

**FILE NOTATIONS**Entered in NID File 

Entered On S R Sheet \_\_\_\_\_

Location Map Pinned 

Card Indexed \_\_\_\_\_

IWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

**COMPLETION DATA:**Date Well Completed 3-31-77

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA 

State of Fee Land \_\_\_\_\_

**LOGS FILED**Driller's Log 

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ 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

2. NAME OF OPERATOR  
 Houston Oil and Minerals Corporation

3. ADDRESS OF OPERATOR  
 1700 Broadway - Suite 504, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 660' FNL and 657' FEL of Section 11, T41S, R7W  
 At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 4 miles south of Glendale, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 657'

16. NO. OF ACRES IN LEASE  
 160

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

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

19. PROPOSED DEPTH  
 9500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6654 (Graded Ground Elevation)

22. APPROX. DATE WORK WILL START\*  
 December 10, 1976



5. LEASE DESIGNATION AND SERIAL NO.  
 U-31342

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 41-11

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 11, T41S, R7W

12. COUNTY OR PARISH  
 Kane

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	300'	300 sx.
15"	9-5/8"	36.0	3000'	2000 sx.
8-3/4"	5-1/2"	17.0	9500'	500 sx.

Set 13-3/8" conductor casing, circulate cement to surface, install BOP's. Drill to 3000' with native mud and set 9-5/8" surface casing with 1-1/4" parasite string; nipple up with 10" Series 1500 double hydraulic ram type BOP and rotating head, with necessary choke manifold. Pressure test to 3000 psi. No high pressures are anticipated, however, the minimum safety requirements for the state of Utah and USGS will be followed.

Drill to approximately 9500' using air as far as possible, then mud up with a low solids, non-dispersed system, utilizing the parasite string (to lighten hydrostatic column and prevent lost circulation). Mud logging and sample analysis will be utilized from surface to TD, with cores and DST's taken where necessary to properly evaluate any potentially productive zones (see attachment for estimated formation tops).

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 Ronald D. Scott TITLE District Drilling Engineer DATE November 24, 1976

(This space for Federal or State office use)

PERMIT NO. 43-025 30015 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

HOUSTON OIL & MINERAL CORPORATION

12 Point Surface Use Plan

for

Well Location

Houston Oil & Mineral Federal #41 - 11

Located In

Section 11, T41S, R7W, S.L.B. & M.

Kane County, Utah

1. EXISTING ROADS

See attached Topographic Map to reach Houston Oil & Mineral, Corp. well location in Section 11, T41S, R7W, S.L.B. & M. The existing route to the proposed well location is a well graded road.

2. PLANNED ACCESS ROAD

See Topographic Map. The proposed access road will be an 18' crown road (9' on either side of the centerline) with drain ditches on each side where needed to handle drainage. Maximum grade on the proposed access road is approximately 3%. The access road is to be constructed of native borrow accumulated during construction. The proposed access road will leave the location site on the southwest side and proceed southwesterly approximately 0.1 mile to the existing improved dirt road. Ground traversed by the access road is vegetated with scrub oak, juniper, and pinion, and low sagebrush and grass. Also a small drainage gulch parallels the proposed access road approximately 100' to the south.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map, there are no other wells within a two mile radius of the proposed well site. (See location plat for placement of Houston Oil and Mineral, Corp. within section.)

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

All production facilities are to be contained within the proposed location site. At the present time there are no other Houston Oil and Mineral, Corp. flow, gathering, injection, or disposal lines within a one mile radius. In the event production is established, production shall be hauled to refinery by truck.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from the Virgin River approximately 4 miles to the north of the location site. The water is to be picked up from the Virgin River on the west side of Glendale, Utah.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time.

7. METHOD FOR HANDLING WASTE DISPOSAL

All garbage and trash accumulated during the development of this well shall be contained in the trash pit shown on the attached location layout sheet and at periodic intervals hauled to the sanitary landfill at Glendale, Utah. When drilling activities have been completed, the rig moved off the

## 7. METHODS FOR HANDLING WASTE DISPOSAL

location, and production facilities set up; all garbage, and trash on the location site shall be cleaned up, and taken care of as stated. All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the north cell of the reserve pit and upon completion of drilling activities buried with a minimum of four feet of cover. A portable chemical toilet will be supplied for human waste (See end paragraph in Item No. 10.)

## 8. ANCILLARY FACILITIES

There will be no ancillary facilities.

## 9. WELL SITE LAYOUT

See attached location layout plat. The B.L.M. District Manager shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

## 10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling activities (see Item No. 9). When all production activities have been completed, the location site, and flowline route will be reshaped to the original contour and (the topsoil on the location only) topsoil spread over the disturbed area. Any drainages re-routed during the construction and production activities shall be restored to their original line of flow. All additional wastes being accumulated during production activities and contained in the reserve pit, shall be buried with a minimum four feet of cover. The location site, and flowline route 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. Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days. The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in the best and most workmanlike manner and in strict conformity with the above mentioned Items No. 7 and No. 10.

## 11. OTHER INFORMATION

The topography of the general area consists of generally rough terrain trending northeast - southwest. Level areas occur at the higher elevations and drainage bottoms throughout the area. Drainages in the area are intermittent in nature running occasionally in the spring time and draining westerly into the annually flowing Virgin River. Soils of this semi-arid area are Straight Cliffs, Sandstone (Upper Cretaceous). The area is vegetated with large juniper and pinion forests, Broken by thickets of scrub oak and sagebrush and grass clearings.

11. OTHER INFORMATION

Vegetation of the area consists of approximately 50% juniper and pinion forest, 35% scrub oak and 10% sagebrush and grasses, and 5% bare earth. The ground in the area is also leased for grazing. Wildlife is sparse; predominantly deer, coyotes, rabbits, and a variety of small ground squirrels and mice. Birds in the area are hawks, finches, ground sparrows, magpies, and jays. The well is located along the top of Glendale Bench. The ridge to the north and south of the location site is vegetated as above stated. The location site itself is on the above said ridge and is vegetated with scattered sagebrush, juniper scrub oak, and grasses. The ground slopes through the location site on approximately a 3% grade. A small wash parallels the south side of the location site. There are no occupied dwellings, or other facilities, including archeological, historical, or cultural sites within any reasonable close proximity of the proposed location site.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Ron Scott  
1700 Broadway, Suite #504  
Denver, Colorado 80203

Business Phone (303) 861-7942

CERTIFICATION

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

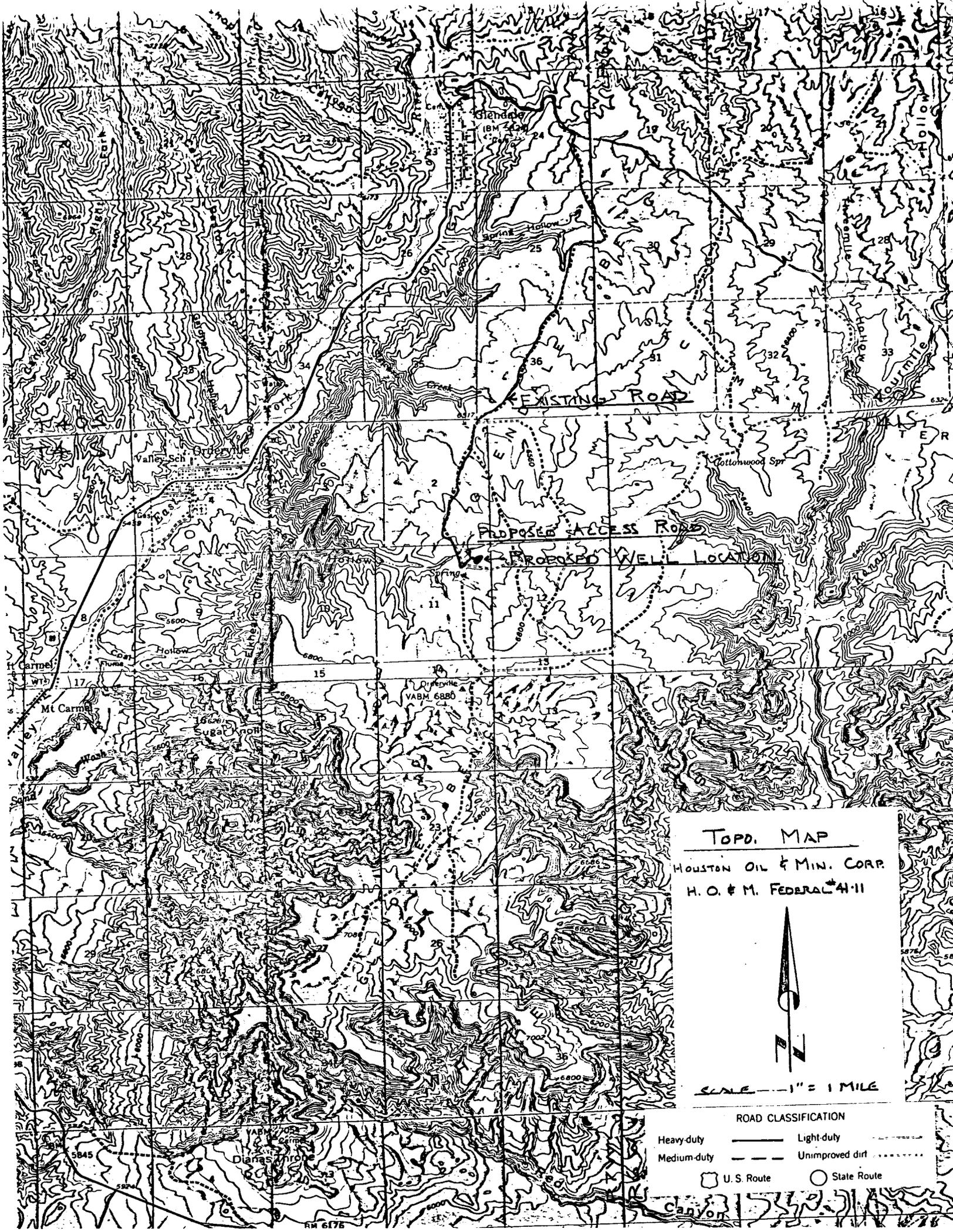
DATE

11/24/76

Ron Scott,

Drly. Supt.

TITLE



TOPG. MAP

HOUSTON OIL & MIN. CORP.

H. O. & M. FEDERAL #4-11

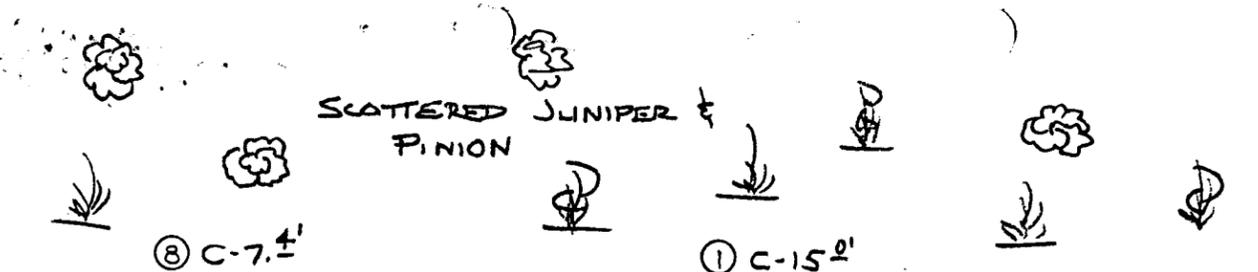


SCALE --- 1" = 1 MILE

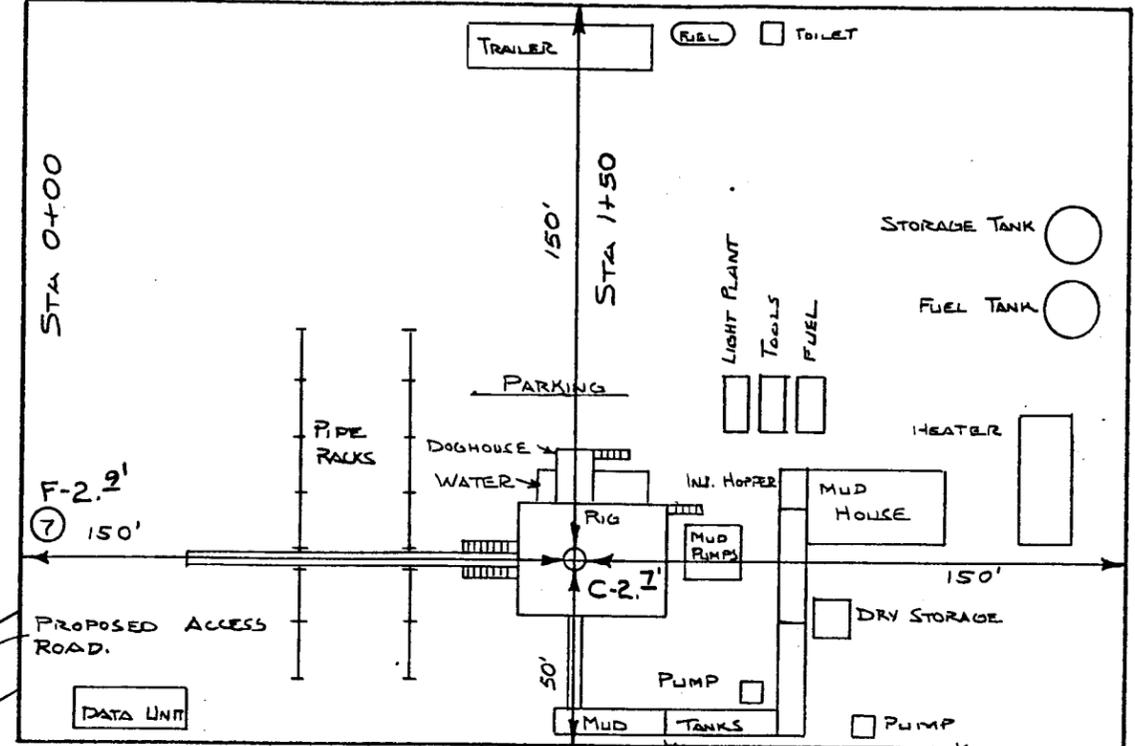
ROAD CLASSIFICATION

- Heavy-duty ——— Light-duty - - - - -
- Medium-duty - - - - - Unimproved dirt . . . . .
- U. S. Route □ State Route ○

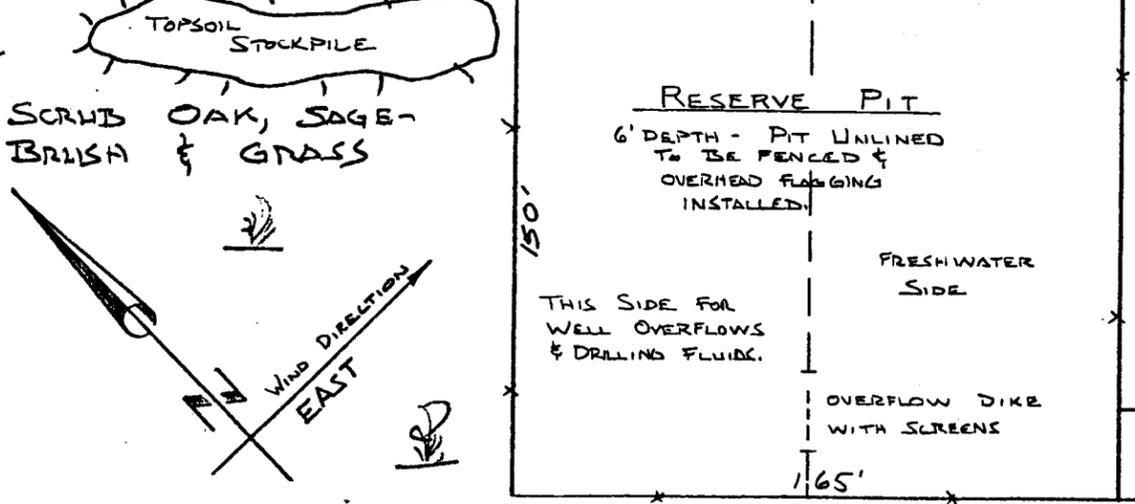
Canyon



⑧ C-7.4'      ① C-15.0'      ② C-15.2'



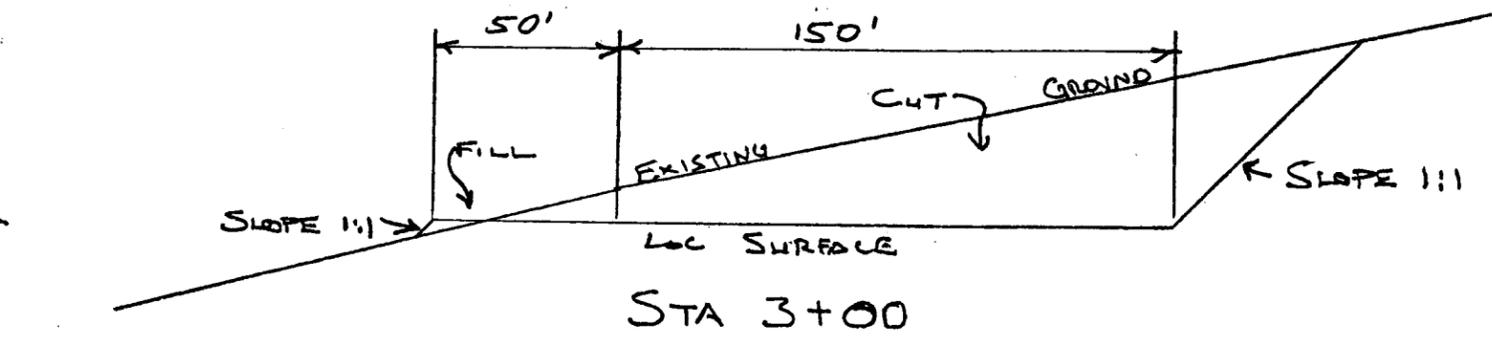
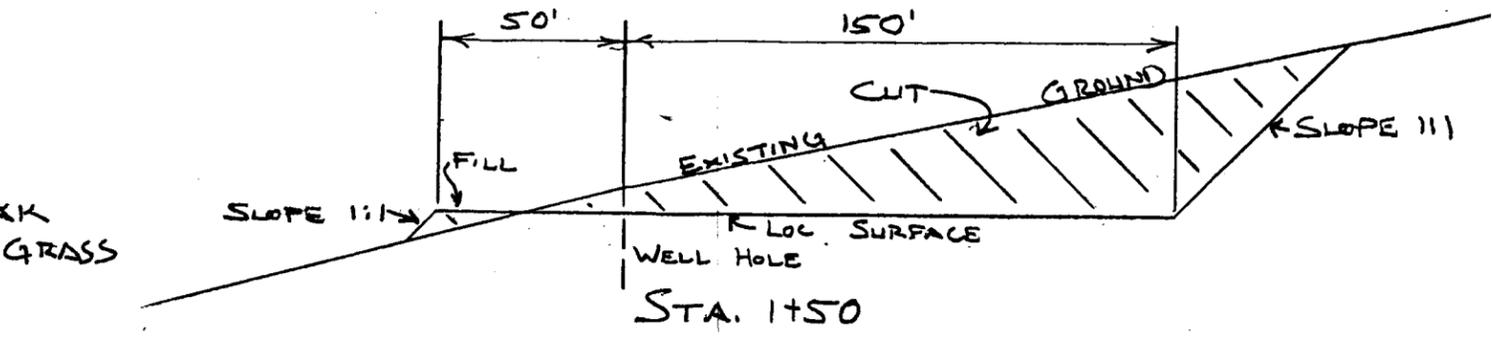
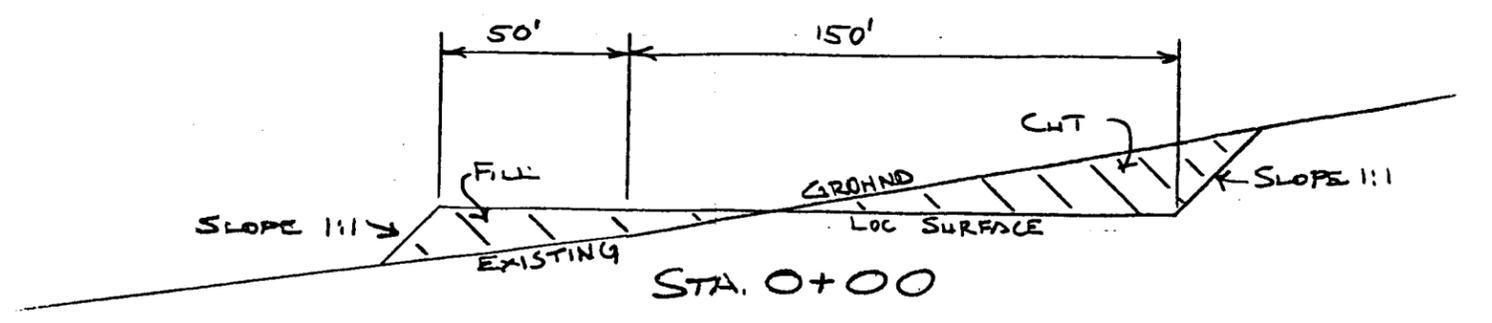
⑦ F-2.2' 150'      ③ C-3.2'      ④ F-1.0'



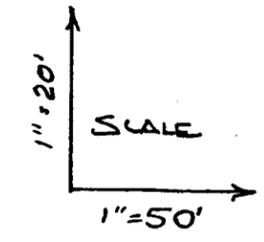
HOUSTON OIL & MINERAL CORPORATION

HOUSTON OIL & MINERAL FEDERAL # 41 - 11

SCALE 1" = 50'



CROSS SECTIONS



SOILS LITHOLOGY AT LOCATION SITE - NO SCALE



APPROX YARDAGES

CUT 13,976 CU. YDS.  
FILL 1,032 CU. YDS.

Ten Point Plan for  
Houston Oil and Minerals Federal 41-11  
Uintah County, Utah

1. Surface formation: Carmel
2. Estimated tops of important geologic markers: See attachment
3. Estimated depths where water, oil, or gas is anticipated:
  - Timpoweap-Kaibab (4055'-oil)
  - Redwall (6830'-oil)
  - Ouray (7670'-oil)
  - Cambrian (7780'-oil)
4. Surface casing: 300' - 13-3/8", 48.0#, H-40, ST&C (new)  
Intermediate casing: 3000' - 9-5/8", 36.0#, K-55, LT&C (new)  
Production casing: 9500' - 7", 26.0#, N-80, LT&C (new)
5. Blowout prevention: Rotating head and two ram type - 14" Shaeffer 1500 Series BOP's. Blind and pipe rams for each size of casing and drill pipe will be provided. Proper fill, kill, and choke manifolding will be utilized. BOP's will be tested to 3000 psi prior to drilling out from under surface casing, and will then be tested as per minimum State and Federal safety requirements (see attachment for BOP stack schematic).
6. The drilling fluid to be utilized for the surface pipe will be a native gel mud. The native gel mud will be utilized as deep as possible until (approximately 2000'-3000') a controlled low solids/non dispersed fresh water mud is employed to TD. After the 9-5/8" casing is set, air will be pumped down the 1-1/4" parasite string (outside of the 9-5/8"). Sufficient quantities of mud and barite will be on location at all times; the nearest stockpoint is Escalante, Utah.
7. Auxiliary equipment to be used as follows:
  - a. kelly cocks
  - b. floats at the bit
  - c. mud monitoring system (when mud is utilized)
  - d. a full opening - quick close drill pipe valve, to be located on the derrick floor at all times.
8. Evaluation: Two fifty foot cores are anticipated in the porous intervals of the Timpoweap-Kaibab at 4055'. Three DST's are probable: Kaibab (4055'), Mississippian (6830'), and Devonian (7670'). A mud logger will be employed from surface to TD to analyze drilling samples. The well will be logged at TD with the following logs:

DIL/LL8	3000'-TD
BHC/Sonic	3000'-TD
CNL/FDC	300'-TD
9. No abnormal pressures or temperatures are anticipated, and no potential hazards such as H<sub>2</sub>S gas are expected. A rotating head will be utilized to divert any drilled gas away from the rig. All necessary safety measures will be followed, in an effort to prevent any possible dangers.
10. Anticipated starting date: December 10, 1976.

FORMATION TOPS:

	<u>Estimated</u>	<u>Sample</u>	<u>Log</u>
<b>Jurassic</b>			
Carmel	Spud	_____	_____
Navajo	250'	_____	_____
<b>Triassic</b>			
Kayenta-Wingate	1100'	_____	_____
Chinle	2395'	_____	_____
Shinarump	2870'	_____	_____
Moenkopi	2885'	_____	_____
<b>Triassic/Permian</b>			
Timpoweap-Kaibab	4055'	_____	_____
<b>Permian</b>			
Toroweap	4500'	_____	_____
Hermit	4950'	_____	_____
Queantoweap	5595'	_____	_____
<b>Pennsylvanian</b>			
Callville	6175'	_____	_____
<b>Mississippian</b>			
Redwall	6830'	_____	_____
<b>Devonian</b>			
Ouray	7670'	_____	_____
<b>Cambrian</b>			
Lynch	7780'	_____	_____
Mauv	8390'	_____	_____
Brite Angel	8900'	_____	_____
<b>Pre-Cambrian</b>			
	9200'	_____	_____

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Houston Oil & Minerals Corp. # 41-11	660' FNL, 657' FEL Sec 11 T41S R7W SUM, Kane Co, UTAH GREL 6654'	U-31342
<p>1. Stratigraphy and Potential Oil and Gas Horizons. <i>Surface rocks are of the Carmel Formation.</i></p>		
<p><i>Frontier Reg. well # 1, Twp 41S R11W Sec. 6, reports the following tops: Jimpowcap - 942', Kaibab - 1163. T.D. 1200'</i></p>		
<p>2. Fresh Water Sands.</p>		
<p><i>WRD report on page 2.</i></p>		
<p>3. Other Mineral Bearing Formations. <i>Well is approximately 2 miles south of a prospectively valuable geothermal resource area.</i> (Coal, Oil Shale, Potash, Etc.)</p>		
<p>4. Possible Lost Circulation Zones. <i>Unknown.</i></p>		
<p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. <i>Unknown.</i></p>		
<p>6. Possible Abnormal Pressure Zones and Temperature Gradients. <i>Unknown.</i></p>		
<p>7. Competency of Beds at Proposed Casing Setting Points. <i>Probably competent.</i></p>		
<p>8. Additional Logs or Samples Needed. <i>None.</i></p>		
<p>9. References and Remarks <i>None.</i></p>		
<p>Date: <i>12-7-76</i></p>		<p>Signed: <i>Ellen Kera</i></p>

12-17-76

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION

#343

ATTACHMENT 2-A

Houston Oil & Minerals  
 # 41-11 NENE  
 Sec 11-41s-7W  
 U-31342  
 Kane Co. Utah  
 BLM - S.P.  
 USGS - Alexander  
 H.O.M. - Scott

- ENHANCES
- NO IMPACT
- MINOR IMPACT
- MAJOR IMPACT

	Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others												
Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks	Operational failure

Land Use	Forestry	NA																
	Grazing	✓	0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Wilderness	NA																
	Agriculture	NA																
	Residential-Commercial	NA																
	Mineral Extraction	NA																
	Recreation	✓	0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Scenic Views	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Parks, Reserves, Monuments	NA																
	Historical Sites	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Unique Physical Features	NA																
	Flora & Fauna	Birds	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Land Animals		✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Fish		NA																
Endangered Species		NONE	KNOWN															
Trees, Grass, Etc.		✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Phy. Charact.	Surface Water	NA																
	Underground Water	?																
	Air Quality	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Erosion	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Other																	
Effect On Local Economy	✓	0						0					0					
Safety & Health	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Others	ORIG - FILE CC - BLM - CEDAR CITY W/O MATRIX REG MGR - DUR. UTAH STATE O-G-M																	

Lease U-31342

Well No. & Location #41-11 WILDCAT SECT. 11, T41S, R7W

KANE COUNTY, UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

HOUSTON OIL AND MINERALS CORPORATION PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 9500 FT. TD, 2) TO CONSTRUCT A DRILL PAD 300' FT. X 200' FT. AND A RESERVE PIT 150 FT. X 165 FT. 3) TO CONSTRUCT 800 FT. X 0 MILES ACCESS ROAD AND UPGRADE FT. X 3 MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

1060' FNL AND 657' FEL OF SECTION 11, T41S, R7W - KANE COUNTY, UTAH

THE DRILL SITE IS LOCATED IN AN AREA USED FOR GRAZING LIVESTOCK, THE VEGETATION CONSISTS OF FAIRLY DENSE SAGE BRUSH WITH OTHER SPECIES OF BRUSH PRESENT IN SMALLER QUANTITIES, SEVERAL PATCHES OF SCRUBB OAK, AND VARIOUS TYPES OF GRASS.

THE GROUND IS MOSTLY A SAND COVERED AREA WITH AN UNDERLAYER OF BROWNISH AND REDDISH COLORED DIRT.

THE GROUND SURFACE IS ROLLING MOLES FROM N/W TO S/E, WITH A GRADUAL SLOP FROM N/E DOWN TO THE S/W.

WATER DRAINAGE IN THE AREA IS SEASONAL.

WILDLIFE CONSISTS OF DEER, SMALL BIRDS + HAWKS, HIGERDS RODENTS, GROUND SQUIRRLS, AND PREDATOR ANIMALS. - THERE ARE NO ENDANGERED SPECIES TO THE BEST OF OUR KNOWLEDGE.

ARCHEOLOGICAL SITES ARE IN THE AREA, HOWEVER ONLY TRACES OF INDIAN ARTIFACTS HAVE BEEN FOUND AT THE SITE, AND PRESENT NO PROBLEM.

ACCESS ROADS ARE AVAILABLE AND ONLY APROX 800' OF NEW ROAD WOULD BE REQUIRED TO REACH THE DRILL SITE.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) THERE IS A SLIGHT POSSIBILITY OF DAMAGE TO ARCHEOLOGICAL sites by Rig Employees AND OTHER ASSOCIATED PERSONNEL

IT IS PROPOSED ~~HOW~~ BY USGS AND BLM. INSPECTORS THAT DAMAGE WOULD NOT BE SUFFICIENT TO CAUSE INTERFERENCE IN THIS DRILLING PROGRAM.

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) NO NEARBY LOCATIONS COULD BE FOUND THAT WOULD justify THAT ACTION.

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

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

Date Inspected 11-17-1976

Inspector *John M. Davis*

*E. W. ...*  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

Depths of fresh-water zones:

E. G. Stubbs, Virgin No. 1

620' fsl, 578' fw1, lot 7, T. 41 S., R. 11 W., SLBM, Washington Co. Utah  
Elev. 3,800 ft GL, test to 2,500 ft

<u>Stratigraphic unit</u>	<u>Tops, approx.</u>	<u>Quality of water</u>
Moenkopi Fm	surface	useable/saline
Kaibab Ls	1,160 ft	useable (?)
Toroweap Fm	1,500	useable (?)
Coconino Ss	1,900	useable (?) / saline
Pennsylvanian	2,000	saline/brine

Water wells in the vicinity of the proposed test do not exceed 400 ft in depth. The chemical quality of water from the Kaibab Ls and Toroweap Fm is not known, but may be useable. Aquifers of Pennsylvanian age probably contain saline water or brine.

USGS - WRD  
2-17-71

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: Nov. 29-  
Operator: Amstar Oil & Mineral  
Well No. Federal 41-11  
Location: Sec. 11 T. 41N R. 7W, County: Garfield

File Prepared	<input checked="" type="checkbox"/>	Entered on N.I.D.	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Completion Sheet	<input checked="" type="checkbox"/>

Checked By:

Administrative Assistant: [Signature]  
Remarks: OB

Petroleum Engineer: \_\_\_\_\_  
Remarks: \_\_\_\_\_

Director: [Signature]  
Remarks: \_\_\_\_\_

Include Within Approval Letter:

Bond Required       Survey Plat Required   
Order No. \_\_\_\_\_       Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographical 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



HOUSTON OIL & MINERALS CORPORATION



November 24, 1976

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

re: *Fed.* State 41-11  
Section 11, T41S, R7W  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed is two copies of the application to drill the above mentioned well.  
If there are any further questions or requests, please advise.

Respectfully yours,

Ronald D. Scott  
District Drilling Engineer

RDS/gs  
Enclosures 2

**November 30, 1976**

**Houston Oil & Minerals Corp.  
1700 Broadway  
Suite 504  
Denver, Colorado 80290**

**Re: Well No. Federal 41-11  
Sec. 11, T. 41 S, R. 7 W,  
Kane County, Utah**

**Gentlemen:**

**Insofar as this Division is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, 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:**

**PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771**

**Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.**

**The API number assigned to this well is 43-025-30015.**

**Very truly yours,**

**DIVISION OF OIL, GAS, AND MINING**

**CLSON B. FREIGHT  
Director**

**/SW  
cc: U.S. Geological Survey**

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  
Houston Oil and Minerals Corporation

3. ADDRESS OF OPERATOR  
1700 Broadway - Suite 504, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
660' FNL and 657' FEL of Section 11, T41S, R7W  
 At proposed prod. zone  
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
4 miles south of Glendale, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
657'

16. NO. OF ACRES IN LEASE  
160

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

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

19. PROPOSED DEPTH  
9500'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6654 (Graded Ground Elevation)

22. APPROX. DATE WORK WILL START\*  
December 10, 1976

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	300'	300 sx.
15"	9-5/8"	36.0	3000'	2000 sx.
8-3/4"	5-1/2"	17.0	9500'	500 sx.

Set 13-3/8" conductor casing, circulate cement to surface, install BOP's. Drill to 3000' with native mud and set 9-5/8" surface casing with 1-1/4" parasite string; nipple up with 10" Series 1500 double hydraulic ram type BOP and rotating head, with necessary choke manifold. Pressure test to 3000 psi. No high pressures are anticipated, however, the minimum safety requirements for the state of Utah and USGS will be followed.

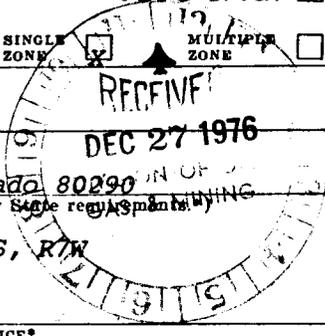
Drill to approximately 9500' using air as far as possible, then mud up with a low solids, non-dispersed system, utilizing the parasite string (to lighten hydrostatic column and prevent lost circulation). Mud logging and sample analysis will be utilized from surface to TD, with cores and DST's taken where necessary to properly evaluate any potentially productive zones (see attachment for estimated formation tops).

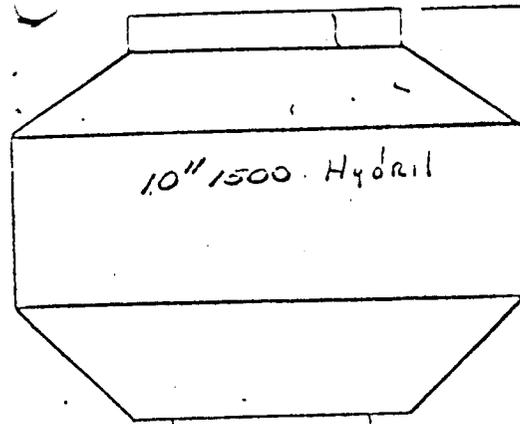
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED Ronald D. Scott TITLE District Drilling Engineer DATE November 24, 1976  
 (This space for Federal or State office use)

PERMIT NO. (Orig. Sgd.) E. W. Gayer APPROVAL DATE DEC 22 1976  
 APPROVED BY DISTRICT ENGINEER TITLE DISTRICT ENGINEER DATE DEC 22 1976  
 CONDITIONS OF APPROVAL, IF ANY:

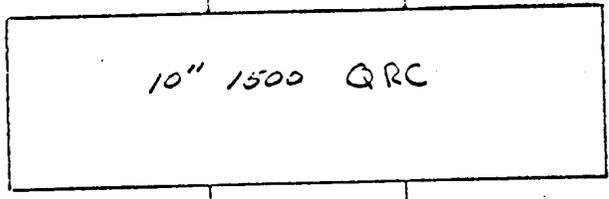
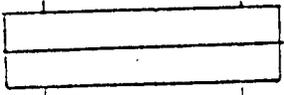
Approval Notice - UTAH STATE O-G-M





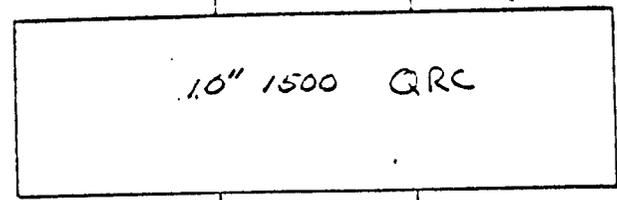
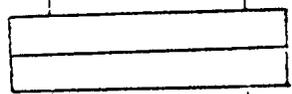
10" 1500 Hydral

17.50"



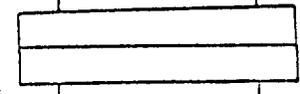
10" 1500 QRC

36"



10" 1500 QRC

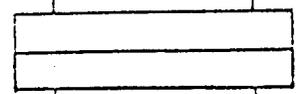
36"



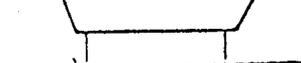
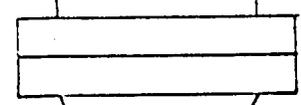
KILL



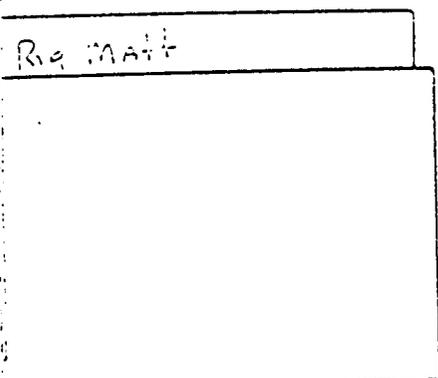
CHOKE  
24"



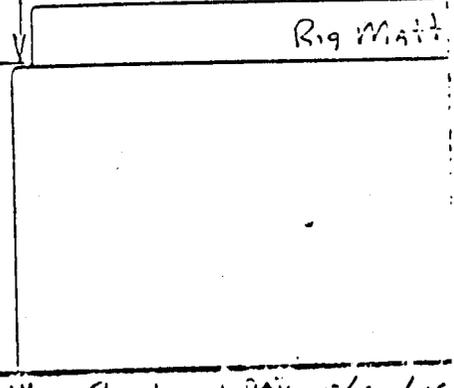
Rig Matt



11.96'



Rig Matt



10" 5000 Stack

LOFFLAND BROTHERS CO.  
TULSA, OKLAHOMA

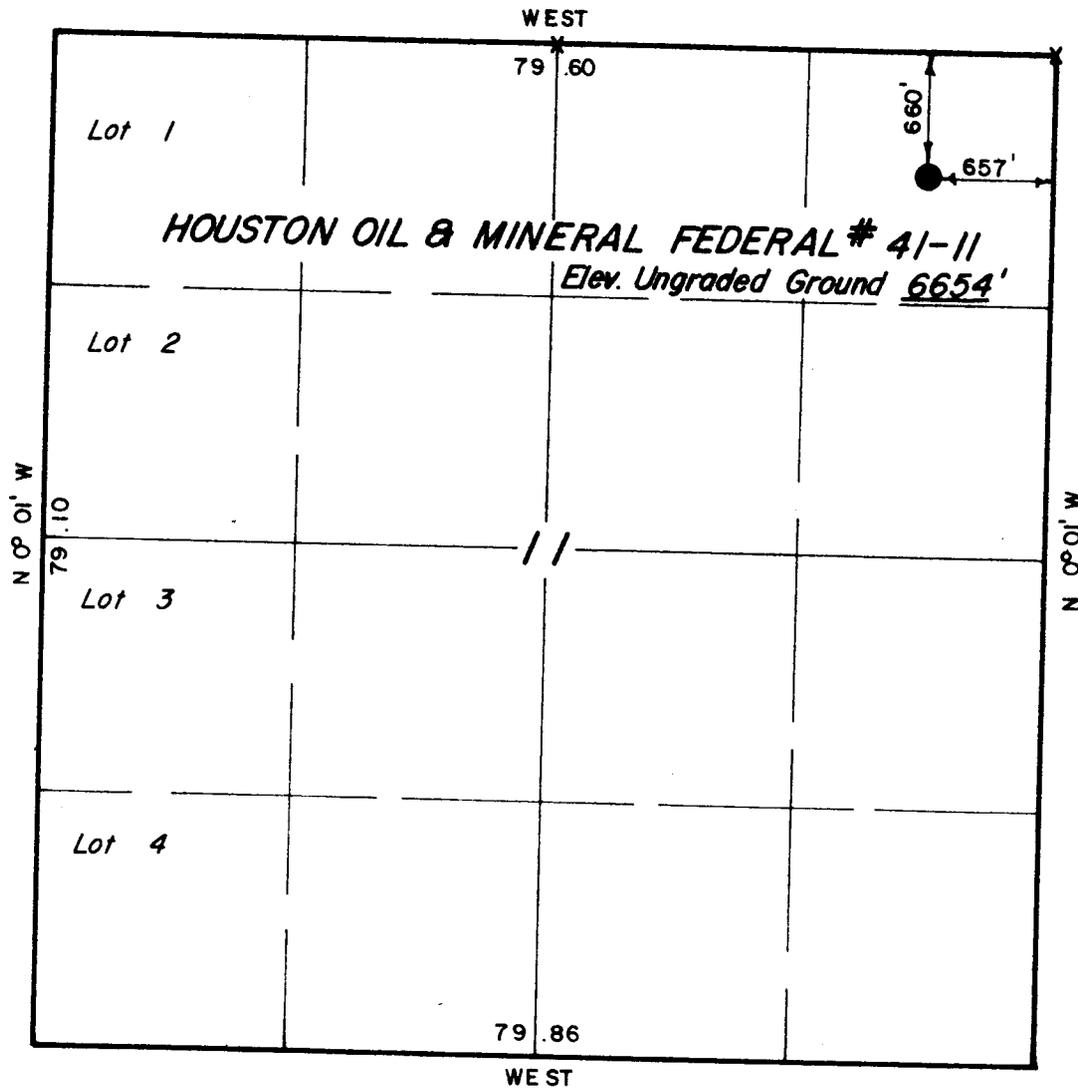
BY RON DATE 5/20/16  
NO. Rig 184

T41S, R7W, S.L.B. & M.

PROJECT

HOUSTON OIL & MINERAL CORPORATION

Well location, Houston Oil & Mineral Federal #41-11,  
located as shown in the NE1/4 NE1/4 Section 11,  
T41S, R7W, S.L.B. & M. Kane County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Robert Marshall*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

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

X = Section corners located.

SCALE 1" = 1000'	DATE 11/17/76
PARTY N. M. MM. HM. BW.	REFERENCES R.S. GLO PLAT
WEATHER COLD & WET	FILE H. O. & M. CORP.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER U-31342 .....  
UNIT .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Kane Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1977,

Agent's address 1700 Broadway, Suite 504, Denver, Colorado 80290 Company Houston Oil and Minerals Corporation  
Signed Ronald D. Scoa

Phone (303) 861-7942 Agent's title Division Drilling Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE/NE	41S	7W	41-11	N/A	N/A	N/A	N/A	N/A	none	Circulating and conditioning mud to log at TD of 9960'.

435-673-7505  
Julie Brinkerhoff  
T. 41S. S, 11 R. 7W.  
Julie Brinkerhoff  
(435) 673-7044

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;                      runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**CIRCULATE TO:**

DIRECTOR-----  
PETROLEUM ENGINEER-----  
MINE COORDINATOR-----  
ADMINISTRATIVE ASSISTANT-----  
ALL-----  
RETURNED BY Kathy  
MAILING

April 8, 1977

Memo to File:

Re: Houston Oil & Minerals  
Federal 41-11  
Sec. 11, T. 41 S., R. 7 W.  
Kane County, Utah

Telephonic approval was given to Mr. Mike Roberts on the 1st of April 1977, to plug and abandon this well. The plugging procedure is one in which the U.S.G.S. has recommended and is acceptable to this Division.

The pertinent information is as follows:

Carmel.....	Surface
Navajo.....	270'
Chinle.....	3,320'
Shinarump.....	3,810'
Moenkopi.....	3,845'
Kaibab.....	5,124'
Toroweap.....	5,497'
Coconino.....	5,900'
Pakoon.....	6,540'
Callville.....	7,145'
Redwall.....	9,697'
Devonian.....	8,595'
Cambrian.....	8,697'
Bright Angel.....	9,902'
Total Depth.....	9,954'

No shows of oil, gas, or water were encountered while drilling this hole. The surface pipe has been set @ 2,850', and the well bore plugs are:

1. 6800'-6500'
2. 5050'-4900'
3. 2960'-2760' (Half in and half out of surface pipe)
4. 120'-Surface

A dry hole marker will be erected and the location will be cleaned, graded and put in such a shape as it will be necessary to satisfy the BLM.

PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

/tlb

cc: U.S. Geological Survey



HOUSTON OIL & MINERALS CORPORATION

April 12, 1977

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

Re: Federal 41-11 Stewart Creek  
NE NE Sec. 11-T41S-R7W  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of the Lessee's Monthly Report of Operations for the above mentioned well. Please excuse the delay in submitting this report at the proper time.

If there is any further information you require, please do not hesitate to contact this office.

Respectfully yours,

*Ronald D. Scott*

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosure



HOUSTON OIL & MINERALS CORPORATION

April 13, 1977

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

Re: Plug and Abandonment forms  
HOM Federal 41-11  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of each of the following P&A forms for the above mentioned well: 1) sundry notice reporting the intention to abandon the well, 2) subsequent report of abandonment, 3) Well Completion or Recompletion Report and Log, and (4) Report of Water Encountered During Drilling.

Also enclosed is one set of the electric logs run on this well.

If there are any further questions or information you desire, please do not hesitate to contact this office.

Respectfully yours,

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-31342

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

41-11

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 11, T41S, R7W

**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 Plug and Abandonment

2. NAME OF OPERATOR  
Houston Oil & Minerals Corporation

3. ADDRESS OF OPERATOR  
1700 Broadway, Suite 504, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
660' FNL and 657' FEL of Sec. 11, T41S, R7W

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6654' (GR)

12. COUNTY OR PARISH Kane 13. STATE Utah

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)   
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.)\*

Subject well plugged and abandoned as follows:

- #1: 6800'-6500' (125 sx. Class "B")
- #2: 5050'-4900' (500 sx. Class "B")
- #3: 2960'-2760' (100 sx. Class "B")
- #4: 120'-0' (50 sx. Class "B")

NOTE: Displaced all plugs with 8.4 lb/gal low solids/non dispersed mud; let #3 plug set up before placing surface plug - hole stood full. Installed dry hole marker.

18. I hereby certify that the foregoing is true and correct  
SIGNED Ronald D. Scott TITLE Division Drilling Engineer DATE April 13, 1977  
Ronald D. Scott  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN DUPLICATE

(See other In-  
structions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R355.6.

**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  
*Houston Oil & Minerals Corporation*

3. ADDRESS OF OPERATOR  
*1700 Broadway, Suite 504, Denver, Colorado 80290*

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface  
*660' FNL and 657' FEL of Section 11, T41S, R7W*  
At top prod. interval reported below

At same depth  
same

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED  
*12-23-76*

12. COUNTY OR PARISH  
*Kane* 13. STATE  
*Utah*

15. DATE SPUDDED *1-10-77* 16. DATE T.D. REACHED *3-31-77* 17. DATE COMPL. (Ready to prod.) *N/A* 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* *6654' (GR)* 19. ELEV. CASINGHEAD *N/A*

20. TOTAL DEPTH, MD & TVD *9960'* 21. PLUG, BACK T.D., MD & TVD *surface* 22. IF MULTIPLE COMPL., HOW MANY\* *N/A* 23. INTERVALS DRILLED BY *→* ROTARY TOOLS *yes* CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
*N/A* 25. WAS DIRECTIONAL SURVEY MADE  
*no*

26. TYPE ELECTRIC AND OTHER LOGS RUN  
*DIL/LL8, BHC/Sonic* 27. WAS WELL COBED  
*yes*

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<i>9-5/8" x 1 1/2"</i>	<i>36.0 x 2.2</i>	<i>2852</i>	<i>14-3/4"</i>	<i>500 sx. + 18% gel +200 sx. Class "G" +2% CaCl. Pumped 200 sx. Class "G" into annulus at surface</i>	<i>none</i>

29. LINER RECORD

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

30. TUBING RECORD

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

31. PERFORATION RECORD (Interval, size and number)  
*N/A*

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<i>N/a</i>	

33.\* PRODUCTION

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

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

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
*N/A* TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS  
*Logs*

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

SIGNED *Ronald D. Scott* TITLE *Division Drilling Engineer* DATE *April 13, 1977*  
*Ronald D. Scott*

\*(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.	GEOLOGIC MARKERS	
				MEAS. DEPTH	TRUE VERT. DEPTH
Toroweap	5725'	5972'	Cored - Rec. 47' 12' LS MIC XLN ABD Calcite EXTALS 5-20% porosity WET  35' Dolomite & SS VFG 1-15% porosity also water wet  NO TESTS	Navajo Chinle Shinarump Moenkopi Virgin LS. Timpoweap Kaibab Toroweap Coconino Queantoweap Permo Penn Mississippian Devonian Cambrian Mauv Bright Angel	276 3285 3810 3891 4746 5070 5134 5497 5914 6481 7110 7685 8583 8768 9256 9730

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 and Number Houston Oil & Minerals Federal 41-11

Operator Houston Oil & Minerals Corporation

Address 1700 Broadway, Suite 504, Denver, Colorado 80290

Contractor Loffland Brothers Company

Address 1216 E. Bloomfield Road, Farmington, New Mexico 87401

Location NW 1/4, NW 1/4, Sec. 11; T. 41 N; R. 7 E; Kane County  
S W

Water Sands:

	<u>Depth:</u>		<u>Volume:</u>		<u>Quality:</u>
	From-	To-	Flow Rate or Head -		Fresh or Salty -
1.	<u>None encountered that would cut mud or flow to surface</u>				
2.	_____				
3.	_____				
4.	_____				
5.	_____				

(Continue on Reverse Side if Necessary)

Formation Tops:

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U  
p1  
SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-31342

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

-

8. FARM OR LEASE NAME

Federal

9. WELL NO.

41-11

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 11, T41S, R7W

14. PERMIT NO.

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

6654' (GR)

12. COUNTY OR PARISH  
Kane

13. STATE  
Utah

18. 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.)\*

Well to be plugged as per verbal orders from Ed Guynn (USGS, Salt Lake City), received at 4:00 pm, April 1, 1977:

SEE ATTACHEMENT.

Casing to be cut down to ground level and dry hole marker installed.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: April 22, 1977

BY: Rh Ansell

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

SIGNED

Ronald D. Scott  
Ronald D. Scott

TITLE

Division Drilling Engineer

DATE

April 13, 1977

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

LAND OFFICE Salt Lake City  
LEASE NUMBER U-31342  
UNIT \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Kane Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1977.

Agent's address 1700 Broadway, Suite 504 Company Houston Oil & Minerals Corporation

Denver, Colorado 80290 Signed [Signature]

Phone (303) 861-7942 Agent's title Division Drilling Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE/NE	41S	7W	41-11	N/A	N/A	N/A	N/A	N/A	none	Plugged and abandoned well as follows:  6500-6800 (125 sx.) 4900-5050 (500 sx.) 2760-2960 (100 sx.) 0-30' (10 sx.)  Installed dry hole marker.

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.