

Requested Bob Covington
send c-r request
12-6-82
Horn

Rec'd 12-9-82



ES0

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
 Hiko Bell Mining & Oil Company

3. ADDRESS OF OPERATOR
 P.O. Drawer AB, Vernal, Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 408' FWL & 636' FSL
 At proposed prod. zone Section 5, T10S-R17E, S1M *SW SW*
 Duchesne County, Utah 5866 Gr.

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2100'

16. NO. OF ACRES IN LEASE
 1746.1

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300'

19. PROPOSED DEPTH
 5700 *WASATCH*

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR. 5866

22. APPROX. DATE WORK WILL START*
 May 2, 1983

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"	24# new	300'	Circ. to surface
7 7/8"	5 1/2"	15.5# new	5700'	440 sx.

Propose to drill a 5700' Green River test with Rotary tools. KCl water will be used with gel to drill a 7 7/8" hole to 5700 feet and set 5 1/2" casing if commercial production is established.

The sands in the lower Green River Formation will be tested for oil and gas.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 12-9-82
 BY: [Signature]

RECEIVED
 DEC 02 1982

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 blowout preventer program, if any.

24. SIGNED Robert E. Covington TITLE Manager of Exploration DATE Nov. 30, 1982
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

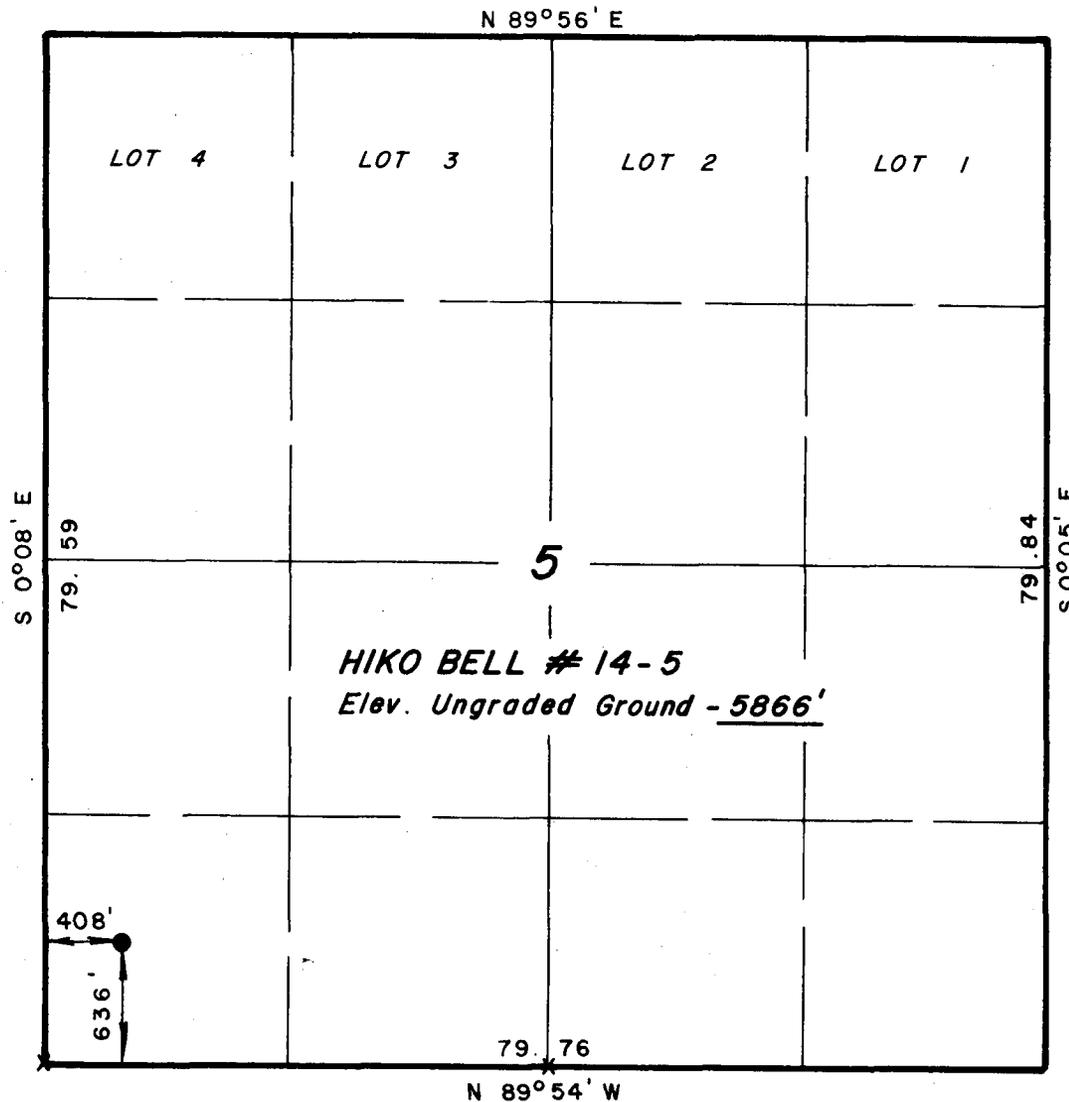
CONDITIONS OF APPROVAL, IF ANY: _____

T 10 S, R 17 E, S.L.B. & M.

PROJECT

HIKO BELL MINING & OIL CO.

Well location, *HIKO BELL #14-5*,
located as shown in the SW1/4 SW1/4
Section 5, T10S, R17E, S.L.B. & M.,
Duchesne 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

Richard J. ...
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

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

SCALE	1" = 1000'	DATE	11/26/82
PARTY	DB, RS, BK, JH	REFERENCES	GLO PLAT
WEATHER	COLD	FILE	HIKO BELL

X = Section Corners Located

HIKO BELL MINING & OIL COMPANY

WHITE MULE SPRINGS OIL

AND GAS FIELD

14-5

SEC. 5 , T10S-R17E, S.L.M

DUCHESNE COUNTY, UTAH

DRILLING PLAN

1. The geologic name of the surface formation is the Tertiary Uinta Formation.
2. Estimated tops of important geologic markers are as follows:

Green River Formation	1090
Wasatch Tongue	4890
Green River Tongue (carbonate marker)	5297
Wasatch Formation	5490
Proposed T.D.	5700

3. Oil or gas may be encountered in the Green River and Wasatch Formations. No other formations are expected to produce oil, gas, water, or other minerals in measurable quantities.

<u>Size of Hole</u>	<u>Size of Casing & Wt./ft.</u>	<u>Setting Depth</u>	<u>Quantity of Cement</u>
12 $\frac{1}{4}$ "	9 5/8", 24# new	300'	Circ to Surface
7 7/8"	5 $\frac{1}{2}$ ", 15.5# new	5700'	440 sx.

5. Operator's minimum specifications for pressure control equipment is a 10", 3000 psi hydraulic blowout preventer. Blowout preventer will be tested daily. Refer to Diagram "C".
6. Fresh water base drilling mud will be used for the entire drilling operations, utilizing a dispersed mud system to total depth. Mud weight will be controlled by drilling solids. Barite will be used for weighing materials in the event of abnormal pressures being encountered.
7. Auxiliary equipment is as follows:
 1. Kelly Cocks
 2. Bit Floats
 3. A full opening-quick close drill pipe valve is to be located on the derrick floor at all times.

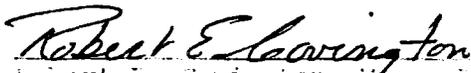
Drilling Plan, Continued
Hiko Bell Mining & Oil Company
White Mule Springs-Hiko Bell Well #14-5
Duchesne County, Utah

Page Two

8. Commercial shows of oil and gas will be tested. We are anticipating drill stem tests in the Wasatch and Green River Formations. No coring is anticipated.

The logging program is as follows:

1. Mud logging unit, from 300' to T.D.
 2. Dual Induction Laterlog-T.D. to base of surface casing.
 3. BHC-Gamma Ray Sonic w/Caliper, Integrated T.D. to base of surface casing.
 4. Formations Density/Compensated Neutron, Zones of interest.
9. No abnormal pressures or temperatures are anticipated. No potential hazards such as hydrogen sulfide are expected, based upon well experience in the area.
10. The anticipated starting date is, May 2, 1983.


Robert E. Covington, Engr. Geologist
Hiko Bell Mining & Oil Company
Vernal, Utah

HIKO BELL MINING & OIL COMPANY

13 Point Surface Use Plan

For

Well Location

White Mule Spring

HIKO BELL #14-5

Located in:

Section 5, T10S-R17E, S.L.M.

Duchesne County, Utah

1. EXISTING ROADS

To reach the Hiko Bell Mining & Oil Company Well location White Mule Springs-Hiko Bell #14-5, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 5, T10S-R17E, S.L.M., Duchesne County, Utah; proceed Southwesterly out of Myton, Utah along U.S. Highway 40 - 1.5 miles to the junction of this Highway and Utah State Highway 53, to the south; proceed Southerly along this Highway 1.5 miles more or less, to the intersection of Utah State Highway 53 and Utah State Highway 216, thence proceed Southeasterly along Utah State Highway 216 - 17.8 miles to the junction of this road and an existing road to the west, proceed along this road 2.5 miles to the location. The location is on the South side of the road approximately 350 feet from the existing road.

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads up to the intersection of Utah State Highway 53 and 216, at which point Utah State Highway is constructed out of existing native materials that are prevalent to the existing area. It is located in the ranges from clay to sandy-clay shale materials, as are the aforementioned dirt oil field service roads and other roads in the vicinity.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase, of the well. These roads will be maintained at the standards required by the B.L.M. or other controlling agencies. The dirt roads mentioned above will be upgraded before use.

2. PLANNED ACCESS ROAD

See Topographic Map "B". There will be a limited amount of road building to the location off of the main road. The location is approximately 1500 feet off the main road.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

There are three existing wells in the vicinity, which were all plugged and abandoned. They are as follows;

Phillips Petroleum Company
Phillips-Ouray No. A-1
NW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 31, T9S-R17E, SLM
Plugged and Abandoned

Mountain Fuel Supply
Wells Draw No. 1
NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 8, T10S-R17E, SLM
Plugged and Abandoned

Mountain Fuel Supply
Wells Draw No. 2
SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 8, T10S-R17E, SLM
Plugged and Abandoned

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Hiko Bell Mining & Oil Company tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a mile radius of this location site. Mountain Fuel has a gas line in the middle of the west half of section six, one mile to the west.

In the event that production is established, plans for a flowline from this location to existing lines in the area will be submitted to the proper authorities and the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards which will be utilized for access to these facilities.

The 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.

These facilities will be constructed using bulldozers, graders, and workmen crews to construct and place the proposed facilities.

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

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used for the drilling and production of this well will be hauled by truck from Pariette Draw, at a point northeast of the well approximately 20 miles. The ELM has set aside an area for drawing water from the stream that is used by most of the operators in the area.

In the event that the above source is not used, other arrangements will be made with the proper authorities for an alternate source.

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

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

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during the construction of the location site and access road. No additional road gravels or pit lining materials 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 soil and sandstone. The same material gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. 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 materials. Prior to the onset of drilling, 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 toilet will be supplied for human waste.

A trash basket will be provided for flammable materials. Waste will be hauled by truck to the nearest sanitary landfill.

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 toxic and would cause contamination to the surrounding area; then the pits will be lined with a gal or any other type of material necessary to make it safe and tight.

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 baskets will be hauled to the nearest sanitary landfill. 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 Items #7 and #8.

11. OTHER INFORMATION

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

The area is a basin that lies between the Book Cliff Mountains to the south and the Uinta Mountains to the North. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial streams and flow to the east and are tributaries to the Green River.

The soils of the semi-arid area are of the Uinta Formation and Browns River Formation (the Fluvial, Sandstone, Mudstone) from the Eocene and Quaternary Epoch (gravel surfaces) and the visible geologic structures consist of light brownish clay (CL) to sandy soils (SC) 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, cacti, and large areas of bare soils devoid of any growth. In 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 mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents. The area is also a hunting ground for the area.

The birds of the area are raptors, finches, ground sparrow, 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").

White Mule Spring-Hiko Bell #14-5 location site sits on a sloping hillside north of a non-perennial drainage which drains into the Sheep Wash and Big Wash. Sheep Wash is located 3 miles east of the location, and Big Wash is located .02 miles north of the location. Big Wash drains into Sheep Wash and Sheep Wash drains into the Green River to the East.

The geologic formation on the location is the Uinta Formation and consist of light brownish-gray clay (SP-CL) with some sandstone outcrops.

11. OTHER INFORMATION -cont...

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).

NAME(S) OF OPERATOR'S REPRESENTATIVE

Robert E. Covington
Manager of Exploration
Hiko Bell Mining & Oil Company
P.O. Drawer 25
Vernal, Utah 84078

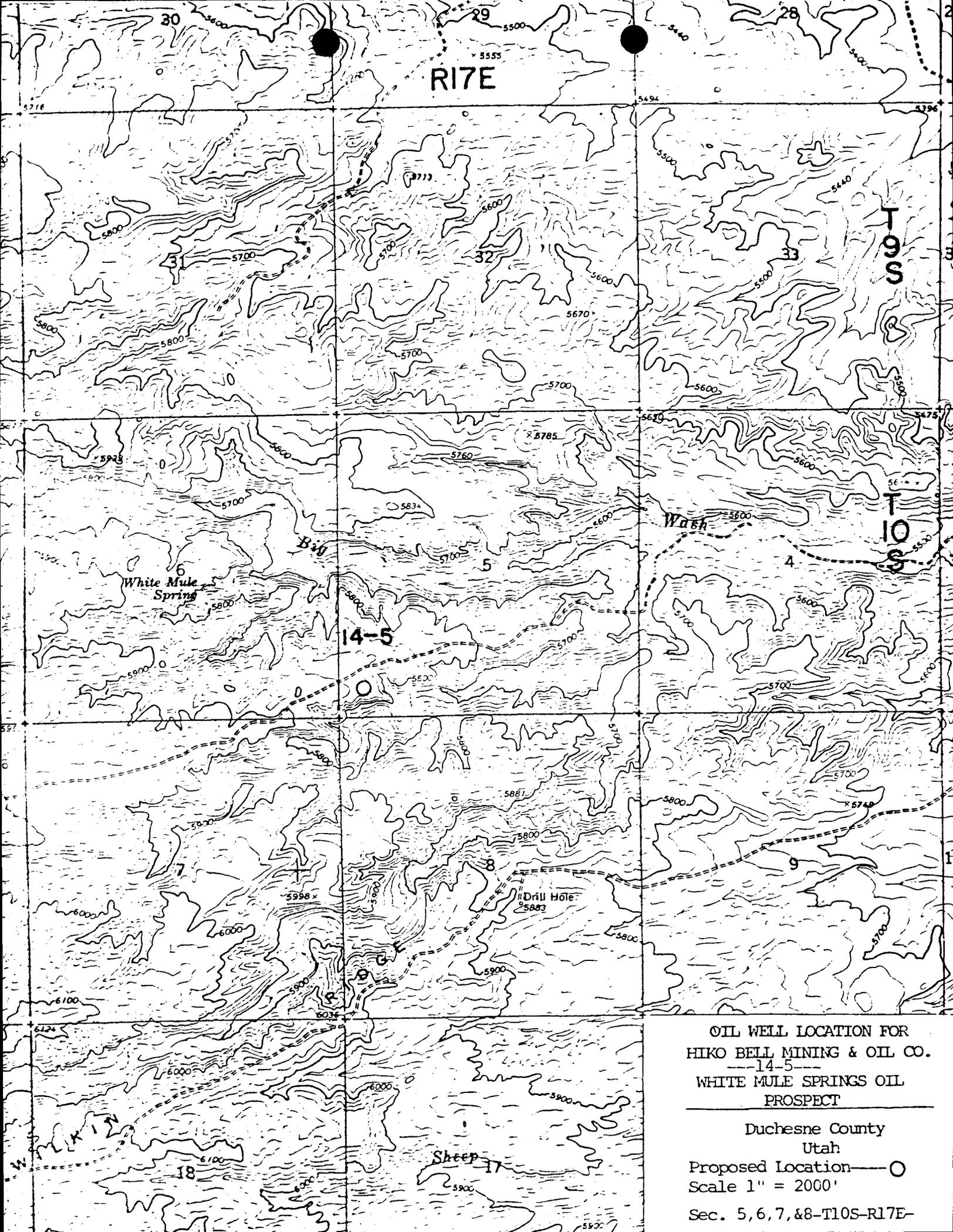
801-789-3233

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access road 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 work associated with the operation proposed herein will be performed by HIKO BELL MINING & OIL COMPANY and its contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

DATE

Robert E. Covington, Mgr. Explor.

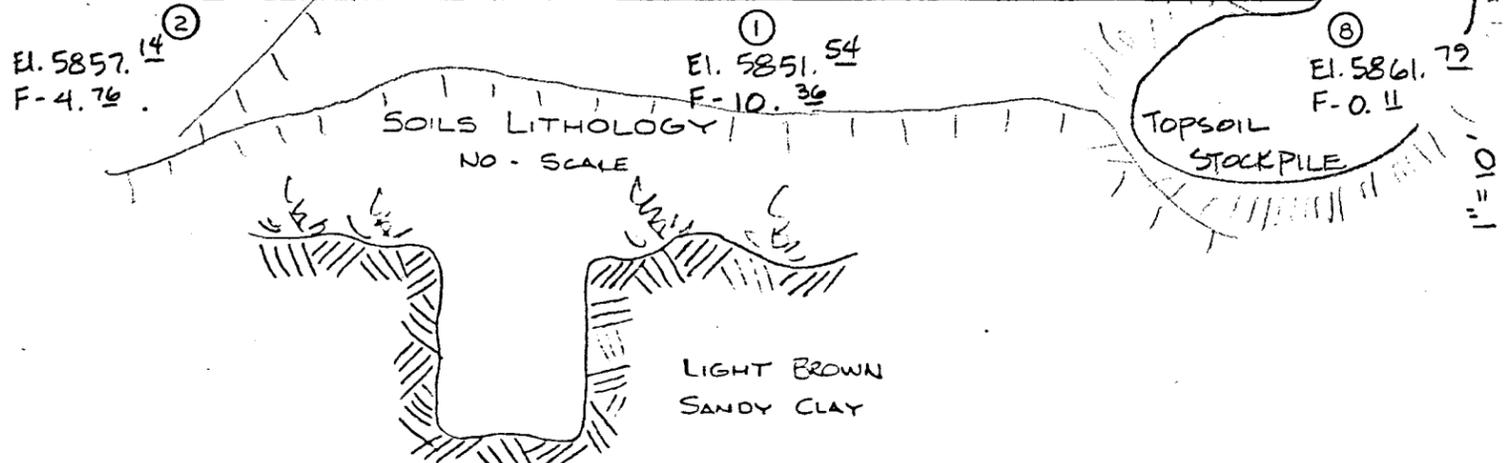
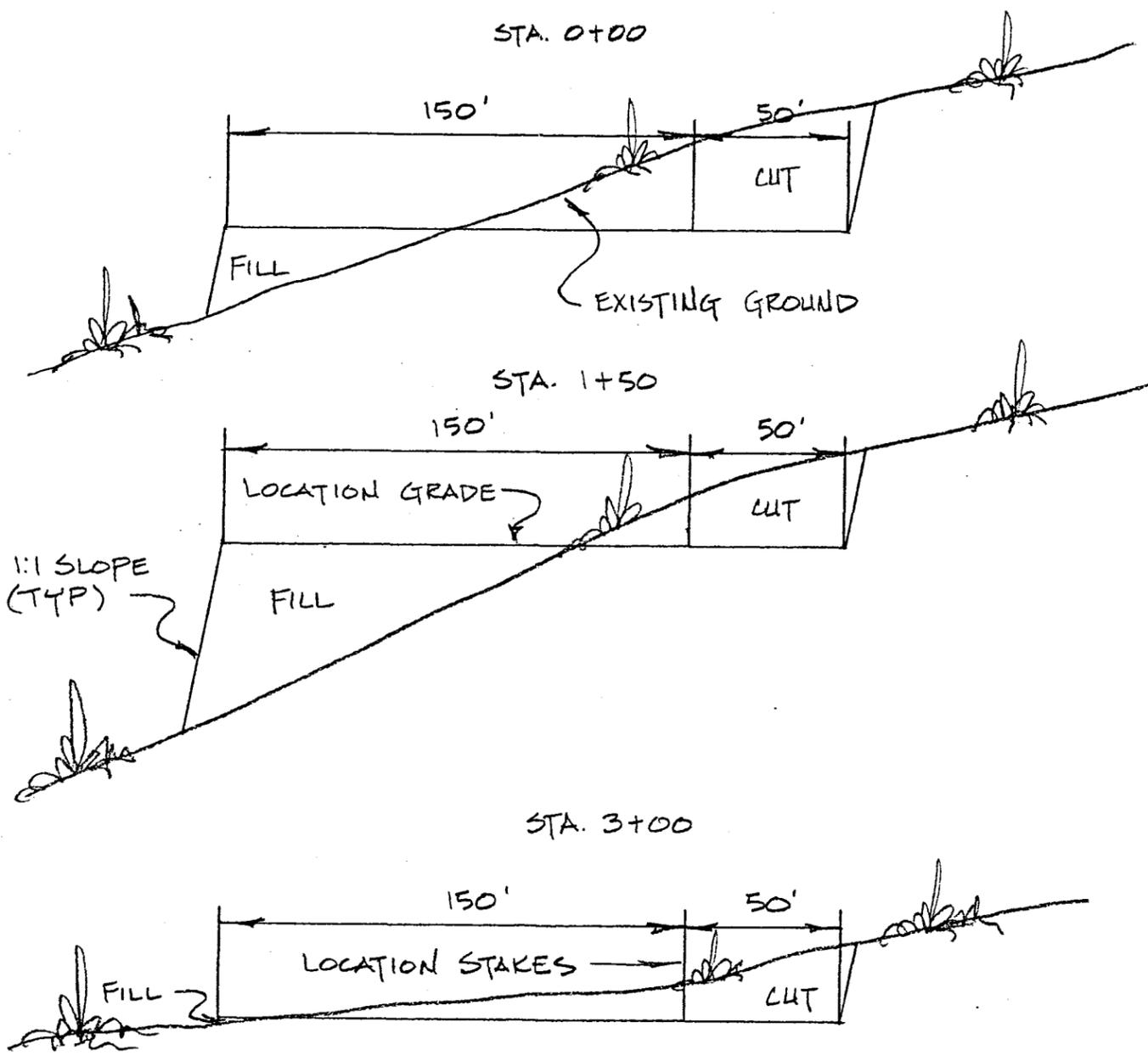
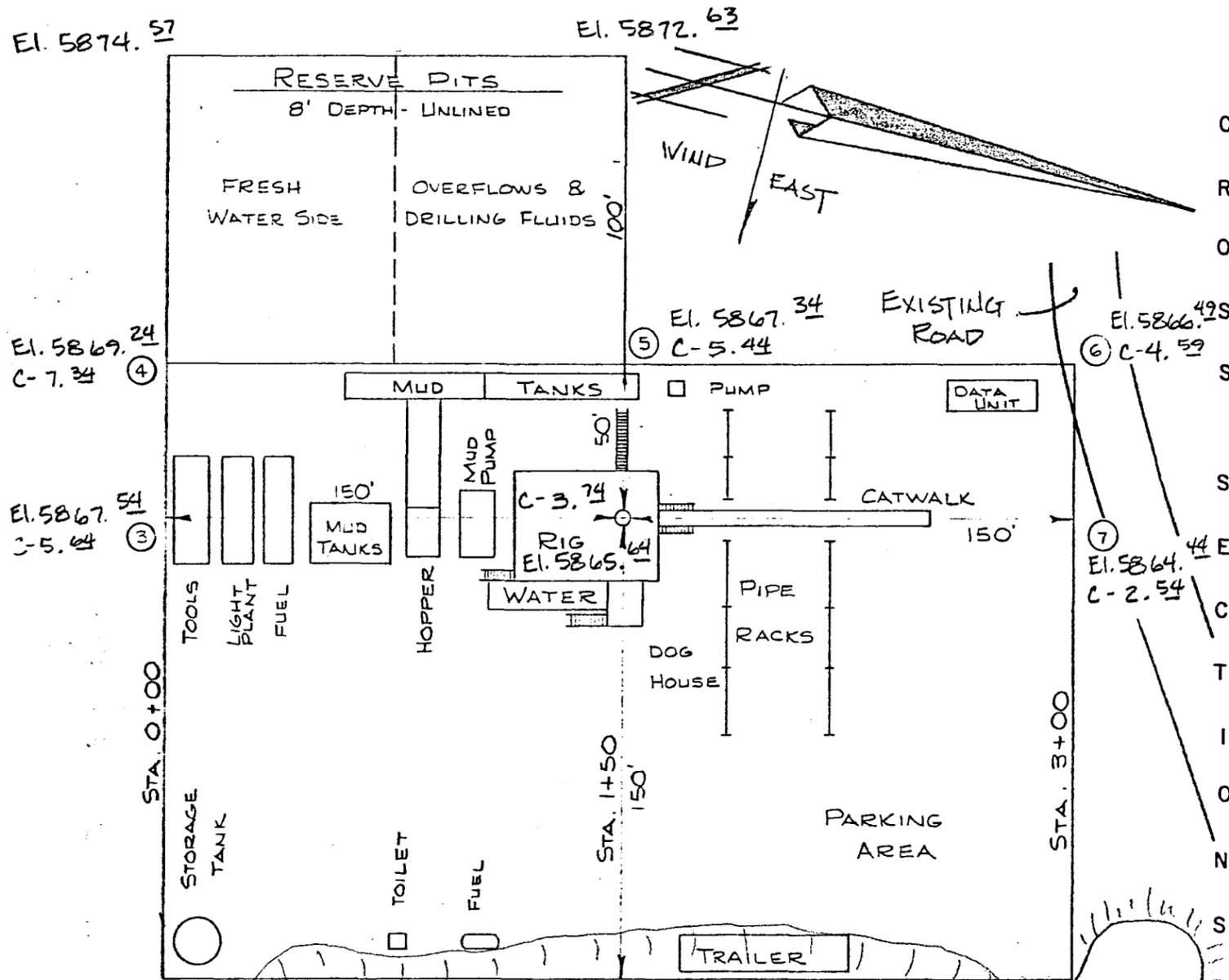


OIL WELL LOCATION FOR
 HIKO BELL MINING & OIL CO.
 —14-5—
 WHITE MULE SPRINGS OIL
 PROSPECT

Duchesne County
 Utah
 Proposed Location —○
 Scale 1" = 2000'
 Sec. 5, 6, 7, & 8-T10S-R17E-

Hiko Bell Mining & Oil Co.

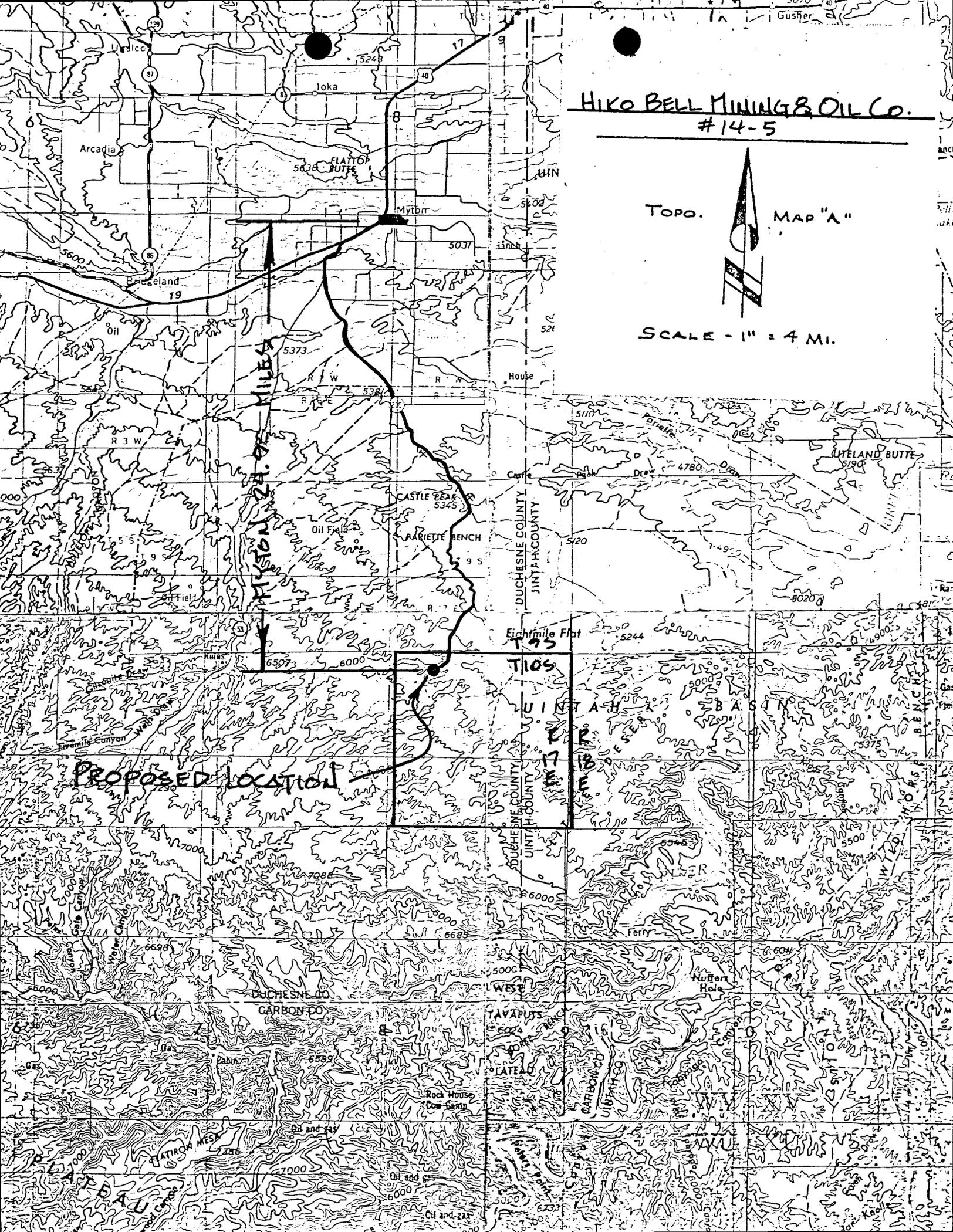
14-5



SCALES
1" = 50'

APPROXIMATE YARDAGES

CU. YDS CUT - 4,442
 CU. YDS FILL - 3,947



Hiko Bell Mining & Oil Co.
#14-5

TOPO.

MAP "A"



SCALE - 1" = 4 MI.

TAYLOR 21.0 MILES

PROPOSED LOCATION

DUCHESNE COUNTY
UINTAH COUNTY

195
T105
UINTAH
R17E
E

DUCHESNE CO.

CARBON CO.

WEST

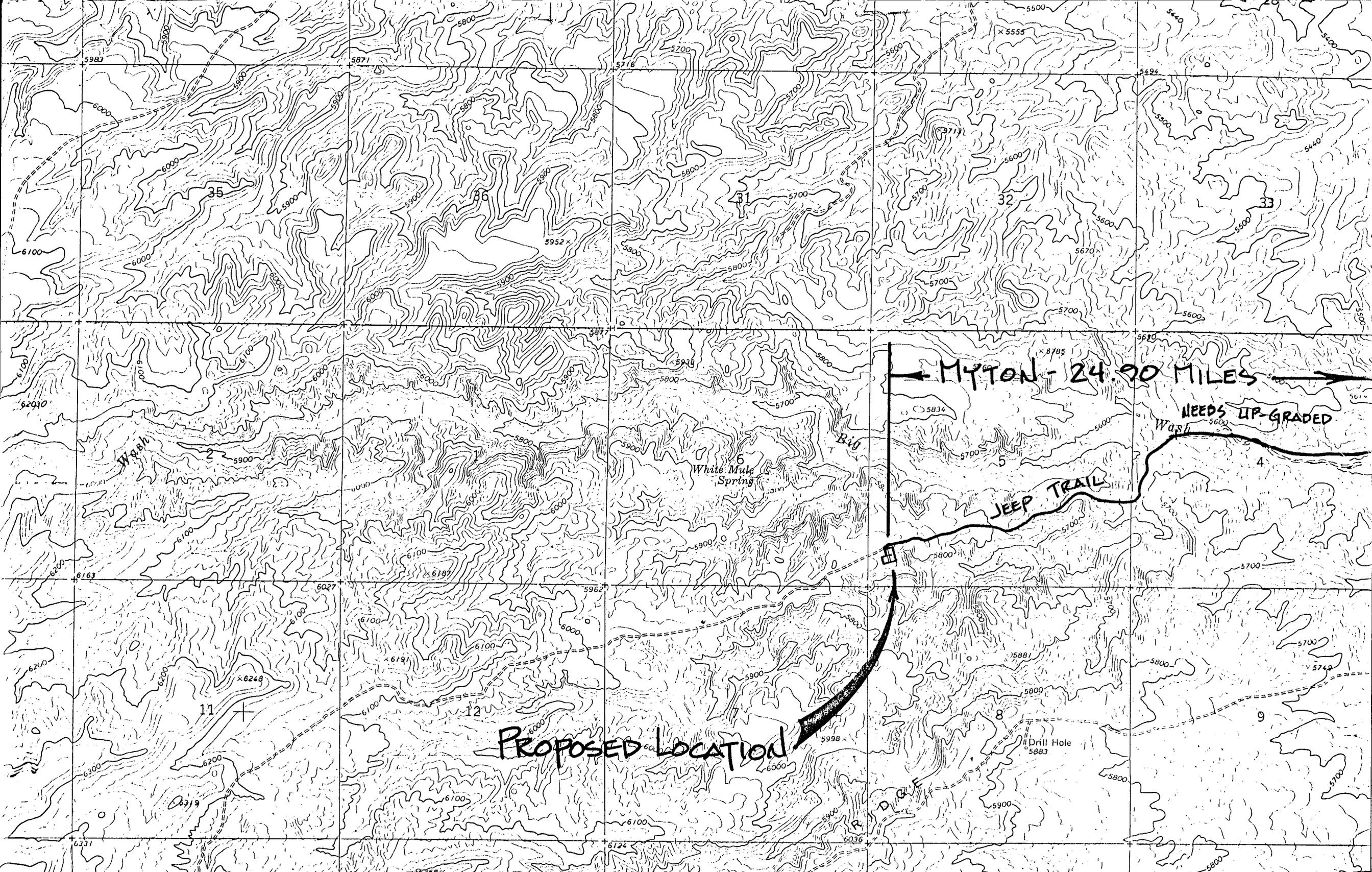
TAVAPUS

PLATEAU

CARBON CO.

PLATON MESA

Oil and gas



← MYTON - 24.90 MILES →

NEEDS UP-GRADED

JEEP TRAIL

PROPOSED LOCATION

White Mule Spring

Wash

Big

Wash

Drill Hole



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

February 2, 1981

General Outline for the Protection and Isolation of Ground Water and Oil Shale in the Uinta Basin.

The oil shale occurs with varying thicknesses in most parts of the Uinta Basin and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon in the Uinta Basin should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta Basin, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

This notice's purpose is to attempt to lay the groundwork for a casing program and cementing program that will protect the oil shale and the ground water if present.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well. Cementing from the bottom up is an economical solution if carefully conducted.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale: These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.

- B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement baskets or equivalent as described below and on attached sketches:
1. Cement first stage through the casing shoe to fill annulus back to base of lower aquifer.
 2. Place 1st stage collar (with cement basket immediately below) at a selected point at the base of the oil shale. Cement will have to reach top of oil shale.
 3. Place 2nd stage collar (with cement basket immediately below) 50 feet above the top of the Bird's Nest aquifer and cement to at least 300 feet above the stage collar.
- C. The above is an example. Reasonable equivalents that accomplish these same protective measures, (such as cementing the water zones instead of isolating them), depending on the individual cases will be considered for approval.
- D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

- E. The Operator of such well should notify U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached Sketches:

1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.
3. Schematic of the general ground water protection program.

E. W. Guynn
District Oil and Gas Supervisor

AMR/kr

PARTIAL CASING & CEMENTING PROGRAM
FOR WELLS IN THE
WHITE MULE SPRINGS OIL
& GAS FIELD
DUCHESNE CO., UTAH

NOT TO SCALE

UINTA FORMATION

BIRDS NEST AQUIFER
Horsebench Sandstone

GREEN RIVER

OIL SHALE ZONE

DOUGLAS CREEK
AQUIFER
Limestone & Sandstone

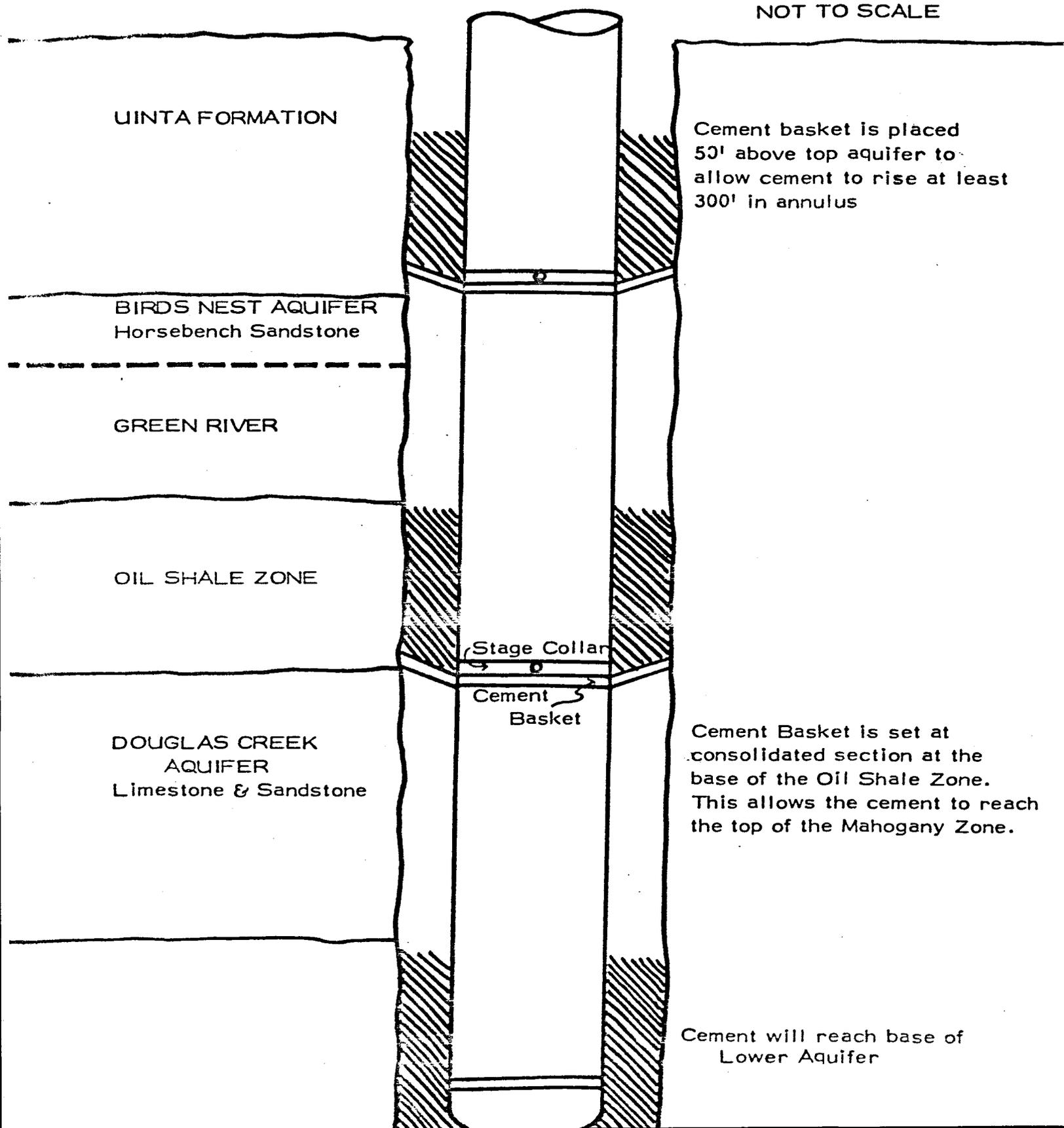
Cement basket is placed
50' above top aquifer to
allow cement to rise at least
300' in annulus

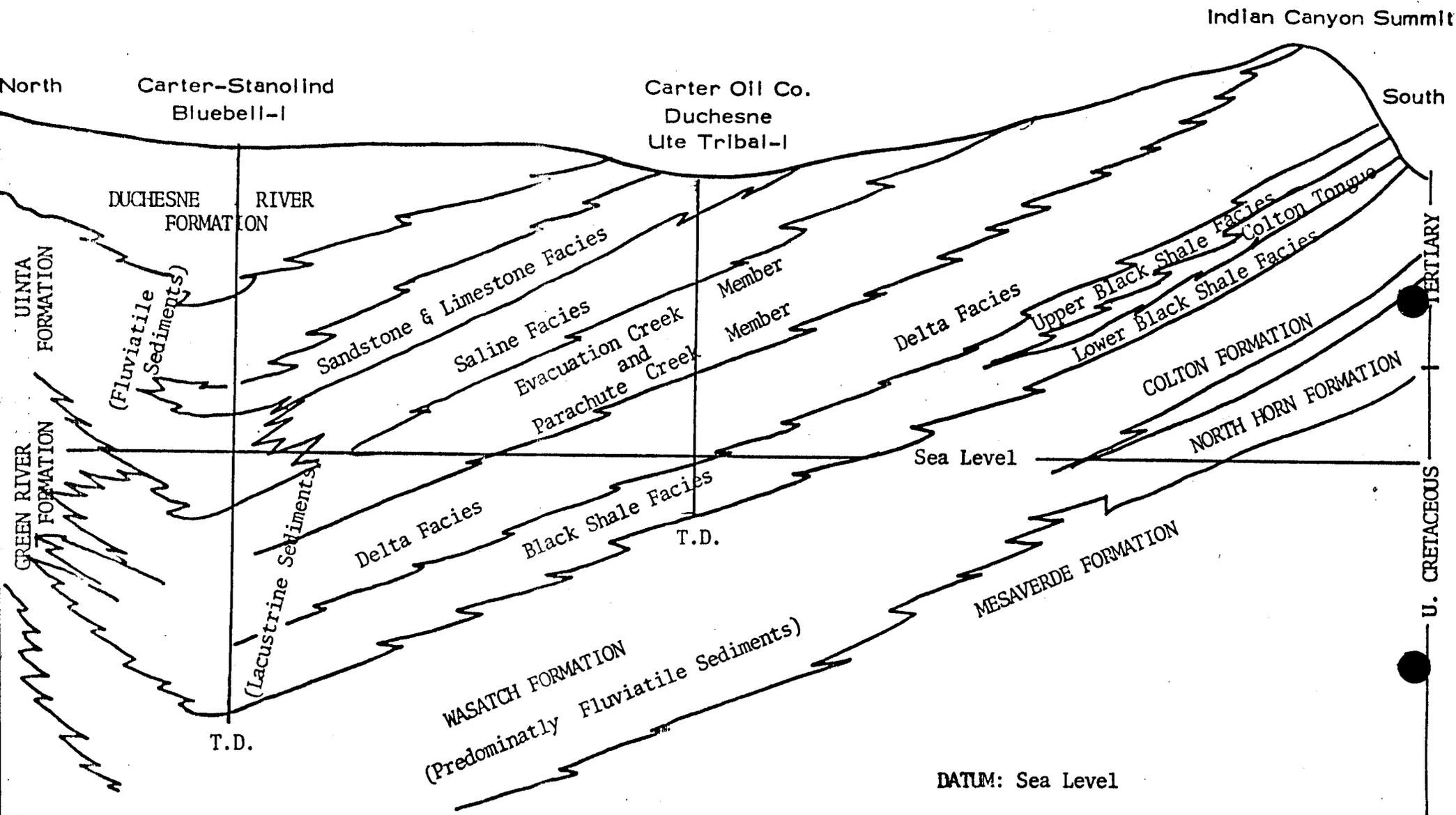
Stage Collar

Cement
Basket

Cement Basket is set at
consolidated section at the
base of the Oil Shale Zone.
This allows the cement to reach
the top of the Mahogany Zone.

Cement will reach base of
Lower Aquifer





View east of cross section of Uinta Basin showing stratigraphy and intertonguing of Tertiary rocks. Ute Tribal-1 (in cross section) is located about 8 miles southeast of the application area.

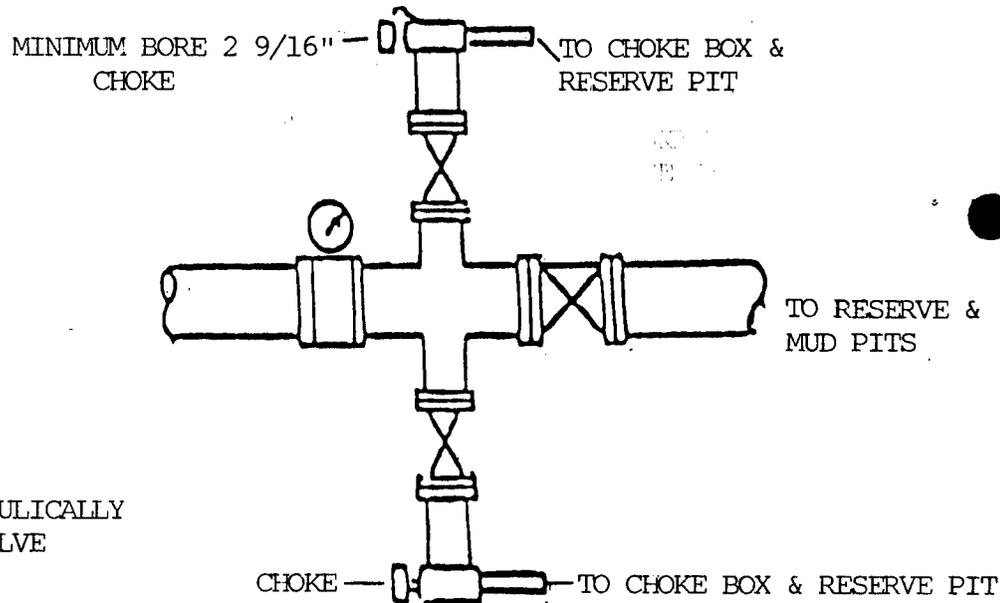
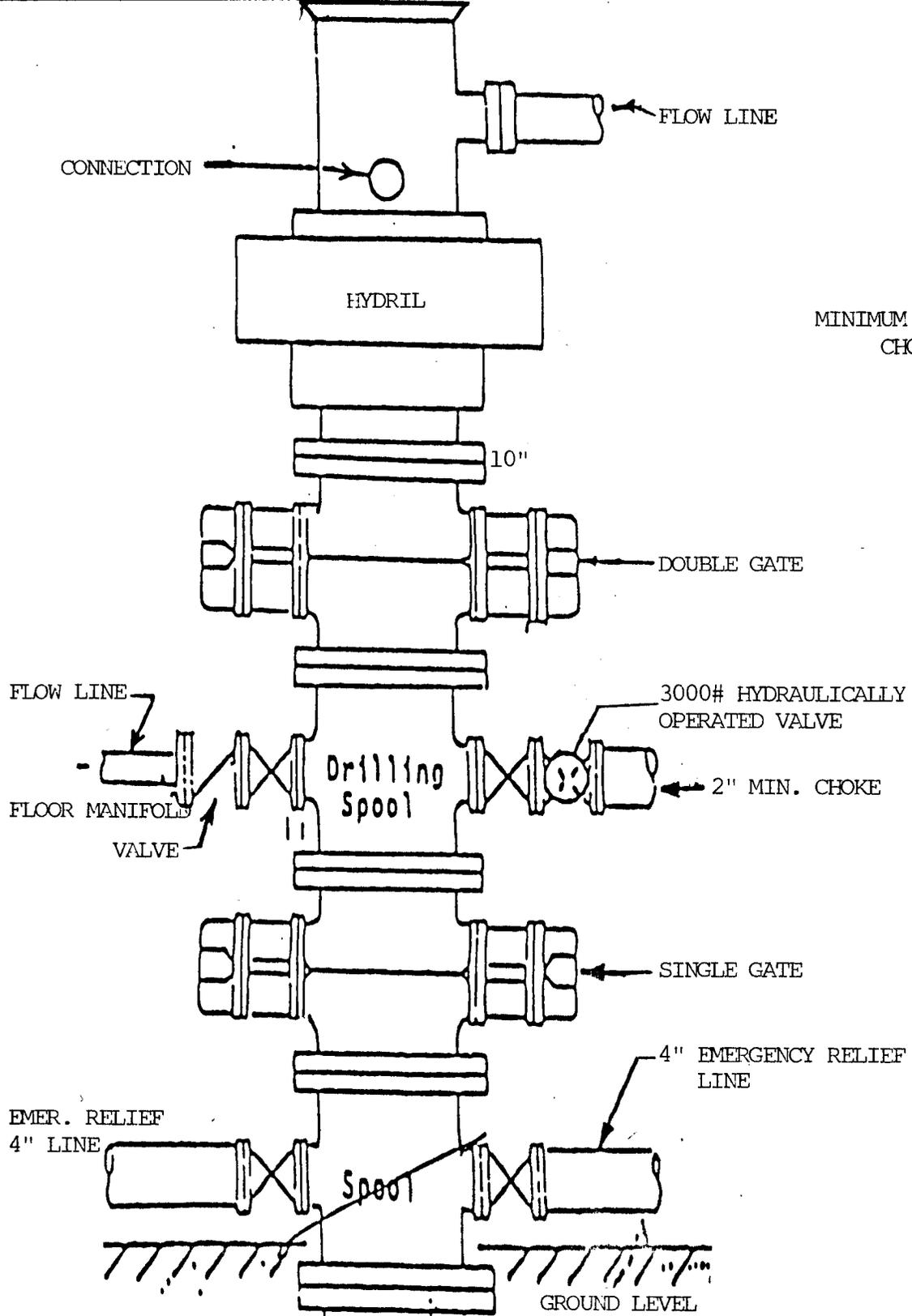


DIAGRAM "C"

HIKO BELL MINING & OIL COMPANY

WHITE MULE SPRINGS OIL
AND GAS PROSPECT

DUCHESNE CO., UTAH

CULTURAL RESOURCE INVENTORY OF
FOUR WELL PADS AND ACCESS ROADS
NEAR WILKIN RIDGE, DUCHESNE COUNTY, UTAH

Cultural Resources Reports

Number 82-8

Submitted to

Bureau of Land Management
Vernal District
Diamond Mountain Resource Area
170 South 500 East
P.O. Box F
Vernal, Utah 84078

by

Alan R. Schroedl
Principal Investigator
P-III Associates
419 Boston Building
9 Exchange Place
Salt Lake City, Utah 84111

November 24, 1982

Work Completed Under
Department of Interior Antiquities Permit Number 82-UT-172

MANAGEMENT SUMMARY

In November, 1982, P-III Associates conducted a cultural resources inventory of four well pads and access roads near Wilkin Ridge on Bureau of Land Management land, Vernal District, Diamond Mountain Resource Area in Duchesne County, Utah. The project was undertaken on behalf of Hiko Bell Mining and Oil Company, Vernal, Utah.

Two of the well pads are located immediately adjacent to existing roads. The other two well pads are situated within several hundred meters of an existing road. P-III Associates intensively inventoried all four well pads and access routes to the two pads that were not next to the existing roads.

No sites were observed at any of the well pads or within the access routes. Cultural resource clearance is recommended for all of the areas inventoried by P-III Associates.

INTRODUCTION

On November 23, 1982, P-III Associates of Salt Lake City, Utah, completed a cultural resource inventory of four oil well pads and associated access roads on Bureau of Management land in the Vernal District, Diamond Mountain Resource Area, in north-eastern Utah. The work was performed by Alan R. Schroedl, Principal Investigator, and Tim Pratt, staff archaeologist, at the request of Hiko Bell Mining and Oil Company. Ken Young of Hiko Bell accompanied the field crew during the inventory.

The project was undertaken to comply with federal historic preservation laws and Executive Order 11593 which requires inventory and evaluation of cultural resources on federal lands. The work was conducted under the provisions of P-III Associates' Department of Interior Antiquities Permit No. 82-UT-172 which expires on April 8, 1983.

LOCATION

The four well pads are located within a four square mile area in the southern part of Duchesne County, south of Myton, Utah. Three of the pads are situated on an unnamed ridge a half mile south of White Mule Springs and Big Wash. The other well pad is located on Wilkin Ridge. Access to these well pads is by an unimproved dirt road that can be reached from the Sand Wash access road. One drill pad is located in each of sections 5, 6, 7, and 8 of T10S, R17E (Figure 1).

METHODS

A 300 ft by 300 ft drilling area had been previously staked and flagged by Uintah Engineering at each of the well pads. This area plus a 10 m buffer zone on all four sides of the pad was intensively inventoried for each well location. The area was surveyed on foot in adjacent sweeps with no more than 15 m between surveyors. The access routes to Wells 23-8 and 44-6 had been previously staked or marked. A 30 m wide corridor was intensively inventoried in 10-15 m sweeps for each access road. The access routes for Wells 23-8 and 44-6 were 25 m and 90 m long respectively.

A search of existing records was performed at the State Office of the Bureau of Land Management to determine if there were any previously recorded cultural resources in the project area or if the project area had been previously inventoried. While considerable work has been conducted in the surrounding area, no cultural resource work has been conducted in the immediate project area. One major project has been completed in the vicinity of the well pads, a survey of the Pariette Bench by the University of Utah for the Central Utah Project in 1977 (Sisson 1977, Sisson 1978). In a survey of 2,964 acres on the Pariette Bench and Eight-Mile Flat area Sisson (1977) recorded only two sites, one historic and one prehistoric. Thus, the site density in this area of Duchesne County is apparently very low.

In 1981 AERC recorded 42DC353, the Lima Bean site, several miles to the north of the study area. A fragment of a Folsom point was recovered from this site in an area of desert pavement. This may indicate that other Paleo-Indian components could be discovered in the area.

Vernal District Archaeologist Blaine Phillips was notified both before and after completion of the survey.

DRILL PAD DESCRIPTION AND SURVEY RESULTS

No cultural resources, historic or prehistoric, were observed during the inventory of the four drill pads and associated access roads.

Well Pad 23-8

Legal Description:

SE 1/4, NE 1/4, SW 1/4, Sec. 8, T10S. R17E
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5910 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: 120 m by 120 m square with drill hole located at the center. Approximately 25 m of a 30 m wide access road was also inventoried.

Description: The well pad is in a shallow swale on Wilkin Ridge. Vegetation is typical of the mixed desert shrub community and is dominated by the Atriplex-Tetradymia association. Vegetation noted on this and the other well pads includes Indian rice grass (Oryzopsis hymenoides), Prickly pear (Opuntia sp.), shadscale (Atriplex confertifolia), and sagebrush (Artemisia sp.). Less than 20% of the surveyed area was covered with snow.

Results: No archaeological or historical sites were observed at this location.

Recommendation: Clearance is recommended.

Well Pad 21-7

Legal Description:

NE 1/4, NE 1/4, NW 1/4, Sec. 7, T10S. R17E
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5950 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: 120 m by 120 m square with the drill hole located at the center.

Description: The drill pad is located on an unnamed ridge about a half mile south of White Mule Springs. Vegetation is typical of a mixed desert shrub zone and is dominated by grasses, salt-bush and sage. Less than 20% of the area surveyed was covered with snow.

Results: No cultural resources were observed.

Recommendation: Clearance is recommended.

Well Pad 44-6

Legal Description:

SE 1/4, SE 1/4, SE 1/4, Sec. 6, T10S, R17E
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5885 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: A 120 m by 120 m area was inventoried with the drill hole at the center. Approximately 90 m of a 30 m wide access road was also inventoried.

Description: The well pad is northeast of a small rise on a ridge that overlooks a tertiary drainage of Big Wash, which is half a mile to the north of the drill pad. Vegetation is sparse, and is typical of a mixed desert shrub zone. It is similar to vegetation at the other three drill pad locations. Less than 25% of the total survey area was covered with snow.

Results: No cultural resources were observed.

Recommendations: Clearance is recommended.

Well Pad 14-5

Legal Description:

NW 1/4, SW 1/4, SW 1/4, Sec. 5, T10S, R17E
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5860 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: A 120 m by 120 m area was surveyed with the drill hole at the center.

Description: The well pad is located on the south side of the ridge on which drill pad 21-7 and 44-6 are located. This location overlooks a small draw to the south. The existing road runs

through a portion of the surveyed area. Vegetation is typical of the Atriplex-Tetradymia association, with an abundance of small grasses in this drill pad location. Less than 20% of the survey area was covered by snow.

Results: No cultural resources were observed.

Recommendations: Clearance is recommended.

RECOMMENDATIONS

Cultural resource clearance is recommended for four well pad locations and access roads to Hiko Bell Mining and Oil Company locations 23-8, 21-7, 44-6, and 14-5.

REFERENCES CITED

Sisson, E. B.

1977 A reconnaissance survey of Pariette Bench and Eight-Mile Flat, Uintah and Duchesne Counties, Utah. Unpublished report on file, Archeological Laboratory, University of Utah, Salt Lake City.

1978 Final report: Survey and evaluation of archeological and historical resources: Central Utah Project, 1977. Special report, University of Utah, Salt Lake City.

WILKIN RIDGE, UTAH
N3952.5—W11000/7.5

1965

AMS 3963 I NE—SERIES V897

Wash

White Mule Spring

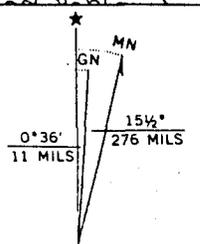
Well # 44-6

Well # 14-5

Well # 21-7

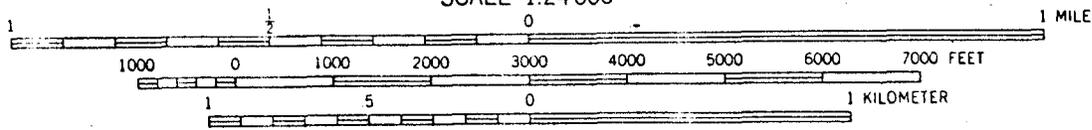
Well # 23-8

Figure 1. Location of well pads and survey areas.

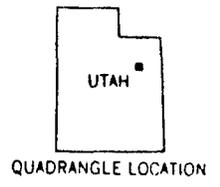


UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



OPERATOR Niko Bell Mining + Oil DATE 12-3-82

WELL NAME Niko Bell #14-5

SEC SWSW 5 T 10S R 17E COUNTY Duchesne

43-013-30722
API NUMBER

Sed.
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input checked="" type="checkbox"/>	HL	<input checked="" type="checkbox"/>
<input type="checkbox"/>	NID	<input checked="" type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input checked="" type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

PART OF TRACT IS WHICH IS NOT COMMITTED TO WITHIN PRICE UNITE

NO WELLS WITHIN 1000'

APPROVAL LETTER:

SPACING: A-3 _____ UNIT c-3-a _____ CAUSE NO. & DATE

c-3-b c-3-c

SPECIAL LANGUAGE:

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

HIKO BELL MINING & OIL COMPANY

POST OFFICE BOX DRAWER AB * VERNAL, UTAH 84078 * TELEPHONE 789-3233 AREA CODE (801)

"HOLDING FILE"

December 7, 1982

Mr. Norm Stout
State of Utah Oil Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Re: Location of 14-5 Well Site
Hiko Bell Mining & Oil Co.
Duchesne County, Utah

Dear Sir,

I am writing to request an unorthodox location for the above well site. The reason that this location was situated where it is can be seen from the enclosed topographic map. The map is divided into 40 acre section. The area outlined in red is Hiko Bell's lease U-50972. The location is close to the section line but the adjoining 40 acres is part of Hiko Bell's lease.

From the topographic map you can see that there is a narrow strip of land on top of the ridge that is wide enough for a well site. The 14-5 was located where it is because to the north a drainage cuts up to almost the middle of the 40. This same drainage is also to the east of the location making location building extremely difficult and expensive. We felt that in the interest of the natural drainage in the area that this was the best location.

If there are any further questions on this location please feel free to give me a call. Please let me know if this is satisfactory to warrant an unorthodox location.

Very truly yours,

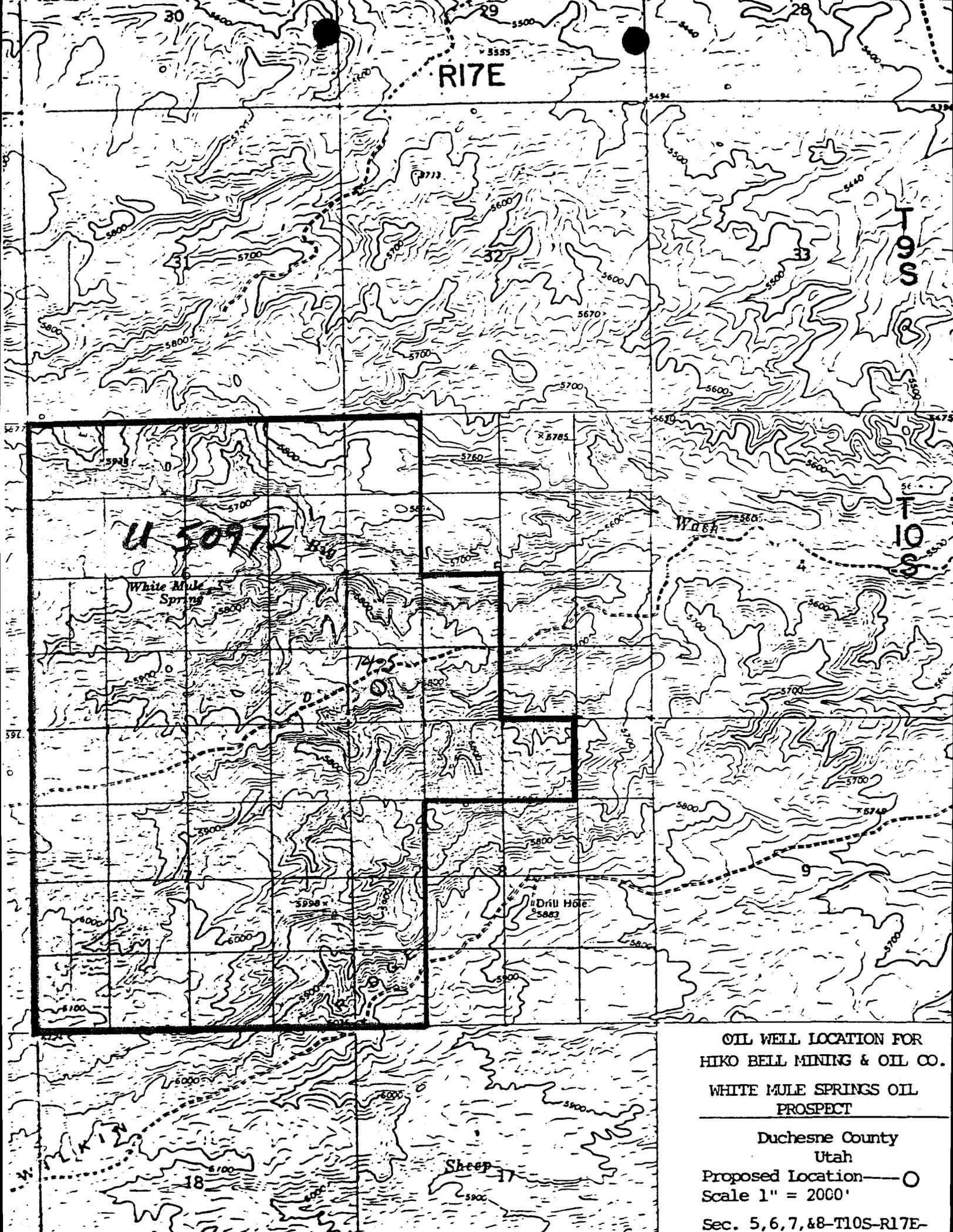

Kenneth J Young, Staff Geologist

kjy

Enclosures

RECEIVED
DEC 09 1982

**DIVISION OF
OIL, GAS & MINING**



R17E

T10S

U 50972

White Mule Springs

Wash

Drill Hole

Sheep

OIL WELL LOCATION FOR
HIKO BELL MINING & OIL CO.
WHITE MULE SPRINGS OIL
PROSPECT

Duchesne County
Utah
Proposed Location—○
Scale 1" = 2000'
Sec. 5,6,7,&8-T10S-R17E-

December 9, 1982

Hiko Bell Mining & Oil Company
P. O. Drawer AB
Vernal, Utah 84078

RE: Well No.Hiko Bell #14-5
SWSW Sec. 5, T.10S, R.17E
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

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

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

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

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

The API number assigned to this well is 43-013-30722.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
cc: MMS
Enclosure

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
 Hiko Bell Mining & Oil Company

3. ADDRESS OF OPERATOR
 P.O. Drawer AB, Vernal, Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 358' 408' FWL & 636' FSL
 At proposed prod. zone Section 5, T10S-R17E, SLM
 Duchesne County, Utah 5866 Gr.

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2100'

16. NO. OF ACRES IN LEASE 1746.1

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300'

19. PROPOSED DEPTH 5700'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR. 5866

22. APPROX. DATE WORK WILL START* May 2, 1983

5. LEASE DESIGNATION AND SERIAL NO. U-50972

6. IF INDIAN, ALLOTTEE OR TRIBE NAME DEC 1 1982

7. UNIT AGREEMENT NAME SALT LAKE CITY, UTAH

8. FARM OR LEASE NAME White Mule Springs

9. WELL NO. Hiko Bell #14-5

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T10S-R17E, SLM

12. COUNTY OR PARISH Duchesne Co. 13. STATE Utah

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"	24# new	300'	Circ. to surface
7 7/8"	5 1/2"	15.5# new	5700'	440 sx.

Propose to drill a 5700' Green River test with Rotary tools. KCl water will be used with gel to drill a 7 7/8" hole to 5700 feet and set 5 1/2" casing if commercial production is established.

The sands in the lower Green River Formation will be tested for oil and gas.

RECEIVED
JAN 04 1983

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. SIGNER *Robert E. Covington* TITLE Manager of Exploration DATE Nov. 30, 1982
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ FOR E. W. GUYNN
 CONDITIONS OF APPROVAL, IF ANY: _____ TITLE DISTRICT OIL & GAS SUPERVISOR DATE _____

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

*See Instructions On Reverse Side

State O & G

Hiko Bell Mining and Oil Company
Well No. 14-5
Section 5-10S-17E
Duchesne County, Utah
Lease U-50972

Supplemental Stipulations:

1. Traveling off the right-of-way will not be allowed. Width of access roads, both existing and planned, will be 30 feet total disturbed area. Turn-outs will not be required.
2. Burn pits will not be constructed. There will be no burying of garbage or trash at the well site. Refuse will be contained in trash cages and hauled to the nearest sanitary landfill. No trash will be thrown in the reserve pit.
3. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pit.
4. Water for this location will be hauled from Pariette Draw in T.8S. R.18E., Section 27.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding requirements.
6. The top 6-10 inches of topsoil will be stockpiled as addressed in the applicant's 13 point plan.
7. All permanent (onsite for six (6) months duration or longer) structures constructed or installed, including the pumpjack, shall be painted a flat, non-reflective, earth tone color to match Tnemec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities shall be painted within 6 months of when the production facilities are put in place. Facilities that are required to comply with OSHA (Occupational Safety and Health Act) standards are excluded.
8. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Mahogany zone of the the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale resource. Surface casing program may require adjustment for protection of fresh water aquifers.

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE:
SERIAL NO.: U-50972

and hereby designates

NAME: AFE Management Inc. 2932 Edge Rock Circle ✓
ADDRESS: 208-372 Bay St., Toronto, Ontario Salt Lake City, Utah 84117

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

Township 10 South - Range 17 East, SLM, Duchesne Co., Utah:

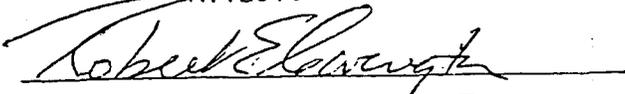
Section 5: Lot 4, SW $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$
Section 6: All
Section 7: All
Section 8: NW $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ W $\frac{1}{2}$
Containing 1,746.10 acres.

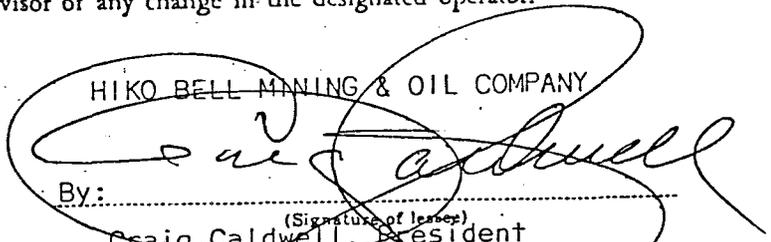
It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

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

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

ATTEST:


Robert E. Covington, Sec. -Treas.
(Date)

HIKO BELL MINING & OIL COMPANY

By: _____
(Signature of lessee)
Craig Caldwell, President
P.O. Drawer AB, Vernal, Utah, 84078

(Address)

Sept.]3,]983

before 10/5/83

NOTICE OF SPUD

Company: Hiko Bell

RECEIVED

Caller: _____

OCT 5 1983

Phone: _____

DIVISION OF OIL, GAS & MINING

Well Number: 14-5

Location: _____

5-10S-17E

County: _____

P. Duchesne
~~Blaine~~

State: _____

UTAH

Lease Number: _____

U-50972

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: _____

9-30-83 10:00 A.M.

Dry Hole Spudder/Rotary: _____

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

315' 8 5/8" csg

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

30 days

FOLLOW WITH SUNDRY NOTICE

Call Received By: _____

BAH

Date: _____

10-4-83

NOTICE OF SPUD

Company: AFE Management (Hiko Bell)
Caller: Ellen Rasmussen
Phone: 801-722-5081

Well Number: White Mule Springs 14-5

Location: Sec. 5-10S-17E

County: Duchesne State: Utah

Lease Number: U-50972

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 11-30-83 - 10:00 AM

Dry Hole Spudder Rotary: _____

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

8 5/8" casing @ 280 feet

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: Diane

Date: 11-30-83

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

5. LEASE DESIGNATION AND SERIAL NO.

U-50972

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

White Mule Springs

9. WELL NO.

AFE Management #14-5 ✓

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec 5, T10S, R17E, SLM

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

AFE Management Inc.

3. ADDRESS OF OPERATOR

2932 Edge Rock Circle, Salt Lake City, Utah 84117

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

358' FWL & 786' FSL
Section 5, T10S, R17E, SLM
Duchesne County, Utah

14. PERMIT NO.

43-013-30722

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

GR 5866'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Spud, Surface Pipe

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

September 30, 1983 - Spud
Drilled 315' of 12 1/4" Hole
Set 282' 8 5/8" 23 lb. Pipe

October 3, 1983
Cemented with Halliburton
230 Sacks API Class "A" Cement
4 Sacks 2% Calcium Chloride

12/1/83

Ellen Kasmas advised that drilling commenced
@ 10 AM, 11/30/83, w/ Olson #5 rig.

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

SIGNED

David A. Wey

TITLE

President

DATE

Nov 3/83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

AFE Management Inc.
2932 Edge Rock Circle
Salt Lake City, Utah 84117

December 1, 1983

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Ron Firth :

RE: White Mule Springs
AFE Management # 14-5
Section 5, T 10S, R17E, S1M
Lease designation and serial number:
U-50972

This well was spudded on November 30, 1983 at 10:00 A.M.

8 5/8" surface casing was set at 280' ground level.

Olsen # 5 rotary drilling rig is the drilling contractor for AFE Management Inc.

Sincerely Yours,



Ken B. Allen
Consulting Engineer

KA/er

RECEIVED
DEC 6 1983

DIVISION OF
OIL, GAS & MINING

AFE MANAGEMENT INC.

2932 Edgerock Circle
Salt Lake City, Utah 84117

January 9, 1984

State of Utah
Department of Natural Resources
Division of Oil Gas and Mining
4241 State Office Building
Salt Lake City, Utah
USA 84114

ATTENTION: Don Firth

RECEIVED
JAN 16 1984

DIVISION OF
OIL, GAS & MINING

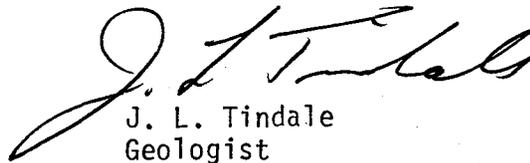
Dear Sir:

RE: White Mule Springs #14-5
Sec. 5, T10S, R17E, SLM
Lease U-50972
Permit #43-013-30722

Enclosed for your files one copy of the Acoustic Cement Bond -
Gamma Ray Log on the above captioned well.

Yours very truly,

AFE MANAGEMENT INC..


J. L. Tindale
Geologist

JLT:acp

Enclosure

AFE MANAGEMENT INC.

2932 Edgerock Circle
Salt Lake City, Utah 84117

file

January 13, 1984

State of Utah
Department of Natural Resources
Division of Oil Gas and Mining
4241 State Office Building
Salt Lake City, Utah
USA 84114

ATTENTION: Don Firth

RECEIVED
JAN 23 1984

**DIVISION OF
OIL, GAS & MINING**

Dear Sir:

RE: White Mule Springs #14-5
Sec. 15, T10S, R17E, SLM
Lease U-50972
Permit #43-013-30722

Enclosed for your files one final copy of the Dual Laterolog,
Compensated Density, Compensated Neutron Log, Wellsite Evaluation
Log on the above captioned well.

Yours very truly,

AFE MANAGEMENT INC.

J. L. Tindale
J. L. Tindale
Geologist

JLT:acp

Enclosures

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

SUBMIT IN TRIPLICATE*
(Instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-50972

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

White Mule Springs

9. WELL NO.

AFE Mangement 14-5

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 5, T10S, R17E, SLM

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

AFE Management Inc.

3. ADDRESS OF OPERATOR

372 Bay St. Suite 208, Toronto, Ontario, Canada M5H 2W9

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

358' FWL & 786' FSL
Section 5, T10S, R17E, SLM

14. PERMIT NO.

14-013-30722

15. ELEVATIONS (Show whether DR, RT, CR, etc.)

GR 5866'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

AFE Management intends to frac the well in the intervals 5266' to 5338' with 20,750 gallons foam pad and 55,500 lbs. 20/40 sand as follows:

- 7,000 gallons 75 Q. foam pad.
- 3,000 gallons 75 Q. foam pad with 1PPG 20/40 sand
- 4,000 gallons 75 Q. foam pad with 2 PPG 20/40 sand
- 6,000 gallons 75 Q. foam pad with 3 PPG 20/40 sand
- 750 gallons 75 Q. foam pad with 4 PPG 20/40 sand

RECEIVED

APR 17 1984

DIVISION OF OIL
GAS & MINING

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

SIGNED

MS Allen

TITLE

Agent for AFE Management

DATE

4-13-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

13

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR
AFE Management Inc.

3. ADDRESS OF OPERATOR
2932 Edgerock Circle, Salt Lake City, Utah 84117

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

At surface 358' FWL & 636' FSL

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-013-30722 DATE ISSUED Dec. 2/82

5. LEASE DESIGNATION AND SERIAL NO.
U 50972

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
White Mule

9. WELL NO.
14-5

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 5, T10S R17E SLM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

15. DATE SPUNDED Nov. 30/83 16. DATE T.D. REACHED Dec. 8/83 17. DATE COMPL. (Ready to prod.) Dec. 31/83 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* GR 5866'

20. TOTAL DEPTH, MD & TVD 5,580 21. PLUG, BACK T.D., MD & TVD 5,520 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

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

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gearhart: DLL, MSFL, CDL, CNS; Mud Log (Melton)

27. WAS WELL CORED
NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	23 lbs	280.0'	12-1/4	230 sacks & 4 sks 2% CaCl ₂	
5-1/2	20 lbs	5569.9	7-7/8)	130 sks Hifill & 254 sks	
5-1/2	17 lbs	4298.0	7-7/8)	Thixotropic	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8		

31. PERFORATION RECORD (Interval, size and number)

5482-5491	4" c.g. 2 spf	5183-5191	4" c.g. 2 spf
5460-5470		4828-4846	
5424-5432			
5376-5388			
5284-5304			

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	See attached

33. PRODUCTION

DATE FIRST PRODUCTION Jan 27/84

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
pumping - Lufkin #160

WELL STATUS (Producing or shut-in)
intermittent

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.)
Used for fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Chronological Record

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

SIGNED J.L. Lindate TITLE Geologist DATE April 17/84

*(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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			
38. GEOLOGIC MARKERS			
Wasatch	5,520	TOP	TRUE VERT. DEPTH

AFE MANAGEMENT INC.

Attachment To Completion Report
White Mule 14-5
Sec. 5, T10S R17E-SLM

- Dec. 14/83 RIH with 2-7/8" N80 8-round, tag bottom at 5520', circulate hole clean. RU Oil Well Perforators, perforate 5482-5491, 5460-5470 with 2spf. PU 5-1/2" packer, RIH, set at 5372. Break down perms with 125 bbls 5% HCl with claystay, broke down at 3400 psi, pumped 125 bbls with one ball every 2.5 bbls, flushed with 34 bbls. average tubing pressure 2300 psi at 5.5 bpm. Swabbed well back, 28 bbls water, trace oil.
- Dec. 15 Fluid level at 200'. Swabbed well down, recovered 65 bbls, 10% oil. Left to recover: 125 bbls.
- Dec. 16 Fluid level 3700'. Made one swab run, recovered 6 bbls oil. Pull tubing and packer. Fractured well with Nowsco, 3% gelled KCl as follows:
 - pumped 5000 gal pad
 - 2000 gal 1lb/gal 20/40 sand
 - 2000 gal 2lb/gal 20/40 sand
 - 2500 gal 3lb/gal 20/40 sand
 - 7500 gal 4lb/gal 20/40 sand
 - 2500 gal 5lb/gal 20/40 sand
 - 1260 gal 6lb/gal 20/40 sand
 - 125 bbl 5% KCl flush

Max. T.P. 2600 at 21 bpm, avg T.P. 1980 at 21 bpm. Well shut in overnight.
- Dec. 17 Swabbed 121 bbls, trace oil.
- Dec. 18 Swabbed 126 bbls, 15% oil
- Dec. 19 Swabbed 36 bbls, 50% oil last run
- Dec. 20 Swabbed 16.5 bbls 80% oil last run
- Dec. 21 Swabbed 11 bbls 90% oil last run
- Dec. 22 Swabbed 10-1/2 bbls 90% oil
- Dec. 23-26 Well shut in over Christmas
- Dec. 27 Swabbed 46 bbls oil. Pull tubing
- Dec. 28 Ran downhole equipment. Swabbed 14 bbls oil.

Dec. 29/83 Wait on rods

Dec. 30 Ran BH pump, weight rods, 2 1/4" rods, pong rods, polished rod. Release rig.

Dec. 31 -
Jan. 26/84 Building battery, installing pumping unit.

Jan. 27 -
Feb. 22 Pumped well, repairing surface equipment. Avg. 8 BOPD

Feb. 23 Pulled rods and tubing. Perforate with Oil Well Perforators:
5424-5432 2 spf
5376-5388 2 spf
5284-5304 2 spf

Feb. 24 Picked up Halliburton 5-1/2" plug and packer. Tallied 2-7/8" tubing in hole. Set plug at 5445', packer at 5400'. Broke down perfs 5424-32' with 250 gals 7-1/2% HCl and 500 cu.ft./bbl N₂. Broke down at 3450 lbs, 3.4 bbls/min. Blow well down. Move plug to 5400', packer to 5350'; broke down perfs 5376-88 with 250 gals 7-1/2% HCl, 500 cu.ft. N₂/bbl. Broke down at 3350 psi, 3.7 bbls/min. ISI 2000 psi. Blow well down. Move plug to 5350', packer to 5260'. Broke down perfs 5284-5304 with 500 gals 7-1/2% HCl, 500 cu.ft./bbl. Broke down at 4050 psi, 3.8 bbls/min. ISI 2250 psi. Blow well down. Moved plug to 5450', packer to 5260'. Rig to swab. Initial fluid level 3600'. Swab down tubing. Recovered 18 bbls water with trace of oil. Made 30 min. swab run. Recovered 100' of fluid, 75% oil. Shut down overnight.

Feb. 25 Place well back on pump

Feb 26-
Mar 30 Pump well avg 4 bbls oil/day.

Mar 31-
Apr 2 POOH. Pick up B.P. Set at 5338'. Fract well with Nowsco as follows:
pumped 7000 gal pad
3000 gal with 1 lb/gal 20/40 sand
4000 gal 2 lb/gal "
6000 gal 3 lb/gal "
750 gal 4 lb/gal "

All volumes 75% quality foam (75% N₂, 25% water), pad and flush. Pressure increased during fract, closed down fract at 4500 psi. Flushed well to perfs. avg. treating pressure 4200 lbs. avg rate 15 bbls/min. Shut well in two hours. ISIP 2450 lbs. After 2 hours 2150 lbs.

- Apr. 3-5/84 Circulate out snad. Swabbed 150 bbls fluid 15% oil last run.
- Apr. 6 Perforate 5183-5191 2 spf, 4"
4828-4846 2 spf, 4"
- Swab zone 5183-5191. Break down with KCl water at 4400 lbs. Zone tight. Isolate perfs 4828-4846. Swab same. Making water Cl 38,000 ppm. Pulled plug & packer
- Apr. 7-9 Put well back on pump
- Apr. 10-18 Pumped average of 60 llbs water per day
- Apr. 19-21 MIRU Gamache. POOH with tubing, rods. PU packer, set at 5223'. Swab well down. Recovered 51 bbls fluid - last run 40% oil with fract fluid. Rig down Gamache. Plan to swab well intermittently.

A FE Management Inc.

Suite 208, 372 Bay Street, Toronto, Ontario Canada M5H 2W9
(416)366-4257

RECEIVED

APR 30 1984

DIVISION OF OIL
GAS & MINING

April 25, 1984

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
4241 State Office Building
Salt Lake City, Utah 84114
U.S.A.

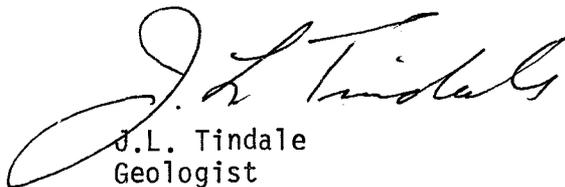
ATTENTION: CLAUDIA JONES, WELL RECORDS SPECIALIST

Gentlemen:

RE: WHITE MULE 14-5, API# 43-013-30722
Sec. 5, T10S R17E, Duchesne County, Utah

Enclosed are revised Report of Operations forms for the above captioned well for the months of January, February and March 1984. Forms will be sent monthly hereafter. Summary of drilling and completion report is currently in preparation.

Yours truly,



J.L. Tindale
Geologist

JLT:des
Enclosures

UNITED STATES
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

2

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 type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-50972
2. NAME OF OPERATOR AFE Management Inc		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 372 Bay ST. Suite 208, Toronto, Ontario, Canada M5H 2W9		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 358' FWL & 786' FSL Sec. 5, T10S, R17E SLM		8. FARM OR LEASE NAME White Mule Springs
14. PERMIT NO. 43-013-30722		9. WELL NO. 14-5
15. ELEVATIONS (Show whether DT, WT, OR, etc.) GR 5866'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sec 5, T10S, R17E
		12. COUNTY OR PARISH Duchesne
		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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____ <input type="checkbox"/>	(Other) _____ <input type="checkbox"/>
(Other) emergency pit <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 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.)*

AFE Management is requesting permission to use the pit on this location as an emergency pit during workover procedures and other well operations.

RECEIVED

NOV 06 1984

DIVISION OF OIL
GAS & MINING

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING.
DATE: 11/8/84
BY: John R. Bays

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

SIGNED [Signature] TITLE Agent for AFE Management DATE 11-1-84

(This space for Federal or State office use)

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

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

RECEIVED

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 DIVISION OF OIL GAS & MINING

2. NAME OF OPERATOR
AFE Management Inc.

3. ADDRESS OF OPERATOR
208-372 Bay St., Toronto, Ontario, M5H 2W9 CANADA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
358' FWL, 786' FSL
Section 5, T10S R17E, SLM
Duchesne Co., Utah

14. PERMIT NO. 43-013-30722 15. ELEVATIONS (Show whether OP, RT, OR, etc.) GR 5866

5. LEASE DESIGNATION AND SERIAL NO. U-50972

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
White Mule Springs

9. WELL NO.
AFE 14-5

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 5, T10S R17E SLM

12. COUNTY OR PARISH
Duchesne

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) <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.)*

Mar. 26/85

start up pumping system. Well produced 23 bbls oil in 22 hrs. Will continue to pump well on an intermittent basis during warm months.

Note: this marginal producer has been shut in since Nov./84.

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

SIGNED J. H. Lindale TITLE GEOLOGIST DATE Mar. 27/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 4, 1985

AFE Management, Inc.
372 Bay Street #208
Toronto Ontario Canada M5H 2W9

Gentlemen:

Re: Well No. Hiko Bell 14-5 - Sec. 5, T. 10S., R. 17E.,
Duchesne County, Utah - API #43-013-30722

According to our records a "Well Completion Report" filed with this office April 17, 1984 on the above referenced well indicates the following electric logs were run: Mud Log (Melton). This office has not yet received these logs.

Please take care of this matter as soon as possible, but not later than October 18, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Pam Kenna".

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/39

A FE Management Inc.

Suite 208, 372 Bay Street, Toronto, Ontario Canada M5H 2W9
(416)366-4257

October 11, 1985

RECEIVED

OCT 15 1985

State of Utah Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Centre, Suite 350
Salt Lake City, Utah 84180-1203
U.S.A.

DIVISION OF OIL
GAS & MINING

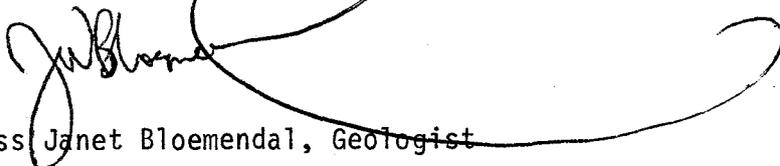
ATTENTION: PAM KENNA

Gentlemen:

In response to your letter of October 4, 1985, enclosed is a copy of the mud log run on the AFE White Mule 14-5 (Section 5, T10S R17E, Duchesne Co., Utah, API #43-013-30722) which you requested.

If you have any questions, do not hesitate to contact us.

Yours truly,



Miss Janet Bloemendal, Geologist

JWB:deb

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.	U-50972
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	White Mule Springs
9. WELL NO.	AFE 14-5
10. FIELD AND POOL, OR WILDCAT SURVEY OR AREA	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 5, T10S R17E, SLM
12. COUNTY OR PARISH	Duchesne
13. STATE	Utah

RECEIVED

NOV 18 1985

DIVISION OF OIL
GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
AFE Management Inc.

3. ADDRESS OF OPERATOR
208-372 Bay St., Toronto, Ontario, CANADA M5H 2W9

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
Section 5, T10S R17E, SLM
358' FWL, 786' FSL
SW $\frac{1}{4}$ SW $\frac{1}{4}$

14. PERMIT NO.
43-013-30722

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,866 GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL 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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <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.)*

It has been decided to abandon the well since it has become uneconomic to operate.

The well was spudded Nov. 30/83. Subsequently, the well was cased, logged, perforated and acidized. Casing was set as follows:

- 8-5/8" at 280'
- 5-1/2" (171b) at 4,298'
- (201b) at 5,569-80'

Perforation intervals are attached. A packer was set at 5,223'. Above the packer the perforations 4,828-46' are making water while from 5,183-91' is a tight zone. This well has been producing intermittently from perforations between 5,284-5,491'.

Federal approval of this action is required before commencing operations.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/19/85
BY: John R. Duga

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

SIGNED Miss J. Blumendal TITLE Geologist DATE Nov. 13/85
(This space for Federal or State office use)

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

14-5 Well - Perforation Intervals

Dec. 14/83	5,482 - 491	9 ft.	2 shots/ft
	5,460 - 470	<u>10</u>	
		19 ft -	38 shots
Feb. 23/84	5,424 - 432	8 ft	2 shots/ft
	5,376 - 388	12	
	5,284 - 304	<u>20</u>	
		40 ft -	80 shots
April 6/84	5,183 - 191	8 ft	2 shots/ft
	4,828 - 846	<u>18</u>	
		26 ft -	52 shots

Total of 85 feet of perforations, 170 shots

Proposed Abandonment Procedure

1. MIRU service rig. Pull rods and tubing.
2. Set cast iron bridge plug at 5,274', 10' above Lower Green River perforations. Spot 10 sacs cement on top of bridge plug.
3. Spot 20 sac plug across perforations 4,828-4,846'.
4. Spot 20 sacs at base of 8-5/8" surface casing.
5. Spot 10 sacs of cement at surface.
6. Install dry hole marker 4' above ground and remainder in cement. Release rig.

A F E Management Inc.

Suite 208, 372 Bay Street, Toronto, Ontario Canada M5H 2W9
(416)366-4257

RECEIVED
MAY 22 1986

DIVISION OF
OIL, GAS & MINING

May 13, 1986

State of Utah Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180
U.S.A.

ATTENTION: NORM STOUT

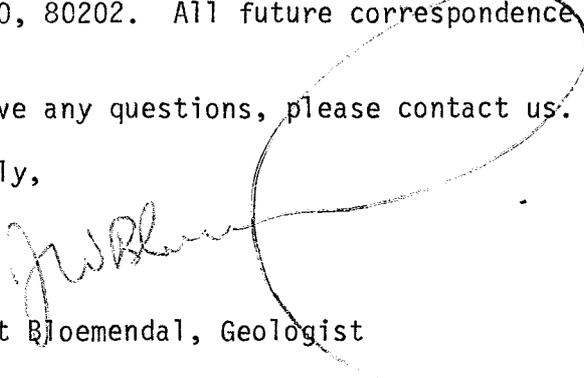
Gentlemen:

RE: DUCHESNE COUNTY, UTAH
White Mule 14-5 (Section 5, T10S R17E) 4301330722
White Mule 21-7 (Section 7, T10S R17E)

As of May 2, 1986, AFE Management Inc. has sold its entire interest in the above-captioned wells to TCPL Resources U.S.A. Ltd., 216-16th St., Suite 1100, Denver, CO, 80202. All future correspondence on these wells must be forwarded to them.

If you have any questions, please contact us.

Yours truly,


Miss Janet Bloemendal, Geologist

JWB:deb

cc: Mari Snyder, TCPL

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

SUBMIT IN TRIPLICATE*
(See instructions on reverse side)

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 type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR TCPL Resources U.S.A. Ltd.</p> <p>3. ADDRESS OF OPERATOR 216 16th Street, Suite 1100, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 358' FWL & 786' FSL, SW/4 SW/4 Section 5-T10S-R17E SLM</p> <p>14. PERMIT NO. 43-013-30722</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-50972</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME White Mule Springs</p> <p>9. WELL NO. 14-5</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5-T10S-R17E SLM</p> <p>12. COUNTY OR PARISH Duchesne</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5866' GR</p>		

MAY 27 1986
DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <u>Change of Operator</u> <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.)*

The operator of this well is being changed from: AFE Management Limited
372 Bay Street, Suite 208
Toronto, Ontario, Canada M5H 2W9

to: TCPL Resources U.S.A. Ltd.
216 16th Street, Suite 1100
Denver, Colorado 80202

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

SIGNED Owen L. Stone TITLE Operations Engineer DATE 5/16/86

(This space for Federal or State office use)

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

A F E management limited

372 BAY STREET, SUITE 208,
TORONTO, ONTARIO M5H 2W9
(416) 366-4257

RECEIVED
JUN 23 1986

June 18, 1986

DIVISION OF
OIL, GAS & MINING

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
U.S.A.

ATTENTION: MS. ARLENE SOLLIS

Gentlemen:

RE: CERTIFICATE OF DEPOSIT
Wilkins 1-24A5 Well
Duchesne County, Utah

Reference is made to your letter of June 4, 1986, to Mr. Robert Holt of Larsen, Kimball, Parr & Crockett regarding AFE's interest in the captioned well.

This letter shall confirm, as stated in the Settlement Agreement dated May 2, 1986, between TCPL Resources U.S.A. Ltd. and AFE Management, that TCPL has taken over as Operator on the following wells:

Josie 1A-3B5
Wilkins 1-24A5
White Mule Springs 14-5

Josie 1-3B5
Walker 2-24A5
White Mule Springs 21-7

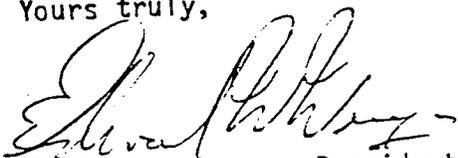
105. 178.
Sec. 5

In addition, as stated in the said Settlement Agreement, and Assignment and Bill of Sale and Conveyance (a copy of which was sent to you by TCPL May 16, 1986), AFE specifically assigned all of its bonds and any collateral associated therewith to TCPL.

This letter shall authorize you to take any action necessary to deliver such bonds and any collateral securing such bonds including, without limitation, that Certificate of Deposit in the amount of \$10,000.00 to TCPL Resources U.S.A. Ltd.

If you have any questions, please advise. Thank you for your immediate attention to this matter.

Yours truly,


Edward W. Wenger, President

cc: Mari Snyder

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other Instructions on
reverse side)

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

POW

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 type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-50972
2. NAME OF OPERATOR Wessely Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 033134
3. ADDRESS OF OPERATOR 216 16th Street, Suite 1100, Denver, Colorado 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 358' FWL & 786' FSL SW/4 SW/4 Section 5-T10S-R17E SLM		8. FARM OR LEASE NAME White Mule Springs
14. PERMIT NO. 43-013-30722	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5866' GR	9. WELL NO. 14-5
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5-T10S-R17E SLM
		12. COUNTY OR PARISH Duchesne
		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"/>	

(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.)*

BLM approval from Jerry Kenczka, 11:00 a.m. 2/6/87.

1. Set 5½" CIBP @ 5250'.
2. Displace hole w/9.4 ppg fresh water mud.
3. Spot 10 sx cement plug on bridge plug.
4. 25 sx plug from 4858' to 4658'.
5. 25 sx plug from 2523' to 2323'.
6. 25 sx plug from 415' to 215'..
7. 25 sx plug from 192' to surface.
8. 25 sx plug between 8 5/8" X 5 1/2" annulus, flushed w/6 bbls mud.
9. Remove casing head, fill hole with cement.
10. Install dry hole marker 2/17/87.

Note: Plugs were tagged and checked - witnessed by Jerry Kenczka & Mark Christensen.

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

SIGNED *Chris P. Slaw* TITLE Sr. Operations Engineer DATE 3/10/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

*See Instructions on Reverse Side

3-30-87
John R. Bay

We are pleased to announce
that effective immediately
TCPL Resources U.S.A. Ltd.
has changed its name to
Wessely Energy Company.

The address and phone
number will remain:
216-16th Street, Suite 1100,
Denver, Colorado, 80202,
(303) 629-7766.

1. AFE #21-7
2. Wilkins #2-24A5
3. " # 1-24(A5)
4. White Mule Springs 14-5
5. Josie #1A-3B5
6. Josie # 1-3B5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to surface or to change the location of a well.
Use "APPLICATION FOR PERMIT" for such proposals.)

MAR 31 1987

5. LEASE DESIGNATION AND SERIAL NO.
U-50972
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
040205

1. OIL WELL GAS WELL OTHER

UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Wessely Energy Company

DIVISION OF
OIL, GAS & MINING

8. FARM OR LEASE NAME
White Mule Springs

3. ADDRESS OF OPERATOR
216 16th Street, Suite 1100, Denver, Colorado 80202

9. WELL NO.
14-5

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

10. FIELD AND POOL, OR WILDCAT
Wildcat

358' FWL & 786' FSL
SW/4 SW/4
Section 5-T10S-R17E SLM

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

Section 5-T10S-R17E SLM

14. PERMIT NO.

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

12. COUNTY OR PARISH

13. STATE

43-013-30722

5866' GR

Duchesne

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(NOTE: Report results of multiple completion on Well
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5. 25 sx plug from 2523' to 2323'.
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9. Remove casing head, fill hole with cement.
10. Install dry hole marker 2/17/87.

Note: Plugs were tagged and checked - witnessed by Jerry Kenczka & Mark Christensen.

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

SIGNED

David L. Stow

TITLE Sr. Operations Engineer

DATE 3/10/87

(This space for Federal or State office use)

APPROVED BY

TITLE

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

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

John R. Buz
4-1-87