Natural Gas Corporation of California

RECEIVED

AUG 15 1984

DIVISION OF OIL GAS & MINING

NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC

August 14, 1984

Bureau of Land Management
Branch of Fluid Minerals
Vernal District
170 South 500 East
Vernal, UT 84078

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

Re: NGC #24-20 Federal
SE SW¼ Sec. 20, T.8S., R.22E.
Uintah County, UT
Glen Bench Unit

Gentlemen:

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

1) Application for Permit to Drill
2) Conditions of Approval for Notice to Drill
3) 13 Point Surface Use Plan
4) Surveyor's Plat

Your early consideration and approval of this application would be appreciated. Please contact this office if you have any questions concerning this application.

Sincerely,

William A Ryan

William A. Ryan
Petroleum Engineer

/kh

Encls.

cc: P. Roberts
R. Langenwalter
Land Dept.
L. Jorgensen

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

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Glen Bench Unit

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: Natural Gas Corporation of California

9. WELL NO.: #24-20

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

10. FIELD AND POOL, OR WILDCAT: ~~Glen Bench~~ NAT. BUTTES

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2071' FWL, 707' FSL, Sec. 20, T.8S., R.22E. SE¼ SW¼

At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20, T.8S., R.22E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 15 miles southeast of Vernal, UT

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
707'	1785	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
2864'	5000'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4809' Un. Gr.

22. APPROX. DATE WORK WILL START*: August 20, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	8-5/8	24#	270'	To surface
7-7/8	5-1/2	15.5#	T.D.	1850' Top of cement

RECEIVED
AUG 15 1984
DIVISION OF OIL
GAS & MINING

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/20/84
BY: John R. Baza

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 William A Ryan William A. Ryan TITLE Petroleum Engineer DATE August 13, 1984

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

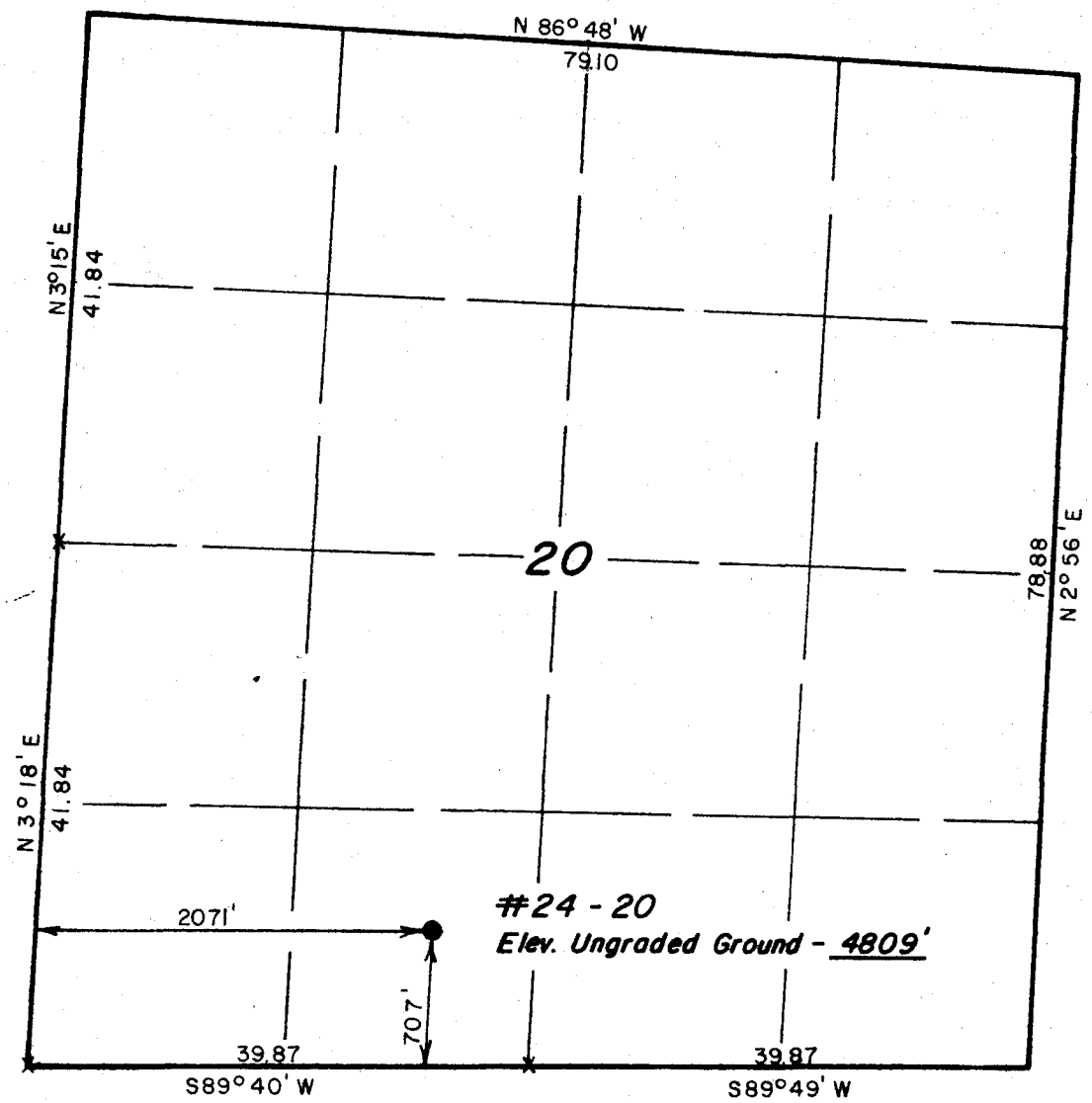
CONDITIONS OF APPROVAL, IF ANY:

cc: BLM; Div. OG&M; PRoberts; RLangenwalter; Land; LJorgensen

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T8S, R22E, S.L.B. & M.



X = Section Corners Located

PROJECT

NATURAL GAS CO. OF CALIF.

Well location, #24-20, located as shown in the SE 1/4 SW1/4 Section 20, T8S, R22E, S.L.B. & M. Uintah 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.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 2454
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 7/10/84
PARTY GS, BR PT	REFERENCES GLO
WEATHER Hot	FILE NATURAL GAS

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Natural Gas Corp. of CA Well No. 24-20

Location Section 20 T8S R22E Lease No. U-9617

Onsite Inspection Date 7-31-84

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Pressure Control Equipment

Prior to drilling out the surface casing shoe, the ram-type preventers shall be tested to 2,000 psi and the annular-type preventers shall be tested to 1,500 psi.

The choke manifold system will be consistent with API RP 53.

B. THIRTEEN POINT SURFACE USE PLAN

1. Planned Access Roads

The conditions of approval have been incorporated in the Surface Use Plan. However, also in that plan is a proposal for a planned second access road connecting the 24-20 location with the 23-21 location. We are withholding action on this requested loop road and will consider it as an action separate from the rest of the APD. Therefore, this proposal in item 2.(9) of the 13 point surface use plan is not authorized.

The only access authorized for well 24-20 is that proceeding in a northwesterly direction to tie in with existing road in section 20 near the 13-20 well. This would involve almost .5 mile of new access road construction and would provide adequate access for the construction and drilling activities proposed at the 24-20 location. The APD is approved with the stipulation that the requested connection between the 24-20 location and 23-21 location is not authorized.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Natural Gas Corporation of California Well No. 24-20

Location Sec. 20 T.8S R.22E Lease No. U-9617

Onsite Inspection Date July 31, 1984

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Formation	Depth	Datum
Uintah	Surface	4809' Un. Gr.
H Marker	4015'	+ 819'
K Marker	4629'	+ 205'
Pay Sand	4775'	+ 59'
T.D.	5000'	- 166'

2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

	Formation	Zone
Expected oil zones:	Pay Sand	4775-4805
Expected gas zones:		
Expected water zones:		
Expected mineral zones:	Oil Shale	Top 1850

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

A 3000 WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8-5/8" surface casing. The BOP system including the casing will be pressure tested to a minimum of 1500 psi for 30 mins. prior to drilling and will be mechanically checked daily during drilling operations.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

4. Casing Program and Auxiliary Equipment:

Hole Size	Casing Size	Weight/Ft.	Depth	Csg. New/Used	Cement Top
12-1/4	8-5/8	24#	270'	New	Surface
7-7/8	5-1/2	15.5#	T.D.	New	1850'

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

Auxiliary equipment will be upper kelly cock, full opening stabbing valve, 2½" choke manifold, and pit level indicator.

5. Mud Program and Circulating Medium:

Interval	Mud Weight lbs./gal.	Viscosity Sec./Qt.	Fluid Loss ML/30 mins.	Mud Type
0-300	---	---	---	Air
300-4500	8.3	27	No Control	Water
4500-TD	8.3 - 9.0	27	No Control	Brine Water

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

6. Testing, Coring, Sampling and Logging:

a. Testing: None.
b. Coring: None.
c. Sampling: 30' intervals, 300-3000', 10' intervals, 3000-TD
d. Logging:

Type	Depth
DIL w/GR	T.D. - Surface Casing
FDC/CNL	T.D. - 2500'

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Normal pressure and temperature gradients are expected (BHP - 2165 psi). No hazardous gasses have been encountered in this area at this depth.

8. Anticipated Starting Dates and Notifications of Operations:

Location construction: August 20, 1984
Spud Date: September 5, 1984

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Venting of gas will be in accordance with Rule C-27 of the Utah Oil, Gas & Mining Division and NTL-4A.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

13 Point Surface Use Plan

1. Existing Roads:

See attached topographic map A.

Proceed west from Vernal, Utah on U.S. Highway 40 for approximately 15 miles to the Ouray turnoff. Proceed south on Highway 88 for about 18 miles to Ouray. From Ouray go across the Green River Bridge and take the first left. Follow this road for about 10.2 miles and take the existing road to the left. Follow this road for 3.5 miles to NGC Well #13-20. The proposed road will start at this point.

2. Planned Access Road:

See attached topographic map B.

The proposed access road will be .5 mile long and will be constructed to the following standards:

1) Width - The running surface will be 18 feet and the total disturbance width including the ditches will not exceed 30 feet.
2) Maximum grade - 2%.
3) Turnouts - None planned.
4) Drainage designs - Ditches will be constructed on each side of the road, V-shaped, 1 foot deep at 3:1 slopes.
5) Location and size of culverts, major cuts and fills - Antelope Draw has a major wash with 6' side walls and a width of 30 to 60 feet. The new road will cross this wash approximately 200' from the start of construction. A low water crossing will be constructed with cobble rock used as a base in the wash. The ramps in and out of the wash will be crowned and ditched.
6) Surfacing materials - Gravel for road and cobble rock for wash crossing.
7) Gates, cattleguards, or fence cuts - None.
8) The proposed road has been flagged.
9) Natural Gas Corporation of California requests that a road be constructed through the 24-20 location to our 23-21 location. This road is being requested for a number of reasons:
   a) Most of the oil produced is going to the Grand Junction refinery approximately 16 miles round trip mileage will be reduced.
   b) The past two springs, all oil produced has been moved out via the Glen Bench Road due to high water.
   c) If the subject well is a producer, we propose to drill additional wells in the SE¼ of Section 20.
   d) Some gas is being produced at the existing oil wells. It may become economical in the near future to install a gathering line which could be laid along the road right-of-way.
   e) Access to water for drilling and completions has been difficult to obtain from the Ute Tribe. This road would provide for a shorter haul to Red Wash if it were required.
   f) Gulf has started to drill in this area and the road would provide a shorter route for them also.

g) Please see attached map for proposed road and location of existing wells.

h) Without the access road there will be a certain amount of temptation to drive cross country thus starting a two track, uncontrolled or maintained by an operator.

3. Location of Existing Wells:

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

1) Water wells - None.
2) Abandoned wells - 22-29, Sec. 29, T.8S., R.22E.
3) Temporarily abandoned wells - 23-21, Sec. 21, T.8S., R.22E.
4) Disposal wells - None.
5) Drilling wells - None.
6) Producing wells - 31-30, Sec. 30, T.8S., R.22E.; 44-19 & Gulf Well, Sec. 19, T.8S., R.22E.; 31-20, 22-20, 13-20, Sec. 20, T.8S., R.22E.
7) Shut-in Wells - None.
8) Injection wells - None.
9) Monitoring or observation wells for other resources - None.

4. Location of Tank Batteries and Production Facilities::

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5 State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1½ times the storage capacity of the battery.

Tank batteries will be placed on the southeast half of the pad between #4 and #5.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each gas well will be located within 500 feet of the wellhead.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from the Green River at the Mountain Fuel Bridge, if access can be obtained from the Ute Tribe. Water may be hauled from Ouray or Red Wash if the access agreement cannot be made. A fourth access on private surface may be used to reach the Green River.

6. Source of Construction Material:

All construction materials for this location site and access road will be borrow materials, accumulated during construction of the location site. Road gravels or other materials from other sources are anticipated at this time. The appropriate actions will be taken to acquire them from private sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. Methods of Handling Waste Disposal:

The reserve pit will not be lined with a plastic liner.

Burning will not be allowed. All trash must be contained and disposed of in a trash cage and hauled to a sanitary landfill.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

See typical rig layout.

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

All disturbed areas not needed for production or workover will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the areas to be seeded. All areas to be reseeded will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. Also, if broadcast, the amount of seed should be proportionately larger to total 14 lbs. per acre.

The BLM will be consulted for a suitable seed mixture for the reseeding of the location.

If the well is abandoned, the entire disturbed area (including roads) will be restored by: (1) backfilling; (2) recontouring; (3) topsoiling; (4) seeding. Specifically, the platform highwall(s) and road fill(s) will be eliminated by moving all excavated material back in place. Restoration of the location and access road will begin within 90 days after completion of the well. If the access road is restored, an attempt will be made to block road to restrict vehicle use.

11. Surface and Mineral Ownership:

Federal - Surface and Minerals.

12. Other Information:

1) No known historical or archaeological sites are known to exist in this area. An archaeological survey has been conducted on the proposed location and access road and the area has been cleared. If any cultural resources are located during construction, all work will be stopped and the BLM notified.
2) Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes should be in accordance with the surface use standards as set forth in the booklet "Surface Operating Standards for Oil and Gas Exploration and Development".
3) The dirt contractor will be furnished an approved copy of the surface use plan and any additional BLM stipulations prior to starting work.
4) The well is within the limits of the requirements of State Spacing Rule C-3.

13. Lessee's of Operators Representative and Certification

Representative

Name: William A. Ryan

Address: 85 South 200 East, Vernal, UT 84078

Phone No. (801) 789-4573

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

August 13, 1984
Date

William A Ryan
William A. Ryan, Petroleum Engineer

ON-SITE

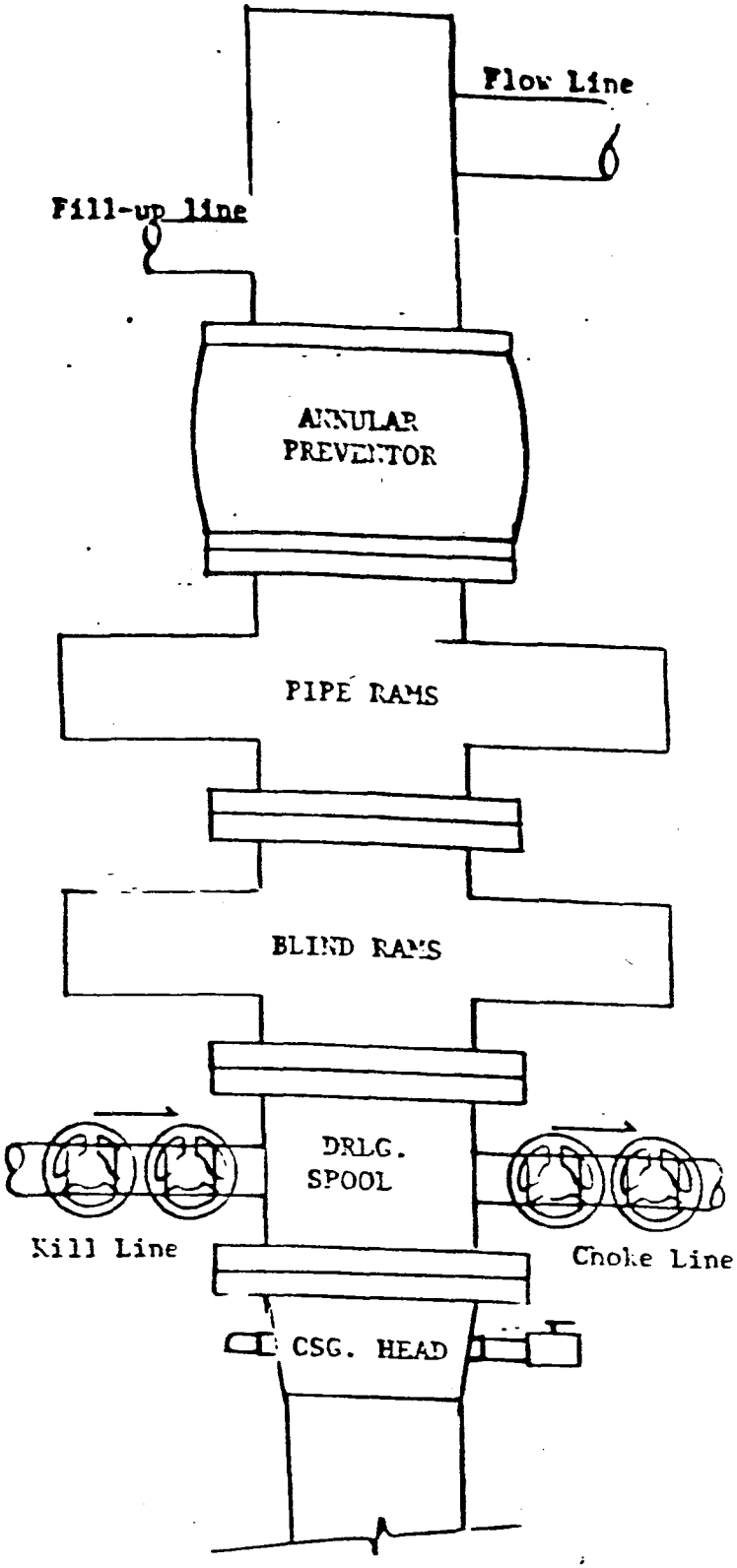
DATE: 7/31/84

PARTICIPANTS:

Greg Darlington - BLM
Bill Ryan and Eric Hadsell - NGC

NATURAL GAS CORPORATION
OF
CALIFORNIA

BOP AND PRESSURE CONTAINMENT DATA



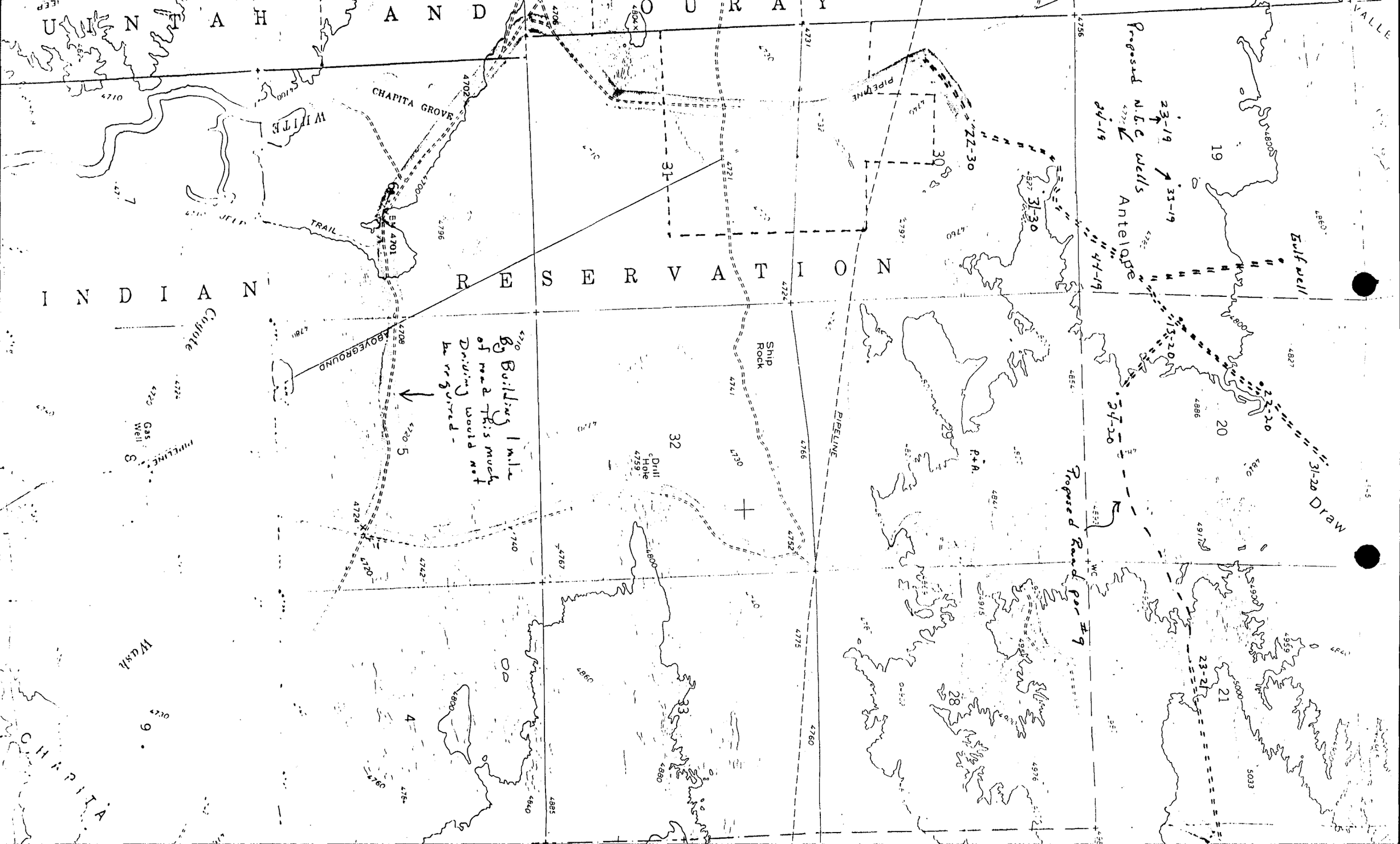
1. BOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventors, one equipped w/pipe rams, the other w/blind rams.

2. BOP's are to be well braced w/ hand controls extended clear of substructure.

3. Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.

4. All BOP equipment to be tested to 1500# for 30 minutes. The BOP's will be tested at the time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.

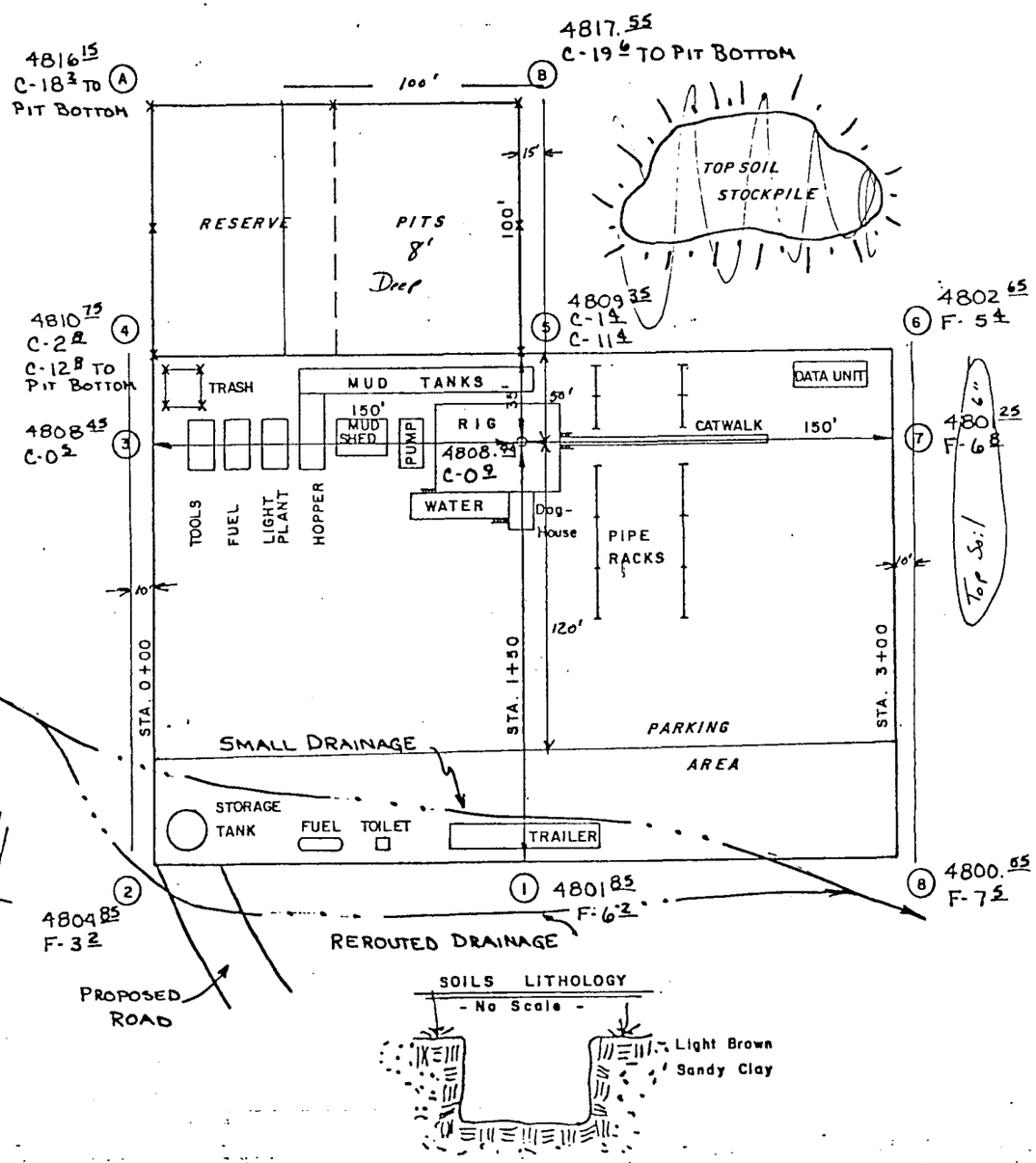
5. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

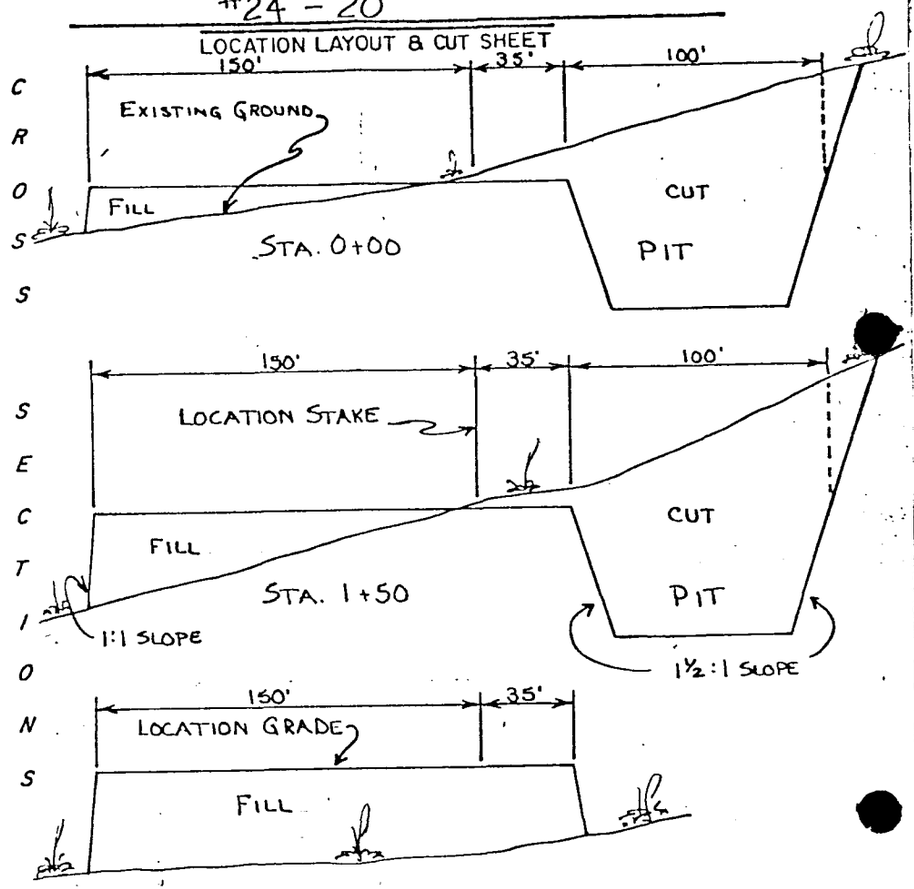

U I N T A H A N D O U R A Y
INDIAN R E S E R V A T I O N
CHAPITA GROVE
WILLIE
JEEP TRAIL
ABOVEGROUND PIPELINE
PIPELINE
Ship Rock
Drill Hole 4759
Gas Well
P+A.
Proposed Road per #9
Proposed N.G.C. wells
23-19
33-19
24-19
Antelope
22-30
31-30
44-19
13-20
34-20
22-20
31-20 Draw
Gulf well
By Building 1 mile of road this much Driving would not be required -
19
20
21
28
29
30
31
32
33
4
5
9
CHAPITA

NATURAL GAS CORP. OF CALIF.

#24 - 20

SCALE: 1" = 50'
DATE: 7/10/84



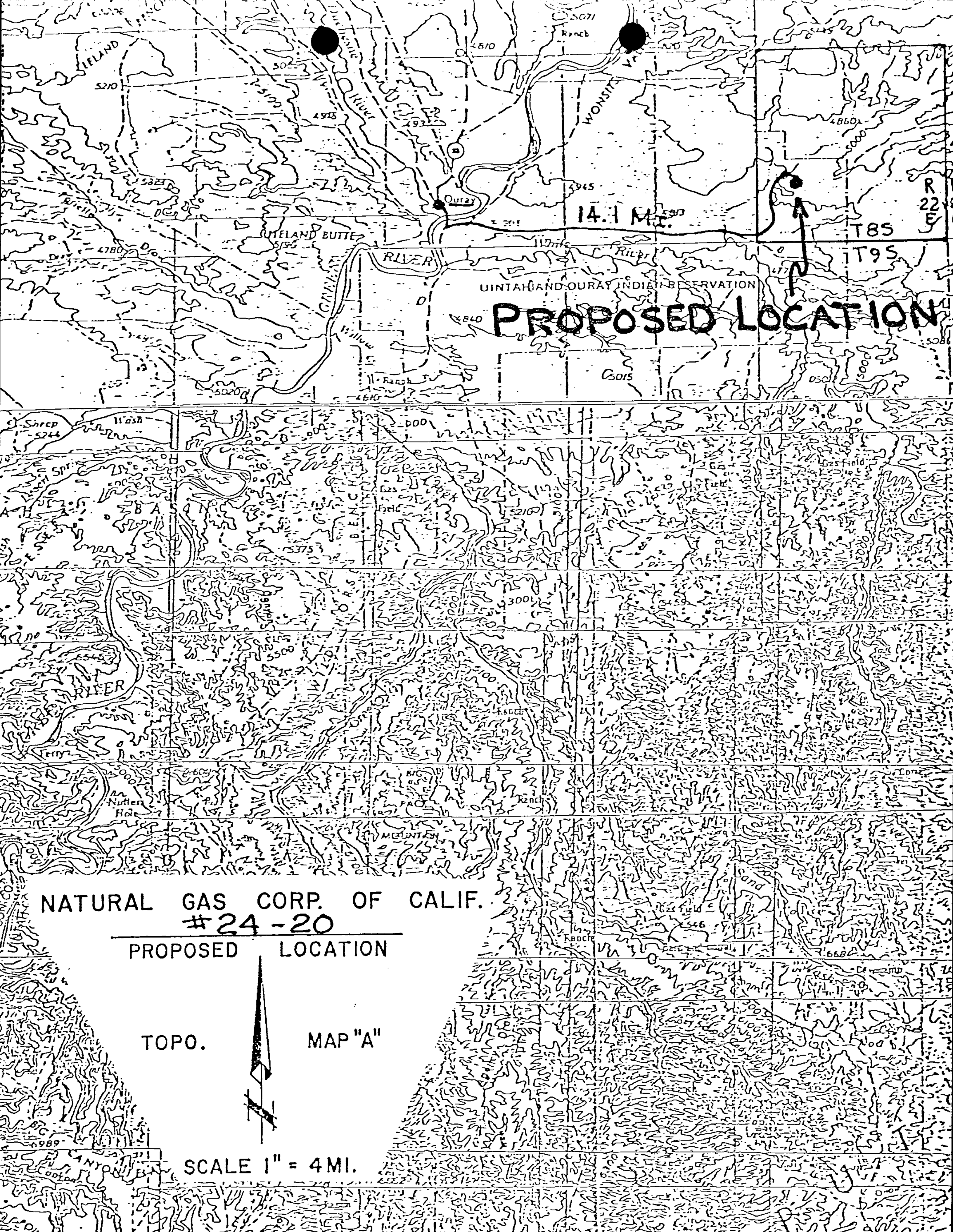


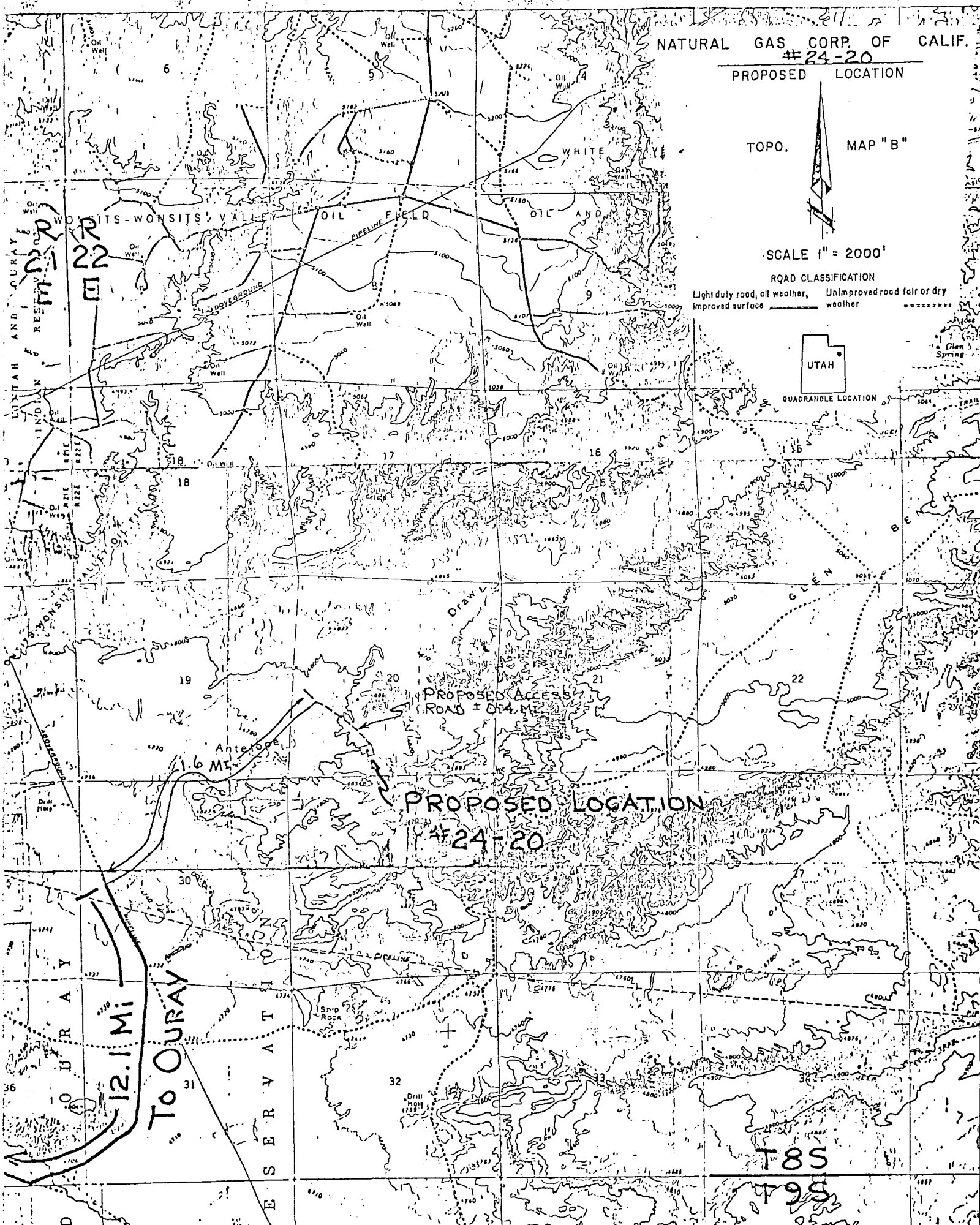
Scales
1" = 10'
1" = 50'

APPROX. YARDAGES

Cubic Yards Cut - 8,858

Cubic Yards Fill - 7,293


NATURAL GAS CORP. OF CALIF.
#24-20
PROPOSED LOCATION
TOPO. MAP "A"
SCALE 1" = 4 MI.
PROPOSED LOCATION
14.1 MI.
R 22 E
T8S
T9S
UINTAH AND OURAY INDIAN RESERVATION
Ouray
LELAND BUTTE
RIVER
GREEN RIVER
WONSITS


NATURAL GAS CORP. OF CALIF.
#24-20
PROPOSED LOCATION
TOPO. MAP "B"
SCALE 1" = 2000'
ROAD CLASSIFICATION
Light duty road, all weather, improved surface
Unimproved road fair or dry weather
UTAH
QUADRANGLE LOCATION
WONSITS-WONSITS VALLEY OIL FIELD
PIPELINE
WHITE RIVER
Glen Springs
Draw
Antelope
PROPOSED ACCESS ROAD ± 0.4 MI.
1.6 MI.
PROPOSED LOCATION #24-20
12.1 Mi
To OURAY
T8S
T9S
R22E
R23E
UINTAH AND OURAY RESERVATION

OPERATOR Natural Gas Corp of Ca. DATE 8-16-84

WELL NAME Glen Bench Unit #24-20

SEC SESW 20 T 8S R 22E COUNTY Uintah

43-047-31530
API NUMBER

Fed
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX ☐ MAP ☐ HL

☐ NID ☐ ☐ PI

PROCESSING COMMENTS:
Unit Well - K on P.O.D.
Need water permit

CHIEF PETROLEUM ENGINEER REVIEW:

APPROVAL LETTER:

SPACING: ☑ A-3 Glen Bench UNIT ☐ c-3-a CAUSE NO. & DATE

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:
1- Water

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [ ] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT Glen Bench
  - [ ] c-3-b
  - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [ ] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.
- [x] VERIFY LEGAL AND SUFFICIENT DRILLING WATER

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

August 20, 1984

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

Gentlemen:

RE: Well No. Glen Bench Unit #24-20 - SESW Sec. 20, T. 8S, R. 22E
707' FSL, 2071' FWL - Uintah County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31530.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

RJF/as

Enclosures

cc: Branch of Fluid Minerals

cs/oc

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-047-31530

NAME OF COMPANY: NATURAL GAS CORP OF CALIFORNIA

WELL NAME: GLEN BENCH #24-20

SECTION SESW 20 TOWNSHIP 8S RANGE 22E COUNTY Uintah

DRILLING CONTRACTOR Leon Ross

RIG # _____

SPUDDED: DATE 9-8-84

TIME 9:00 AM

HOW Dry Hole Digger

DRILLING WILL COMMENCE Brinkerhoff - Rig #85 (Approx. 9-12-84)

REPORTED BY Bill Ryan

TELEPHONE # 789-4573

DATE 9-10-84 SIGNED AS

Natural Gas
Corporation of
California

September 11, 1984

Bureau of Land Management
Branch of Fluid Minerals
Vernal District
170 South 500 East
Vernal, UT 84078

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

Re: NGC #24-20 Federal
SE SW¼ Sec. 20, T.8S., R.22E.
Uintah County, UT
Glen Bench Unit

Gentlemen:

Attached are copies of Form 3160-5, Sundry Notices and Reports on Wells, Report of Spud, for the subject well.

Yours truly,

William A. Ryan
Petroleum Engineer

/kh

Attachment

cc: P. Roberts
R. Langenwalter
Land Dept.
L. Jorgensen

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

Form 3160-5
(November 1983)
(Formerly 9-331)

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

3

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Glen Bench Unit

2. NAME OF OPERATOR: Natural Gas Corporation of California

8. FARM OR LEASE NAME: Federal

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

9. WELL NO.: #24-20

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2071' FWL, 707' FSL, Section 20, T.8S., R.22E. SE¼ SW¼

10. FIELD AND POOL, OR WILDCAT: Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 20, T.8S., R.22E.

14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
43-047-31530	4809' UN. GR.	Uintah	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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other) Report Spud			[X]	(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 reports subject well spudded by Leon Ross Drilling w/dry hole digger @ 9:00 a.m. on Septemter 8, 1984. 280' of 8-5/8" 24# surface pipe was cemented in a 12-1/4" hole. On the same date, 200 sks of Class H Cement w/2% $CaCl_2$ and 50# of Cello-Seal were used to cement w/good return to surface - cement didn't fall back.

RECEIVED
SEP 12 1984
DIVISION OF OIL
GAS & MINING

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

SIGNED William a Ryan TITLE Petroleum Engineer DATE 9-10-84
William Ryan

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Copy 24-20 well file

TARGET TRUCKING, INC.

2960 NORTH 500 EAST
VERNAL, UTAH 84078
(801) 789-5756

September 12, 1984

RECEIVED
SEP 17 1984
DIVISION OF OIL
GAS & MINING

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

Dear Sirs:

This is to inform that Target Trucking will be supplying drilling water for drilling and completing well #Glen Bench 24-20 from Ouray Brine Company at Ouray, Utah.

Water is metered and purchased from the Ute Indian Tribe from Ouray City water line.

Sincerely,

Target Trucking, Inc.

Dan H. McKee
President

DHM/jk

Natural Gas
Corporation of
California

October 15, 1984

Bureau of Land Management
Branch of Fluid Minerals
170 South 500 East
Vernal, UT 84078

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

Mr. Sam Boltz, Jr.
Chorney Oil Company
555 17th Street, Suite 1000
Denver, CO 80202-3910

Mr. John Baker
DeGolyer & MacNaughton
No. 1 Energy Square
Dallas, TX 75206

Re: NGC #24-20 Federal
SE SW¼ Sec. 20, T.8S., R.22E.
Uintah County, UT
Glen Bench Unit

Gentlemen:

Attached are copies of Form 3160-5, Sundry Notices and Reports on Wells, Notice of Intention to Abandon and Subsequent Report of Abandonment, for the subject well.

Yours truly,

William A. Ryan
Petroleum Engineer

/kh

Attachment

cc: P. Roberts
Land Dept.
L. Jorgensen
S. Furtado

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

Natural Gas
Corporation of
California

October 16, 1984

Bureau of Land Management
Branch of Fluid Minerals
170 South 500 East
Vernal, UT 84078

Mr. Sam Boltz, Jr.
Chorney Oil Company
555 17th Street, Suite 1000
Denver, CO 80202-3910

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

Mr. John Baker
DeGolyer & MacNaughton
No. 1 Energy Square
Dallas, TX 75206

Re: NGC #24-20 Federal
SE SW¼ Sec. 20, T.8S., R.22E.
Uintah County, UT
Glen Bench Unit

Gentlemen:

Attached are copies of Form 3160-4, Well Completion or Recompletion Report and Log, for the subject well.

Yours truly,

William A Ryan

William A. Ryan
Petroleum Engineer

/kh

Attachment

cc: P. Roberts
Land Dept.
L. Jorgensen
S. Furtado

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

Form 31[illegible]-4
(November 1983)
(Formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

14

8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Glen Bench Unit

8. FARM OR LEASE NAME: Federal

9. WELL NO.: #24-20

10. FIELD AND POOL, OR WILDCAT: ~~Glen Bench~~ Natural Buttes

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 20, T.8S., R.22E.

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

RECEIVED
OCT 19
DIVISION OF OIL, GAS & MINING

2. NAME OF OPERATOR: Natural Gas Corporation of California

3. ADDRESS OF OPERATOR: 85 South 200 East, Vernal, Utah 84078 (801)789-4573

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2071' FWL, 707' FSL, SE¼ SW¼
At top prod. interval reported below: Section 20, T.8S., R.22E.
At total depth:

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-31530	8/20/84	Uintah	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-8-84	9-20-84	P & A 9-23-84	4809' UN. GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5005'			→	0-T.D.	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL w/GR, FDC/CNL, Cy

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
8-5/8	24#	280'	12-1/4	200 Sks Class H	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*): None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

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

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Geological report to follow

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

SIGNED William A Ryan William A. Ryan TITLE Petroleum Engineer DATE 10/15/84

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River ~~H Marker~~	Surface ~~4013'~~	
Garden Gulch ~~K Marker~~	4013 ~~4624'~~	
Douglas Creek ~~Pay Sand F1~~	4624 ~~4782' OK~~	
Green River	T. D.	

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: Dry hole

7. UNIT AGREEMENT NAME: Glen Bench Unit

2. NAME OF OPERATOR: Natural Gas Corporation of California

8. FARM OR LEASE NAME: Federal

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

9. WELL NO.: #24-20

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2071' FWL, 707' FSL, SW¼ SW¼ Section 20, T.8S., R.22E.

10. FIELD AND POOL, OR WILDCAT: Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 20, T.8S., R.22E.

14. PERMIT NO.: 43-047-31530

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4809' UN.GR.

12. COUNTY OR PARISH: Uintah

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	XX	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☒
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Operator reports the subject well was P & A'd (in the following manner) per verbal instructions received 9/22/84 from the BLM in Vernal.

Plug #1 4700' - 4800' w/35 sx Class "H"
2 2300' - 2500' w/70 sx Class "H"
3 1300' - 1500' w/70 sx Class "H"
4 250' - 350' w/35 sx Class "H"

RECEIVED
OCT 19 1984
DIVISION OF OIL GAS & MINING

ACCEPTED ~~APPROVED~~ BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/23/84
BY: John R. Baza

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

SIGNED William A Ryan TITLE Petroleum Engineer DATE 10/15/84

~~William A. Ryan~~

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
GLEN BENCH	24-20	2	3404.' - 3487.'	NATURAL GAS CORPORATION

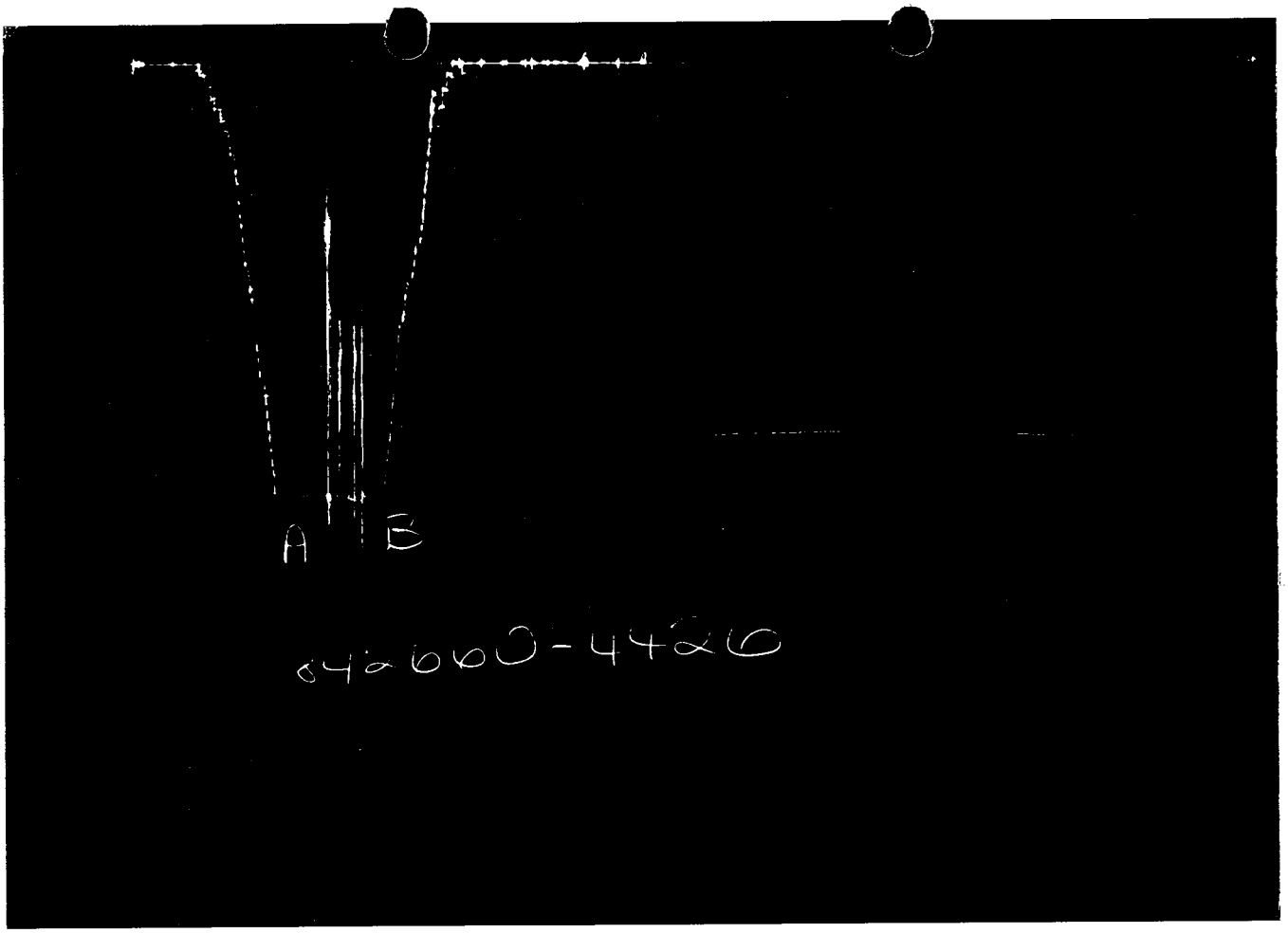
LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
20 - 8 SOUTH - 22 EAST	GLEN BENCH	UINTAH	UTAH

PW

HALLIBURTON
SERVICES

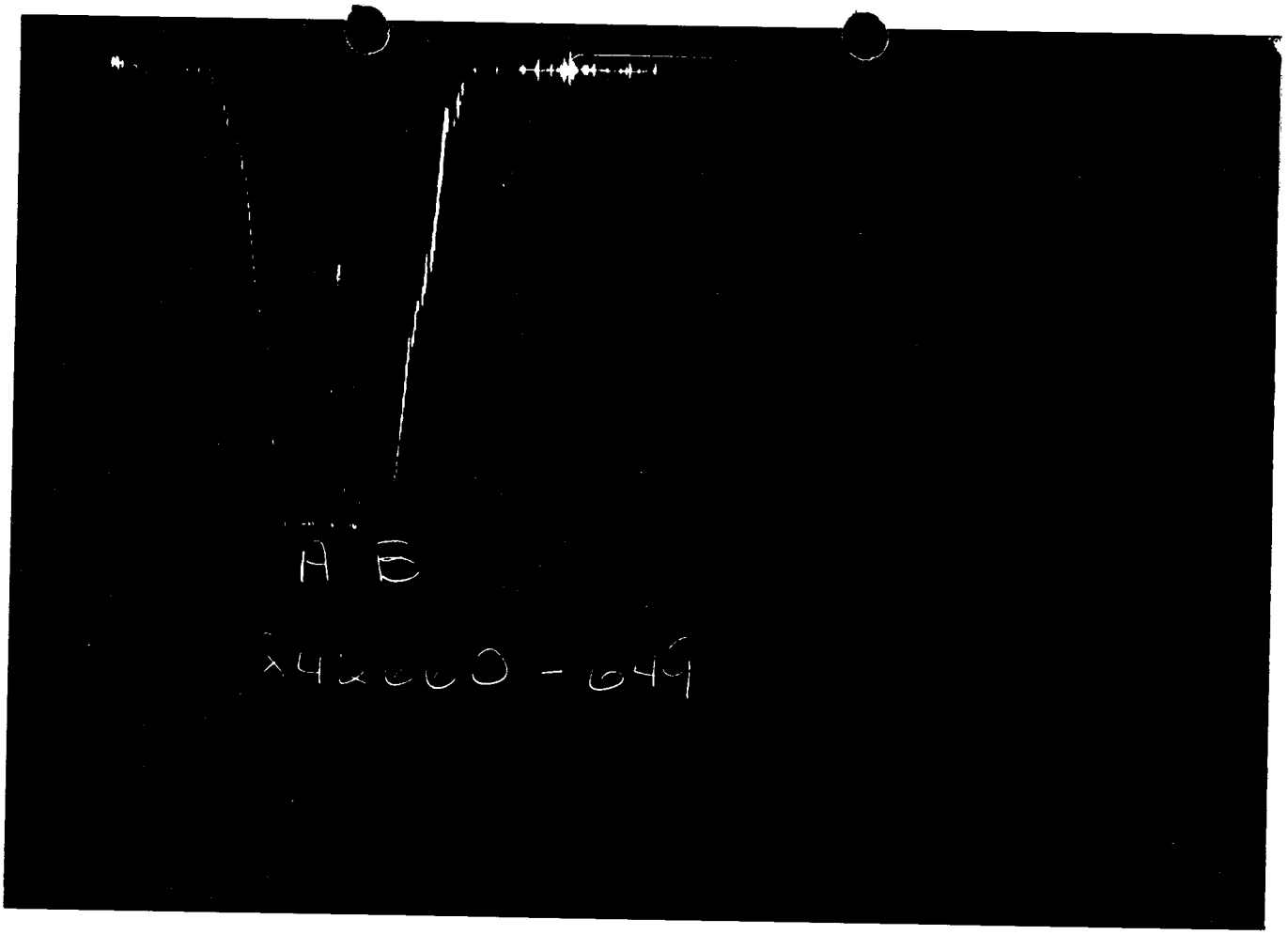
TICKET NO. 84266000
02-OCT-84
VERNAL

FORMATION TESTING SERVICE REPORT



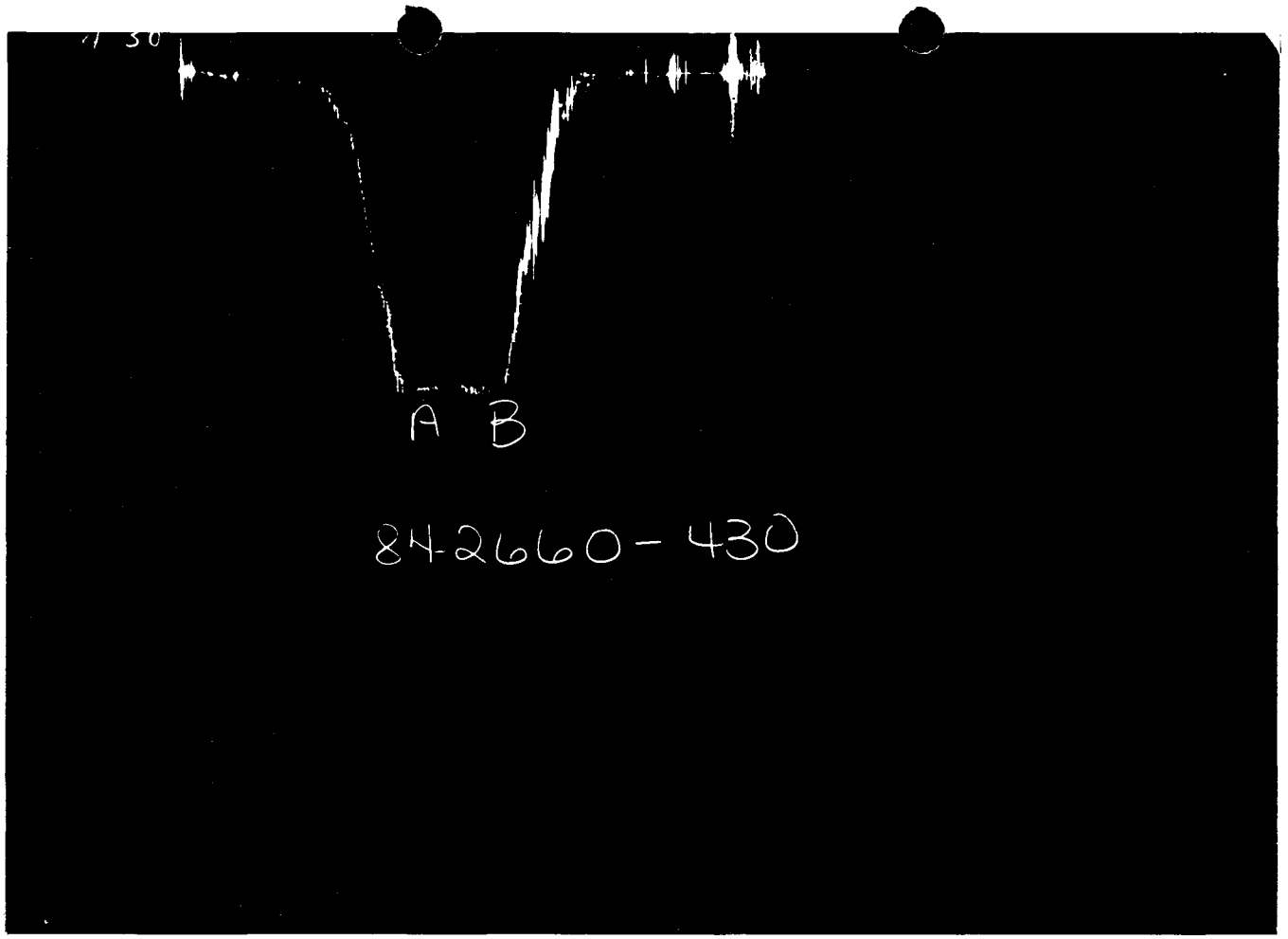
GAUGE NO: 4426 DEPTH: 3380.6 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1665.1				
B	FINAL HYDROSTATIC	1658.1				



GAUGE NO: 649 DEPTH: 3448.9 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1693.5				
B	FINAL HYDROSTATIC	1684.5				



GAUGE NO: 430 DEPTH: 3508.8 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1726.6				
B	FINAL HYDROSTATIC	1719.8				

EQUIPMENT & HOLE DATA

FORMATION TESTED: GREEN RIVER
NET PAY (ft):
GROSS TESTED FOOTAGE: 82.6
ALL DEPTHS MEASURED FROM: KB
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 4820
TOTAL DEPTH (ft): 5009.0
PACKER DEPTH(S) (ft): 3397, 3404, 3487, 3493
FINAL SURFACE CHOKE (in): 0.250
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.20
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): ___ @ ___ ft

TICKET NUMBER: 84266000

DATE: 9-22-84 TEST NO: 2

TYPE DST: OFF BTM STRADDLE

HALLIBURTON CAMP: VERNAL

TESTER: CLIFFORD L. RICHARDS

WITNESS: TOM ???

DRILLING CONTRACTOR: BRINKERHOFF SIGNAL #85

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

MEASURED FROM TESTER VALVE

REMARKS:

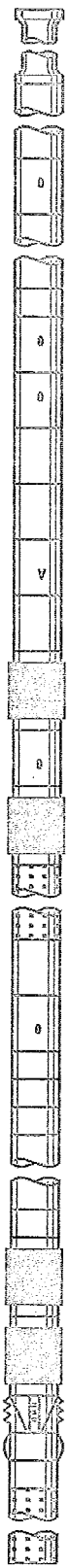
- UNABLE TO GET PACKERS TO HOLD -

ELEVATION REPORTED AT GROUND LEVEL

TYPE & SIZE MEASURING DEVICE: ____________________ TICKET NO: 84266000

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
9-21-84					
2300					ON LOCATION
2315					STARTED CLOCKS AND PICKED-UP
					TOOLS.
9-22-84					
0105					TRIPPED IN HOLE
0300					PICKED-UP FLOOR MANIFOLD AND
					FLOW HEAD.
0316					SET PACKERS
0320					OPENED TOOL - ANNULUS FALLING
					SLOWLY.
0335					ATTEMPTED TO MOVE PACKERS TO
0510					GET TEST.
0530					TRIPPED OUT OF HOLE
0830					OUT OF HOLE WITH TOOLS
0835					BROKE DOWN TOOLS AND LOADED
					OUT.
1100					JOB COMPLETED

TICKET NO. 84266000



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	2810.5	
3	DRILL COLLARS.....	6.500	2.250	463.3	
50	IMPACT REVERSING SUB.....	5.875	3.250	1.0	3273.8
3	DRILL COLLARS.....	6.500	2.250	92.0	
5	CROSSOVER.....	6.000	2.500	1.0	
13	DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	3378.6
80	AP RUNNING CASE.....	5.000	3.060	4.1	3380.6
15	JAR.....	5.000	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	2.8	
97	PRESSURE EQUALIZER (TOP SUB)....	5.000	0.500	1.0	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3396.6
18	DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3404.4
20	FLUSH JOINT ANCHOR.....	5.750	2.870	38.0	
98	PRESSURE EQUALIZER (BOTTOM SUB).	4.500	1.500	1.7	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.1	3448.9
5	CROSSOVER.....	5.000	2.375	0.6	
5	CROSSOVER.....	5.500	2.750	0.8	
5	CROSSOVER.....	6.000	3.250	0.7	
3	DRILL COLLARS.....	6.500	2.250	31.0	
5	CROSSOVER.....	6.000	2.500	1.1	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3487.0
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3492.8
90	SIDE WALL ANCHOR.....			6.3	
5	CROSSOVER.....	5.750	2.625	0.7	
20	FLUSH JOINT ANCHOR.....	5.750	2.870	8.0	

CONTINUED

EQUIPMENT DATA

TICKET NO. 84266000

			O.D.	I.D.	LENGTH	DEPTH
81		BLANKED-OFF RUNNING CASE.....	5.750		4.1	3508.8
		TOTAL DEPTH				5009.0

EQUIPMENT DATA

LEASE NAME	WELL NO.	TEST NO.
GLEN BENCH	24-20	1

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
SEC. 20 T 8S - R 22E	GLEN BENCH	UINTAH	UTAH NM

TESTED INTERVAL: 4784.' - 4855.'

LEASE OWNER/COMPANY NAME: NATURAL GAS CORPORATION

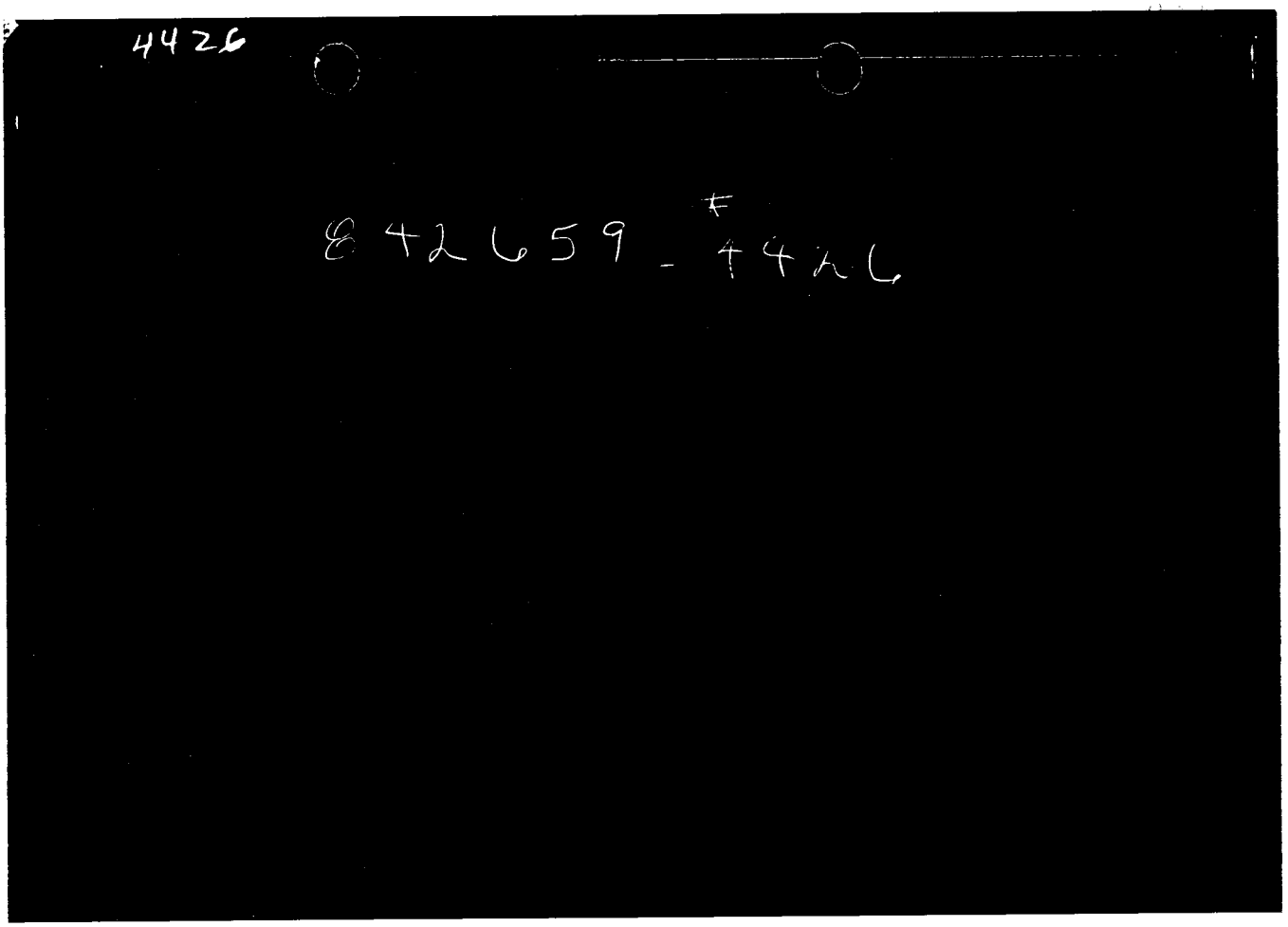
HALLIBURTON
SERVICES

TICKET NO. 84265900
02-OCT-84
VERNAL

FORMATION TESTING SERVICE REPORT

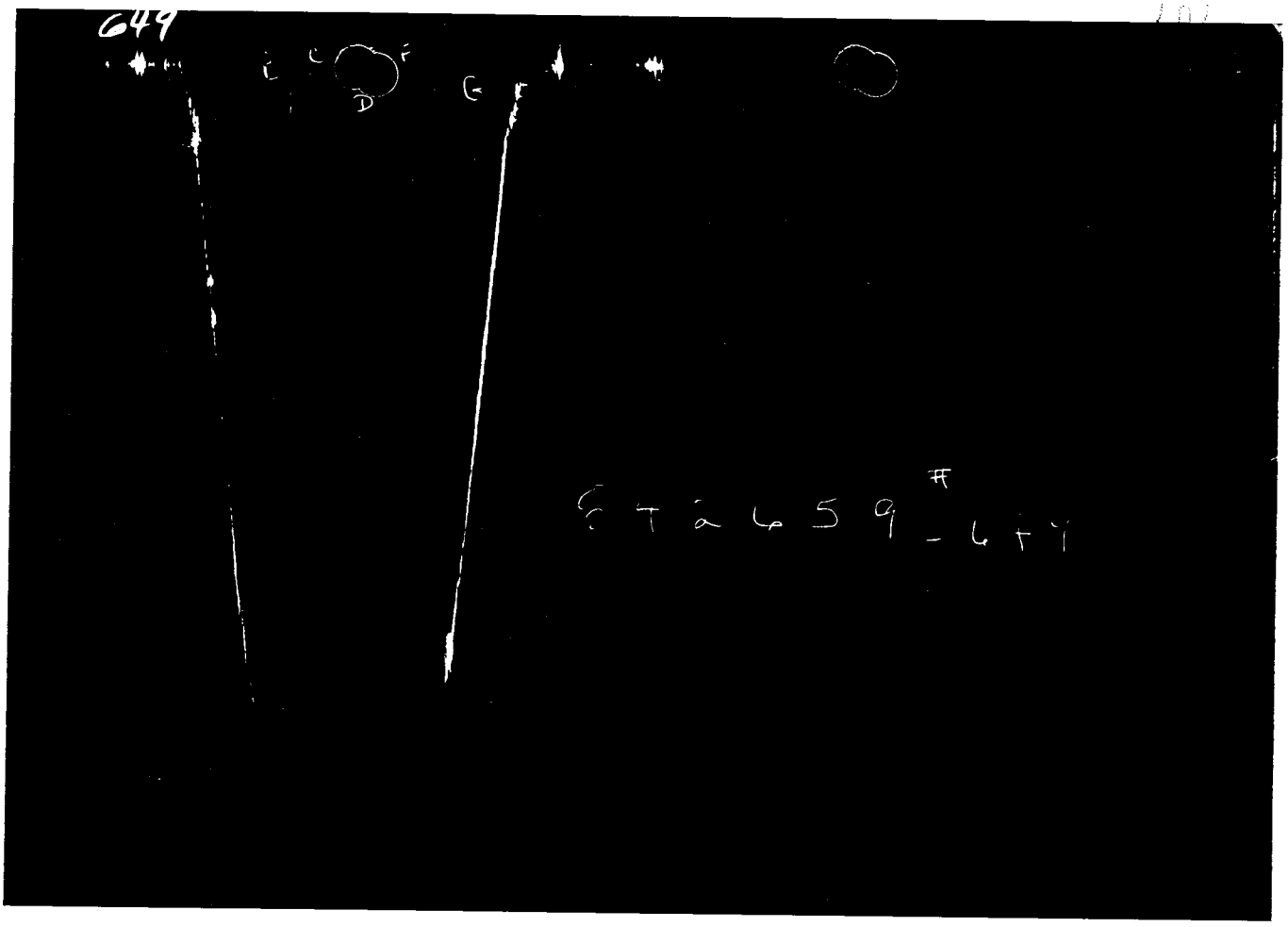
4426

E42659 - F 4426



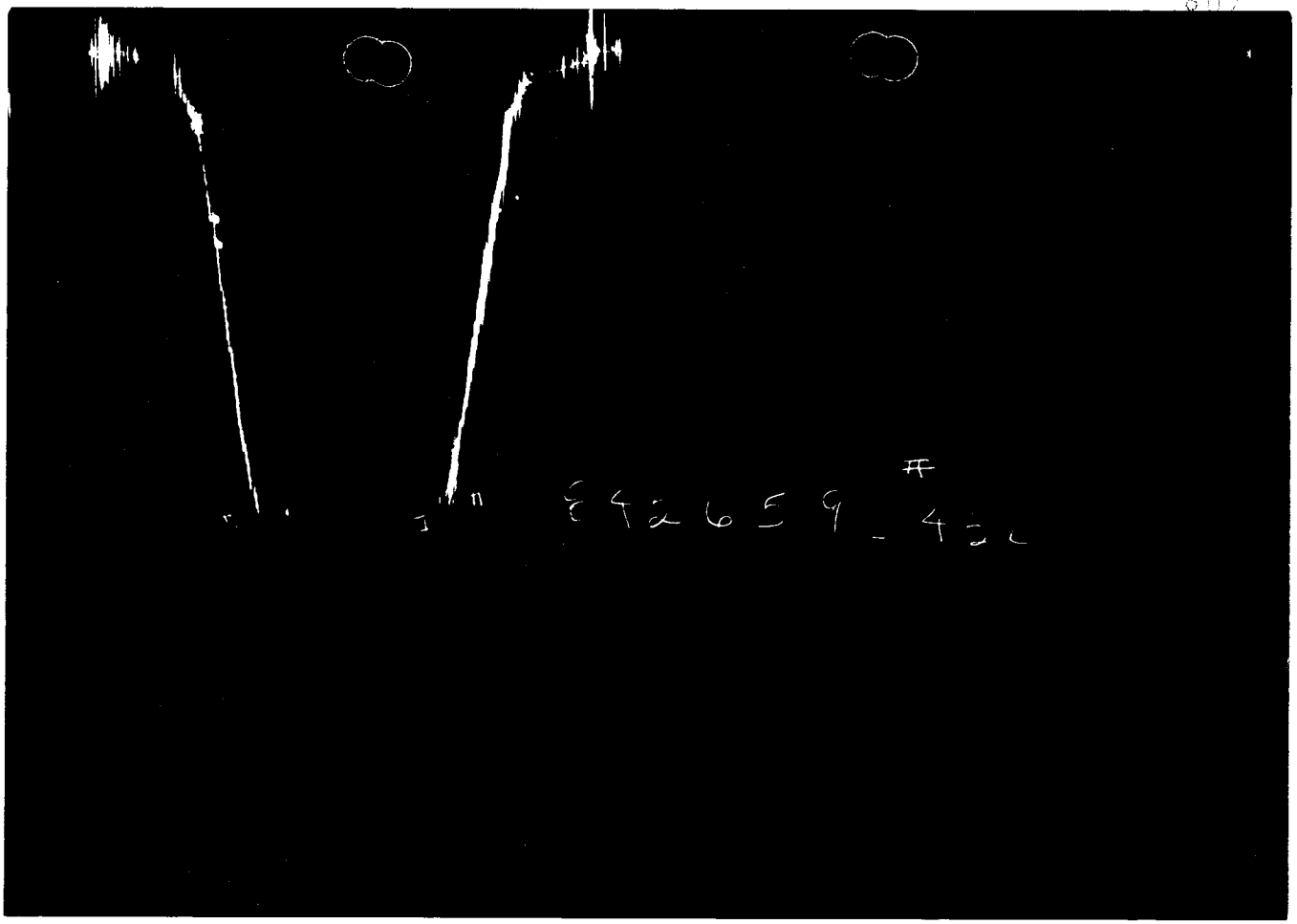
GAUGE NO: 4426 DEPTH: 4760.3 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW			30.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			60.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			30.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			60.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC					
I	HYDROSTATIC RELEASE					



GAUGE NO: 649 DEPTH: 4819.6 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2356	2356.5			
B	INITIAL FIRST FLOW	45	45.1	30.0	30.0	F
C	FINAL FIRST FLOW	45	43.8			
C	INITIAL FIRST CLOSED-IN	45	43.8	60.0	60.0	C
D	FINAL FIRST CLOSED-IN	62	73.2			
E	INITIAL SECOND FLOW	45	55.0	30.0	30.0	F
F	FINAL SECOND FLOW	45	47.4			
F	INITIAL SECOND CLOSED-IN	45	47.4	60.0	60.0	C
G	FINAL SECOND CLOSED-IN	53	59.4			
H	FINAL HYDROSTATIC	2311	2321.6			
I	HYDROSTATIC RELEASE					



GAUGE NO: 430 DEPTH: 5006.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2463.1				
B	INITIAL FIRST FLOW			30.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			60.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			30.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			60.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC	2397.4				
I	HYDROSTATIC RELEASE	2442.1				

EQUIPMENT & HOLE DATA

FORMATION TESTED: GREEN RIVER
NET PAY (ft):
GROSS TESTED FOOTAGE: 71.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 4820
TOTAL DEPTH (ft): 5009.0
PACKER DEPTH(S) (ft): 4776, 4784, 4856, 4858
FINAL SURFACE CHOKE (in): 0.250
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.20
MUD VISCOSITY (sec):
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 128 @ 5005.0 ft

TICKET NUMBER: 84265900

DATE: 9-21-84 TEST NO: 1

TYPE DST: ON BTM.STRADDLE

HALLIBURTON CAMP: VERNAL

TESTER: CLIFFORD L.RICHARDS

WITNESS: TOM STODDARD

DRILLING CONTRACTOR: BRINKERHOFF SIGNAL # 85

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
PIT		@ °F	70000 ppm
		@ °F	ppm
		@ °F	ppm
		@ °F	ppm
		@ °F	ppm
		@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: 20
cu.ft. OF GAS: 0.00
cc OF OIL: 0
cc OF WATER: 0
cc OF MUD: 1350
TOTAL LIQUID cc: 1350

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

35 FEET OF MUD - TRACE OF OIL

MEASURED FROM TESTER VALVE

REMARKS:

NO READINGS AVAILABLE FROM GAUGE # 4426 - STYLUS WAS NOT ENGAGED.

ELEVATION MEASURED AT GROUND LEVEL

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 84265900

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
9-21-84					
1000					CALLED OUT.
1100					ON LOCATION.
1115					STARTED CLOCKS.
1120					PICKED UP THE TOOLS.
1300					TRIP IN THE HOLE.
1535					RIGGED UP MANIFOLD AND FLOWHEAD.
1553					SET PACKERS.
1556					TOOL OPENED WITH A 1" BLOW IN
					A 5 GALLON BUCKET OF WATER.
1606					HAD A 1/2" BLOW IN A 5 GALLON
					BUCKET OF WATER.
1611					HAD SLIGHT BUBBLES IN A 5 GALLON
					BUCKET OF WATER.
1618					NO BLOW.
1626					CLOSED FOR THE FIRST CIP.
1726					OPENED TOOL FOR THE FINAL FLOW
					WITH NO BLOW.
1756					CLOSED FOR THE FINAL CIP.
1856					FINISHED CLOSED IN.
1857					BYPASS OPENED AND PACKERS WERE
					PULLED LOOSE.
1900					TRIP OUT OF THE HOLE.
2200					OUT OF THE HOLE WITH TOOLS.
2230					JOB COMPLETE.

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	4309.1	
3	DRILL COLLARS.....	6.250	2.250	346.4	
50	IMPACT REVERSING SUB.....	5.875	3.250	1.0	4656.5
3	DRILL COLLARS.....	6.250	2.250	90.0	
5	CROSSOVER.....	6.000	2.500	1.0	
13	DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	4758.3
80	AP RUNNING CASE.....	5.000	3.060	4.1	4760.3
15	JAR.....	5.000	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	2.8	
17	PRESSURE EQUALIZING CROSSOVER...	5.000	0.500	1.0	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	4776.3
18	DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	4784.1
20	FLUSH JOINT ANCHOR.....	5.750	2.870	28.0	
17	PRESSURE EQUALIZING CROSSOVER...	4.750	0.500	1.7	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.1	4819.6
5	CROSSOVER.....	5.000	2.375	1.4	
5	CROSSOVER.....	5.500	2.750	0.7	
3	DRILL COLLARS.....	6.250	2.250	29.0	
5	CROSSOVER.....	6.000	2.500	1.1	
5	CROSSOVER.....	5.938	2.750	0.8	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	4855.6
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	4858.5
5	CROSSOVER.....	5.750	2.625	0.7	
5	CROSSOVER.....	5.938	3.250	1.3	
3	DRILL COLLARS.....	6.250	2.250	120.6	
5	CROSSOVER.....	5.750	2.250	1.0	
20	FLUSH JOINT ANCHOR.....	5.750	2.870	17.0	

CONTINUED

EQUIPMENT DATA

			O.D.	I.D.	LENGTH	DEPTH
81		BLANKED-OFF RUNNING CASE.....	5.750		4.1	5006.0
		TOTAL DEPTH				5009.0

EQUIPMENT DATA