

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed
..... WW..... TA.....
..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-0577-A	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR CIG EXPLORATION, INC.			7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT	
3. ADDRESS OF OPERATOR P. O. BOX 749, DENVER, CO 80201			8. FARM OR LEASE NAME NATURAL BUTTES	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1950' FSL & 2027' FEL SECTION 23-T9S-R20E At proposed prod. zone SAME AS ABOVE NWSE			9. WELL NO. CIGE 29-23-9-20	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* APPROXIMATELY 15 MILES SE OF OURAY, UTAH			10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1950' FSL			11. SEC. T. R. M. OR BLM. AND SURVEY OR AREA SECTION 23-T9S-R20E	
16. NO. OF ACRES IN LEASE 2091.18		17. NO. OF ACRES ASSIGNED TO THIS WELL N/A		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. Approx. 3,250'		19. PROPOSED DEPTH 7000'		
20. ROTARY OR CABLE TOOLS ROTARY			22. APPROX. DATE WORK WILL START* November 1, 1978	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4848' UNGRADED GROUND				

23. PROPOSED CASING AND CEMENTING PROGRAM

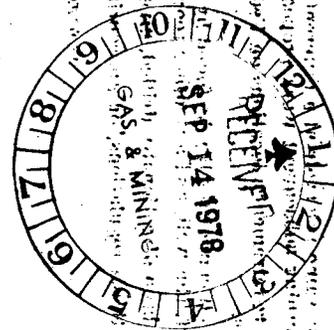
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	200'	125 sx
7-7/8"	4-1/2"	11.6#	7000'	CIRCULATE CEMENT BACK TO SURFACE

FRESH WATER AQUIFERS WILL BE PROTECTED WHEN THE LONG STRING IS RUN AND CEMENT IS CIRCULATED TO SURFACE.

SEE ATTACHED SUPPLEMENTS FOR FURTHER INFORMATION:

- (1) 10-POINT PROGRAM
- (2) BOP SCHEMATIC
- (3) 13-POINT PROGRAM
- (4) PLAT

GAS WELL PRODUCTION HOOKUP TO FOLLOW ON SUNDRY NOTICE.



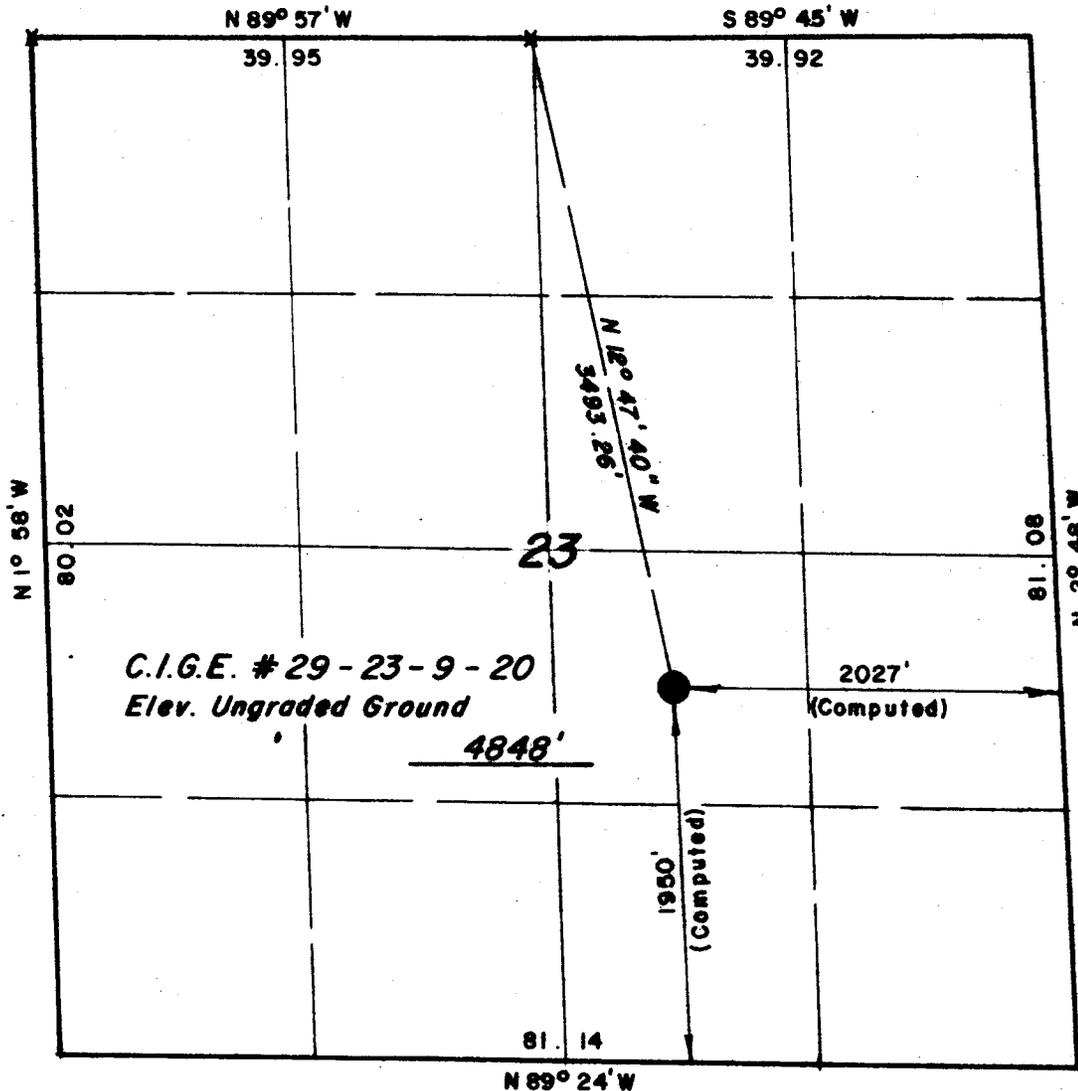
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED *F. R. Midkiff* TITLE DISTRICT SUPERINTENDENT DATE September 12, 1978
(This space for Federal or State office use)
 APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
 APPROVAL DATE 9-19-78 DATE: _____
 BY: *C. B. Light*
 APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:

T 9 S, R 20 E, S. L. B. & M.

PROJECT
C.I.G. EXPLORATION, INCORPORATED

Well location, C.I.G.E. # 29-23-9-20,
located as shown in the NW/4 SE 1/4 Section
23, T9S, R 20E, 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.

Robert J. ...

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

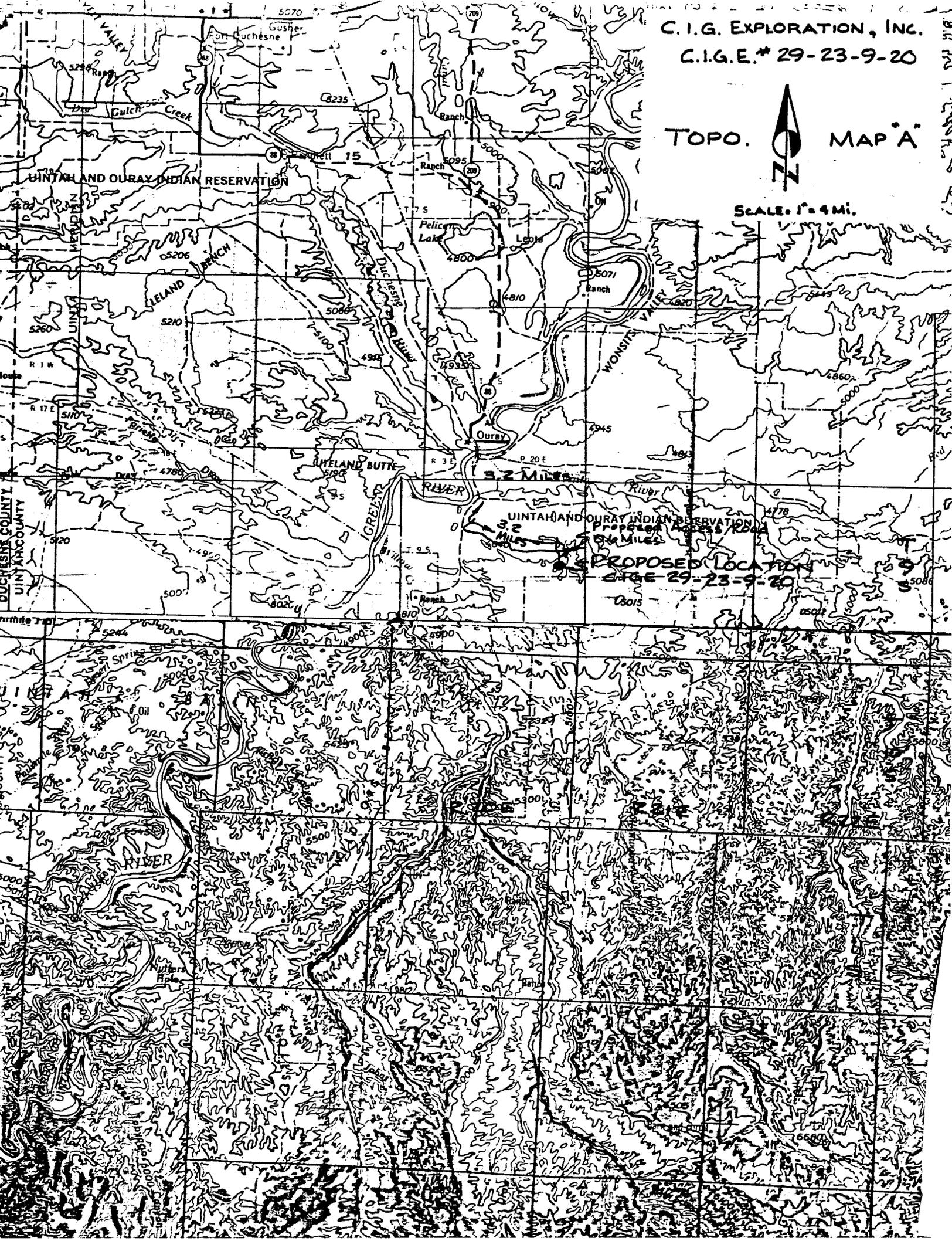
SCALE 1" = 1000'	DATE 9/6/78
PARTY S.S. D.S. BFW	REFERENCES GLO Plat
WEATHER Fair	FILE C.I.G.E.

X = Section Corners Located

C.I.G. EXPLORATION, INC.
C.I.G.E.# 29-23-9-20



SCALE: 1" = 4 Mi.



PROPOSED LOCATION
C.I.G.E. 29-23-9-20

3.2 MILES
5.4 MILES

3.2 Miles

Ouray

5071 Ranch

5095 Ranch

Pelican Lake

UINTAH AND OURAY INDIAN RESERVATION

ISLAND RANCH

ISLAND BUTTE

GREEN RIVER

WONSIK VALLEY

Gulch Creek

Day

NUZZA FLATS

Oil

Spring

5000

5000

5000

DUCHESNE COUNTY
UNION COUNTY

UNION COUNTY

UNION COUNTY

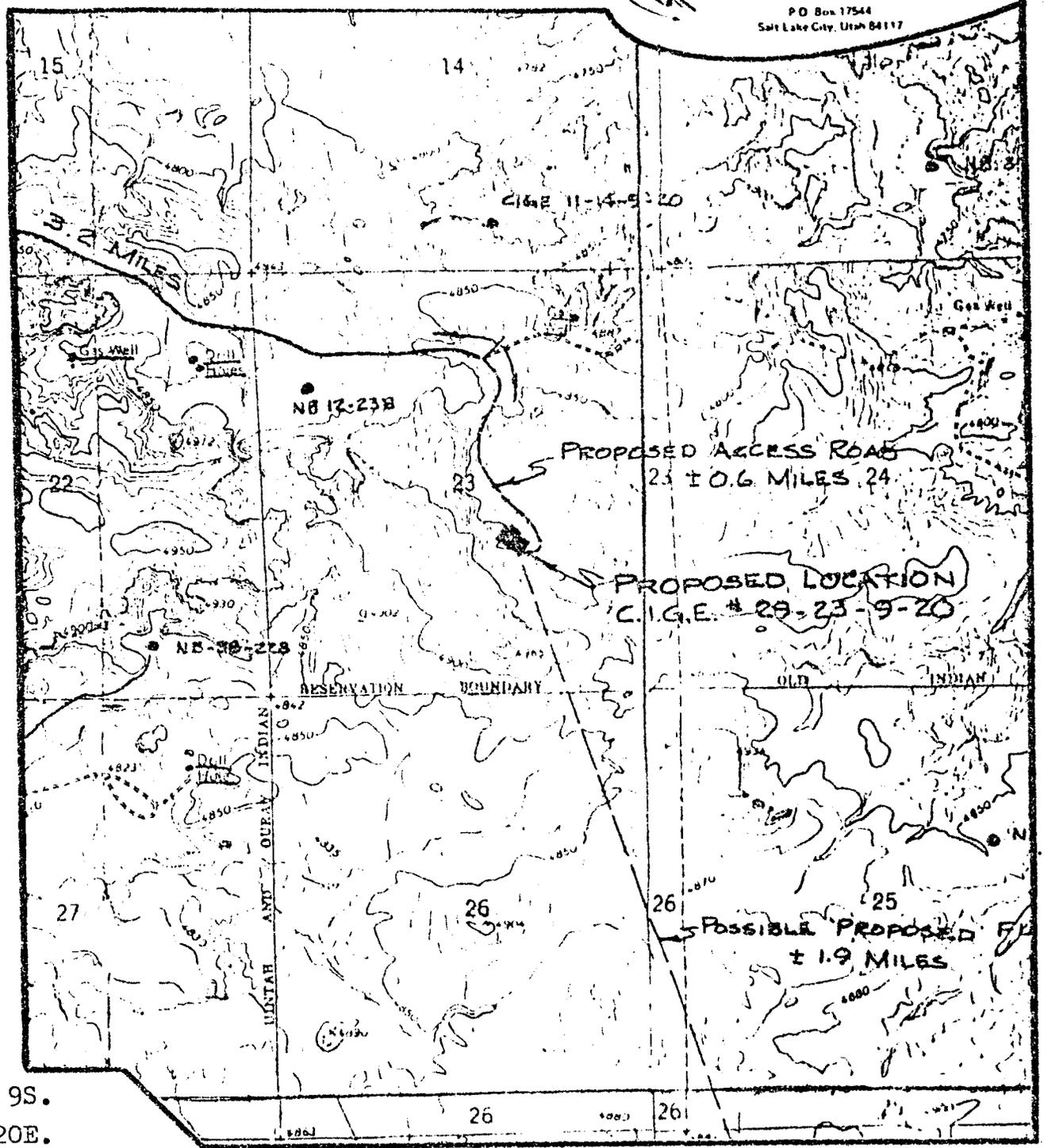
UNION COUNTY

UNION COUNTY



ARCHEOLOGICAL ENVIRONMENTAL RESEARCH CORPORATION

P.O. Box 17544 Salt Lake City, Utah 84117



T. 9S.
R. 20E.

Meridian: Salt Lake B & M

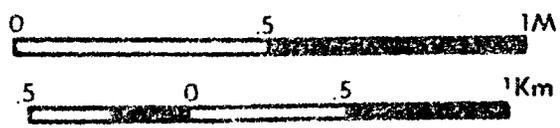
Quad:

Project: GPE-78-5
Series: Eastern Utah
Date: 10/10/78

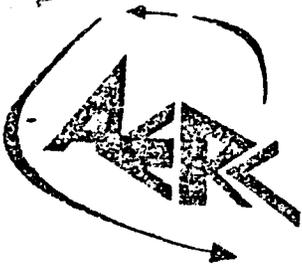
PROPOSED WELL LOCATION AND ACCESS ROAD
CIGE 29-23-9-20
NATURAL BUTTES LOCALITY
UINTAH COUNTY, UTAH

Ouray, Utah
7.5' Series

Legend:
Proposed Well Location



Scale



ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P.O. Box 17544 - Salt Lake City, Utah 84117

Tel.: (801) 582-0313

October 10, 1978

2
29

Subject: Archeological Reconnaissance for Proposed Well Locations and Associated Access Roads in the Natural Buttes Locality of Uintah County, Utah

Project: Gas Producing Enterprise - 1978 Gas-Oilwell Development in Uintah County, Utah

Project No.: GPE-78-5B

Permit No.: 78-Ut-014

To: Mr. Dennis Mower, Director of Resources Division, Ute Indian Tribe, Fort Duchesne, Utah 84026

Mr. Karl Oden, Gas Producing Enterprise, P. O. Box 1138, Vernal, Utah 84078

Ms. Maggie Dominy, CIG Exploration, 2100 Prudential Plaza, P. O. Box 749, Denver, Colorado 80201

GENERAL INFORMATION:

The proposed well locations and associated access roads were intensively examined for prehistoric and historic cultural remains between September 18 and September 22, 1978, by D. G. Weder of AERC. The well locations are located on lands administered by the Uintah and Ouray Agency of the Bureau of Indian Affairs. The legal description of each well location and access road is shown below. In addition, maps showing each location are attached.

<u>WELL #</u>	<u>SECTION</u>	<u>TOWNSHIP</u>	<u>RANGE</u>	<u>ACCESS ROAD</u>
STATE — 19	16	9 South	21 East	Section 16 also
22	15	9 South	20 East	Same
28	21	9 South	20 East	Same
29	23	9 South	20 East	Same
32	20	9 South	20 East	Same
40	20	9 South	22 East	Section 19 also

The well locations were examined by performing parallel transects spaced at 15 meter intervals. In addition, each transect extended approximately 15 meters beyond the marked boundaries of the location. The access roads were examined by performing two parallel transects spaced 15 meters apart and equidistant from the road centerline. In this manner, a 30 meter-wide corridor was examined for each access road.

RESULTS:

No prehistoric or historic culture resource sites were encountered during the surface examination of the well locations and access roads listed above. One of the well

locations, #19-16-9-21, was already disturbed before AERC examination. No cultural resources were noted in the area previously disturbed.

CONCLUSIONS AND RECOMMENDATIONS:

A cultural resources clearance can be recommended for the proposed well locations and access roads, if, during development, compliance to the following stipulations is observed:

1. All vehicular traffic, personnel movement, and construction be confined to the locations examined and to access roads leading into these locations;
2. all personnel refrain from collecting individual artifacts or from disturbing any cultural resources in the area; and
3. a qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area.

Dennis G. Weder

D. G. Weder
Archeologist

F. R. Hauck

F. R. Hauck, Ph.D.
President

10-POINT PROGRAM

1. Geologic name of surface formation:

UINTA

2. The estimated tops of important geologic markers:

GREEN RIVER - 1700'
WASATCH - 5110'

3. The estimated depths at which anticipated water, oil, gas are expected to be encountered:

WASATCH - 5110' - GAS

4. The proposed casing program, including the size, grade, and weight per foot each string and whether new or used:

<u>SIZE</u>	<u>GRADE</u>	<u>WEIGHT</u>	
9-5/8"	K-55, ST&C	36#	New
4-1/2"	N-80, LT&C	11.6#	New

5. The Operators' minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings, and testing procedures and testing frequency:

Bottom: 3000# BOP W/4-1/2" pipe rams
3000# BOP W/blind rams
3000# Hydril

Top: Grant rotating head

Manifold includes appropriate valves, positive and adjustable chokes and kill line to control abnormal pressures.
BOP's will be tested at installation and will be cycled on each trip.

6. The type and characteristics of the proposed circulating medium to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained:

6. Continued --

The well will be drilled with fresh water from surface to 4500' with a weight of 8.3 to 8.7 . From 4500' to TD the well will be drilled with fresh wtr mud with a weight from 8.7 to 10.4 . Sufficient weighting material (barite) will be on location to increase the mud weight if abnormal pressure is encountered.

7. The auxiliary equipment to be used:

- a. kelly cock
- b. monitoring equipment on the mud system
- c. a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string.

8. The testing, logging and coring program to be followed:

No DST's are planned
No cores are expected to be cut.

LOGS: Dual Induction Laterolog
Compensated Neutron-Formation Density

9. Any anticipated abnormal pressures or temperatures expected to be encountered:

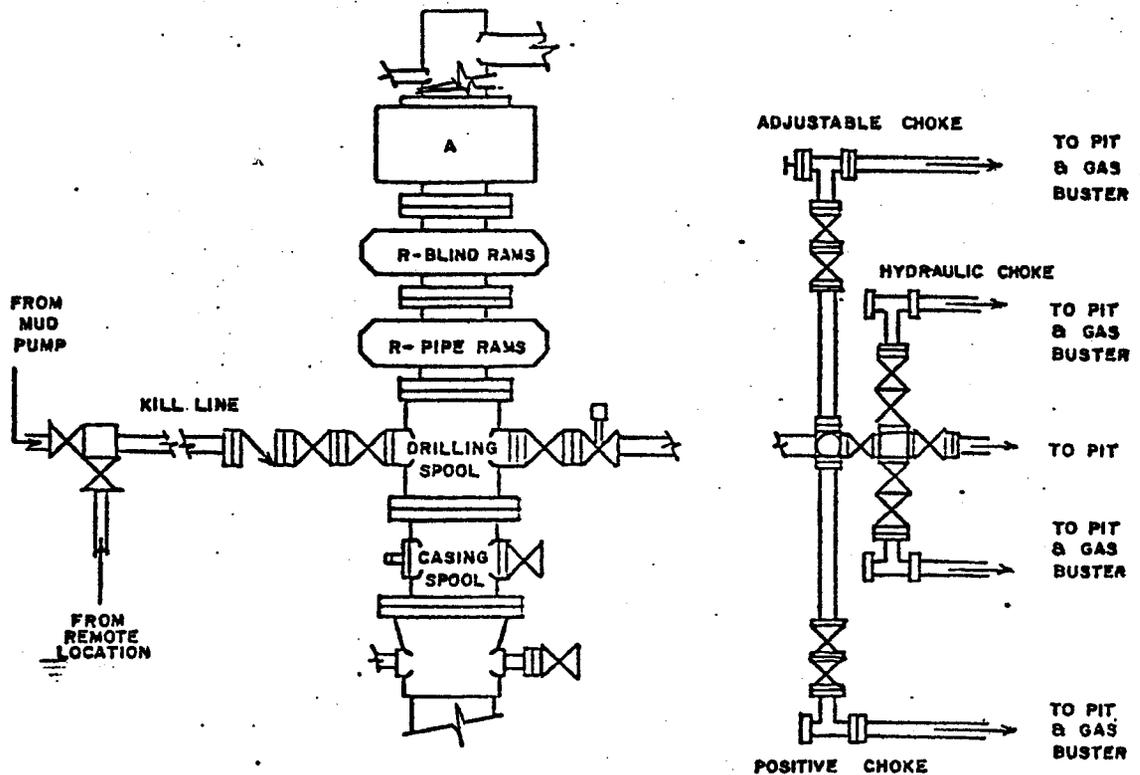
No abnormal pressures or temperatures expected
No hydrogen sulfide expected

10. The anticipated starting date and duration of the operation:

November 1, 1978
Three weeks' duration

3000 psi

psi Working Pressure BOP's



Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
 - a) inside blowout preventer
 - b) lower kelly cock
 - c) upper kelly cock
 - d) stand pipe valve
 - e) lines to mud pump
 - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

C.I.G. EXPLORATION INCORPORATED

13 Point Surface Use Plan

for

Well Location

CIGE 29-23-9-20

Located In

Section 23, T9S, R20E, S.L.B. & M

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A".

To reach CIG Exploration Incorporated, well location CIGE 29-23-9-20, located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23, T9S, R20E, S.L.B. & M., Uintah County, Utah; proceed Westerly out of Vernal, Utah along U.S. Highway 40, 14 miles to the junction of this road and Utah State Highway 209; proceed South along Utah State Highway 209, 7 miles more or less to the junction of this Highway and Utah State Highway 88; proceed South along Utah State Highway 88-10 miles to Ouray Utah; proceed on South along a county road known as the Seep Ridge road + 3.2 miles to its junction with an oil field service road to the East; proceed Easterly along this road + 3.2 miles to its junction with the proposed access road to be discussed in Item #2.

The Highways mentioned in the foregoing paragraph are bituminous surface roads to Ouray, Utah at which point the County road is surfaced with native asphalt.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing areas they are located in and range from clays to a sandy-clay shale materials.

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

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 proposed access road leaves the existing service road described in Item #1 in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 23, T9S R20E, S.L.B. & M., and proceeds in a Southeasterly direction approximately 0.6 miles to the proposed location site in said Section 23.

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

This proposed access road will be an 18' crown (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 areas of the road will be 1 $\frac{1}{2}$ to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow materials accumulated during construction.

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

2. PLANNED ACCESS ROAD - continued

ridges or at intervals and locations 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 outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 28' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

The terrain that this access road traverses is relatively flat with some small hills and washes.

The vegetation along this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses and cacti with large areas that are devoid of vegetation.

3. LOCATION OF EXISTING WELLS

There are other wells within a one mile radius of this well, for exact location of this well within Section 23, T9S, R20E, S.L.B. & M., see location plat.

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

At the present time there are no other CIG Exploration Incorporated batteries, production facilities, oil gathering lines, gas gathering lines, injection and disposal lines within a one-mile radius.

In the event the production of this well is established, then the existing area of the location will 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.

The proposed gas flow line will be an 18' right of way which will run in a southeasterly direction approximately 1.9' to an existing pipeline located in the W $\frac{1}{2}$ Section 36, T9S, R20E, S.L.B. & M. (See Topographic Map "B").

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

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used in the drilling of this well will be hauled from the White River South of Ouray in the W $\frac{1}{2}$ Section 4, T9S, R20E, S.L.B. & M. The water will be hauled by truck over existing road and the proposed access road \pm 5 miles to the location site.

In the event that the above source is not used, the water will be hauled by truck utilizing existing roads and the proposed access road from Willow Creek at a point where the hill creek road crosses it in the SE $\frac{1}{4}$ Section 5, T10S, R20E, S.L.B. & M., a distance of 9.1 road miles.

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

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. 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.

The native materials that will be used in the construction of this location site and access road will consist of a sandy-clay soils and sandstone and shale materials gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL.

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable materials such as cuttings, salts, chemicals etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on all four sides with a net wire, and the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted. 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 attached Location Layout Sheet.

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

As mentioned in Item #6, 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 of material necessary to make it 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 and 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. 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 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup 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 area slopes from the rim of the Book Cliff Mountains to the South to the White River to the North, and is a portion of the Roan Plateau. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstones, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial nature with with the only two in the area having a year round flow being Willow Creek to the West and the White River to the North, of which the numerous washes, draws, and non-perennial streams are tributaries to the White River.

The majority of surrounding drainages are of a non-perennial nature with normal flow limited to the early spring run-off and extremely rare heavy thunderstorms or rain storms of high intensity that lasts over an extended period of time and are extremely rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are non-perennial streams and flow to the North and are tributaries to the White River.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (Gravels surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth in the areas away from and in the vicinity of non-perennial streams and along the areas that are formed along the edges of perennial streams, cottonwoods, willows, tamarack, sagebrush, rabbitbrush, grasses and cacti can be found.

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

11. OTHER INFORMATION - continued

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

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

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

CIGE 29-23-9-20 location site sits on the edge of a small hill above a small non-perennial wash which drains to the North into the White River.

The geologic structure of the location is of the Uinta Formation and consists of light brownish-gray sandy clay (SP-CL) with some sandstone outcrops.

The ground slopes from the Southwest through the location to the West Northeast at approximately a 3% grade.

The location is covered with some sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

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 OPERATOR'S REPRESENTATIVE

Frank R. Midkiff
CIG Exploration Incorporated
P.O. Box 749
Denver, Colorado 80201

TELE: 1-303-572-1121

13. CERTIFICATION

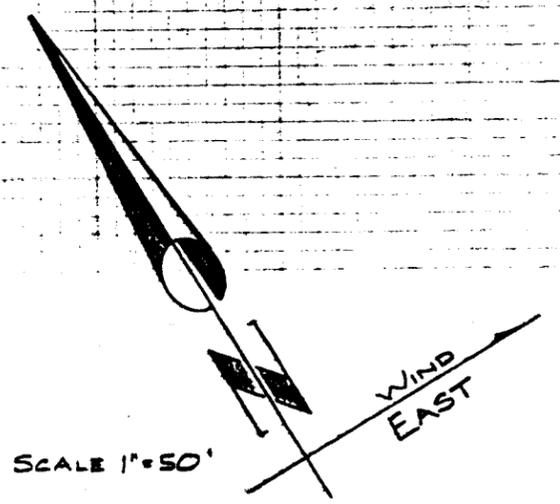
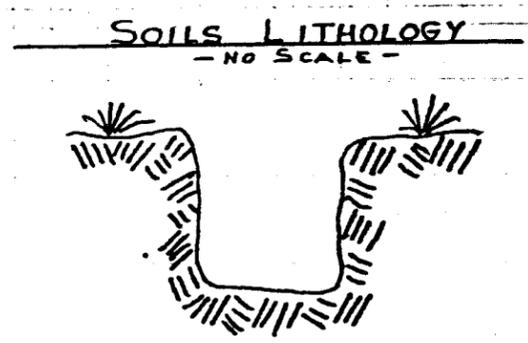
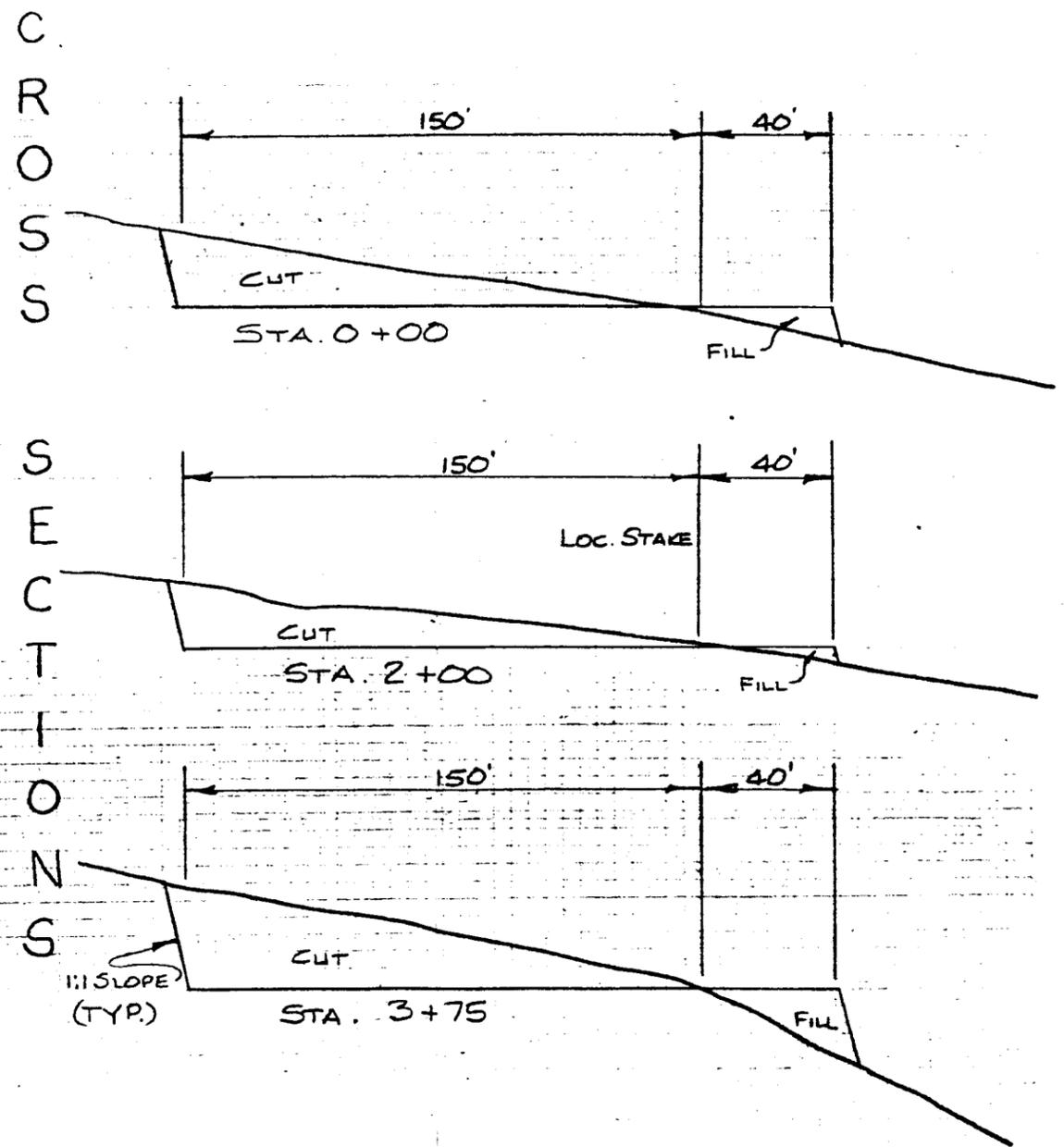
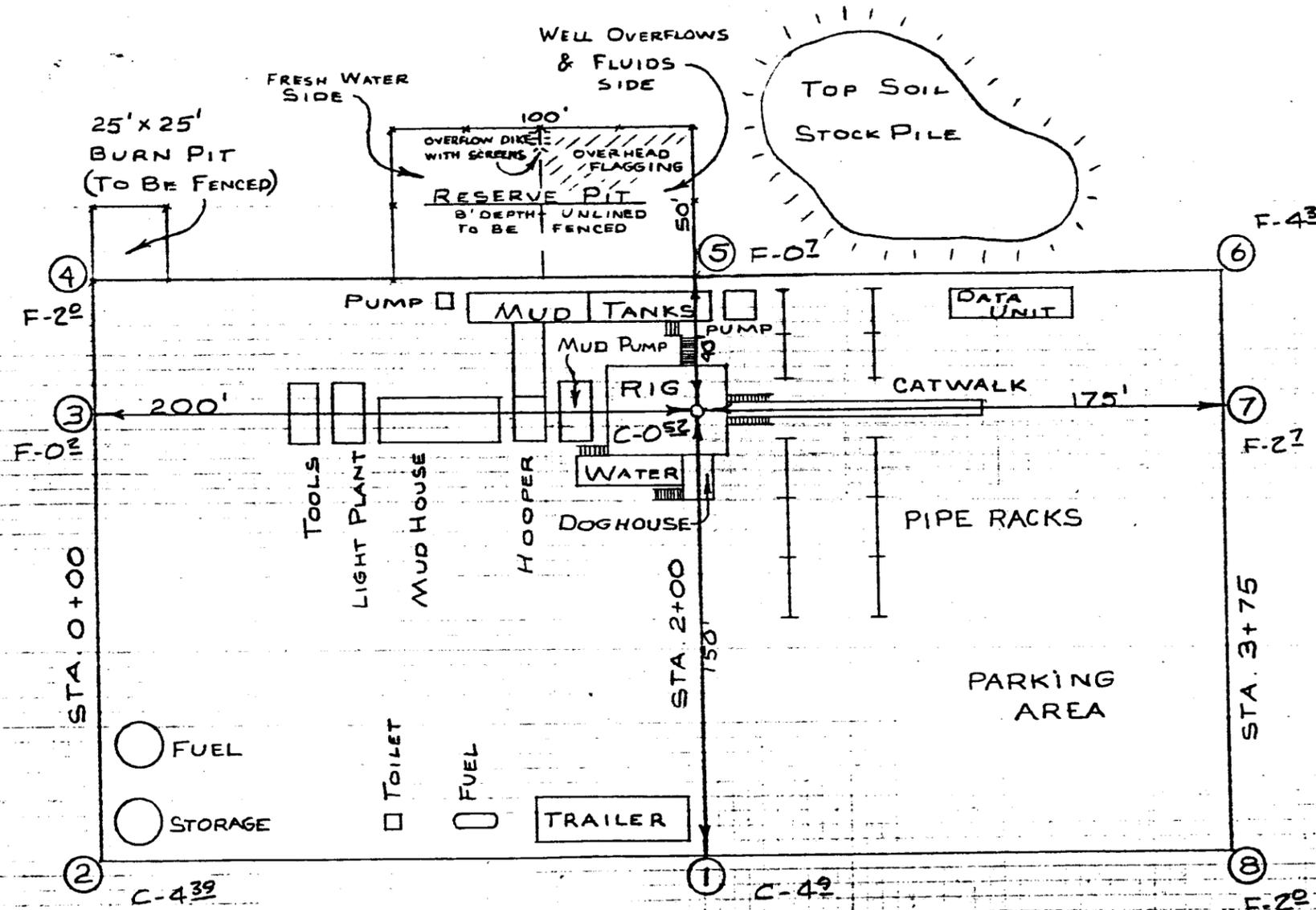
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated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

DATE

9/12/78


Frank R. Midkiff
District Manager

C.I.G. EXPLORATION
 C.I.G.E. # 29-23-9-20
 LOCATION LAYOUT & CUT SHEET



APPROX. YARDAGES	
CUT	5,162 Cu. Yds.
FILL	524 Cu. Yds.

TOPO. MAP 'B'



SCALE 1" = 2000'

ROAD CLASSIFICATION
Medium-duty Light-duty
Unimproved dirt
State Route



STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

NE
SW

** FILE NOTATIONS **

Date: Sept. 18-

Operator: Cig Exploration

Well No: Natural Butte 29-23-9-20

Location: Sec. 23 T. 9S R. 20E County: Uintah

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-047-30179

CHECKED BY:

Administrative Assistant: [Signature]

Remarks: Unit well

Petroleum Engineer: _____

Remarks: _____

Director: [Signature]

Remarks: _____

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

Surface Casing Change to _____

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

O.K. Rule C-3

O.K. In Natural Butte Unit

Other: _____

[Signature] Letter written Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PERMIT IN TRIPLI
(Other Instructions
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-0577-A	
2. NAME OF OPERATOR CIG EXPLORATION, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE - SURFACE	
3. ADDRESS OF OPERATOR P. O. BOX 749, DENVER, CO 80202		7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1950' FSL & 2027' FEL SECTION 23-T9S-R20E		8. FARM OR LEASE NAME NATURAL BUTTES	
14. PERMIT NO.		9. WELL NO. CIGE 29-23-9-20	
15. ELEVATIONS (Show whether DF, RT, CR, etc.) 4848' UNGRADED GROUND		10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SECTION 23-T9S-R20E	
		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 <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) PIPELINE HOOKUP <input checked="" type="checkbox"/>	
(Other) PIPELINE HOOKUP <input checked="" 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.)*

SUPPLEMENT TO APPLICATION FOR PERMIT TO DRILL

- (1) PROPOSED GAS WELL PRODUCTION HOOKUP
 - (A) TYPICAL WELL HEAD INSTALLATION
 - (B) TYPICAL MAIN LINES AND PIPE ANCHOR DETAIL
- (2) PROPOSED PIPELINE MAP
- (3) PROPOSED ROAD FOR FLOW LINE AND PIPELINE RIGHT OF WAY

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

DATE: _____

BY: _____



FOR ON-SITE CONTACT:

EDWARD N. NORRIS AT (801) 789-2773

OR

IRA K. McCLANAHAN AT (303) 473-2300

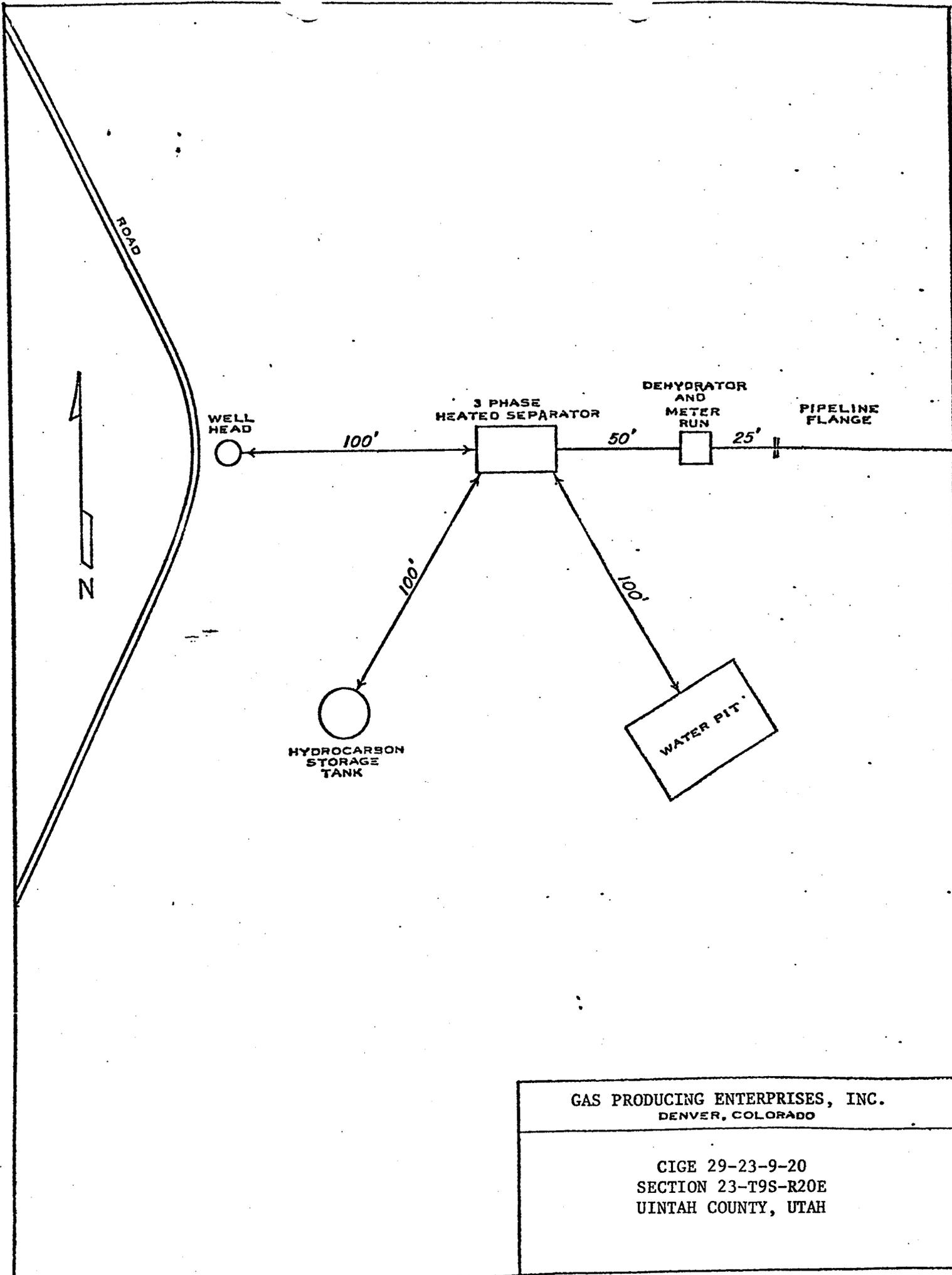
18. I hereby certify that the foregoing is true and correct

SIGNED R.G. Merrill TITLE Sr. Petroleum Engineer DATE October 2, 1978
R.G. Merrill

(This space for Federal or State office use)

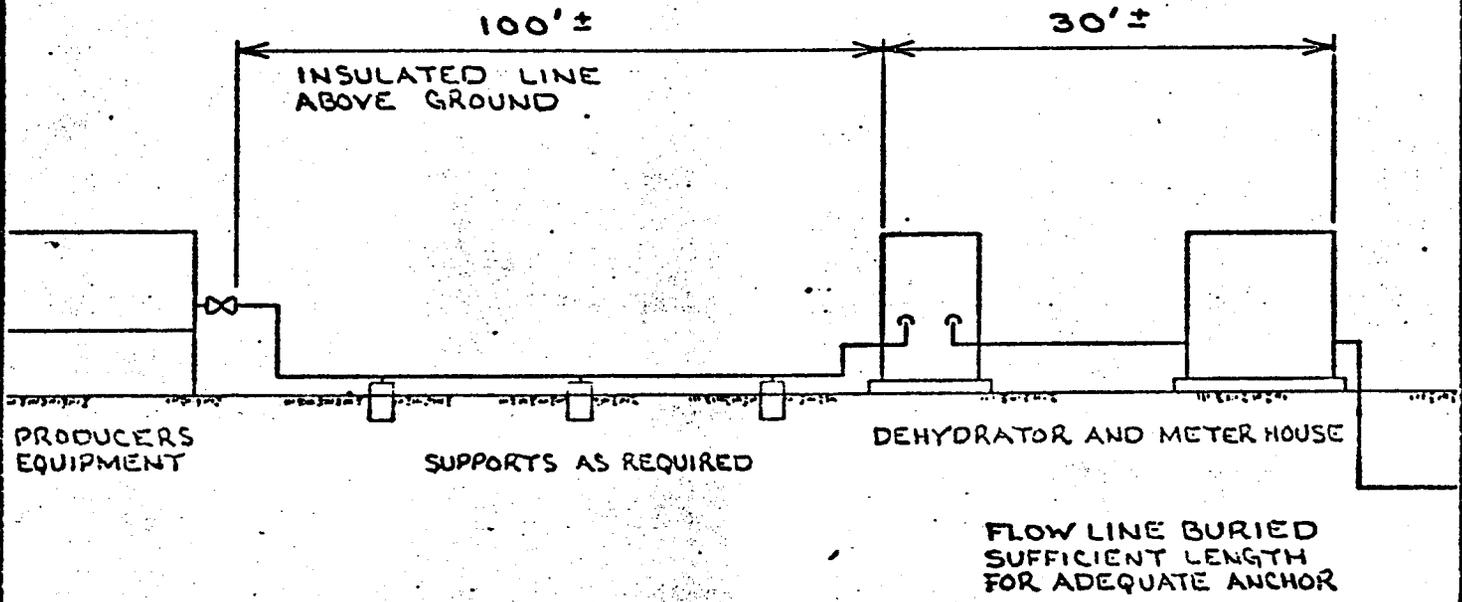
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



GAS PRODUCING ENTERPRISES, INC.
DENVER, COLORADO

CIGE 29-23-9-20
SECTION 23-T9S-R20E
UINTAH COUNTY, UTAH

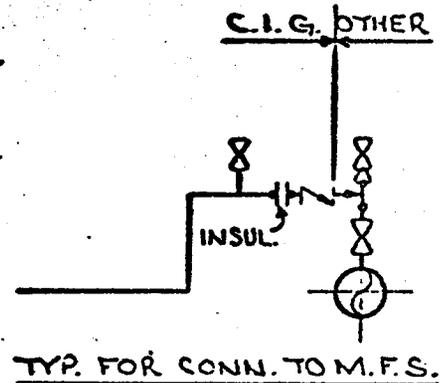
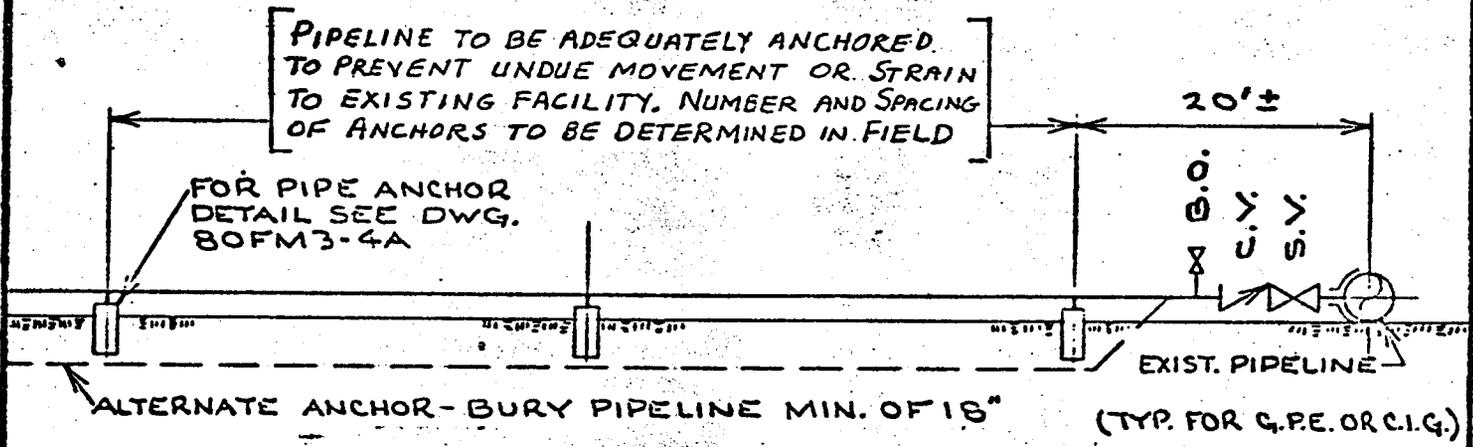


Colorado Interstate Gas Co.
 COLORADO SPRINGS COLORADO

TYPICAL WELL HEAD INSTALLATION
 NATURAL BUTTES FIELD

UINTAH COUNTY, UTAH

NO	CO NO	DESCRIPTION	DATE	BY	CHK	APPR	SCALE NONE (DRAWN RWP)	DATE 7-18-77	NO 23058	115FP-2 1/8
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Colorado Interstate Gas Co.
 COLORADO SPRINGS, COLORADO

TYPICAL CONNECTION TO MAIN LINES AND PIPE ANCHOR DETAIL - NATURAL BUTTES FIELD
 JUNTA COUNTY, UTAH

1 23858 REVISE STARTING POINT 8-27-77 RWP

NO.	C.O.N.O.	DESCRIPTION	DATE	BY	CHKD.	APPD.	SCALE: NONE	DRAWN: RWP	APP. AN	115FP-1 1/3	
REVISIONS							DATE: 7-7-77	NO. 23858			

ESTIMATE SKETCH

DATE: 18 Aug 77

STARTING DATE: _____

EST. COMP. DATE: _____

COMPANY CONTRACT

COLORADO INTERSTATE GAS COMPANY
 NORTHWEST PIPELINE CORPORATION

W. O. NO.: _____

REVISION NO.: A/4/5/78

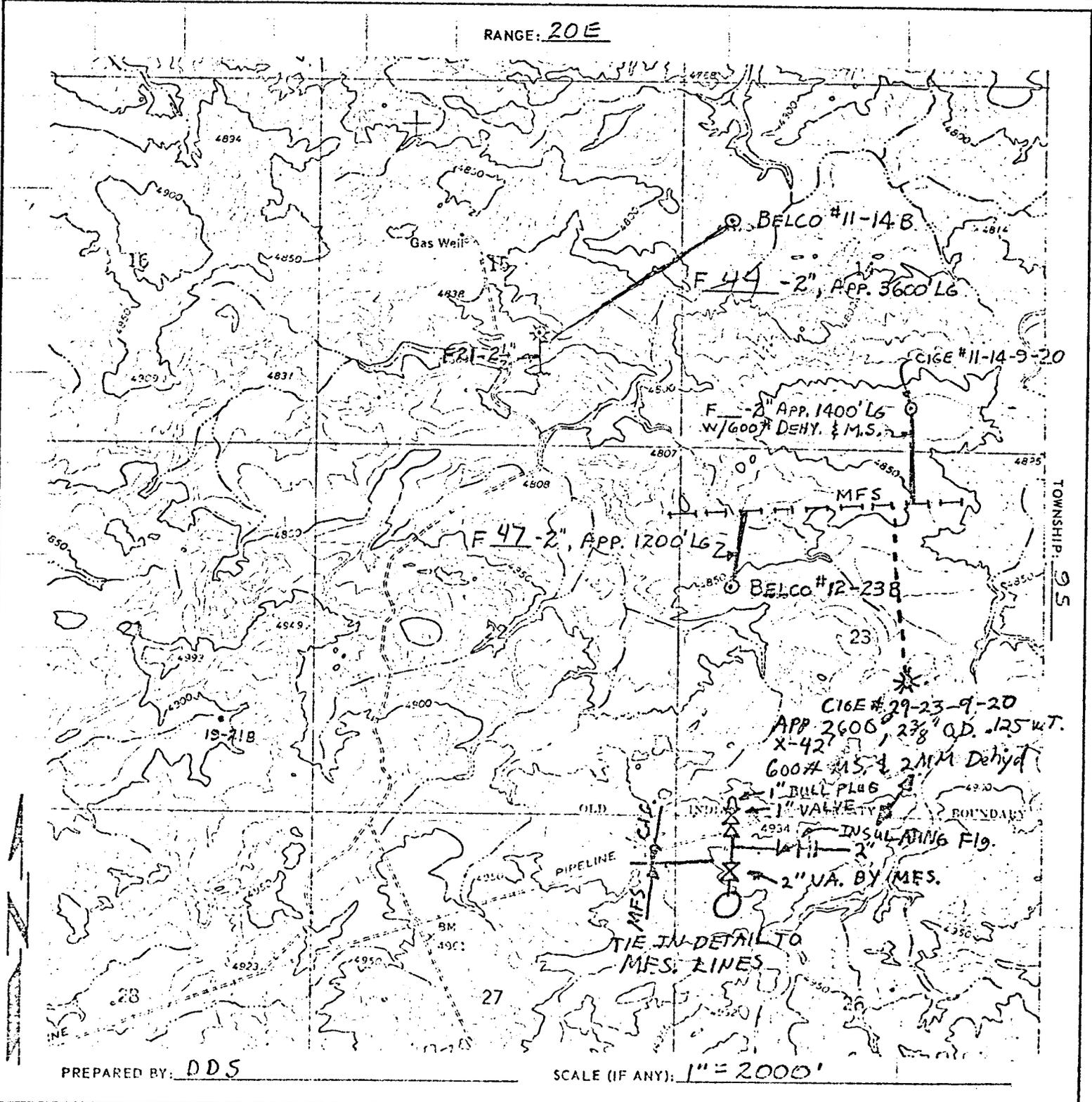
BUDGET NO.: 12 9/21/78

RELATED DWG.: 115FU-1A-1

LOCATION: T9S, R20E NATURAL BUTTES FIELD COUNTY: UINTAH STATE: UTAH

DESCRIPTION OF WORK:
CONNECT BELCO UNIT #11-14B CONNECT CIGE #11-14-9-20A
CONNECT BELCO UNIT #12-23B CONNECT CIGE #29-23-9-20

REQUESTED BY: GAS SUPPLY APPROXIMATE MILEAGE: — PROJECT ENGINEER: J. F. KANTOR
A. S. SENEAL



Freehand sketch of location of proposed installation to be constructed or retired showing relative location of existing facilities in area.

September 22, 1978

Statement for permit to lay flow line, to be included with application for Drilling Permit - CIGE #29-23-9-20.

Upon approval of all concerned regulatory agencies, CIG proposed to install a surface flow line from CIGE #29-23-9-20 in a northerly direction through the center of Section 23 connecting to a line (M.F.S. 4") all in T9S, R20E. The line will be approximately 2,600' long as shown on the accompanying sketches.

Pipe will be 2-3/8" O.D. x .125" W.T., Grade X-42 EW. It will be butt-welded in place using portable electric welding machines, and will be laid above ground except where burial is necessary for road crossing, ditches, or other obstructions.

CIG will connect to Producer's separator and install dehydration and metering facilities within 100' of the connection.

Some damage will be incurred by trucks transporting pipe and welding equipment over the pipeline route, but surface disturbance will be held to a minimum.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR
P. O. BOX 749, DENVER, CO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1950' FSL & 2027' FEL SECTION 23-T9S-R20E
At proposed prod. zone
SAME AS ABOVE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
APPROXIMATELY 15 MILES SE OF OURAY, UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1950' FSL

16. NO. OF ACRES IN LEASE
2091.18

17. NO. OF ACRES ASSIGNED TO THIS WELL
N/A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
Approx. 3,250'

19. PROPOSED DEPTH
7000'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4848' UNGRADED GROUND

22. APPROX. DATE WORK WILL START*
November 1, 1978

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#	200'	125 sx
7-7/8"	4-1/2"	11.6#	7000'	CIRCULATE CEMENT BACK TO SURFACE

FRESH WATER AQUAFERS WILL BE PROTECTED WHEN THE LONG STRING IS RUN AND CEMENT IS CIRCULATED TO SURFACE.

SEE ATTACHED SUPPLEMENTS FOR FURTHER INFORMATION:

- (1) 10-POINT PROGRAM
- (2) BOP SCHEMATIC
- (3) 13-POINT PROGRAM
- (4) PLAT

GAS WELL PRODUCTION HOOKUP TO FOLLOW ON SUNDRY NOTICE.

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.

SIGNED F. R. Midkiff TITLE DISTRICT SUPERINTENDENT DATE September 12, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVED BY W. J. Martin TITLE ACTING DISTRICT ENGINEER DATE DEC 26 1978

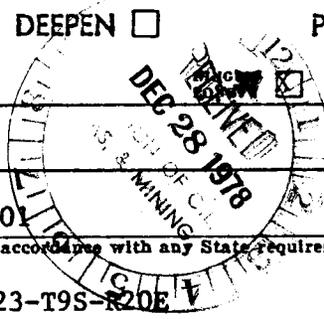
CONDITIONS OF APPROVAL, IF ANY: _____

NOTICE OF APPROVAL

NECESSARY FILING OF PERMITTING DRILLING AND COMPLETION REPORTS SUBJECT TO REGULATION (NPL 4)

State of Utah

*See Instructions On Reverse Side



RECEIVED
 DISTRICT SUPERINTENDENT
 STATE OF UTAH
 DENVER, COLORADO
 DEPARTMENT OF MINES AND RECLAMATION
 DIVISION OF OIL AND GAS
 100 WEST COLLEGE AVENUE
 DENVER, COLORADO 80202

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U0577 A

OPERATOR: CTG Exploration

WELL NO. CIG E 29-23-9-20

LOCATION: 1/2 NW 1/4 SE 1/4 sec. 23, T. 9S, R. 20E, S2M

Uintah County, Utah

1. Stratigraphy:

operator picked logs adequate

2. Fresh Water:

probable in Uintah Fm.

3. Leasable Minerals:

gas in Wasatch
Oil shale in Green River Fm. th.

4. Additional Logs Needed:

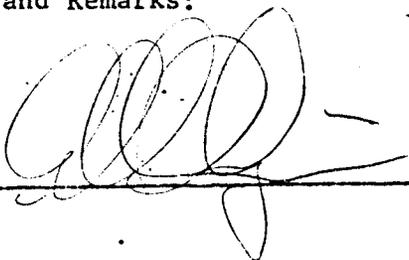
Run all operator specified logs from top of
Green River to TD

5. Potential Geologic Hazards:

probably slightly geopressured

6. References and Remarks:

Signature: _____



Date: _____

10-12-78

Proposed Action:

On September 14, 1978, CIGE filed an Application for Permit to Drill the No. CIGE 29-23-9-20 development well, a 7,000-foot oil and gas test of the Wasatch Formation; located at an elevation of 4,848 ft. in the NW SE sec. 23, T. 9 S., R. 20 E., on Federal mineral lands and Indian surface; Lease No. U-0577-A. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventer would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with the Bureau of Indian Affairs, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 250 ft. wide x 375 ft. long, and a reserve pit 100 ft. wide x 50 ft. long. A new access road would be constructed 18 ft. wide x $\frac{1}{2}$ mi. long from an existing and improved road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. The anticipated starting date is November 1, 1978, and duration of drilling activities would be about 20 days.

In the event that production is established, plans for a gas flow line have been submitted to appropriate agencies for approval. The potential pipeline route was inspected at the time of the drill site inspection. The proposed pipeline would connect CIGE #29-23-9-20 in a northerly direction through the center of section 23 connecting to a line (MFS 4") all in T. 9 S., R. 20 E. The line will be approximately 2,600 ft. long.

The operator proposes to install a pipe of 2-3/8" O.D. x 0.125" W.T., Grade X-42 EW. The pipe would be butt-welded in place using portable electric welding machines, and be layed above ground except where burial is necessary for road crossings, ditches, or other obstructions. The proposed gas flow route should not be bladed, however, a bulldozer may be used to assist trucks in steep terrain, drag pipe into position, and for construction of ford type crossings on drainages that cannot otherwise be crossed. The construction of drainage crossings would be the only surface type disturbance authorized. The pipeline shall be constructed in such a manner not to block, dam, or change the natural

course of any drainage. The pipeline route should not be used for roads unless otherwise authorized by the USGS or surface managing agency. The maximum width of the disturbed area would be 21'. CIG will connect to Producer's separator and install dehydration and metering facilities within 100' of the location.

Location and Natural Setting:

The proposed drillsite is approximately 15 miles SE of Ouray, Utah, the nearest town. A fair road runs to within $\frac{1}{2}$ mi. of the location. This well is in the Bitter Creek field.

Topography:

Rough hills and coulees.

Geology:

The surface geology is the Uinta formation. The soil is sandy clay. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist (and is possible in the sandstone units of the Mesa Verde). Loss of circulation may result in the lowering of the mud levels which might permit exposed upper formations to blowout or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah. The operator's drilling, cementing, casing, and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay-type soil. The soil is subject to runoff from rainfall and has a high runoff potential, and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Indian Affairs.

Approximately three acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, and reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rainfall should range from about 8 to 11 inches at the proposed location. The majority of the numerous drainages in the surrounding area are of a nonperennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8 inches.

Winds are medium and gusty, occurring predominantly from West to East. Air mass inversions are rare.

The climate is semiarid with abundant sunshine, hot summers and cold winters, with temperature variations on a daily and seasonal basis.

Surface-Water Hydrology:

The location drains to Cottonwood Wash and then on to the White River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface-water systems.

The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

Ground-Water Hydrology:

Some minor pollution of ground-water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basis information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B.

The depths of fresh-water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh-water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Very sparse native grass and sagebrush.

Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about three acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the Bureau of Land Management. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents and various types 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, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If an historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings and other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location would be painted a light sand color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to predrilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment will not be visible to passersby of the area and would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County. But should this well discover a significant new hydrocarbon source, local, State, and possibly National economies might be improved. In this instance, other development wells would be anticipated with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and U.S. Geological Survey's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no National, State, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails, or other formally designated recreational facilities near the proposed location.

Waste Disposal:

The mud and reserve pits would contain all fluids used during the operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

(1) Not approving the proposed permit -- The oil and gas lease grants the Lessee exclusive right to drill for, mine, extract, remove, and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under the U.S. Geological Survey and other controlling agencies' supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite access road or any special restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal, or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

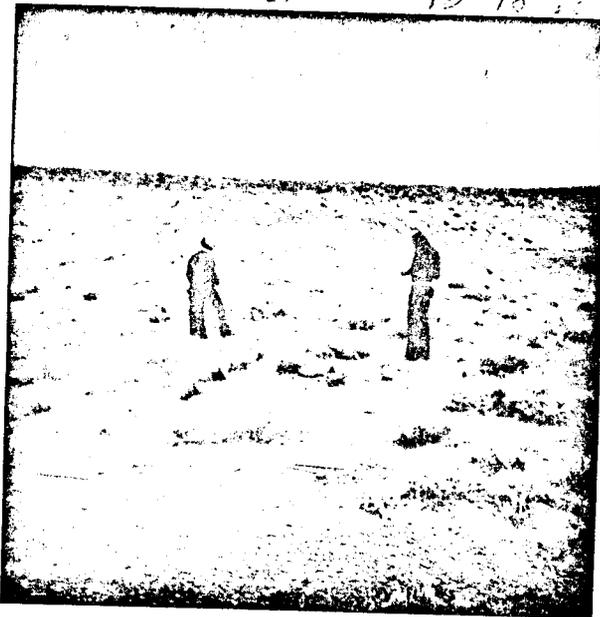
P.L. ROE No. 10-18-78



LOOKING N. FROM CIGE 29-23-7-20
E.A. SUPP. #1391 - NWSE-23-95-20E
U-0577A

LA

S. 10-18-78



CIGE 29-23-7-20 E.A. #1391
U-0577A
NWSE SEC. 23-95-20E
BITTER CREEK FIELD

LA

Adverse Environmental Effects Which Cannot Be Avoided:

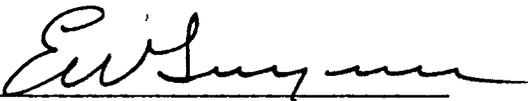
Surface disturbance and removal of vegetation from approximately three acres of land surface from the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil, or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to fresh-water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to the Cottonwood Wash would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

Date

10/30/78


District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771
November 19, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

Cig Exploration, Inc.
P. O. Box 749
Denver Colo. 80201

RE: SEE ATTACHED SHEET FOR WELLS.

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well 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

Debbie Beauregard
DEBBIE BEAUREGARD
CLERK-TYPIST

ATTACHMENT, WELLS INVOLVED.

- 1) Well No. CIGE 25-29-9-21
Sec. 29, T. 9S, R. 21E,
Uintah County, Utah
- 2) Well No. CIGE 26-26-10-21
Sec. 26, T. 10S, R. 21E,
Uintah County, Utah
- 3) Well No. CIGE 29-23-9-20
Sec. 23, T. 9S, R. 20E,
Uintah County, Utah
- 4) Well No. CIGE 30-6-10-21
Sec. 6, T. 10S, R. 21E,
Uintah County, Utah
- 5) Well No. CIGE 31-1-10-22
Sec. 1, T. 10S, R. 22E,
Uintah County, Utah
- 6) Well No. CIGE 32-20-9-20
Sec. 20, T. 9S, R. 20E,
Uintah County, Utah
- 7) Well No. CIGE 33-27-10-21
Sec. 27, T. 10S, R. 21E,
Uintah County, Utah
- 8) Well No. CIGE 38-4-10-21
Sec. 4, T. 10S, R. 21E,
Uintah County, Utah
- 9) Well No. CIGE 54-30-10-22
Sec. 30, T. 10S, R. 22E,
Uintah County, Utah



CIG Exploration, Inc.

A Unit of Coastal States Gas Corporation
2100 PRUDENTIAL PLAZA • P.O. BOX 749
DENVER, COLORADO 80201 • (303) 572-1121

November 27, 1979

Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Atten: Ms. Debbie Beauregard

Gentlemen:

29-23-9-20

CIG Exploration, Inc., does intend to drill those wells listed in your letter of November 19, 1979. At this time, however, a definite timetable of drilling operations has not been set. We would therefore, appreciate your retaining our applications for these wells in an active category.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Pat Bohner', written in black ink.

Patricia A. Bohner
Regulatory Analyst

PAB/pm

xc: F. W. Heiser
H. Speer



ATTACHMENT, WELLS INVOLVED.

- 1) Well No. CIGE 25-29-9-21
Sec. 29, T. 9S, R. 21E,
Uintah County, Utah
- 2) Well No. CIGE 26-26-10-21
Sec. 26, T. 10S, R. 21E,
Uintah County, Utah
- 3) Well No. ~~CIGE 29-23-9-20~~
Sec. 23, T. 9S, R. 20E,
Uintah County, Utah
- 4) Well No. CIGE 30-6-10-21
Sec. 6, T. 10S, R. 21E,
Uintah County, Utah
- 5) Well No. CIGE, 31-1-10-22
Sec. 1, T. 10S, R. 22E,
Uintah County, Utah
- 6) Well No. CIGE 32-20-9-20
Sec. 20, T. 9S, R. 20E,
Uintah County, Utah
- 7) Well No. CIGE 33-27-10-21
Sec. 27, T. 10S, R. 21E,
Uintah County, Utah
- 8) Well No. CIGE 38-4-10-21
Sec. 4, T. 10S, R. 21E,
Uintah County, Utah
- 9) Well No. CIGE 54-30-10-22
Sec. 30, T. 10S, R. 22E,
Uintah County, Utah



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771
March 27, 1980

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

Cig Exploration, Inc.
P.O. Box 749
Denver, Colorado 80201

Re: See attached sheet for wells

Gentlemen:

This letter is in response to a notice dated 11-27-~~79~~, on the above mentioned wells.

We would like to know the status of these wells. Our files show that they have not been drilled as of yet. Please advise this office of any change in any of the above wells.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH
CLERK-TYPIST

- (1) Well No. Cige 26-26-10-21
Sec. 26, T. 10S, R. 21E.
Uintah County, Utah
- (2) ~~Well No. Cige 29-23-9-20~~
~~Sec. 23, T. 9S, R. 20E.~~
Uintah County, Utah
- (3) Well No. Cige 32-20-9-20
Sec. 20, T. 9S, R. 20E.
Uintah County, Utah
- (4) Well No. Cige 33-27-10-21
Sec. 27, T. 10S, R. 21E.
Uintah County, Utah
- (5) Well No. Cige 38-4-10-21
Sec. 4, T. 10S, R. 21E.
Uintah County, Utah
- (6) Well No. Cige 54-30-10-22
Sec. 30, T. 10S, R. 22E.
Uintah County, Utah

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CIG Exploration

WELL NAME: CI GE 29-23-9-20

SECTION 23 NW SE TOWNSHIP 9S RANGE 20E COUNTY Uintah

DRILLING CONTRACTOR Masek

RIG # 1

SPUDED: DATE 5/28/80

TIME 4:00 p.m.

HOW dry hole spudder

DRILLING WILL COMMENCE 6/3/80

REPORTED BY Pat Bohner

TELEPHONE # 303-572-1121 ex 293

DATE May 30, 1980

SIGNED M. J. Menden

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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
CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR
P. O. BOX 749, DENVER, CO 80201

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

1950' FSL & 2027' FEL SECTION 23-T9S-R20E

14. PERMIT NO.
43-047-30499

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4848' UNGR. GR.

5. LEASE DESIGNATION AND SERIAL NO.
U-0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
NATURAL BUTTES UNIT

8. FARM OR LEASE NAME
NATURAL BUTTES

9. WELL NO.
CIGE 29-23-9-20

10. FIELD AND POOL, OR WILDCAT
BITTER CREEK FIELD

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
SECTION 23-T9S-R20E

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 <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) <u>SPUD</u> <input checked="" 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.)*

Well spudded 4:00 PM, May 28, 1980. Verbal report made May 30, 1980 to U.S.G.S. (Teresa) and State of Utah (Bonnie). Please see attached for details of spud.

RECEIVED
JUN 6 1980

DIVISION OF
OIL, GAS & MINING

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

SIGNED C. A. Hansen TITLE Drilling Engineer DATE June 2, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF SPUD

WELL NAME: C16E 29-23-9-20

LOCATION: NW 1/4 SE 1/4 SECTION 23 T- 9S R- 20E

COUNTY: UTAH STATE: UTAH

LEASE NO.: U-0577-A LEASE EXPIRATION DATE: 6/15/71

UNIT NAME (If Applicable): NATURAL BUTTES UNIT

DATE & TIME SPURRED: 4 pm 5/28/80

DRY HOLE SPUDDER: All- WESTERN AIR DRILLING

DETAILS OF SPUD (Hole, Casing, Cement, etc.): SPUD 13" hole & drill to 209'. R/W 5 Jts 9-5/8", 47#, 1c-ss & set @ 209' 6". CMT w/ 125 SX Class H + 290 CaCl2. PP @ 2:15 pm 5/29/80.

ROTARY RIG NAME & NUMBER: MASEK RIG #1

APPROXIMATE DATE ROTARY MOVES IN: 6/3/80

FOLLOW WITH SUNDRY NOTICE

RECEIVED

USGS CALLED: DATE: 5/30/80 JUN 6 1980

PERSON CALLED: Teresa DIVISION OF OIL, GAS & MINING

STATE CALLED: DATE: 5/30/80

PERSON CALLED: Bonnie

REPORTED BY: PAT Bohner

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

SUBMIT IN TRIPlicate
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-0577-A
2. NAME OF OPERATOR CIG EXPLORATION, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE SURFACE
3. ADDRESS OF OPERATOR P. O. BOX 749, DENVER, CO 80201		7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1950' FSL & 2027' FEL SECTION 23-T9S-R20E		8. FARM OR LEASE NAME NATURAL BUTTES
14. PERMIT NO. 43-047-30499	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4848' UNGR. GR.	9. WELL NO. CIGE 29-23-9-20
		10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ABBA SECTION 23-T9S-R20E
		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 <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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <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.)*

VERBAL APPROVAL TO PLUG & ABANDON RECEIVED FROM W. P. MARTENS (USGS) ON 6/23/80 AT 12:50 A.M.

TD: 6800'
FORMATION TOPS: GREEN RIVER - 1705'
WASATCH - 5075'

SPOT CEMENT PLUGS AT:

PLUG #1:	4970'	-	5100'	-	50 SX "H"
PLUG #2:	3250'	-	3095'	-	50 SX "H"
PLUG #3:	1750'	-	1550'	-	75 SX "H"
PLUG #4:	300'	-	170'	-	50 SX "H"
PLUG #5:	SURFACE	-		-	10 SX "H"

CHRONOLOGICAL OF WELL ATTACHED: REPORT OF VERBAL APPROVAL ATTACHED. COMPLETION REPORT TO FOLLOW.

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

SIGNED *C. A. Hansen* TITLE Drilling Engineer DATE 6/23/80
C. A. Hansen

(This space for Federal or State office use)

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

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator CIG EXPLORATION Representative JIM McCORMICK

Weil No. 29-23-9-20 Located NW 1/4 SE 1/4 Sec. 23 Twp 9S Range 20E

Lease No. U-0577-A Field Bitter Creek State Utah

Unit Name and Required Depth Natural Buttes Base of fresh water sands _____

T.D. 6800 Size hole and Fill Per Sack 7 7/8" Mud Weight and Top 10.6 #/gal. _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>9 5/8</u>	<u>222</u>	<u>CIRC</u>		<u>10 SX @ surface w/req marker</u>		
				<u>170</u>	<u>300</u>	<u>50 SX</u>
				<u>1550</u>	<u>1750</u>	<u>75 SX</u>
<u>GRN RVR</u>	<u>1705</u>	<u>3185</u>		<u>3095</u>	<u>3225</u>	<u>50 SX</u>
<u>Wasatch</u>	<u>5075</u>			<u>4970</u>	<u>5100</u>	<u>50 SX</u>

Remarks

DST's, lost circulation zones, water zones, etc. fill all holes; punch pits as needed, pick up all debris, rehabilitate as set forth in surface use plan
No lost circulation zones encountered

Approved by WJ Martens Date 6-23-80 Time 12:50 h.M.

CC: OPERATOR w/cond of approval ✓
 BLM - VEL
 State
 GS - VETL
 File - this copy

MER
 Control
 lease records.

CIGE #29-23-9-20

Bitter Creek Field (E)

LOCATION: NW/4 SE/4, Section 23-T9S-R20E.

Uintah County, Utah

AFE: 19640 WI: 100%

ATD: 6800; SD: 5-28-80

CIGE, Oper.

9-5/8" @ 209';

6-16-80 Cont. from PAGE 1. M_f 0.8, CL 3500 ppm, CA 80 ppm, gels 0"4, 10"9, cake 2/32, MBT 3.5 lb/bbl, chlor 200 ppm. Cum Csts: \$121,744.

6-17-80 5731'; (269'-23 hrs); Drlg 7-7/8" full retns.

Drlg; ris service & BOP check; drlg; rig service & BOP check; drlg. BGG 600 units, CG 1100 units. MW 9.5, vis 36, WL 12.4, PV 10, YP 8, sand 1/8%, solids 6.0%, pH 10.0, Alk 0.4, M_f 0.9, CL 1900 ppm, CA Tr ppm, gels 0" 2, 10" 5, cake 2/32, MBT 15 lb/bbl, chlor 200 ppm. (2° @ 4840'). Cum Csts: \$128,736.

6-18-80 5976'; (245'-22 hrs); Drlg.

Drlg; rig service; survey (2° @ 5746'); drlg; change rotary head; rig service; drlg. MW 9.6, vis 40, WL 9.6, PV 13, YP 12, Sand 1/2, Solids 7%, pH 10.5. CL 1700 ppm, CA 100 ppm, Gels 0" 3, 10" 6, Cake 2/32. Cum Csts: \$136,415.

6-19-80 6214'; (238'-23 hrs); Drlg 7-7/8"

Drlg; RS & BOP check; drlg; RS & BOP check; drlg. BGG 200 units, CG 850. MW 9.6, vis 37, WL 9.6, PV 12, YP 10, Sand 1/2, Solids 7.0%, pH 10.5, Alk 0.5, M_f 1.0, CL 1500 ppm, CA 80 ppm, Gels 0" 2, 10" 5, Cake 2/32, MBT 15 lb/bbl, chr 400 ppm. (2° @ 5746'). Cum Csts: \$146,374.

6-20-80 6430'; (216'-22 1/2 hrs); Drlg.

Drlg; rig service; drlg; repair rotary guard; drlg. 6298-6306 6"/ft Bf, 2.5"/ft Dur, 5.5"/ft Aft. 250 Bf, 250 Dur, 250 Af. 6312-6322 5"/ft Bf, 2"/ft Dur, 6 1/2" Af. 250 Bf, 350 Dur, 225 Aft. BGG 200 units, CG 500 units. MW 9.7, vis 37, WL 10, PV 9, YP 9, Sand 1/2, Solids 8%, pH 10.5, Alk .5, M_f 1.5, CL 1800 ppm, CA 80 ppm, Gels 0" 2, 10" 4, Cake 2/32. Cum Csts: \$168,138.

6-21-80 6567'; (137'-15 hrs); Drlg.

Drlg; rig service; drlg; survey; TOH w/bit #3, strap; DP: TIP w/bit #4; ream 60' to btm; drlg. BGG 175, CG 500, TG 1225. MW 9.7+, vis 38, WL 9.6, PV 12, YP 11, Sand 1/2, Solids 8%, pH 10.5, Alk .4, M_f .9, CL 1700 ppm, CR 400, CA 80 ppm, Gels 0" 2, 10" 6, Cake 2/32. (1.0° @ 6528'). Cum Csts: \$179,176.

6-22-80 6800'; (233'-22 1/2 hrs); Circ & cond for logs, prep to TOH

Drlg; rig service & check BOPs; drlg rig service & check; drl to TD @ 5:30 AM; circ & cond hole. BGG 200 units, CG 400 units. MW 9.7, vis 45, WL 9.4, PV 1/6, YP 1/6, Sand 1/2, Solids 7%, pH 10.5, Alk .5, M_f 1.0, CL 1600 ppm, CR 400, CA 80 ppm, Gels 0" 5, 10" 15, Cake 2/32. Cum Csts: \$187,863.

6-23-80 6800'; TIH opn ended prep to PA

Circ & cond for logs; drlg; survey & POOH; RU Schlumberger loggers, TD 6796; Ran FDC-CNL GR Dual Induction Lateruls; RD Schlumberger; TIH w/DC; cut drlg line; TIH; circ & cond; POOH; lay DP & DC; TIH opn ended to P & A; Prep to P & A. MW 9.7, vis 45, WL 9.4, PV 16, YP 16, Sand 1/2, Solids 7%, pH 10.5, Alk .5, M_f 1.0, CL 1600 ppm, CA 400 CH, Gels 0" 5, 10" 15, Cake 2/32. (1° @ 6800'). Cum Csts: \$207,669.

6-24-80 6800'; RDRT.

FTIH w/DP opn ended; RU Dowell; prep to P & A; circ; set plug #1 50 sx Cl "H" 4970-5100'; LD DP; set plug #2 50 sx 3250-3095; LD DP; set plug #3 75 sx 1750-1550; LD DP; set plug #4 50 sx 300-170'; set 10 sx plug @ surf; ND BOPs; clean mud tank; Rig rel 12 MID 6-23-80. Cum Csts: \$218,995.

6-25-80 6800'; RD RT.

WO daylight; RD, move to CIGE 71; WO daylight. Cum Csts: \$223,495.

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR CIG EXPLORATION, INC.</p> <p>3. ADDRESS OF OPERATOR P. O. BOX 749, DENVER, CO 80201</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1950' FSL & 2027' FEL SECTION 23-T9S-R20E</p> <p>14. PERMIT NO. 43-047-30499</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U-0577-A</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT</p> <p>8. FARM OR LEASE NAME NATURAL BUTTES</p> <p>9. WELL NO. CIGE 29-23-9-20</p> <p>10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD</p> <p>11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SECTION 23-T9S-R20E</p> <p>12. COUNTY OR PARISH UINTAH</p> <p>13. STATE UTAH</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4848' UNGR. GR.</p>	

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"/>	Operations <input checked="" 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.)*

Well spudded May 28, 1980. Please see attached chronological report for operations to June 15, 1980.

RECEIVED
JUN 24 1980

DIVISION OF
OIL, GAS & MINING

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

SIGNED *C. A. Hansen* TITLE Drilling Engineer DATE June 16, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

CIGE #29-23-9-20

Bitter Creek Field (E)

Uintah County, Utah

AFE: 19640 WI: 100%

ATD: 6800; SD: 5-28-80

CIGE, Oper.

9-5/8" @ 209';

LOCATION: NW/4 SE/4, Section 23-T9S-R20E.

6-16-80 Cont. from PAGE 1. M_f 0.8, CL 3500 ppm, CA 80 ppm, gels 0"4, 10"9, cake 2/32, MBT 3.5 lb/bbl, chlor 200 ppm. f Cum Csts: \$121,744.

6-17-80 5731'; (269'-23 hrs); Drlg 7-7/8" full retns.

Drlg; ris service & BOP check; drlg; rig service & BOP check; drlg. BGG 600 units, CG 1100 units. MW 9.5, vis 36, WL 12.4, PV 10, YP 8, sand 1/8%, solids 6.0%, pH 10.0, Alk 0.4, M_f 0.9, CL 1900 ppm, CA Tr ppm, gels 0" 2, 10" 5, cake 2/32, MBT 15 lb/bbl, chlor 200 ppm. (2^0 @ 4840'). Cum Csts: \$128,736.

RECEIVED
JUN 24 1980

DIVISION OF
OIL, GAS & MINING

CIGE #29-23-9-20
 Bitter Creek Field (E)
 Uintah County, Utah
 AFE: 19640 WI: 100%
 ATD: 6800' SD: 5-28-80
 CIGE, Oper.
 9-5/8" @ 209';

LOCATION: NW/4 SE/4, Section 23-T9S-R20E

5-30-80 209'; Prep to weld on 9-5/8 x 10" 3000 csg head.

5-28-80: RU rat hole rig; spud 13" surface hole @ 4:00 PM; drl to 120'.

5-29-80: drl from 120' to 209'; ran 5 jts 212.71', 9-5/8" 47#, K-55 & set @ 209' GL.
 RU Howco & cmt w/125 sx Class "H", 2% CaCl₂; Displ w/14.5 bbls fresh wtr, plug dwn 2:15
 PM 5-29-80 @ 197' GL; Yield 1.06 ft³/sx 16.4#/gal; circ cmt to surface approx 7 bbls
 did not fall. Cum Csts: \$13,205.

5-31 thru 6-4-80 WORT.

6-5-80 209'; Prep to RURT.
 MIRT; WO daylight. Cum Csts: \$28,547.

6-6-80 209'; RURT.
 RURT; WO daylight. Cum Csts: \$33,347.

6-7-80 209'; Prep press tst BOP stack.
 RURT; WO daylight. Cum Csts: \$39,112.

6-8-80 930'; (721'-11½ hrs); Drlg.
 WO daylight; NU BOP's; press tst BOP & manifold, kelly valves to 3000
 psi, ok; Hydril to 1500, ok; PU DC; Drlg; Survey (½° @ 700'). Drlg; MW 8.4, vis
 27, Cum Csts: \$47,292.

6-9-80 1870'; (940'-21 hrs); Drlg.
 Drlg; RS; Drlg; survey (½° @ 1341'); Trip; Drlg; MW 8.4, vis 27. Cum
 Csts: \$63,340.

6-10-80 2680'; (810-22½ hrs); Drlg, full retns.
 Drlg, survey (1° @ 1850'); drlg; rig service; chk BOPE; drlg; survey
 (1° @ 2390'); drlg, full retns; need mud logging unit - called last night - never
 showed. MW 8.5, vis 29 circ reserve pit. Cum Csts: \$69,627.

6-11-80 3513'; (833'-22 hrs); Drlg. full retns.
 Drlg, survey (1° @ 2895'); chng out dry; bshg for rotary head; drlg; rig service;
 drlg; survey (1½° @ 3400'); drlg; background 650 units, connec 1250 units. MW 8.4, vis 27
 circ reserve pit. Cum Csts: \$76,352.

6-12-80 4142'; (630'-22½ hrs); Drlg @ 20' PH.
 Drlg; rig service' drlg;; wireline survey (1½° @ 3900'); drlg. Background
 400 units, Connec 900 units; MW 8.8, vis 32, WL 16.2 PV 5, YP 4#/100'; trace of sand,
 Solids 3%, pH 10.5, ALK .9, M_f 1.8, CL(PPM) 5100, CA(PPM) 180, Gels 0" 2, 10" 3, Cake
 2/32, MBT 2.0 LB/BBL. Cum Csts: \$85,165.

6-13-80 4540'; (398'-23½ hrs); Drlg, full retns.
 Drlg; survey; rig service, check BOP's; drlg; GBB 500 units; CG 900 units; MW 9.4,
 vis 37, WL 14.2, PV 10, YP 7, sand ¼, solids 7, pH 10.5, alk .8, M_f 1.4, CL 4800 ppm, CA 180
 gels 0" 2 10" 6, cake 2/32, MBT 2.0, chromates 300; (1½° @ 4416). Cum Csts: \$94045

6-14-80 4829'; (289'-23 hrs); Drlg 7-7/8" hole w/full retns.
 Drlg; rig service & check BOP; drlg; rig service & check BOP; drlg; BGG 600 units,
 CG 1450; drlg brk 4765-69, rate 5.5 mpf-2.0-5.0 gas 400--675--475. MW 9.4+, vis 35, WL
 14.0, PV 8, YP 6, sand ¼, Solids 8%, pH 10.0, ALK .4, M_f .9, CL 4600 ppm, CA 120, gels 0"
 2 10" 4, cake 2/32. Cum Csts: \$101,420.

6-15-80 5150'; (312'-18½ hrs); Drlg 7-7/8".
 Drlg; bit trip @ 4865-washed 30' to btm; drlg; rig service & check BOP; drlg; rig
 service & check BOP; drlg. BGG 250 units, CG 450, trip gas 1650. Drlg breaks 4910-14 3
 mpf-1 mpf-3 mpf, 400 units-750-300; 5140-46 4 mpf-1-4, 250 units-350-225. MW 9.6, vis 34,
 WL 13.8, PV 8, YP 7, sand ¼, solids 5, pH 10.5, alk .4, M_f 1.0, CL 4300 ppm, CA 100, gels
 0" 2, 10" 5; cake 2/32, MBT 2.5, chromates 300. (2° @ 4840'). Cum Csts: \$112,672.

6-16-80 5462'; (312'-23 hrs); Drlg 7-7/8" full retns
 Drlg; check BOP's & rig service; drlg; rig service, check BOP's; drlg; BG 300 uni
 CG 550 units. Brk 5237-41 (4') Bef 5.0"/ft 350 units--Dur 2.0" 350 units--Aftr 6.0"/ft
 250 units. MW 9.6, vis 38, WL 14.2, PV 10, YP 7, sand ¼, solids 7.0%, pH 10.0, ALK 0.4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL

(See instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR

CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR

P. O. BOX 749, DENVER, CO 80201

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

At surface 1950' FSL & 2027' FEL, NW SE

At top prod. interval reported below

SAME
At total depth

5. LEASE DESIGNATION AND SERIAL NO.

U-0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UTE TRIBE SURFACE

7. UNIT AGREEMENT NAME

NATURAL BUTTES UNIT

8. FARM OR LEASE NAME

NATURAL BUTTES

9. WELL NO.

CIGE 29-23-9-20

10. FIELD AND POOL, OR WILDCAT

Natural Buttes Field

BITTER CREEK FIELD

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

SECTION 23-T9S-R20E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

14. PERMIT NO.

43-047-30499

DATE ISSUED

9/19/78

15. DATE SPUDDED

5/28/80

16. DATE T.D. REACHED

6/22/80

17. DATE COMPL. (Ready to prod.)

N/A P&A 6-24-80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

4848' UNGR. GR.

19. ELEV. CASINGHEAD

UNKNOWN

20. TOTAL DEPTH, MD & TVD

6800'

21. PLUG, BACK T.D., MD & TVD

N/A

22. IF MULTIPLE COMPL., HOW MANY*

N/A

23. INTERVALS DRILLED BY

0 - TD

ROTARY TOOLS

CABLE TOOLS

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

N/A

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

FDC-CNL, DIL, GR

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
<u>9-5/8"</u>	<u>47#</u>	<u>209' GL</u>	<u>12-1/4"</u>	<u>125 SX "H"</u>	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		<u>N/A</u>		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	<u>N/A</u>	

31. PERFORATION RECORD (Interval, size and number)

N/A

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	<u>N/A</u>

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKES 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

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

SIGNED

C. A. Hansen

TITLE

Drilling Engineer

DATE

6/26/80

*(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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES CUT; NO DST'S RUN			

38. GEOLOGIC MARKERS		TOP	TRUE VERT. DEPTH
NAME	DEPTH		
GREEN RIVER	1705'		
WASATCH	5075'		

FORM OGC-8-X
FILE IN QUADRUPLICATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number CIGE 29-23-9-20

Operator CIG EXPLORATION, INC.

Address P. O. BOX 749, DENVER, CO 80201

Contractor J. A. MASEK DRILLING COMPANY

Address 410 17th STREET, SUITE 1625, DENVER, CO 80202

Location NW 1/4, SE 1/4, Sec. 23 ; T. 9 ~~XX~~ S, R. 20 E; UINTAH County
~~XX~~

Water Sands:

1.	<u>Depth:</u>		<u>Volume:</u> Flow Rate or Head -	<u>Quality:</u> Fresh or Salty -
	From-	To-		
1.				
2.				
3.			NONE ENCOUNTERED	
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

GREEN RIVER - 1705'

WELL PLUGGED & ABANDONED 6/23/80

WASATCH - 5075'

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.