SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

	30-043-20327
l	5. LEASE DESIGNATION AND SERIAL NO.
	Nm-0R175

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b. Type of well				TEATE TO METERS	PLE D		<u> </u>		
OIL XX GAS WELL XX OTHER dual 2. NAME OF OPERATOR				INGLE MULTI		_1	8. FARM OR LEASE NAME		
						Navajo "KY"			
	CORPORATION					9, WELL NO.			
3. ADDRESS OF OPERATOR						1			
P. O. Box	10. FIELD AND POOL, OR WILDCAT Rusty Menefee & Chacra								
-At surface		id in accordance wi	ith any State requirements.*)			Rusty Menefee & Chacra 4			
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10 miles	east of Counse	rlors				Sandova1	NM		
15. DISTANCE FROM PROPU LOCATION TO NEAREST	SED*		16. N	O. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	Menofice		
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.			160		160 / 40			
18. DISTANCE FROM PROP- TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,		19. P	ROPOSED DEPTH 3800	i	ary or cable tools Rotary			
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(This space for Feder	ral or State office use)			APPROVAL DATE		ECEIVE]]		
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U. S. GEOLOGICAL SURVEY DURANGO, COLO.

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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.

A plat, or plats, separate or on this reverse side, show-Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse siding the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1963--O-711-396

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Operator Navajo KY Gulf Oil Corporation Unit Letter Township County Sandova! 7 West 22 North Actual Footage Location of Well: West North line 1850 feet from the line and Pool Rusty Chaira Producing Formation Ground Level Elev. Menefee & Chacra ₹ 160 — Acres Rusty Menefee & Ch 6947 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 _ Yes 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 Gulf Oil Corporation Name C. D. Borland Area Production Manager Company Gulf Oil Corporation Date 5-9-78 SEC 11 THINGST V. ECO N. ECHON Date Surveyed April 19, 1978 Registered Professional Engineer E.V.Echohawk LS 2000 1500 1000 500

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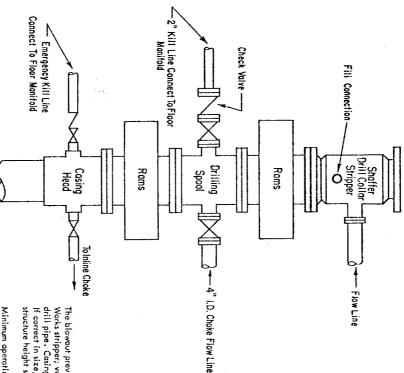
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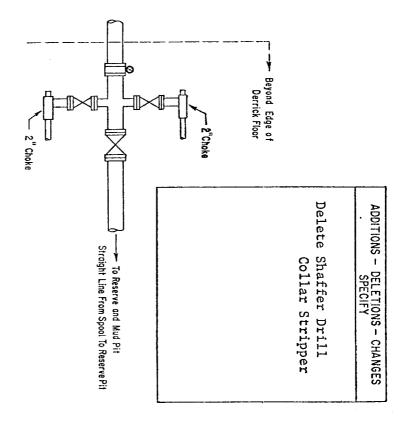
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DRAWING NO. 2 Revised April, 1970





3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

structure height shall be sufficient to install a rotating blowout preventer. drill pipe. Casing and rubing rams to fit the preventers are to be available as needed. The ram preventers may be two singles or a double type. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch 1.D. choke flow line and kill line. The sub-Works stripper; valves ; chokes and connections, as illustrated. If a topered drill string is used, a ram preventer must be provided for each size of The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated, a Shaffer Tool

Minimum operating equipment for the preventers shall be as follows: (1) Pump (3), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within _____seconds. The pump (s) is to be connected to a closed type hydraulic operating system.

(2) When requested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above pump (s). With the charging pump (s) shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressureoperated devices simultaneously within lent, is to be available to operate the above pump (s); or there shall be an additional pump (s) operated by separate power and equal in performance remaining accumulator fluid volume at least_ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the _percent of the original. (3) When requested, an additional source of power, remote and equiva-

The closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the prosence of oil, gas, and drilling fluids. The choke flow line valve connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles. The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and

Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

May 9, 1978

P. O. Box 670 Hobbs, NM 88240

Re: Application for Permit to Drill Proposed Navajo "KY" Well No. 1, Sandoval County, New Mexico

U. S. Geological Survey P. O. Box 1809 Durango, CO 81301

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Navajo "KY" Well No. 1

- 1. Location: 1850' FNL & 1850' FWL of Section 11, T-22-N, R-7-W, Sandoval County, NM
- 2. Elevation of Unprepared Ground: 6947' GL
- 3. Geologic Name of Surface Formation: Quarternary Alluvium
- 4. Type Drilling Tools: Rotary
- 5. Proposed Drilling Depth: 3800'
- 6. Estimated Top of Geologic Markers: Picture Cliffs, 1540'; Chacra, 1900'; Cliff House, 2990'; Menefee, 3050'
- 7. Estimated Depths at which Anticipated Gas or Oil-Bearing Formations Expected:
 - a. Chacra 1900'
 - b. Menefee 3050'
- 8. Casing Program and Setting Depths:

	SIZE	WEIGHT	GRADE	SETTING DEPTH		
Surface	9-5/8"	32.3	н40	250¹		
Production	7''	20.0	K55	3800 '		



9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 9-5/8" set at 250' and cemented with Class "C" with 2% CaCl₂. Volume of cement will be sufficient to circulate cement to surface.
- b. Production casing will be 7" set at approximately 3800' and cemented with Class "C" with 16% gel, 3% CaCl₂ and .2% friction reducer plus Class "C" Neat cement. Volume of cement to be determined by caliper survey.

10. Pressure Control Equipment:

The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 2 of Gulf's blowout preventer hook-up for 3000 psi working pressure.

11. <u>Circulating Media</u>: 0' - 250' fresh water spud mud; 250' - 3800' saturated brine water with polymer added as needed for samples and DST's.

12. Testing, Logging and Coring Programs:

- a. Formation testing may be done at any depth where samples, drilling rate, or log information indicate a possible show of oil or gas.
- b. Open hole logs will be run at total depth.
- c. No coring is planned.
- 13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, BOP's with remote control and choke manifold as shown on Drawing No. 2 will be installed prior to drilling below intermediate casing.
- 14. Anticipated Starting Date: Drilling operations should begin between June 1, 1978 and July 1, 1978.
- 15. Other Facets of the Proposed Operation: None

C. D. BORLAND

Area Production Manager

Att'd

Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

May 9, 1978

P. O. Box 670 Hobbs, NM 88240

Re: Surface Development Plan for Proposed Navajo "KY" Well No. 1, Sandoval County, New Mexico

U. S. Geological Survey P. O. Box 1809 Durango, CO 81301

Gentlemen:

The surface use and operations plan for the proposed Navajo "KY" Well No. 1 are as follows:

1. Existing Roads:

- a. Exhibit "A" is a portion of a general highway map showing the location of the proposed well as staked. Go east of Lybrook, New Mexico, approximately one-half (1/2) mile on State Highway No. 44; turn south approximately six (6) miles and turn left (east) 1500' on ranch road to flagged, proposed new road (450' northeast); then to proposed new location.
- b. Exhibit "B" is a plat showing all existing roads within a one mile radius of the well site as well as the planned access road.

2. Planned Access Roads:

- Length and Width: The required new road will be 450' long and 12' wide, constructed of graded surface material compacted and watered to a depth of 6". This new road is labeled and color-coded red on Exhibits "A" and "B". The road to be improved (to the above specifications) will extend from the new road 1500' west to existing county road and color-coded brown.
- b. Turnouts: None required
- c. Culverts: None required
- d. Cuts and Fills: The road will follow contour lines to reduce cuts and fills. The road will be drained with water bars as needed.
- e. Gates and Cattleguards: None required



- 3. Location of Existing Wells: Only two wells exist within a one mile radius of the proposed location. The location of these wells are shown on Exhibit "B".
- 4. Tank Batteries, Production Facilities and Lease Pipelines: Should this well be completed as a commercial producing well, new tank battery facilities will be required. These facilities will be constructed within the 400' X 400' work area as staked. All lines will be installed above ground and located as shown on Exhibit "D".
- 5. Water Supply: Drilling water will be hauled by trucks over existing roads.
- 6. Source of Construction Materials: The proposed roads and drilling pad will be constructed by levelling and compacting existing surface materials (mainly sand and clay). No outside materials will be hauled in for construction of roads or drilling pad.

7. Methods of Handling Waste Disposal:

- a. Drill cuttings will be disposed of in the drilling pits.
- b. Drilling fluids will be allowed to evaporate in drilling pits until pits are dry.
- c. Water produced during tests will be disposed of in drilling pits. Oil produced during tests will be stored in test tanks until sold.
- d. Current laws and regulations pertaining to disposal of human waste will be complied with.
- e. Trash, waste paper, sacks, garbage and junk will be burned or buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C".
- f. All trash and debris will be buried or removed from well site within 30 days after finishing drilling and/or completion operations.

8. Ancillary Facilities: None required

9. Well Site Layout:

- a. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash pits and location of major rig components.
- b. Construction of drilling pad will not require a cut or fill. A drainage ditch will be constructed to divert water run-off from southeast of location to the west side.
- c. The reserve pit will be on north side of pad.
- d. The well site and road have been staked.

10. Plans for Restoration of Surface:

- a. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave well site in as aesthetically and pleasing condition as possible.
- b. Any unguarded pits containing fluids will be fenced until they are filled.
- c. After abandonment, any special rehabilitation and/or revegetation requirements (reseed with seed mixture #2) will be complied with and accomplished as expeditiously as possible. All pits should be filled and levelled within 90 days after abandonment.

11. Other Information:

- a. Topography: Relatively flat, sandy surface.
- b. Soil: Soil is sandy clay.
- c. Flora and Fauna: The vegetation cover generally consists of sagebrush, blue gramma, and galleta.
- d. Ponds and Streams: There are no streams or ponds in the immediate area.
- e. Residences and Other Structures: The nearest occupied dwelling is an Indian house one-half mile northwest of the well site.
- f. Land Use: Present land use is grazing.
- g. Surface Ownership: Well site is on Navajo surface.

12. Operator's Representative: GULF OIL EXPLORATION and PRODUCTION COMPANY

A Division of Gulf Oil Corporation

P. O. Box 670, Hobbs, New Mexico 88240

Telephone: (505) 393-4121

Area Production Manager: C. D. BORLAND

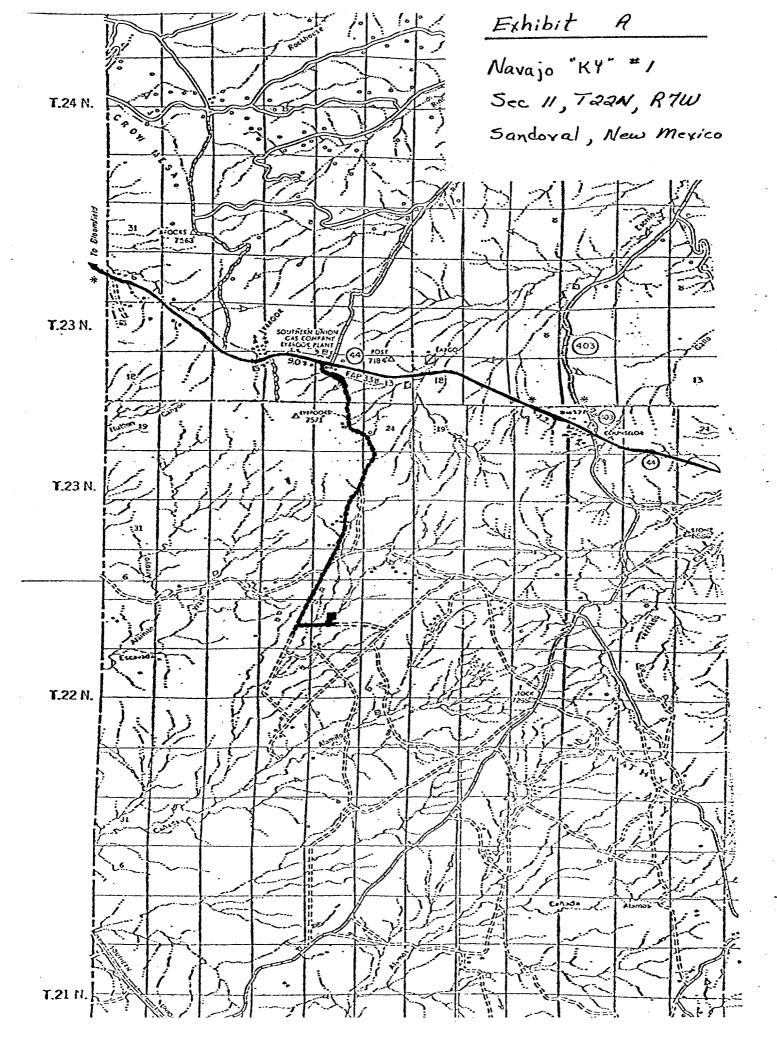
13. Certification:

Date: May 9, 1978

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 Gulf Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

C. D. BORLAND

Area Production Manager



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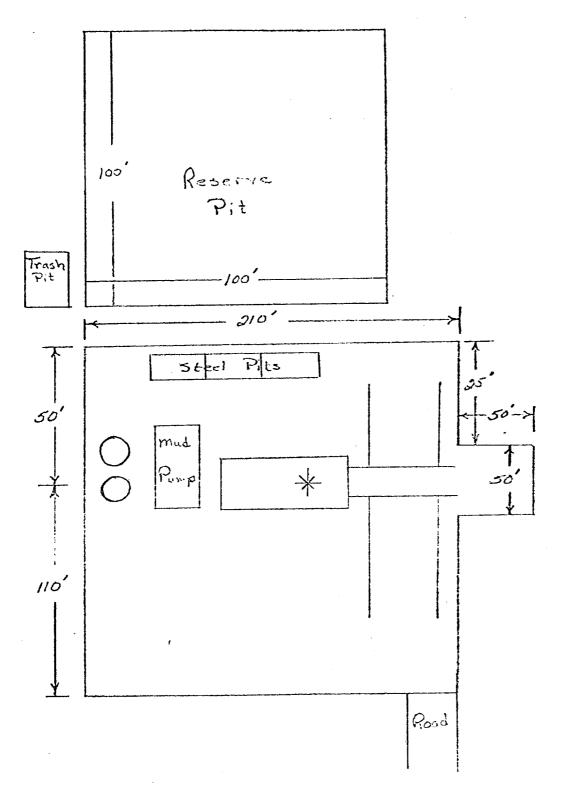


Exhibit C

Navajo "KY" #1 Sec 11, Taan, RTW Sandoval, New Mexico

Exhibit D

Navajo "KY" "1 Sec 11, Taan, RTW Sandoval, New Mexico

