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United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U Artesia, New Mexico 88210

June 22, 1973

NOTICE

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON FEDERAL OIL AND GAS LEASES IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

- 1. After setting the <u>solution</u> casing string and before drilling into the <u>formation</u>, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.
- 2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.
- 3. A drill string safety value in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.
- 4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.
- 5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

drilling into the <u>Management</u> and used until production casing is ren and cemented. Monitoring equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
- 7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.

- Amar James A. Knauf

District Engineer

Lease No. Well TESOR HUBER 29 Drillsite 2080/5 29-205-24E Depth 400 Approved AUGUST 31, 1973

MEXICO OIL CONSERVATION COMMISE A WELL LOCATION AND ACREAGE DEDICATION PLAT

• ...•

Form C-102 Supersedes C-128 Effective 1-1-65

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 workin 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? Yee Not Yee Not If answer is "no;" list the owners and tract descriptions which have actually been consolidated. (Use reverse side or this form if accessery.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forceed-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis size. Image: All the owner is a final train one of the train and the more interests, has been approved by the Commis size of more interests of a Romediage and belief. Image: All the owner is a non-standard unit, eliminating such interests, has been approved by the Commis size of more interesting and belief. Image: All the owner is a non-standard unit, eliminating such interests, has been approved by the Commis size of more interesting and belief. Image: All the owner is a non-standard unit, eliminating such interests, has been approved by the Commis size of more interesting and belief. Image: All the owner is a non-standard unit, eliminating such interests, has been approved by the formation constrained and thend in the more and and the stand of the series of more interesti			All distances must be f	rom the suter boundaries of	the Section.	• · · · · · · · · · · · · · · · · · · ·
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Registered Professional Engineer and/or Land Surveyor		670 14-1-0-			rained he best of m Name R. H. D Position Directo: Company Tesoro Date August i hereby shown of notes of under my is true knowledg	certify that the information con- rein is true and complete to the y knowledge and belief. <u>Unman</u> erman r of Production Adm. Petroleum Corporation 23, 1973 affil That the interlocation this plat was placed from field actual sub-up mode by me or supervision, and that the same and correct to the best of my re and belief.
0 330 660 '80 1320 1680 1980 2310 2640 2000 1800 1000 800 0 575					and/or Lan	d surveyor

August 23, 1973

Mr. Jomes Knauf U.S.G.S. Post Office Draver U Artesis, New Mexico 88210 - Re: Application to drill Federal Lands Section 29-20S-24E, Eddy County, New Mexico.

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Dear Mr. Knauf:

Attached hereto in quintuplicate is Form 9-331C, Application to Drill the subject well together with related plat.

The environmental requirements currently in effect for drilling on Federal and/or Indian lands are covered by the following:

- 1. Indicate existing roads: See attached U.S.G.S. topographic map of srea.
- 2. Planned access road: See attached U.S.G.S. topographic map of area.
- 3. Location of existing wells: None.
- 4. Lateral roads to well locations: See attached U.S.G.S. topographic map of area.
- 5. Location of tank betteries and flow lines: The location of the tank battery will be adjacent to the well location. The flow lines have not been indicated, but would connect the well with tank battery facilities approximately 150' from the well head. Sales line connections for oil and/or gas will be determined when purchaser contracts are made.
- 6. Location and type of water supply: Water supply vill be obtained from the round tank well approximately ½ mile SE of the proposed location.
- 7. Methods for handling waste disposal: Drill waste will be hauled using available commercial haulers in a manner acceptable to U.S.G.S.
- 8. Location of camps: None.

<u>د ر</u>يد ا

- 9. Location of sir strips: Hone.
- Rig layout, mud taaks, pits, etcetera: See attached disgram of Marcum Drilling Company, Rig \$6.

Mr. James Knouf August 23, 1973

Page 2

- 11. Plans for restoration of the surface: All attempts will be made to restore the original contours of the drilling site and the location re-seeded as required.
- 12. Additional information: A detailed mud program and blowout preventer diagram are also attached.

If any additional information is desired, please cell the undersigned at this number: (512) 824-0261, extension 227.

Yours very truly,

Original Signed by R. H. Denman

R. H. Denman Director of Production Administration . **.** .

Attachments - 6

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RHD: dh

A DIVISION OF DRESSER INDUSTRIES

Mud Supply, Inc.

9. C. Box 1704 Midland, Texas 7**9**701

August 6, 1973

CompanyTesoro Petroleum Corp.LocationSE/4, Sec. 29, T-20-S, R-24-EWell NameTesoro #1, Huber "29" FederalCountyEddy County, New Mexico

DRILLING DEPTHS AND MUD PROPERTIES

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0' - 350'	Spud Mud		
350' - 1800'	Viscosity Lost-Circulation Material	-	40 - 50 sec/1000cc 30 lb/bbl.
Χ.	The above properties are ne the event of bad lost circul		in
1800' - 5500'	Viscosity Weight Filtrate	- - -	28 – 30 sec/1000cc 8.4 – 8.5 lbs/gal. No Control
5500' - 7000'	Viscosity Weight Filtrate Ph	-	38 - 42 sec/1000cc 8.6 - 8.8 lbs/gal. 20cc 11.0 - 11.5 AUG27 1973
7000' – TD	Viscosity Weight Filtrate Ph L. C. M.		$\begin{array}{llllllllllllllllllllllllllllllllllll$

Phone 945 682=4571

MARCU- Deilling Company Rig No. 6 Blowpreventer Assembly API BUL D-13



ARRANGEMENT RdA (G optionalw/operator) API CLASS 5M-10" w/ 4" CHOKE MANifold



