42'
W/ 4SPF total of 40 Shots.
- 9-30- to 10-6-2015
Tried to get well to produce. Figured out off depth
Problem.
- 10-7-2015 Perforated Castlegate Formation 3519 to 27' on depth
to open hole logs. Well Flowed 170 MCFG/D natural.
- 10-8-2015 Nipped up wellhead and refurbished production lines
and equipment.
- 10-13-2015 Turned well onto sales line at a controlled rate of 100
MCFD.