

FILE OPERATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed
 ... WW..... TA.....
GW..... 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.....
CLog..... CLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR
 P. O. Box 359, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 NW $\frac{1}{4}$ SW $\frac{1}{4}$ (3508' FNL/4629' FEL)
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 28 miles southwest of Duchesne, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 650'
 16. NO. OF ACRES IN LEASE 1280.00

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A
 19. PROPOSED DEPTH 3800' *Winnick*

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7596' GR

5. LEASE DESIGNATION AND SERIAL NO.
 U-12433-
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 Gray Head Unit
 8. FARM OR LEASE NAME
 9. WELL NO.
 No. 17-1 Twelve Mile Crk-Fe
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA
 Sec. 17, T6S-R7W
 12. COUNTY OR PARISH | STATE
 Duchesne | Utah
 17. NO. OF ACRES ASSIGNED TO THIS WELL 160.00
 20. ROTARY OR CABLE TOOLS
 Rotary
 22. APPROX. DATE WORK WILL START*
 June 1, 1979

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# K-55	300'	To Surface
8-3/4"	7"	20# K-55	3800'	200 sx ± (If Producer)

Proposed Program

See attached Well Synopsis.

Lease Description

T6S-R4W USM
 Sec. 31 All
 Sec. 33 All 1280.00 acres

BOP Program

See attached 10-Point Program.

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 *Shirley Johnson* TITLE Field Representative DATE MAY 20, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
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b. TYPE OF WELL
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 SINGLE ZONE MULTIPLE ZONE

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3. ADDRESS OF OPERATOR
 P. O. Box 359, Casper, WY 82602

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21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7596' GR

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Proposed Program

See attached Well Synopsis.

Lease Description

T6S-R4W USM
 Sec. 31 All
 Sec. 33 All 1280.00 acres

BOP Program

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24. SIGNED [Signature] TITLE Field Representative DATE MAY 24, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

WAAH OF GAS

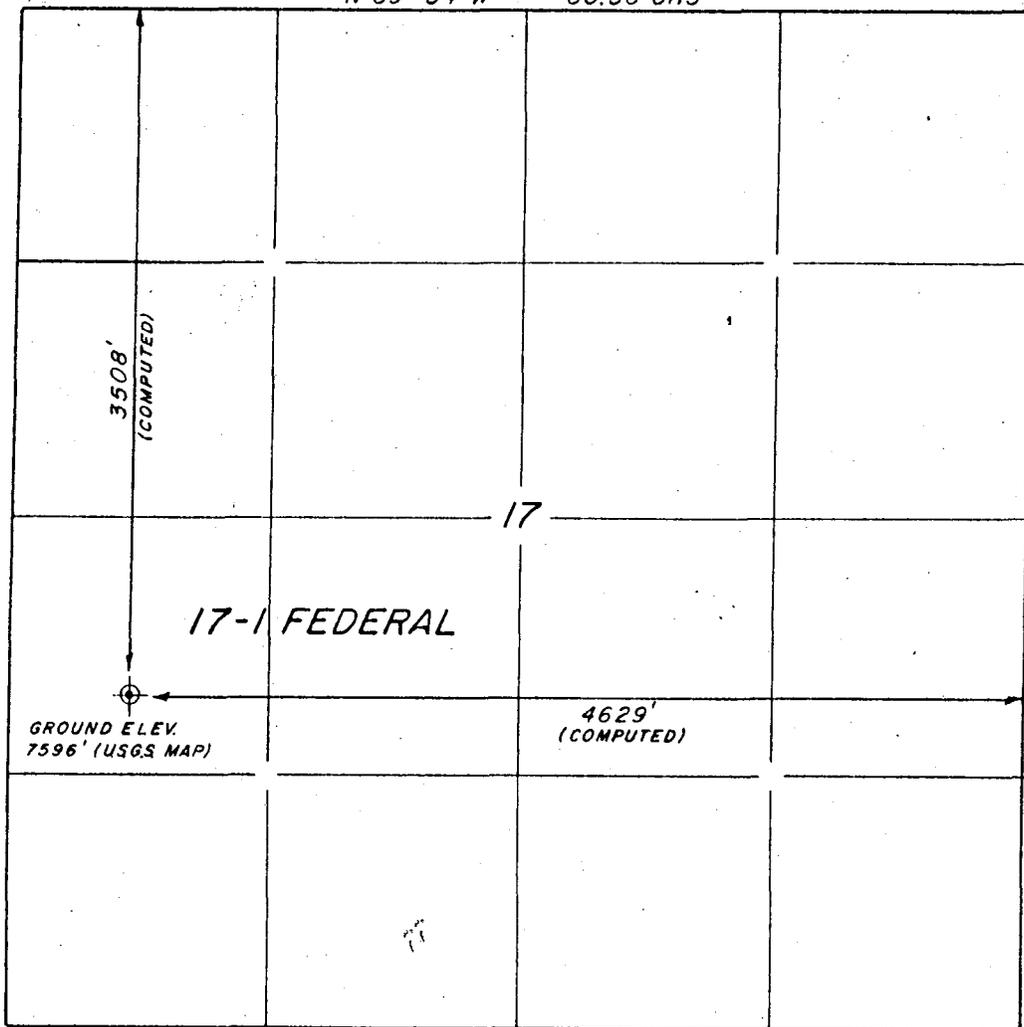
BURTON/HARVEY INC.

Located in the NW 1/4 of the SW 1/4
of Sec. 17, T6S, R7W, U.S.B.&M.

WELL SITE LOCATION

17-1 TWELVEMILE CREEK FEDERAL

N 89° 54' W 80.36 CHS



NORTH

SCALE: 1"=1000'

NOTES

THE BASIS OF BEARINGS FOR THIS SURVEY WAS DETERMINED BY SOLAR OBSERVATIONS. ORIGINAL GENERAL LAND OFFICE NOTES AND PLATS WERE USED AS REFERENCES AND FOR CALCULATIONS.

SURVEYOR'S CERTIFICATE

I hereby certify that this plat was prepared from field notes of an actual survey performed under my direct supervision.

Jerry D. Allred
Jerry D. Allred, Registered Land Surveyor, Cert. No. 3817 (Utah)

76-123-014

17 May '79



ALLRED - PEATROSS ASSOCIATES
Surveying & Engineering Consultants
P. O. Drawer C
DUCHESNE, UTAH 84021
(801) 738-5352

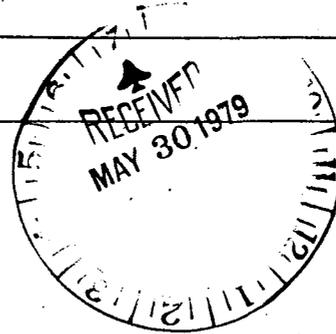


BURTON/HAWKS, INC.

First National Bank Building
P. O. Box 359
Casper, Wyoming 82602
307/234/1593

May 25, 1979

Mr. Ed Gynn, District Engineer
U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah, 84111



Re: *Twelve Mile Creek Fed. 17-1*
Burton/Hawks, Inc.
4-Well Program
South Uinta Prospect
Duchesne County, Utah

Dear Ed:

Enclosed please find the following data in reference to the above prospect:

1. Applications for Permit to Drill, Form 9-331C (4 wells)
2. Location plats (4 wells)
3. 10-Point Programs (4 wells)
4. MSUOP and associated exhibits (4 wells)

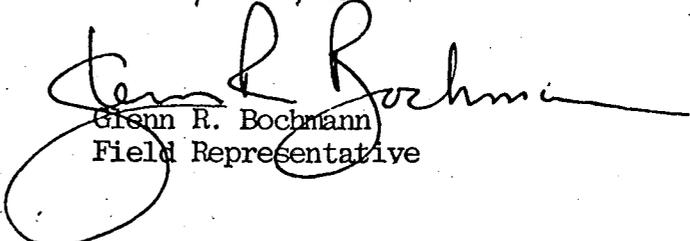
A Federal blanket bond is currently being obtained and the archaeological clearance is being mailed directly to you.

Since we are on an extremely short fuse on these wells, I would appreciate any help you can give us in regard to an early on-site inspection.

Thank you for your continued cooperation.

Yours very truly,

BURTON/HAWKS, INC.


Glenn R. Boehmann
Field Representative

GRE/jo

Enclosures

cc: Joe Fransen, District Ranger
Ashley National Forest
Duchesne, Utah

#17-1 Twelve Mile Creek #1 well
SE NW SE Sec. 17, T6S, R7E
Duchesne County, Utah

- 8-11-79 Rigging up.
- 8-12-79 Spudded 8 P.M., 8-11-79. Depth 335', made 295' in 13¼ hrs drilling. Present operation: Drilling.
- 8-13-79 Depth today 1150'. Made 815' in 12½ hrs drilling. Cement plug down at noon. Ran 8 jts of 9-5/8", 32.30# per foot, 186 sx of Type G cmt, A7 4 sx cella flake ¼#/sx. Present operation: Drilling. (Csg ran to 335').
- 8-14-79 Depth 3125'. Made 1948' in 23-3/4 hrs drilling. Present operation: Drilling.
- 8-15-79 Depth 4005'. Made 880' in 10-3/4 hrs drilling. Present operation: Waiting on logger.
- 8-16-79 Depth 4,005'. Present operation: Waiting on cementers.
- 8-17-79 Cement plugs from 3875-3675', 73 sx, 2300-2100', 73 sx, 250-600', 130 sx, 10 sx surface plug. Done plugging at 11 a.m., 8-16-79 Present operation: Tearing down and moving rig.

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: May 31, 1979

Operator: Burton/Hawks, Inc.

Well No: Twelve Mile Creek Federal 17-1

Location: Sec. 17 T. 6S R. 7W County: Wuchee

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-013-30495

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: M.F. Minder 6-11-79

Remarks: Its 48' off on south line of Forest land. requested they move it to the northwest

Director: _____

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 _____ Unit

Other:

Letter Written/Approved

#2



BURTON/HAWKS, INC.

First National Bank Building
P. O. Box 359
Casper, Wyoming 82602
307/234/1593

June 6, 1979

Mr. Mike Mender
Division of Oil, Gas, and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116



Re: Burton/Hawks, Inc.
#17-1 Twelve Mile Creek Federal
NW SW Section 17, T6S, R7W
Duchesne County, Utah

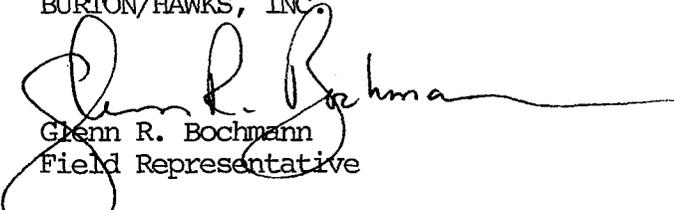
Dear Mr. Mender:

We are requesting an exception to the standard spacing pattern for this well. The Forest Service assisted in the selection of this site while it was being staked and for the reasons explained in the accompanying letter we wish to make this request.

There are no other leaseholder within a 660' radius of this location.

Thank you,

BURTON/HAWKS, INC.


Glenn R. Bochmann
Field Representative

GRB:kca
Encls.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-12433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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.)

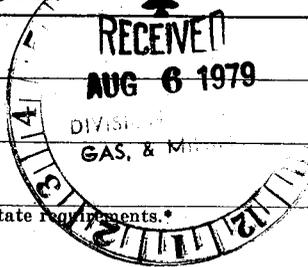
1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 359, Casper, Wyoming, 82602

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

NW $\frac{1}{4}$ SW $\frac{1}{4}$ (3508' FNL/4629' FEL)



7. UNIT AGREEMENT NAME
Gray Head Unit

8. FARM OR LEASE NAME

9. WELL NO.
No. 17-1 Twelve Mile Creek

10. FIELD AND POOL, OR WILDCAT Fed.
Wildcat

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

Sec. 17, T6S-R7W

14. PERMIT NO.

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

7596' GR

12. COUNTY OR PARISH 13. STATE

Duchesne Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

(NOTE: Report results of multiple completion on Well Completion or 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.)*

7-31-79 Spudded 8:00 p.m. Set 40' of 13-3/8" conductor pipe

8-6-79 Anticipate moving on Burton/Hawks Drilling Co. Rig #1 to drill to proposed total depth of 3800'.

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

SIGNED Rance Denton

TITLE Drilling Superintendent

DATE 8-1-79

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



GEOLOGICAL REPORT

on the

BURTON/HAWKS 17-1
TWELVEMILE CREEK FEDERAL
NW SW Sec. 17-T6S-R7W
DUCHESNE COUNTY, UTAH

AUGUST 1979

COMPILED BY:

ROY D. BROWN
CONSULTING GEOLOGIST
DENVER, COLORADO

PERTINENT DATA

Name of Well: Burton/Hawks, Inc. 17-1
Twelvemile Creek Federal

Location: NW SW Sec. 17-T6S-R7W
Duchesne County, Utah

Elevation: Grd: 7596 KB 7607

Objectives: Any gas/oil zones within the Green River Fm.

Drilling Contractor: Burton/Hawks Rig #1

Date Spudded: August 11, 1979; 8 AM

Surface Casing: Ran 8 jts. 9 5/8" - 32-30#; landed @ 335' KB;
Cmt. W/186 sxs. type G + 4 sxs. A-7 + 1/4# cello
flake per sack; had returns

Hole Size: 12 1/4" Sfc. 8 3/4" main hole

Total Depth: 4005 Driller 4003' Logger

Date Reached TD: August 14, 1979; 6:30 PM

Well Status: P & A

Rig Released: ----

Drilling Fluid: Air from sfc. csg to TD

Logs Run: Schlumberger Dual Induction Laterolog
Scales 2" 336' - 3997'
5" 336' - 3997'

Schlumberger CNL - Density W/GR - Cal.
5" 336' - 4401"

CONCLUSIONS AND RECOMMENDATIONS

The small amount of gas encountered at 803' while making a connection (also down to grease swivel) is considered coming from low porosity and permeability fracture porosity as no primary reservoir is indicated between 800' and 900' on the mechanical logs. The gas encountered on occasional connections below 900' and to total depth is related to the above zone or zones as no increase was indicated. The above gas and gas zone is non-commercial. (Refer to the daily summary for details on gas flares.)

At approximately a depth of 2700' (top of C-Zone) a trace of oil appeared on the flare pit. Samples in this zone revealed minor amounts of sandstone, light gray to light brown, fine to very fine, subangular to subrounded, calcareous (some argillaceous infilling) locally silty, frangible, tight to low porosity with a pale yellow fluorescence, scattered light brown stain, and a light brown cut.

Mechanical logs reveal a porous sandstone between 2694' and 2708' (14' with an average neutron-density porosity of 17%.) The following calculation was made in the above zone using the "F" factor plot for R_w and the Humble formula.

$$SW = \sqrt{\frac{R_w}{R_{wa}}}$$

Depth	N ϕ	D ϕ	A ϕ	Rt	Rw	Rwa	Sw	Remarks
2694' - 2708'	22	12	17	39	.36	1.4	50	Oil

The above calculation and sample descriptions indicate the above zone as oil bearing but, the trace of oil to the pit indicates a probable low permeability reservoir. The presence of argillaceous infilling material in the sandstone also indicates that the porosity log is probably recording a higher porosity than is actually present. No further evaluation of the above zone is recommended.

The following are a few calculations made throughout the hole using the above method:

Depth	N ϕ	D ϕ	A ϕ	Rt	Rw	Rwa	Sw	Remarks
1070' - 74'	?	16	16	52	1.7	1.53	100	
1142' - 46'	?	13	13	78	1.7	1.51	100	
1532' - 40'	?	15	15	114	2.0	3.3	78	
2372' - 76'	?	19	19	60	.29	2.55	34	Oil

The above 2372' - 76' zone probably is oil bearing but, it too probably has low permeability plus being very thin. No further evaluation is recommended in the above zone.

Conclusions and Recommendations (Cont'd)

The indicated broken thin porosity in the D-Zone between 3353' and 3389' would calculate hydrocarbon bearing: but, it is believed that the density porosity values are reading in part shale (clay infilling) density and that the Rts are higher because of calcareous cementation. No shows of oil were recorded in the pits at the time of penetration and any samples examined in this zone revealed a tight section. No further evaluation is recommended for the above zones.

The well has presently been plugged and abandoned as dry.

STRATIGRAPHY (7607 KB)

Tertiary	<u>Drilling Time & (Sub-sea)</u> <u>Spl. Tops</u>	<u>Log Tops</u>	<u>(Sub-sea)</u>
Eocene Green River	Surface		
A - Zone	1645 (+5962)	1678	(+5929)
B - Zone	2200 (+5407)	2228	(+5379)
C - Zone	2660 (+4947)	2680	(+4927)
Wire Fence Zone -- very poorly developed	@	2987 ??	
D - Zone	3060 (+4547)	3110	(+4497)
E - Zone	3400 (+4207)	3460	(+4147)
Eocene Wasatch Fm.	projected depth =	4054	(+3553)

TOTAL DEPTH

4005' Driller 4003' Logs
(Strap depth 4003')

DAILY PROGRESS SUMMARY WITH COMMENTS

August 13, 1979:

Went out from under surface casing (335' KB); Drlg at 1310'; Progress 975'. Put mist pump in hole at 615'. Had connection gas flares at 803 and at 894' (2 and 3 minutes respectively), which were approximately 8' to 10' flares. Flares occurred at most connections thereafter and the amount of and/or size of flare was normally related to the time down for connections. It was believed that the gas was coming from a low volume, low permeability zone (low porosity sandstone and/or fractured shale) at approximately 800' considered non-commercial.

August 14, 1979:

Drlg. at 3160'; Progress 1850'; misting with small amount of water in part formation water and part introduced into the system; but, the hole was effectively being evaluated while drilling.

On connections occasionally a small short (a few seconds; 3' - 10') flare would occur. The size usually was dependent on down time. All gas was related to the 800' zone or zones as above.

August 15, 1979:

Waiting on Schlumberger at a final total depth of 4005'; Progress 845'; conditioning hole (mud) in preparation to logging. Reached total depth at 6:30 PM, August 14, 1979. No additional shows of gas and/or oil were encountered while drilling the above 840'.

Strap depth 4003'.

August 16, 1979:

Preparing to plug and abandon.

GENERALIZED LITHOLOGIC DESCRIPTIONS OF PERTINENT ZONES
(at immediate location)

- 1678-2228 "A" - Zone: Predominately shale varicolored grayish green to gray and brown to rarely reddish maroon, calcareous, blocky to platy, usually soft with a very few thin interbeds of sandstone, light gray, very fine, locally silty, calcareous, medium hard, tight and occasionally grading to a very fine sandy siltstone with an occasional thin streak limestone, light brown to brown cryptocrystalline, argillaceous, locally ostracodal and rare traces isolated (no intercommunication of porosity) very poor pin point (secondary) vugular porosity, medium hard, (rare traces pale yellow fluorescence and questionable light brown stain in upper part within the sandstones and/or limestones but considered not significant.)
- 2228-2680 "B" - Zone: Shale, varicolored as in the "A" - Zone with some interbedded siltstone, light greenish gray and gray, locally very fine sandy, argillaceous and occasionally grading to a tight calcareous silty light gray sandstone with occasional thin streaks of brown ostracodal argillaceous medium hard limestone (rare questionable spotty light brown stain and traces of fluorescence (2370') within the sandstones of this zone.)
- 2680-3110 "C" - Zone: Predominately shale (varicolored) brown to dark gray to gray and rarely greenish gray, locally silty and sparsely micromicaceous and slightly calcareous with occasional ostracods, blocky with some interbedded thin siltstones, gray, locally argillaceous and calcareous, locally siliceous (secondary silica), hard, occasionally very fine sandy with a rare thin sandstone, light gray to light brown, fine to very fine, subangular to subrounded, calcareous, locally silty and rarely siliceous (hard), predominately medium hard to occasionally frangible, usually tight with a rare pale yellow fluorescence and light brown stain, an occasional cut (2700') and a rare trace limestone, brown, cryptocrystalline, argillaceous to very argillaceous and occasionally ostracodal (fragmental clastic limestone).
- 3110-3460 "D" - Zone: The upper one third is primarily shale (oil shale), dark brownish gray to dark brown, very calcareous, locally slightly silty, blocky with stringers sandstone, gray to light gray, very fine silty, calcareous, tight (oilshale leaves a dark bituminous scum in pits while penetrating).

Generalized Lithologic Descriptions
of Pertinent Zones, Cont'd

The middle section of the "D" Zone is predominately shale, brown to greenish gray to dark brown (varicolored), calcareous, locally silty, blocky with minor brownish red to reddish brown shale and occasional minor very fine light gray silty sandstone and sandy to argillaceous siltstone lenses. In the lower most portion of the zone, occasional dense brown limestones and sandy argillaceous siltstones are interbedded with a predominately arenaceous shale section. An occasional thin, light brown and gray calcareous and argillaceous very fine tight sandstone is penetrated with questionable traces light brown stain and a scattered pale yellow fluorescence.

3460 - TD "E"-Zone: The upper two thirds is predominately shale, brownish gray to dark brown gray and dark gray, calcareous, locally silty and micromicaceous (sparcely), blocky to platy, medium hard to soft with traces red brown to brown shale and a rare thin interbed of light gray very fine calcareous silty tight sandstone and a few stringers of calcareous to locally argillaceous gray siltstone with traces tan to light brown argillaceous ostracodal and occasionally oolitic clastic tight limestone (a rare pale yellow fluorescence and a questionable light brown stain is observed in the sandstone; not significant).

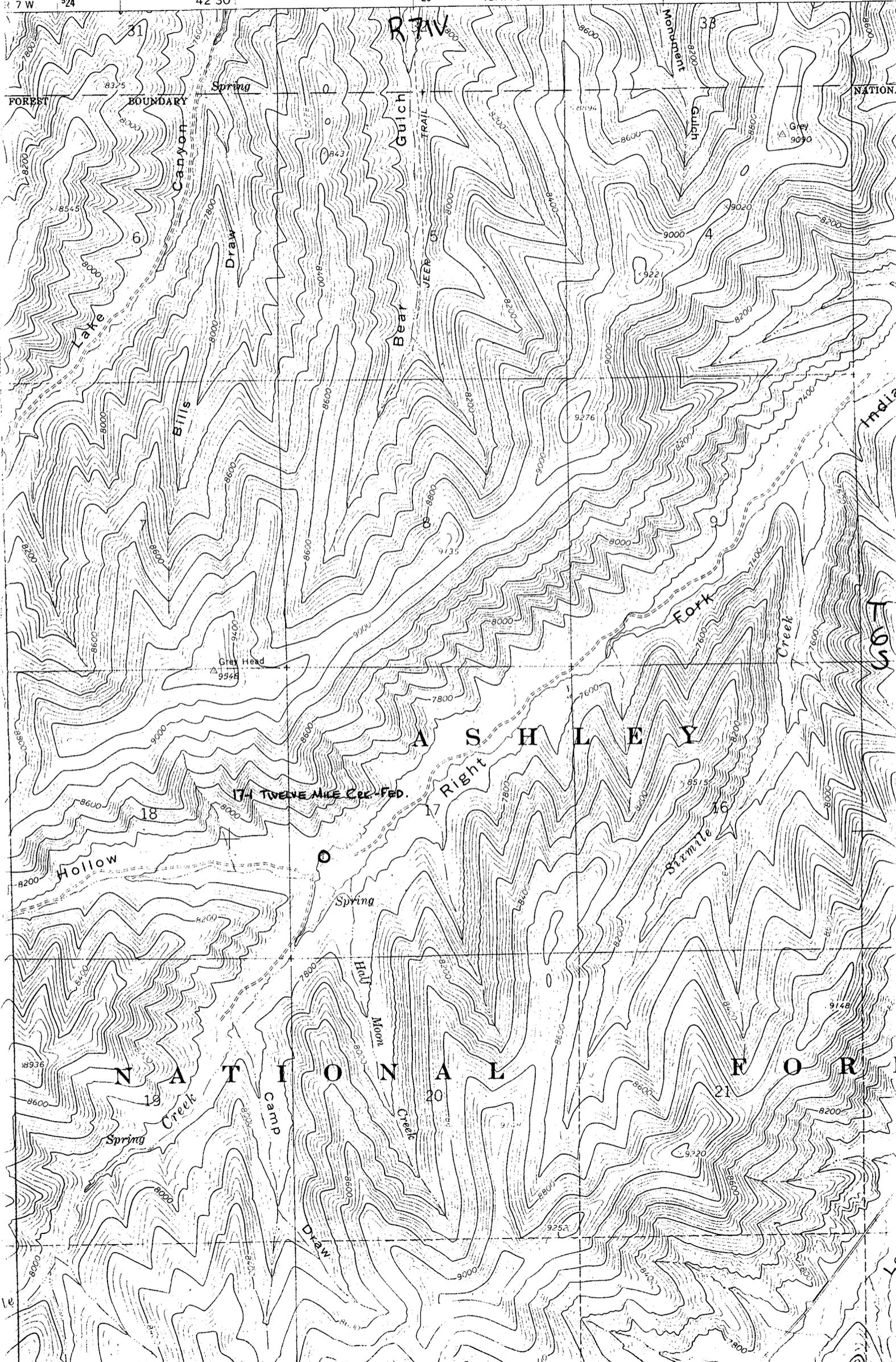
The bottom one third consists of essentially dark brown to brownish black and gray black calcareous to slightly calcareous blocky oil shale (leaves a slight dark bituminous scum in pits while penetrating) with minor varicolored reddish brown to greenish gray to gray locally silty soft shale and traces tan to brown ostracodal (clastic) slightly argillaceous cryptocrystalline limestone and rare traces sandstone and siltstone as above.

SURVEY RECORD

No deviation surveys taken.

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Type</u>	<u>Make</u>	<u>From</u>	<u>Footage</u>	<u>Hours Run</u>
1	12 1/4	M4	Sec.	0	216	9 1/2
2	12 1/4	S86F	Sec.	216	119	9 1/2
3	8 3/4	FP51-J	Reed	335	3670	44 1/2



RTAV

Bear Gulch

TRAIL

JEEP

CR

ASHLEY

NATIONAL FOREST

RIGHT FORK CREEK

MIDDLE CREEK

MOON CREEK

CAMP

DRIVE

SPRING

HOLLOW

LAKE

GRAY HEAD

GRAY

MONUMENT

INDIAN

FOREST

BOUNDARY

CANYON

DRAW

LAKE

BILLS

GRAY HEAD

SPRING

HOLLOW

CREEK

CAMP

DRIVE

SPRING

HOLLOW

LAKE

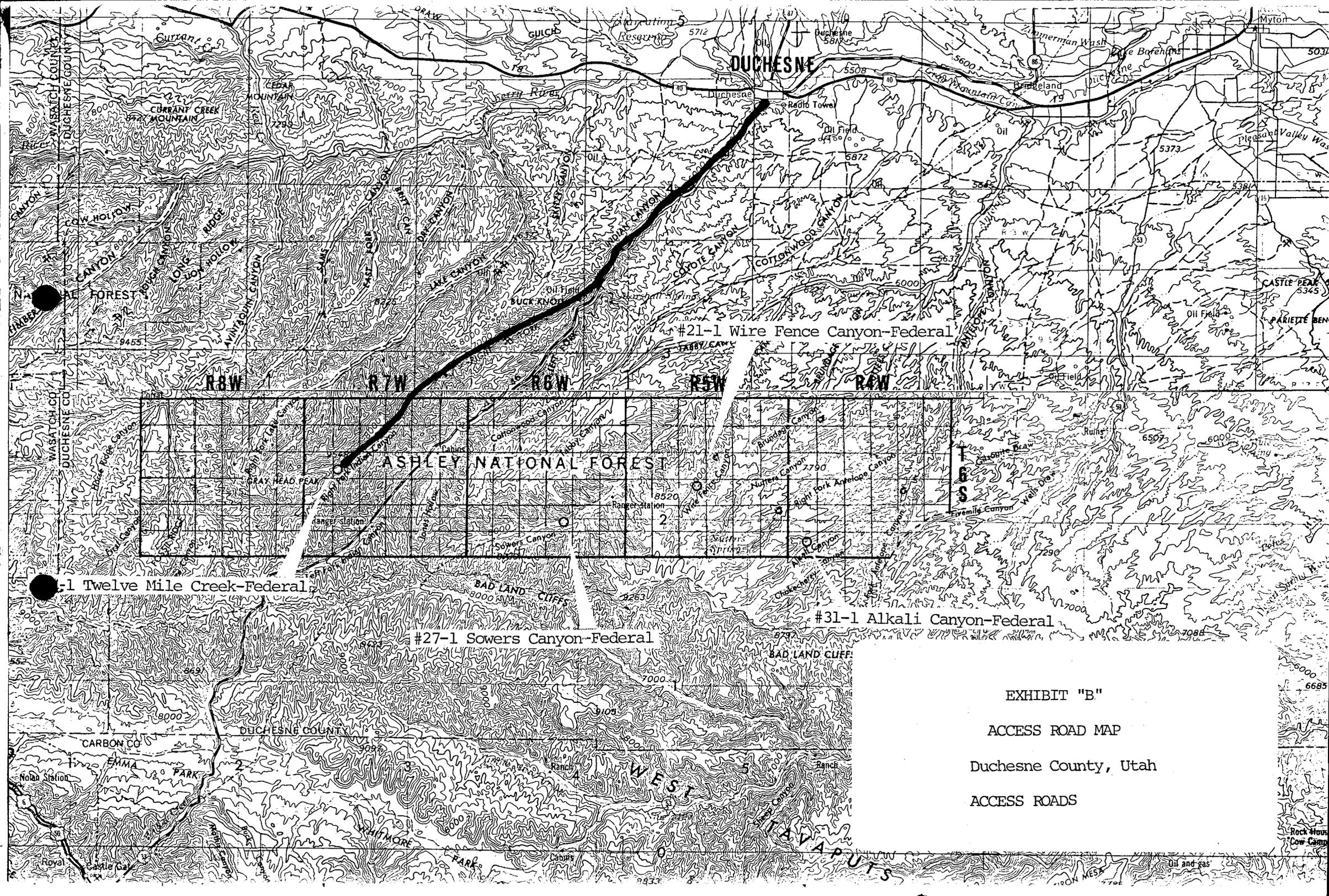
GRAY HEAD

GRAY

MONUMENT

INDIAN

LAKE



DUCHESNE

ASHLEY NATIONAL FOREST



#1 Twelve Mile Creek-Federal

#27-1 Sowers Canyon-Federal

#31-1 Alkali Canyon-Federal

EXHIBIT "B"

ACCESS ROAD MAP

Duchesne County, Utah

ACCESS ROADS

Oil and gas

Proposed Action:

On May 29, 1979, Burton & Hawks, Incorporated filed an Application for Permit to Drill the No. 17-1 exploratory well, a 3800-foot gas test of the Green River and Wasatch Formation; located at an elevation of 7596 ft. in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17, T. 6S., R. 7W. on Federal mineral lands and Public surface; lease No. U-12433. There was no objection raised to the wellsite. As an objection was raised to the access road, it was changed. (See attached map for new 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 Preventor 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 Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the U.S. Forest Service, 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 200 ft. wide by 375 ft. long which includes a reserve pit 50 ft. by 75 ft. A new access road would be constructed 15 ft. wide by 2.6 miles long and an existing road would be upgraded to 15 ft. wide by 1 mile long from a maintained road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is June 1 and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drillsite is approximately 28 mi. southwest of Duchesne, Utah, the nearest town. A fair road runs to the location but is dangerously close to a deep wash in several places and the Forest Service has had surveyed an alternate access route which is likely to be safer. This well is a wildcat well.

Topography:

The location is in a narrow canyon on a relatively flat slope near a ridge rising to the north of the pad.

Geology:

The surface geology is Green River. The soil is a sandy clay with mixed shale and sandstone gravels. 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 will be placed with drilling fluid in the hole to assure protection of any mineral resources.

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 Land Management.

Approximately 6.4 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 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 non-perennial 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".

Winds are medium and gusty, occurring predominately from West to East. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface-Water Hydrology:

The location drains into the right fork of Indian Canyon Creek which flows to Indian Creek, which in turn flows into the Duchesne River. The Duchesne River flows into the Green River.

- The right fork of Indian Canyon Creek is in a deep wash which is quite close to the existing old road in several places and would provide a safety hazard when the road is wet.

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 basic 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. 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:

Sagebrush and native grasses are at the location. Pines and cedars are on the nearby ridges.

Plants in the area are of the salt-desert-shrub types grading to the pinyon juniper association.

Proposed action would remove about 6.4 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 according to the specifications of the U.S. Forest Service.

Wildlife:

The fauna of the area consists predominately of mule deer, elk, coyotes, rabbits, foxes, 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.

No endangered plants or animals are known to inhabit the project area.

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 a 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 or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a 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 pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but 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 not significant in Duchesne County.

But should this well discover a significant new hydrocarbon source, local, state and possible national economics 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 to USGS'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 reserves pits would contain all fluids used during the drilling 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.

Alternative 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 USGS 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 and 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.

(3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- (a) The proposed and surveyed route of a new canyon road is developed for an access road before the drilling rig moves in. This is about 2.6 miles in length according to the map.
- (b) If good weather permits, a rathole rig may be brought in for spudding along the present road, however, it is deemed unsafe for a big rig.
- (c) The blooie pit is reshaped according to the design suggested by the dirt contractor and kept a minimum of 100 feet from the wellsite.
- (d) Cattleguards are upgraded or placed where needed according to agreements between the operator and the USFS or the operator and any private landowners whose land the access route crosses. These cattleguards must be sufficiently heavy duty to allow for drilling rig traffic.
- (e) The reserve pits are fenced according to the Fish and Wildlife Resources Division and USFS specifications.
- (f) A trash cage is to be used instead of a burn pit and all refuse is to be suitably removed from the location at the completion of the drilling activities.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 6.4 acres of land surface for 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

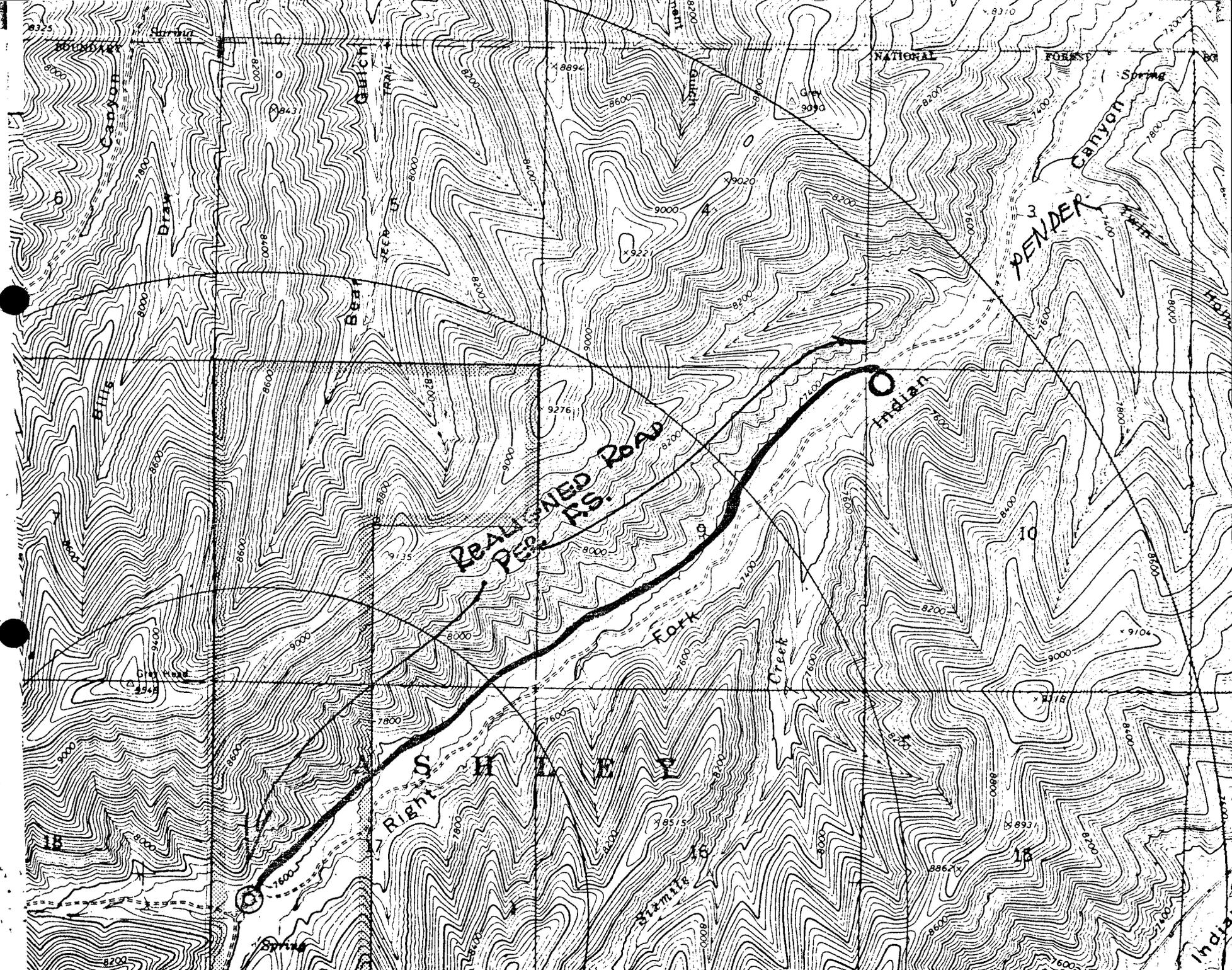
to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface 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 be made. Erosion from the site would eventually be carried as sediment in the Duchesne River. The potential for pollution to Indian Canyon Creek 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).

6/21/79
Date


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



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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-12433

OPERATOR: Burton/Hawks Inc.

WELL NO. No. 17-1 Twelve Mile Cr. Fed.

LOCATION: 1/4 NW 1/4 SW 1/4 sec. 17, T. 6S, R. 7W, USM

Duchesne County, Utah

Stratigraphy: Surface - Middle Parachute Cr. Mbr of Green River Fm.
Operators Stratigraphy is reasonable.

Fresh Water: Based on a WRD report from sec 35, T6S R6W (USM), fresh / usable water may occur as deep as 3300' in the Green River Fm.

Leasable Minerals: In oil shale withdrawal 5327, Cashion's maps do not extend into the area, but oil shales crop out nearby and should also be found to ~2000' in the subsurface.

Additional Logs Needed: Detailed log of cuttings through oil shale zone (near surface). Geophysical logs should be run from TD to surf to adequately identify the oil shale and gas producing zones.

Potential Geologic Hazards: Brinkerhoff #1 Tabby Canyon Unit, sec 15 T6^S R6W reported lost circulation at: 2202, 2050, 3062, 3266, 5401, 6129, 6680'. The same well (Gr. 8880) had severe hole deviation problems below 375'. Also, slight geopressuring may be expected

References and Remarks: In Indian Canyon Unit. Gulf Oil #1, sec 12 6S 6W reported
{ water flow 1700-1800
{ tar sand 3300-3400
{ sand porosity 3955-4005

Signature: J. Paul Matheny

Date: 6-8-79

BURTON/HAWKS, INC.
NIL-6 - PLAN OF OPERATION

DATE: May 17, 1979

WELL NAME: No. 17-1 Twelve Mile Creek-Federal

LOCATION: SW SW Section 17, T6S, R7W
Duchesne County, Utah

#1 Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes).

Exhibit A is a registered land surveyors plat of Section 14 showing the actual footage location of the subject well as measured from the section corners

- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road.

Exhibit B is a 1:250,000 scale map showing the location of the nearest town, Duchesne, Utah. The approximate distance is 28 miles southwest of said city. Access road colored blue on map.

- C. Access road(s) to location color-coded or labeled.

Figure 1 is a topographic map (1"=2000') showing the access road (colored blue) and the new access road (labeled and colored red).

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.)

1. State HGY 33 (Left Fork Indian Canyon): asphalt surface.
2. Right Fork Indian Canyon, dirt surface, unimproved.
3. Left Fork Lake Canyon, dirt surface, unimproved.

- E. If development well, all existing roads within a 1-mile radius of well site.

Not a development well.

- F. Plans for improvement and/or maintenance of existing roads.

No plans for improvement of existing roads unless needed. Maintenance to be performed as required.

#2 Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

See Figure 1 (Topo Map)

#2 - Planned Access Roads (continued)

- (1) Width
12'
- (2) Maximum grades
6%
- (3) Turnouts
As required
- (4) Drainage design

Any new access roads will be sloped to insure proper drainage.

- (5) Location and size of culverts and brief description of any major cuts and fills

As required.

- (6) Surfacing material

Native material.

- (7) Necessary gates, cattleguards, or fence cuts

As required.

- (8) (New or reconstructed roads are to be center-line flagged at time of location staking)

Forest Service staked new access road at time well was staked.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

- (1) Water wells
None Observed
- (2) Abandoned wells
None observed
- (3) Temporarily abandoned wells
None observed
- (4) Disposal wells
None observed
- (5) Drilling wells
None observed

#3 Location of Existing Wells (continued)

(6) Producing wells

None observed

(7) Shut-in wells

None observed

(8) Injection wells

None observed

(9) Monitoring or observation wells for other resources

None observed

#4 Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

(1) Tank Batteries

None

(2) Production facilities

None

(3) Oil gathering lines

None

(4) Gas gathering lines

None

(5) Injection lines (Indicate if any of the above lines are buried)

None

(6) Disposal lines

None

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad

See Exhibit C.

- (2) Dimensions of facilities

Production pad (well pad) 210' x 375'

- (3) Construction methods and materials

Area to be used for production facilities would be leveled with a dozer. Onsite native materials would be utilized.

- (4) Protective measures and devices to protect livestock and wildlife

All pits would be fenced and would be flagged accordingly.

- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

All disturbed areas not needed for operations will be contoured to match existing terrain and seeded with a seed mixture recommended by the U.S.F.S.

#5 Location and Type of Water Supply:

- A. Show location and type of water supply either on map or by written description

Water from a commercial source (Duchesne, Utah) will be used for this drillsite.

- B. State method of transporting water, and show any roads or pipelines needed

Water to be hauled by operators equipment over existing roads. Roads colored green on Figure 1.

- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.)

No water well to be drilled on lease.

#6 Source of Construction Materials:

A. Show information either on map or by written description
Construction materials for proposed drillsite would be native materials from the location.

B. Identify if from Federal or Indian land

Federal surface (Ashley National Forest).

C. Describe where materials, such as sand, gravel, stone, and soil material, are to be obtained and used

In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials would be obtained from permitted gravel pits in the local marketing area.

D. Show any needed access roads crossing Federal or Indian lands under Item 2.

See Figure 1.

#7 Methods of Handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

(1) Cuttings

Air drilled cuttings are blown to the blooie pit. If it becomes necessary to switch to mud drilling, drill cuttings would be contained in the reserve pit.

(2) Drilling fluids

Drilling fluids would be contained in the reserve pit.

(3) Produced fluids (oil, water)

Produced fluids would be directed to a test tank or pit for proper disposal.

(4) Sewage

A portable toilet is on location at all times. Sanitation and the disposal of waste will be accomplished within the framework of the Pollution Statement Act (E.O. 11507).

(5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried)

Trash and other combustibles will be burned in a pit that is covered with small mesh fencing. Other garbage will be enclosed in a fenced trash site to await final cleanup.

#7 Methods of Handling Waste Disposal (continued)

- (6) Statement regarding proper cleanup of well site area when rig moves out

Immediately after the rig and associated drilling and testing equipment is off the location, the entire location will be policed for trash and other sorts of refuse.

#8 Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required, and construction methods. (Camp center and airstrip center lines to be staked on the ground).

No facilities intended for this location.

#9 Well Site Layout:

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills

See Exhibit D.

- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles

See Figure 2.

- (3) Rig orientation, parking areas, and access roads:

See Figure 2.

- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection). A registered surveyor is not mandatory of such operations).

Pits will not be lined.

- (5) The positioning of pump trucks, frac tanks, lines, etc.

See Exhibit E.

#10 Plans for Restoration of Surface:

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring, and waste disposal; segregation of spoils materials as needed

Upon completion of the operation and if the well is to be abandoned, the location will be backfilled, leveled and contoured to as nearly the original topography as is possible. Backfilling of pits and disturbed areas will be performed when pit areas are dry enough to support overburden of fill material. Leveling of pit dikes, will be done when contents are dry enough to handle earth moving equipment. Stockpiled topsoil will be distributed over area to facilitate revegetation. Waste disposal see No. 7 (6).

- (2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations)

This will be accomplished with the desires of the U.S.F.S. and their recommendation.

- (3) Prior to rig release, pits will be fenced and so maintained until cleanup

During drilling operations the reserve pit and blooie pit will be fenced on three sides with the rig side remaining unfenced. This remaining side will be fenced as soon as the rig equipment is moved to allow fencing crews access. This fence will be sheep tight and kept in good repair until clean-up is undertaken.

- (5) Timetable for commencement of rehabilitation operations

Commence clean-up operations as soon as possible after drilling operations are completed so that rehab operations can be performed after pits are dry enough to support top soil fill.

#11 Other Information:

General discription of:

- (1) Topography, soil characteristics, geologic features, flora and fauna:

The surface is Tertiary Green River. The topography is stteep canyons. Location is in the flattest part of the canyon floor. Soil is generally sandy sediments. Flora consists of elk, deer, rabbits and various other rodents. Fauna consists of pine, cedar, sagebrush, creosot brush and range grasses.

- (2) Other surface-use activities and surface ownership of all involved lands

Livestock grazing is the only other surface use activity noted. Surface is forest lands.

- (3) Proximity of water, occupied dwellings, archeological, historical, or cultural sites

- A. Water - Intermittant small streams in the area.
- B. Occupied Dwellings - None noted.
- C. Archeological sites - See attached Archeological clearance
- D. Historical/Culteral sites - None noted.

#12 Lessee's or Operator's Representative:

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

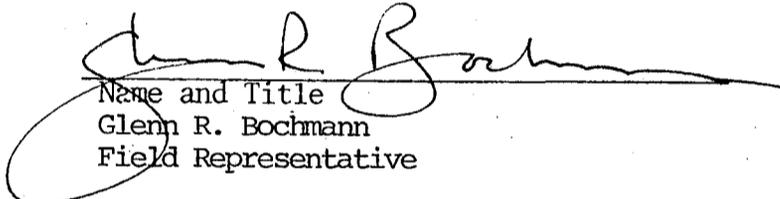
Burton/Hawks, Inc.
P. O. Box 359
Casper, Wyoming 82602

	<u>Office</u>	<u>Home</u>	<u>Mobile</u>
Robert E. Wellborn	(303) 234-1593	265-8282	----
Rance Denton	(303) 234-1593	266-0923	265-4506
Glenn R. Bochmann	(303) 234-1593	237-7038	----

#13 Certificates:

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and 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 BURTON/HAWKS, INC. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Name and Title
Glenn R. Bochmann
Field Representative

May 18, 1979
Date

10-POINT PROGRAM

BURTON/HAWKS, INC.

Attachment to Form 9-331-C "Application to Drill, Deepen, or Plug Back".

No. 17-1 Twelve Mile Creek-Federal
SWSW Section 17, T6S, R7W
Duchesne County, Utah

1. GEOLOGIC NAME OF SURFACE FORMATION:

Tertiary Green River

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Tertiary Green River A-Zone - 1490'
B-Zone - 2040'
C-Zone - 2500'
Wire Fence Zone - 2750'*
D-Zone - 2900'
E-Zone - 3250'
Tertiary Wasatch - 3780'*
Total Depth - 3800'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR OTHER MINERALS:

No high water bearing zones are expected. The formations marked with asterisk (No. 2 above) are potential productive formations.

4. CASING PROGRAM:

- A. Conductor Pipe - 30' 13-3/8", 48# cement to surface
- B. Surface Casing - 300' 9-5/8", 36# K-55 ST&C, cement to surface
- C. Production Casing - 3800' 7", 20# K-55, ST&C cement with 200 sx ±

5. BOP PROGRAM (See Attached Figure 3):

- A. 10" - 900 Series Rotating Head
- B. 10" - 900 Series Cameron Space-Saver Double-Gate
 - 1. Pipe Rams
 - 2. Blind Rams
- C. Choke System, Kill lines. BOP's and choke manifold will be installed and pressure tested before drilling out from under surface casing and will then be checked daily as to mechanical operating condition.

6. DRILLING FLUIDS:

Air drilled hole, If a significant flow of water is encountered, soap mist drilling will be utilized.

7. AUXILIARY EQUIPMENT:

- A. Kelly Cock
- B. Drill pipe float
- C. A sub on the floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.

8. TESTING, LOGGING, CORING, AND FRACTURING:

- A. Continuous testing with air drilling.
- B. Run Induction-Gamma Ray Log in air filled hole, and a Temperature Log if warranted. If the hole fills with water, run I-ES with GR-SP Log. Run a Density-GR Log, or a Neutron-Density GR-Log if a Porosity Log is warranted. Depending on the hole conditions, completion string may be run prior to logging, with adequate cased hole logs to follow.
- C. No coring anticipated.
- D. Fracturing or stimulation plans not known at this time. In the event this is needed, Sundry Notice will be filed outlining this program.

9. ABNORMAL PRESSURES OR TEMPERATURES:

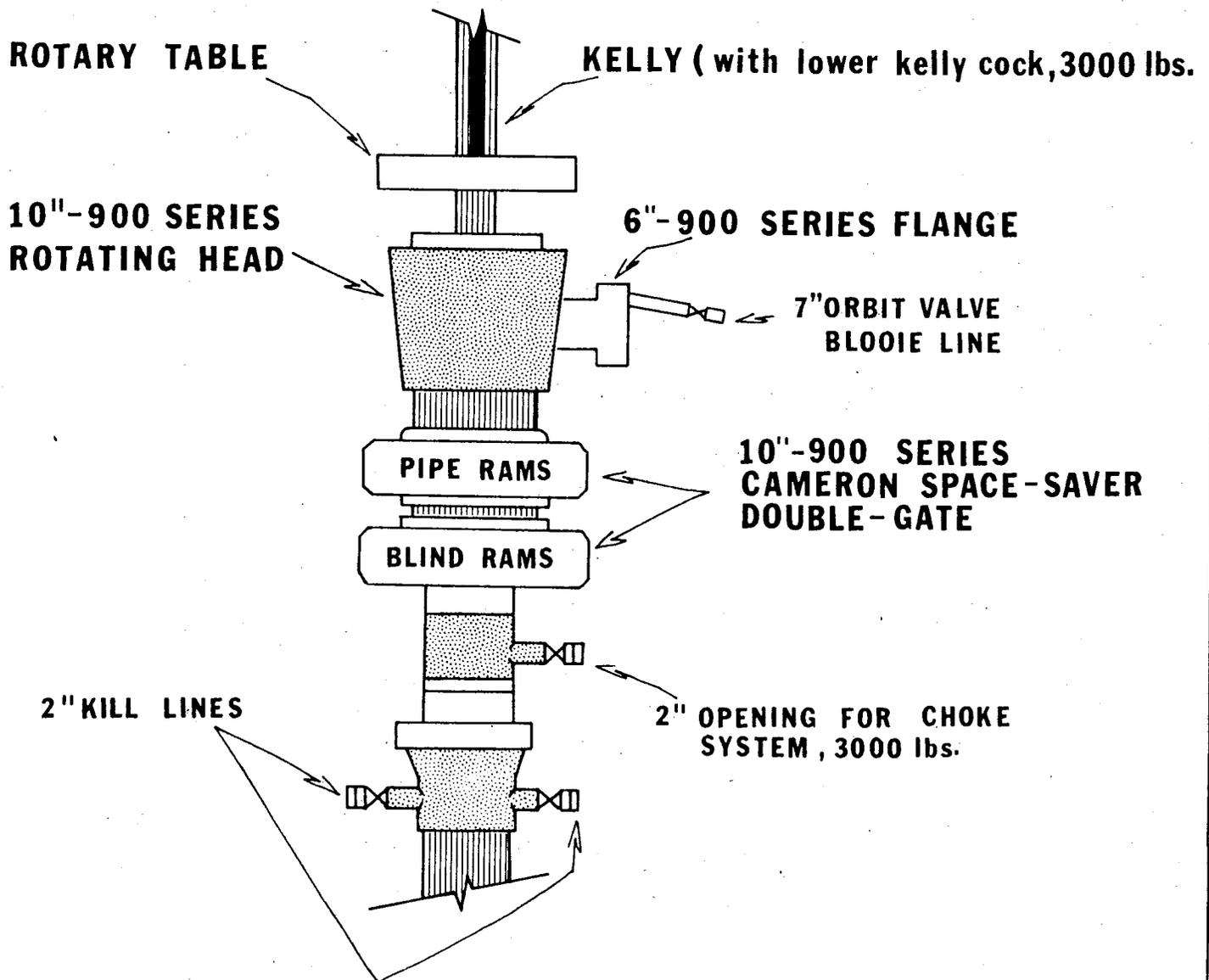
No abnormal pressures or temperatures are known based on information from other wells in the area.

10. STARTING DATE:

June 15, 1979

Burton Hawks Drilling Co.

BOP STACK



rig no. 1

NOT TO SCALE

WELL PROGNOSIS

Gray Head Unit
Burton/Hawks, Inc.
#17-1 Twelvemile Creek
SW SW Sec. 17, T6S, R7W
Duchesne County, Utah

1. Move on spudder to drill conductor hole, and set 30' of 13-3/8", 48# conductor pipe with cement to surface.
2. Move on Burton/Hawks, Inc. , - Husky Drilling Rig #1.
3. Drill 12-1/4" hole to 300' and set 300' of 9-5/8", 36# surface casing with cement to surface.
4. Drill 8-3/4" hole to 3800' total depth with air. If commercial oil or gas production is encountered at a shallower depth, this will constitute total depth.
5. Run Inductin-Gamma Ray Log in air filled hole, and a Temperature Log is warranted. If the hole fills up with water, run an I-ES with Gamma Ray-SP Log. Run a Density GR Log, or a Neutron-Density-GR Log if a porosity log is warranted. Depending on hole conditions, completion string may be run prior to logging, with adequate cased-hole logs to follow.

Projected Formation Tops:

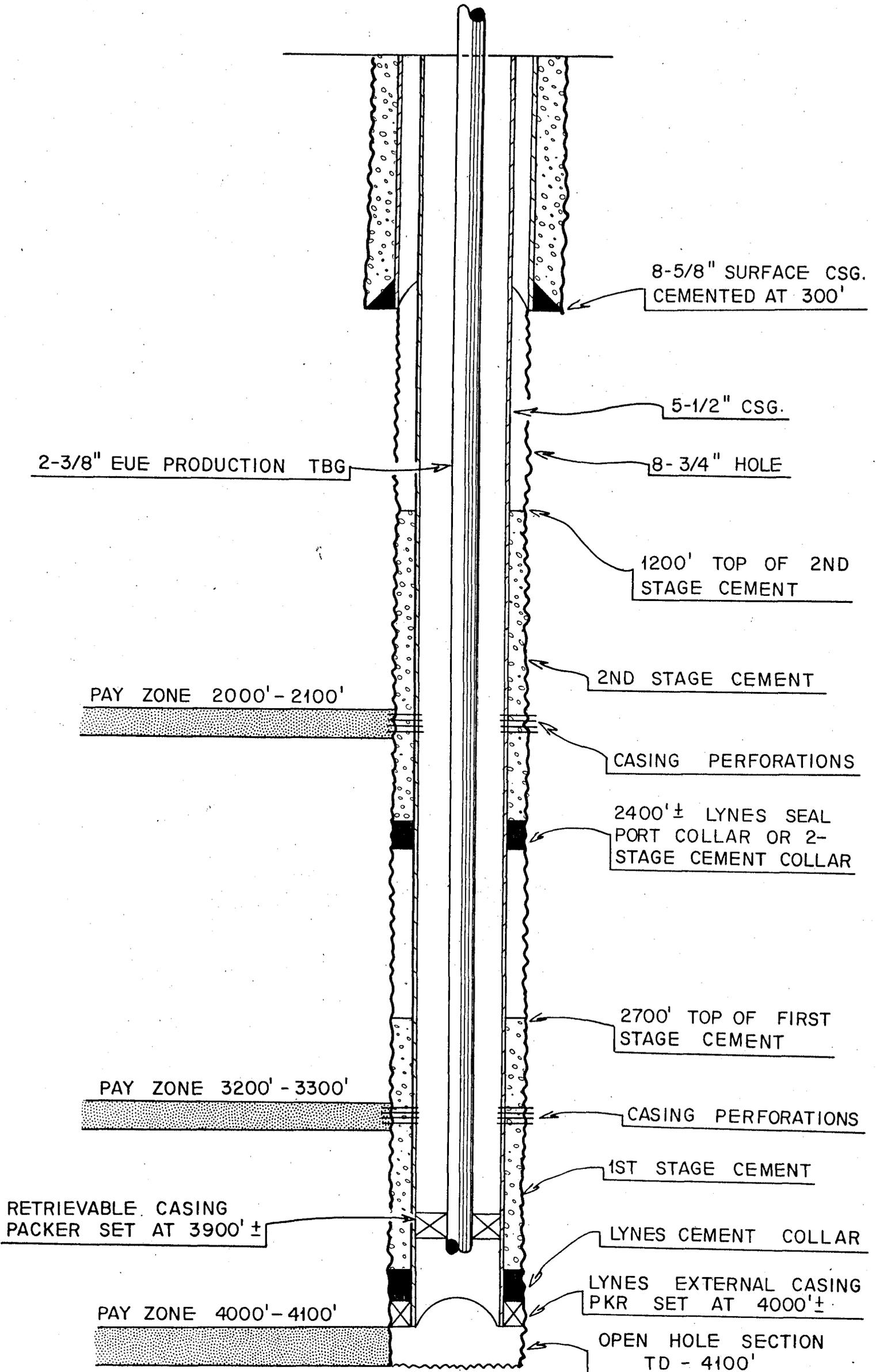
Tertiary Green River Formation	Surface
A-Zone	1490'
B-Zone	2040'
C-Zone	2500'
Wire Fence Zone	2750'
D-Zone	2900'
E-Zone	3250'
Tertiary Wastach Formation	3780'
Total Depth	3800'

Completion:

The attached "Completion Methods" diagram applies to this well. Simple zone completions will be made with the Lynes packer only and there will be no upper perforations.

COMPLETION METHODS

3--- GAS ZONES - DUCHESNE CO., UTAH

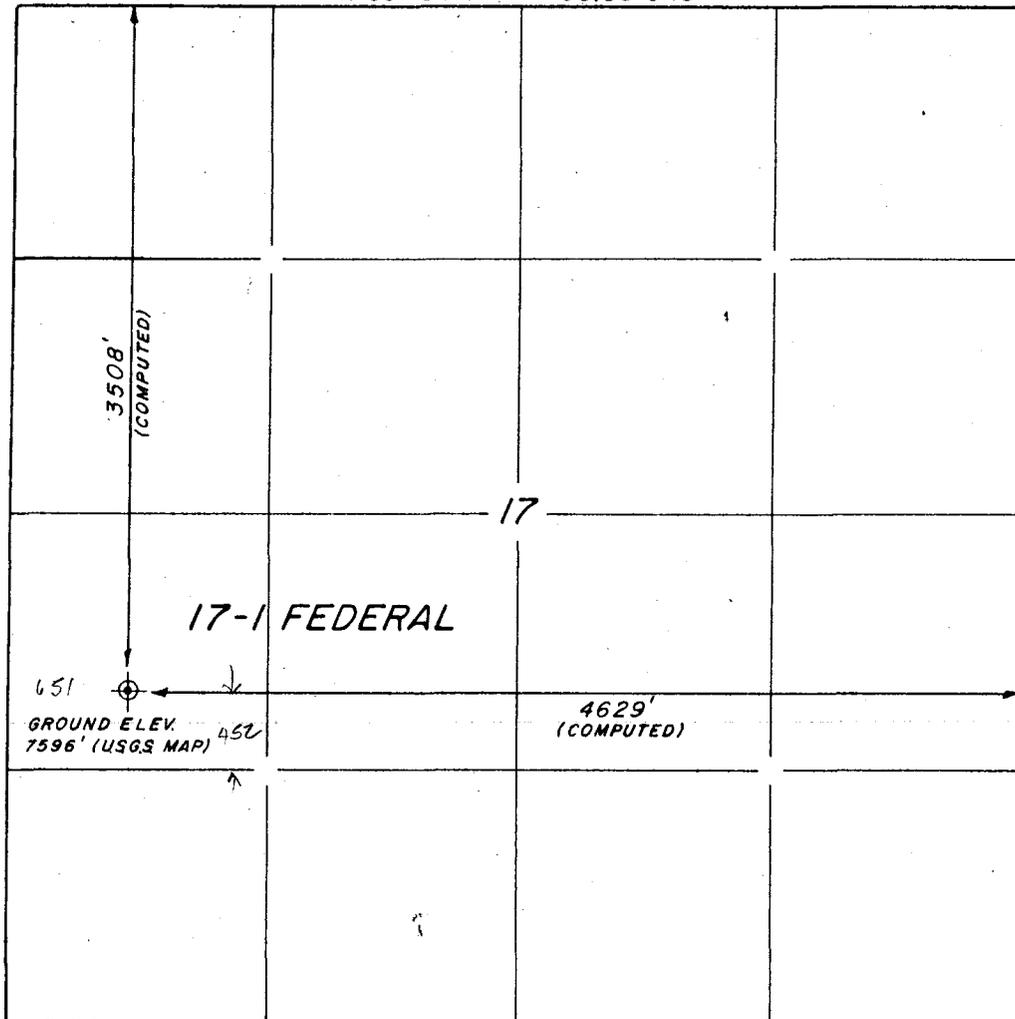


BURTON/HAWES INC.
WELL SITE LOCATION

Located in the NW¼ of the SW¼
of Sec. 17, T6S, R7W, U.S.B.&M.

17-1 TWELVEMILE CREEK FEDERAL

N 89° 54' W 80.36 CHS



SCALE: 1"=1000'

NOTES

THE BASIS OF BEARINGS FOR THIS SURVEY WAS DETERMINED BY SOLAR OBSERVATIONS. ORIGINAL GENERAL LAND OFFICE NOTES AND PLATS WERE USED AS REFERENCES AND FOR CALCULATIONS.

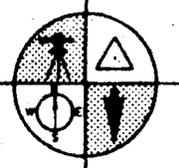
SURVEYOR'S CERTIFICATE

I hereby certify that this plat was prepared from field notes of an actual survey performed under my direct supervision.

Jerry D. Allred
Jerry D. Allred, Registered Land Surveyor, Cert. No. 3817 (Utah)

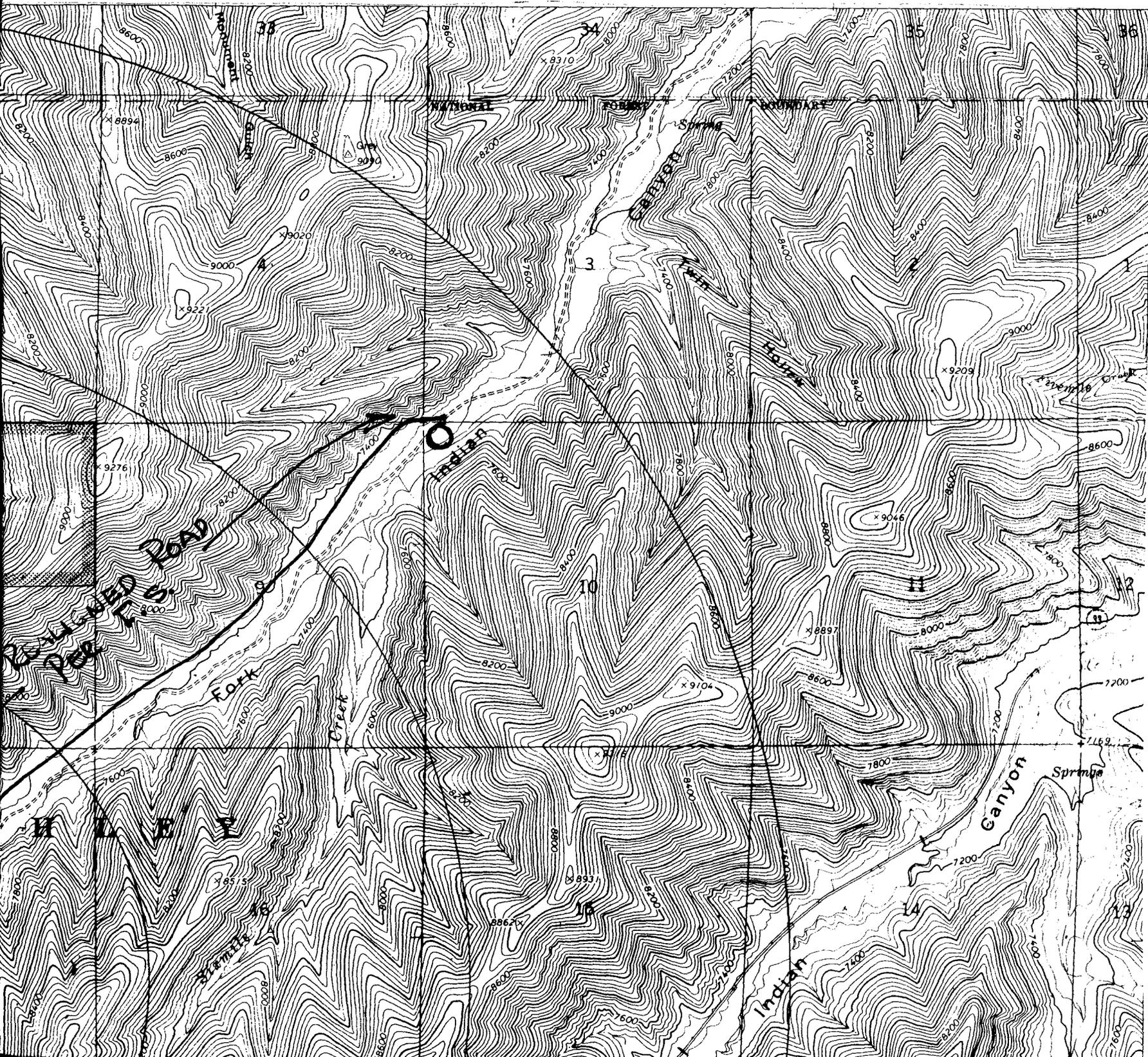
76-123-014

17 May '79

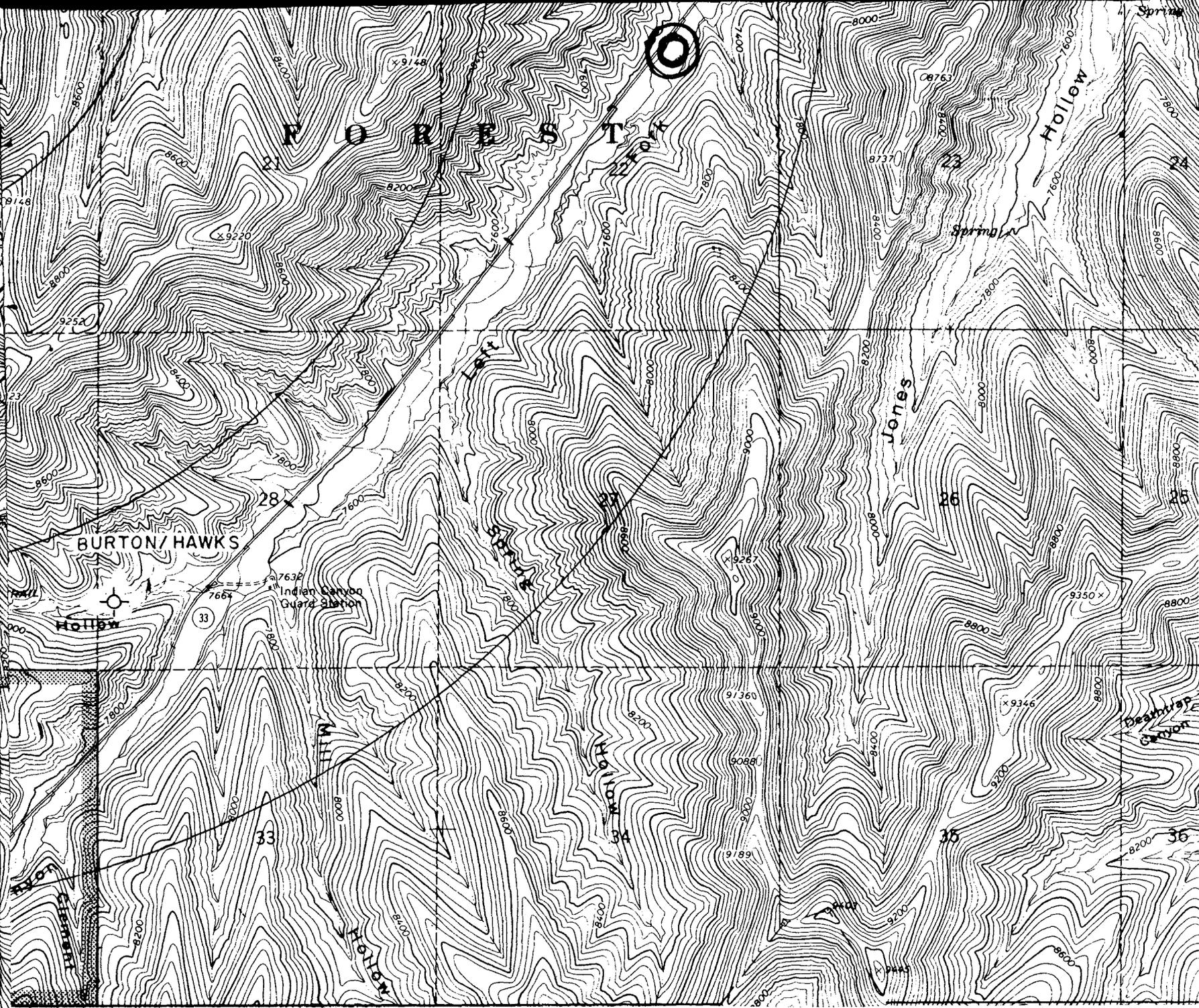


ALLRED - PEATROSS ASSOCIATES
Surveying & Engineering Consultants
P. O. Drawer C
DUCHESSNE, UTAH 84021
(801) 738-5352

R 7 W

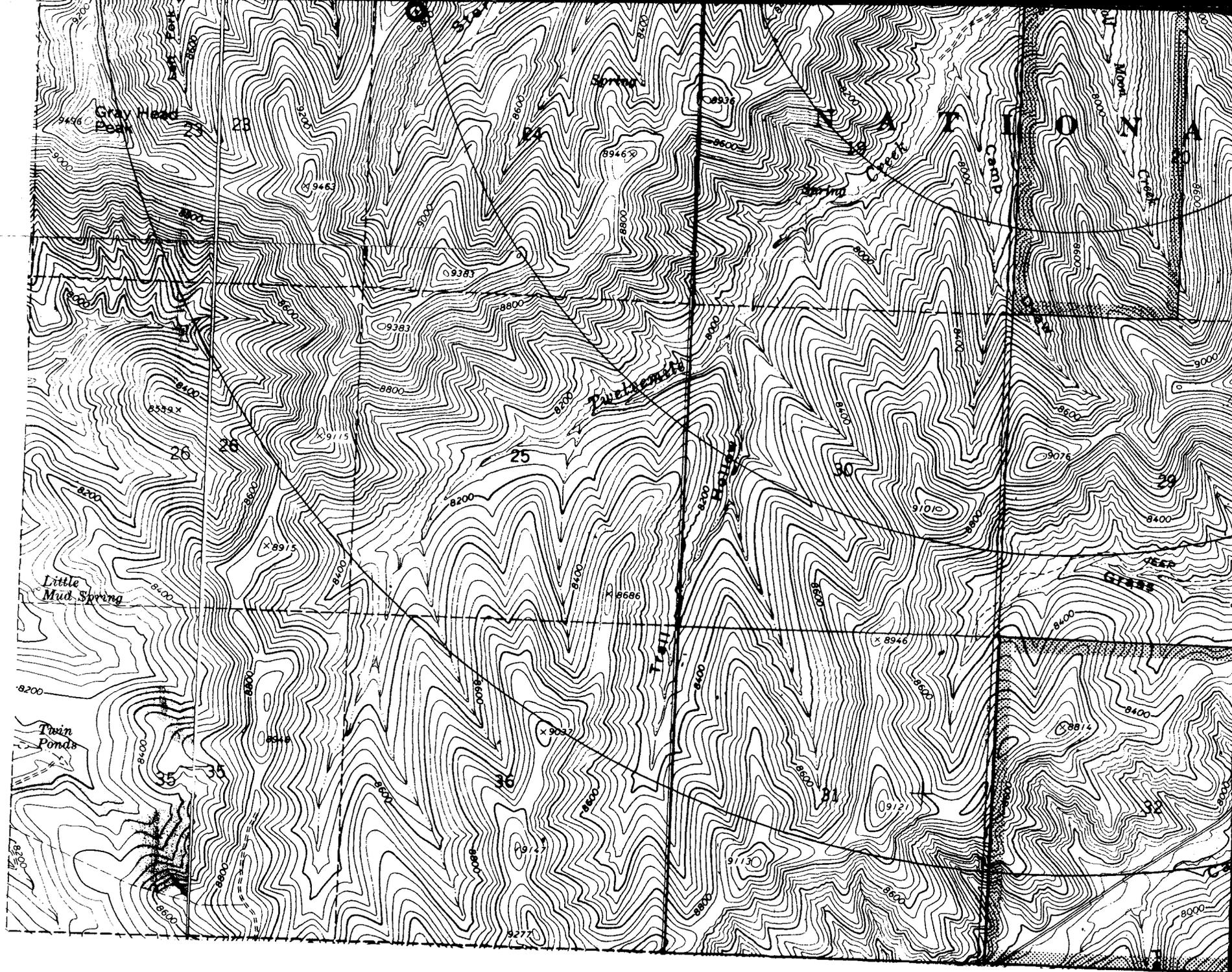


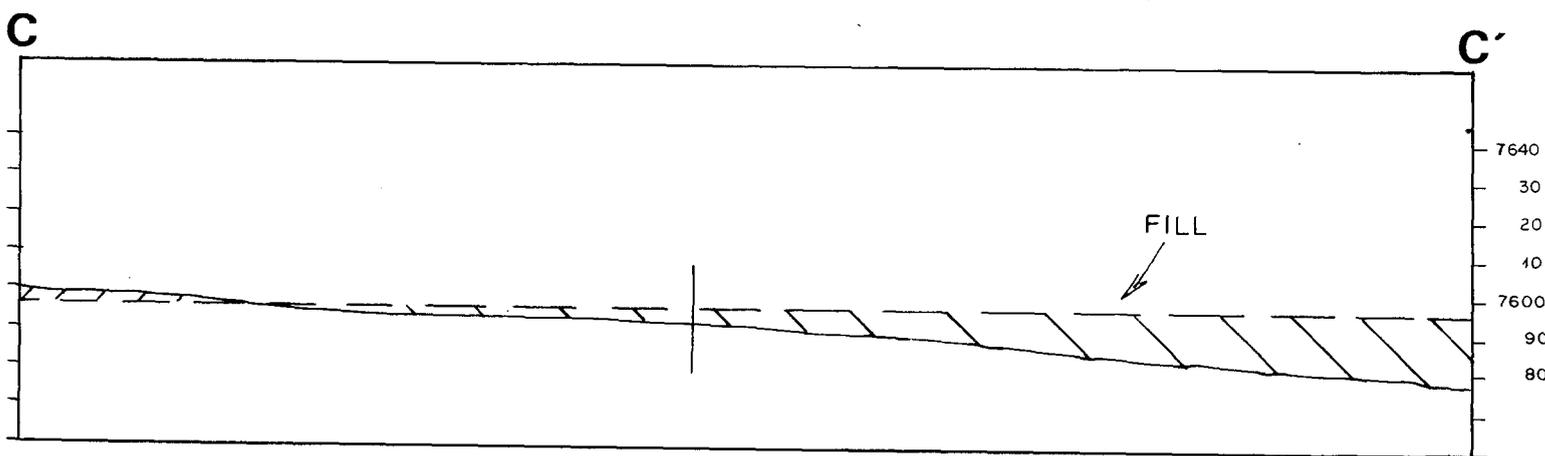
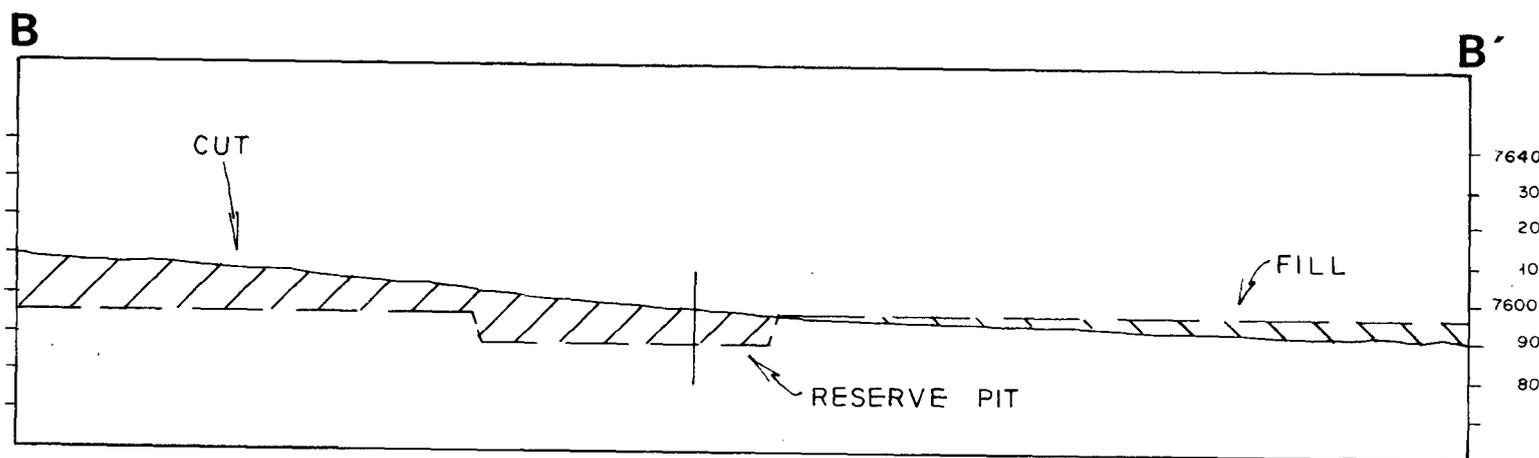
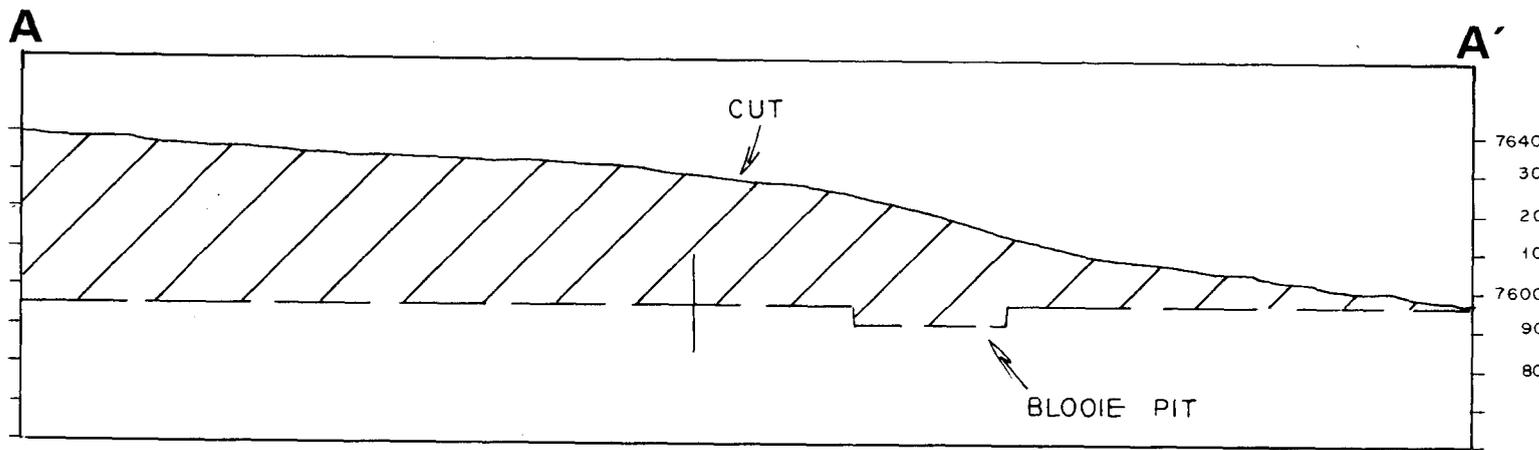
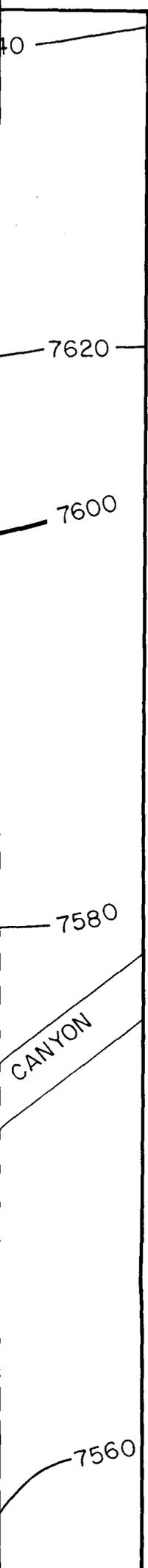
T 6 S



TOPOGRAPHIC MAP
FIGURE 1
DUCHESNE COUNTY, UTAH

BURTON/HAWKS, INC.
No. 17-1 Twelve Mile Creek-Fed.







BURTON/HAWKS, INC.

EXHIBIT-D

BURTON/HAWKS, INC.
No. 17-1 Twelve Mile Creek-Federal
NW SW Sec. 17, 6S-7W

Interpretation by:	Contour Interval: 20'
Date: MAY, 1979	Map Scale: 1" = 50 H&V

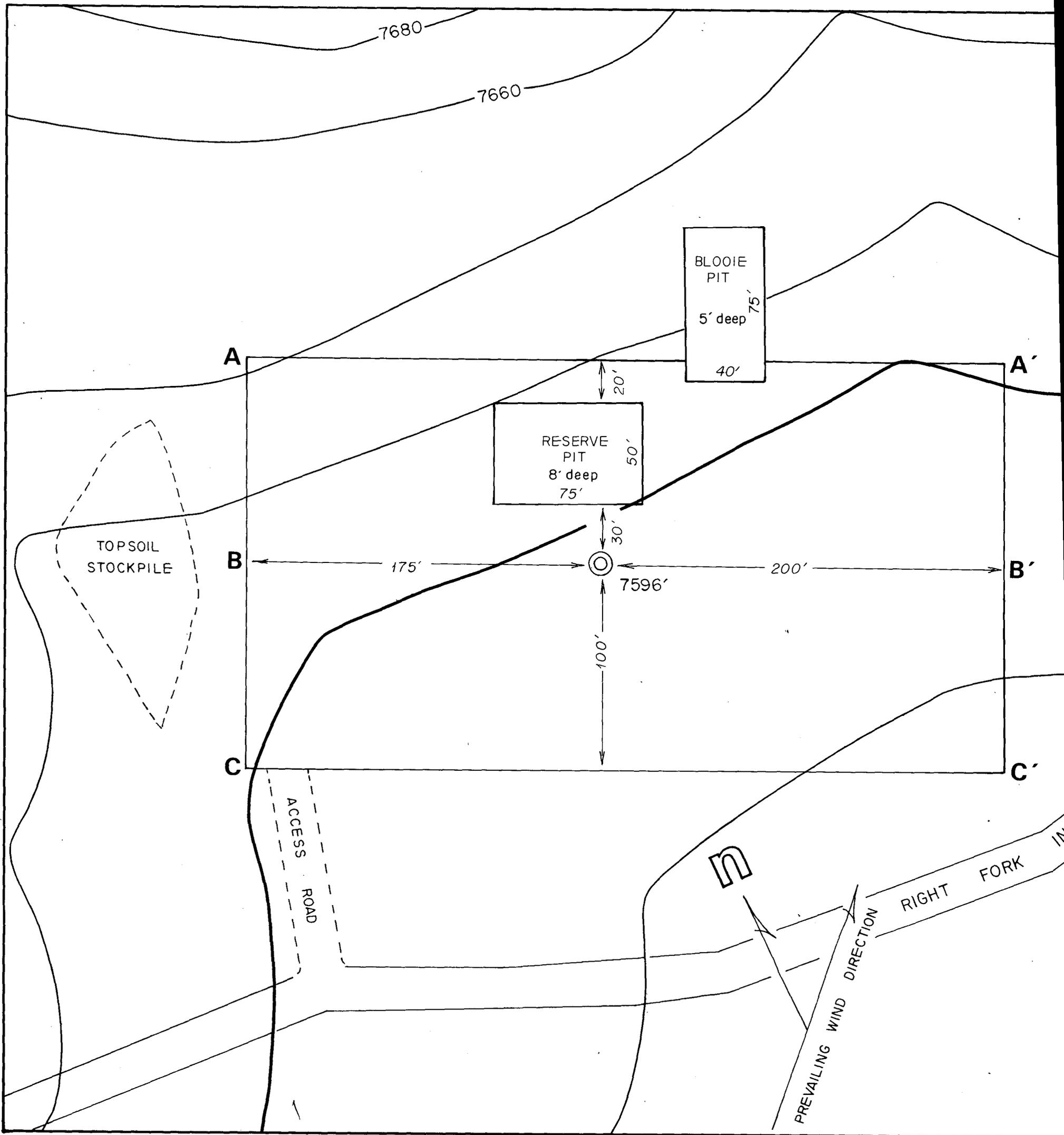
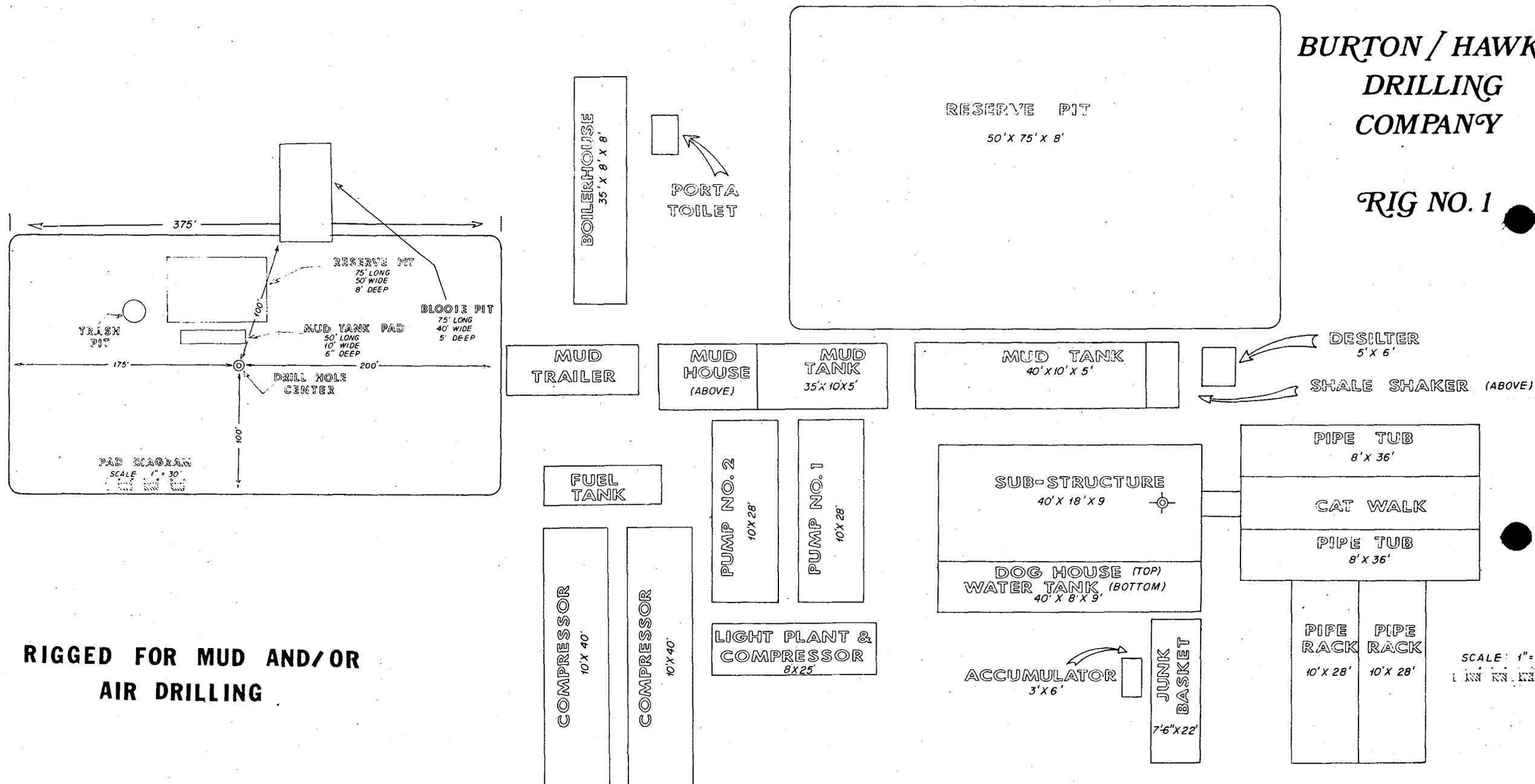


FIGURE 2

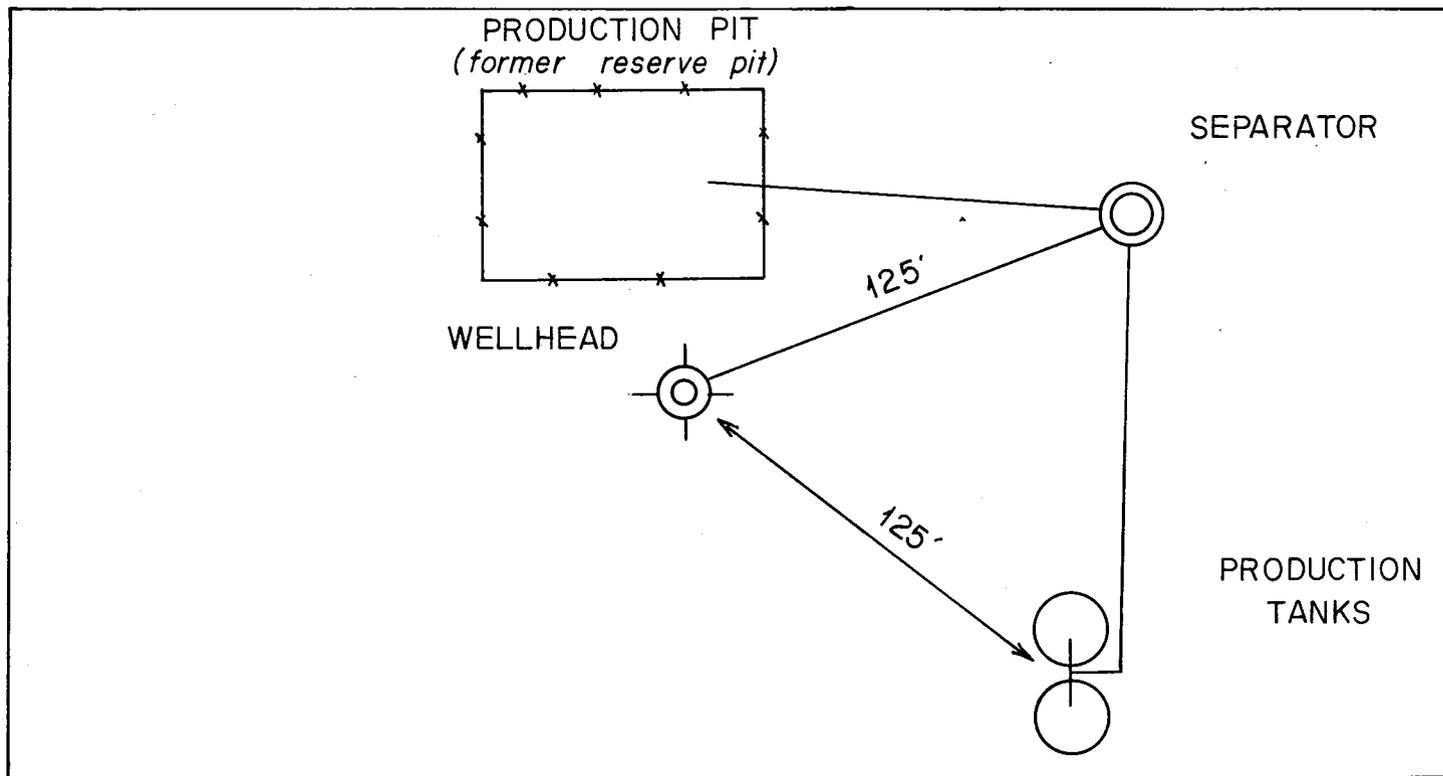
BURTON / HAWKS
DRILLING
COMPANY

RIG NO. 1



RIGGED FOR MUD AND/OR
AIR DRILLING

SCALE: 1" = 6'



PRODUCTION FACILITIES

EXHIBIT - C

BURTON/HAWKS, INC.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

RECEIVED
APR 5 1979
BURTON/HAWKS

Asbury National Forest
Duchesne, Utah 84021
April 2, 1979

2820 Burton/Hawke, Inc.
Sowers Cyn. Fed.#27-1
Twelve Mile Creek Fed.#17-1



Mr. Ed Guynn, District Engineer
U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Dear Mr. Guynn:

We have reviewed Burton/Hawks, Inc.'s proposed drilling locations and would like to note the items that may be effected.

No known archaeological or historical sites have been identified.

1. Our forest archaeologist does not have time to do the required cultural surveys. We request that Burton/Hawks furnish an approved archaeologist to survey the locations and access roads after staking. We have attached a current list of approved archaeologists.
2. Sowers Canyon Fed.#27-1 is located near Utah Power and Light high voltage transmission lines. We request that a safe distance be maintained between drill rig and lines. The Sowers Canyon roadbed may have to be cut down where the transmission lines pass over to maintain a safe underpass.
3. Sowers Canyon Fed.#27-1 is located near Sowers Canyon Creek. We request this site be located northwest of the proposed site, across the road in the mouth of the side canyon drainage. This would provide a greater buffer area between the creek and the reserve pits.
4. Twelve Mile Creek Fed.#17-1 is located near an extremely deep gully. We request this site be located as near the existing road as possible. We prefer the location be moved to the northwest.
5. Twelve Mile Creek Fed.#17-1 is located in the wintering area of the elk herd. The elk use this area until the first part of June. We request that drilling or pad construction be performed after June 1, 1979, and completed by November 1, 1979.

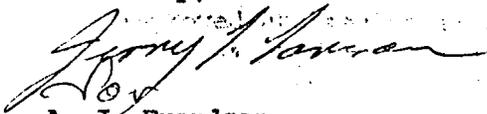
6. If drilling operations take place during the grazing season, we request that cattleguards be installed at fence crossings. The cattleguards should be the H-20 type with built-in cleanouts. We will provide detailed specifications during the review of the operating plan.

7. Access to Sowers Canyon Fed.#27-1 requires crossing private land. We have no right-of-way agreement to cross these inholdings. We suggest an approved agreement between Burton/Hawks and the private landowners be submitted with the operating plan. This agreement should include access for exploratory drilling, partial and/or total restoration and operation-maintenance requirements. The private lands are owned by W. C. Foy Sons, Inc. and Melvir J. Abbott

Other than the items mentioned above, we have no objection to the surveying and staking of the proposed locations and access roads.

Thank you for this opportunity to review the proposed locations. We look forward to reviewing the surface use and operating plans.

Sincerely,



A. J. Frandsen
District Forest Ranger

Enclosure

cc: Burton/Hawks, Inc. w.o./enc.

8. Sowers Canyon Fed.#27-1 is located near the Sowers Canyon. We request this site be located near the Sowers Canyon.

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 359, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface NW $\frac{1}{4}$ SW $\frac{1}{4}$ (3508' FNL/4629' FEL)
At top prod. interval reported below
At total depth



5. LEASE DESIGNATION AND SERIAL NO.

U-12433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Gray Head Unit

8. FARM OR LEASE NAME

9. WELL NO.

#17-1 Twelve Mile Ck-Fed.

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 17, T6S, R7W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

7-25-79

8-14-79

14. PERMIT NO. 30445

DATE ISSUED

7596 GR, 7607 KB

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

4005'

XX

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

N/A

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

DIL-SP; FDC-CNL-GR

NO

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.30#	335'	12 $\frac{1}{4}$ "	186 sx Glass G	---

29. LINER RECORD 30. TUBING RECORD

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

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

DIL-SP; FDC-CNL-GR; DRILL TIME LOG, GEOLOGICAL REPORT, DAILY DRILLING REPORT, ...

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

SIGNED Robert E. Wellborn TITLE Exploration Manager DATE August 30, 1979

*(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.
NONE			

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP
Green River Fm.		Surface to Total Depth

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

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-12433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Gray Head Unit

8. FARM OR LEASE NAME

9. WELL NO.

#17-1 Twelve Mile Ck - Fed

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 17, T6S, R7W

12. COUNTY OR PARISH 13. STATE

Duchesne Utah

1. OIL WELL GAS WELL OTHER Dry Hole

2. NAME OF OPERATOR
Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 359, Casper, WY 82602

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

NW $\frac{1}{4}$ SW $\frac{1}{4}$ (3508' FNL/4629' FEL)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

7596' GR

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

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)

(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.)*

7-25-79 Spudded well. Set 30' of 13 3/8" conductor pipe.
 8-10-79 Moved on Burton/Hawks Rig #1
 8-12-79 Drilled 12 1/2" hole to 335'. Ran 335' of 9-5/8" surface casing and cemented with 186 sacks to surface.
 8-13-79 Drilled out 8-3/4" hole with air.
 8-14-79 Reached T.D. of 4005' at base of Green River fm. No significant shows of hydrocarbons or water zones encountered while air drilling.
 8-15-79 Ran Schlumberger DIL-SP and FDC-CNL-GR to T.D.
 8-16-79 Plugged well with the following plugs:
 3875-3675' 73 sx
 2300-2100' 73 sx
 250- 600' 130 sx
 Surface 10 sx

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

SIGNED Robert E. Wellborn
Robert E. Wellborn

TITLE Exploration Manager

DATE August 30, 1979

(This space for Federal or State office use)

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

FILE IN QUADRUPLICATE
FORM OGC-8-X

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



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: #17-1 Twelve Mile Creek - Fed.

Operator: Burton/Hawks, Inc Address: Box 359, Casper, WY 82602

Contractor: Burton/Hawks Drilling Co. Address: Box 359, Casper, WY 82602

Location NW 1/4 SW 1/4; Sec. 17 T. 6 S N, R. 7 W E; Duchesne County.

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>	
	<u>From-</u>	<u>To-</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	<u>610</u>	<u>620?</u>	<u>small amount of water while air drilling</u>	<u>?</u>
2.				
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops: Green River fm. surface to T.D.

Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) ~~Report~~ 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 analysis has been made of the above reported zone, please forward a copy along with this form.



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

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

June 11, 1979

CLEON B. FEIGHT
Director

CHARLES R. HENDERSON
Chairman

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

BURTON/HAWKS INC
P O BOX 359
CASPER WY 82602

Re: Well No. Sowers Canyon Federal 27-1, Sec. 27, T. 6S, R. 6W, Duchesne Ct., UT
Well No. Wire Fence Canyon 21-1, Sec. 21, T. 6S, R. 5W, Duchesne County, UT
Well No. Twelve Mile Creek Fed. 17-1, Sec. 17, T. 6S, R. 7W, Duchesne Ct., UT
Well No. Alkali Canyon Fed. 31-1, Sec. 31, T. 6S, R. 7W, Duchesne County, UT

Gentlemen:

The State of Utah, General Rules and Regulations, and Rules of Practice and Procedure, amended March 22, 1978, Rule C-3, "General Well Spacing Requirements" reads as follows:

(a) The spacing of wells in pools for which drilling units have been established shall be governed by special rules for that particular pool.

(b) All wells drilled for oil and/or gas which are not within an area covered by a special area spacing rule or which are not within a pool for which drilling units have been established, shall be located not less than 500 feet from any property or lease line or from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location and not less than 1000 feet from any oil well, or 4960 feet from any gas well, unless otherwise specifically permitted by order of the Commission after notice and hearing, unless an exception is granted by the Commission pursuant to Rule C-3(c).

(c) The Commission may grant an exception to the requirements of (b) above as to the situs of a particular well location, without notice and hearing, where an application has been filed in due form and;

(1) The necessity for an unorthodox location is based on topographical, and/or geological conditions, and;

(2) The ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership of the oil and gas leases under the proposed location, or all owners of oil and gas leases within such radius consent in writing to the proposed location.

(d) Whenever an exception is granted, the Commission may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location.

(e) The spacing requirements of this rule shall not apply in cases where, in the opinion of the Commission, engineering practices have proven otherwise.

Your location appears to be an unorthodox well location and if it cannot be relocated to comply with Rule C-3(b) please submit an application for exception as outlined in Rule C-3(c).

You are also requested to furnish substantial information and data to support your application for an exception location. This may be in the form of a statement as to why this well cannot be located on general spacing and must be placed at the proposed location; it may include charts, maps, letters or other data which will provide this Division sufficient information on which to base a decision.

Yours very truly,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder

Michael T. Minder, Geological Engineer

MTM/lw

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Burton Hawks, Inc.

WELL NAME: #17-1 Twelve Mile cr.

SECTION 17 TOWNSHIP 65 RANGE 7N COUNTY Duchesne

VERBAL APPROVAL GIVEN TO PLUG THE ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 4,025' (Base of Green River)

CASING PROGRAM: 13 7/8" set at 30' FORMATION TOPS: Unknown
4 5/8" set at 335' w/1865x (to surface)

*No permission given to plug.
No notification given by operator*

PLUGS SET AS FOLLOWS: 3875' - 3675' w/735x
2300' - 2100' w/735x
250' - 600' w/1302x
Surface 125x

DATE 9-6-79

SIGNED [Signature]

43-013-30495

RECEIVED

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SEP 17 1992 CONSERVATION DIVISION

DIVISION OF OIL GAS & MINING
INDIVIDUAL WELL RECORD

Sec. 17

T. 6S

R. 7W

SLB. & Mer.

Ref. No. 4

	17		
*			

PUBLIC LAND:

Date July 23, 1979

Land office Utah State Utah

Serial No. 12433 County Duchesne

Lessee Husky Oil Co. & Et Al Field Wildcat (Gray Head Unit)

Operator Burton/Hawks, Inc. District Salt Lake City

Well No. 17-1 Subdivision NW SW

Location 3508' FNL & 4629' FEL

Drilling approved July 23, 19 79 Well elevation 7596' GR. 7607 KB feet

Drilling commenced July 31, 19 79 Total depth 4005 feet

Drilling ceased August 14, 19 79 Initial production Dry

~~Oral to abandon~~ Aug. 16, 19 79 Gravity A. P. I. _____

SRA
Abandonment approved 8/31, 19 92 Initial R. P. _____

Geologic Formations		Productive Horizons		
Surface	Lowest tested	Name	Depths	Contents

Tertiary Wasatch

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1979							spud	TD 4005 Abd.				

REMARKS Geologic Markers: see well file

casing record: 9 5/8" cc @ 335' w/186 sxs