# SUBMIT IN TRIPLICATE\*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on

DURANGO, COLO.

UNITE	D 9	STATE	ES
DEPARTMENT	OF	THE	INTERIOR

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.				
GEOLOGICAL SURVEY							NM-A 27870			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
DRILL I DEEPEN DEEPEN PLUG BACK TO UNIT AGREEMENT NAME							LEASE			
WELL X	GAS U	OTHER	SINGLE X MULTIPLE S. FARM OR LEASE NAME ZONE							
2. NAME OF OPERATOR  Houston Oil & Minerals Corporation								Booth Drought  9. WELL NO.		
3. ADDRESS OF OPERATOR								2		
Suite 504, 1700 Broadway, Denver, Colorado 80203  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							203	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL ( At surface	Report locat							Wildcat- Lenny Comias		
990 FN	<b>ւ,</b>	990	' FEL, SE	C 1,	T15N,	R4W		11. SEC., T., R., M., OR E AND SURVEY OR AR	EA	
At proposed prod. zone SEC. 1, T15N, R4V						5N, R4W				
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®							12. COUNTY OR PARISH	13. STATE		
46 miles	46 miles southwest of Cuba, N.M. Sandoval N.M.							N.M.		
15. DISTANCE FROM PROPUSED*  LOCATION TO NEAREST  16. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED  TO THIS WELL										
PROPERTY OR LEASE	PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)  990'  40							<del>-</del> '		
18. DISTANCE FROM PROPOSED LOCATION*  TO NEAREST WELL, DRILLING, COMPLETED,										
or applied for, on this lease, ft. 8000' Rotary										
21. ELEVATIONS (Show whether DF, RT, GR, etc.)							22. APPROX. DATE WORK WILL START*			
6195' Ungraded Ground Elevation   February 20, 1977						0, 1977				
PROPOSED CASING AND CEMENTING PROGRAM										
SIZE OF HOLE	SIZE	OF CASING	WEIGHT PER FOOT		SETTING	DEPTH	1	QUANTITY OF CEMENT		
17 1/2"	13	3/8"	54.5#		150'		150	150 sacks		
12 1/4"	9	5/8"	32.3#		12	00'	300	300-400 sacks		
8 3/4"	5	1/2"	15.5 & 1	7.0#	80	00'	100	0+ sacks		
Operator proposes to drill to 8000' to test Pennsylvanian formation. A 13 3/8" Conductor string will be set at 150' and cemented to surface.										
BOP's will be installed and tested and a 12 1/4" hole will be drilled with										
mud to 1200' where 9 5/8" Casing will be set and cemented. The BOP stack										
consisting of a Series 900 (3000 psi) double gate and a Series 900 Hydril										
plus the manifold will be tested before drilling 8 3/4" hole to approxi-										
mately 8000'. A low solids-non dispersed mud will be used. Mud logging										

and sample analysis will be utilized from base of Conductor pipe to TD with Cores and DST's taken where necessary for evaluation. No abnormal pressures or temperatures are anticipated and the well should take less than 40 days to drill. The surface formation is Gallup. Other estimated formation tops are: Dakota 1100', Morrison 1150', Entrada 2025', Chinle 2250', San Andres 3700', and Pennsylvanian 5750'. The well is located on the Ignacio Chavez Land Grant.

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, it way.	
SIGNED - J. Chench! Sul	Area Manager  THILE Minerals Management Inc. MATE February 9, 1977
(This space for Federal or State office use)	
PERMIT NO.	APPROVAL DATE
APPROVED BY	THE SECTION RECEIVED
Alal	FEB 1 0 1977
*See	Instructions On Reverse Side U. S. GEOLOGICAL SURVEY

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Spirator i.ease Well No. Houston Oil & Minerals Booth-Drought 2 Unit Letter Section Township County 15N ЦW Sandoval Actual Footage Location of Well: 990 feet from the feet from the East line and line Ground Level Elev. Producing Formation Dedicated Acreage: 40 Wildcat 6195 Pennsylvanian 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 9901 Position Area Manager Company Minerals Management Ind 9, 1977 February Sec 1 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Bebruary 8 FEB 1 0 1977 U. S. GEOLOGICAL SURVEY DURANGOL COLO Fred B Certificate No.

330

660

1320 1650

2310

3950



DEVELOPMENT PLAN FOR SURFACE USE
HOUSTON OIL AND MINERALS CORPORATION

BOOTH DROUGHT WELL NO. 2

990' FNL and 990' FEL

SECTION 1, T15N, R4W

SANDOVAL COUNTY, NEW MEXICO

# 1. Existing Roads

See attached Cabazon Quadrangle map showing directions from New Mexico State Highway 44 to the well location. The road is good with only minor repairs required at several cattleguard approaches.

## 2. Planned Access Road

See attached topographic map. The proposed access road leaves the main road as shown in Section 31, T16N, R3W, proceeding along an existing trail approximately 1/2 mile to the well location. The trail will be improved and water bars will be installed where necessary for adequate drainage.

#### 3. Location of Existing Wells

There are no other known wells within the immediate area.

#### 4. Location of Production Facilities

All production facilities (tank batteries, flowlines, treatment equipment) are to be initially contained within the proposed location site.

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# 5. Location & Type of Water Supply

Arrangements for water for drilling purposes will be made with the Bureau of Land Management to use water from a well located in Section 36, T16N, R4W.

## 6. Source of Construction Materials

All construction materials for this location and access road are to be borrowed materials accumulated during construction of the location site and access road. No additional construction material is anticipated at this time.

#### 7. Methods of Handling Waste Disposal

All garbage and trash that can be burned shall be burned. All unburnable trash will be contained in a trash pit and covered with a minimum of 4' of cover. All production waste such as cuttings, chemicals, overflows of oil, water and drilling fluids, shall be contained in the reserve pit and on completion of drilling activities buried with a minimum of 4' of cover. The reserve pit will be fenced until cleanup operations are commenced. A portable toilet will be provided for human waste.

# 8. Ancillary Facilities

There are no ancillary facilities planned for this location.

## 9. Well Site Layout

See attached location layout plat. A 7'-8' cut will be required on the west edge of the location.

# 10. Plans for Restoration of the Surface

Cleanup of the well location will commence immediately following the removal of the drilling equipment. The reserve pit will be fenced until restoration operations are commenced. The well location will be returned to approximate natural contour and the access road will be returned to original contour if the well is not productive. Both the road and location will be restored and reseeded in accordance with BLM specifications. Full restoration activities will begin within 90 days after completion of the well and reseeding will be done at the time as directed by the BLM.



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#### 11. Other Information

Impact on the environment will be minimal. Although topography in the Area is fairly rugged, as shown on the attached topographic map, the location is readily accessable with the drillsite located on the side of a slightly sloping (6%) hill. Juniper trees are generally sparse and only a few will be removed at the wellsite. Vegetation is primarily sagebrush and grasses. The proposed wellsite is located on the Ignacio Chavez Grant.

#### Lessee's or Operator's Representative 12.

Mr. Ron Scott 1700 Broadway, Suite 504 Denver, Colorado 80203 Business Phone: (303) 861-7942

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Minerals Crop. and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

2-9-77

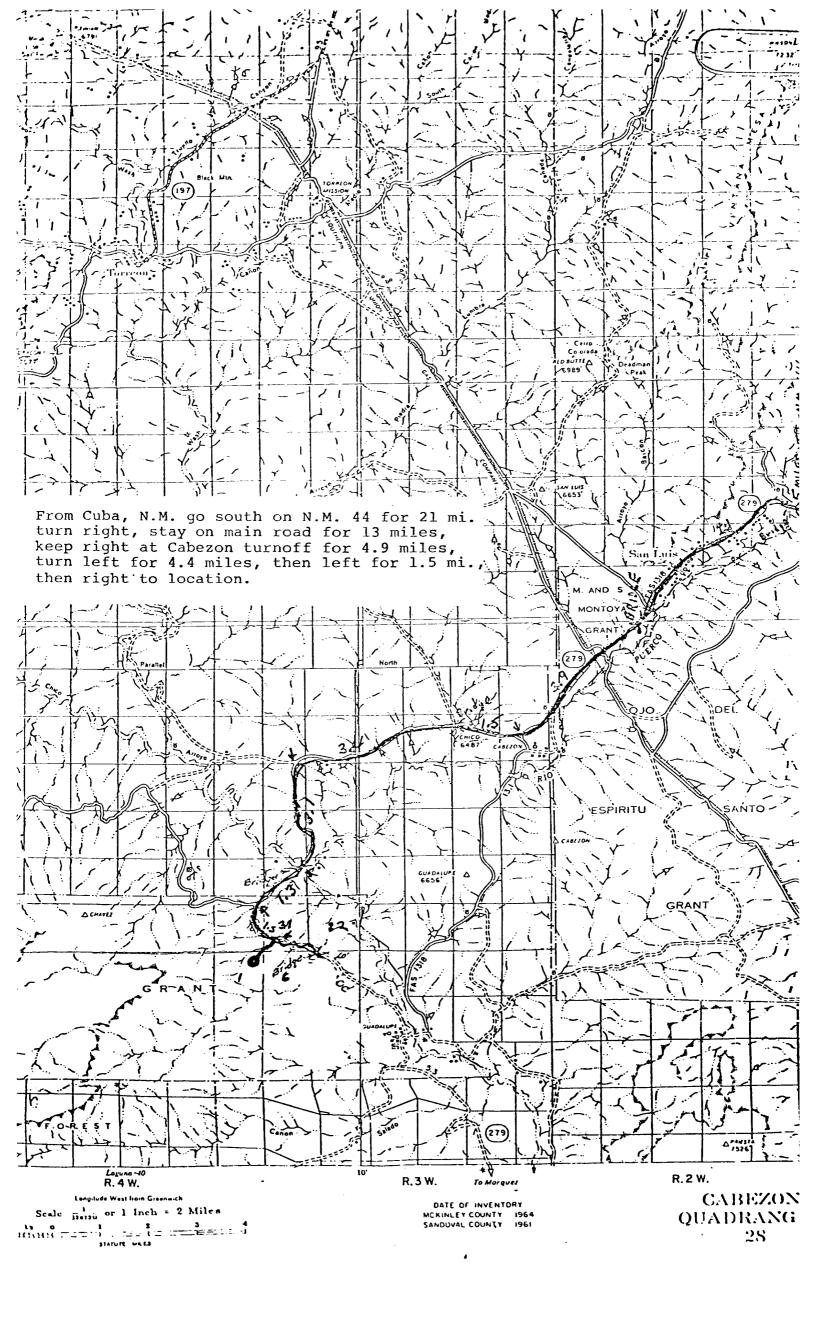
J. Arnold Snell

Area Manager

Minerals Management Inc.

J. auch Snell

DIAGRAM OF WELL LOCATION
AND DRILLING RIG LAYOUT



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