Form 9-331 C			C. COPSUBMIT IN TH	UT CATE	• Form approved.	
(May 1963)	UNITE	ED STATES	(Other instruction reverse si			
*	DEPARTMENT	<u>30-015-22118</u> 5. LEASE DESIGNATION AND SEBIAL NO.				
	GEOLOG	ICAL SURVEY			LC-065347	
APPLICATION	N FOR PERMIT TO) DRILL, DEE	PEN, OR PLUG B	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
		DEEPEN	PLUG BAG	ск 🗆	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL CAR SA WELL W	ELL XX OTHER		SINGLE MULTIP ZONE XX ZONE		8. FARM OR LEASE NAME	
. NAME OF OPERATOR					Estill AD Federal	
Gulf Oil Corp	oration				9. WELL NO.	
ADDRESS OF OPERATOR	a New Marrian 99	240	RECEIV	ED.	10. FIELD AND FOOL, OR WILDCAT	
LOCATION OF WELL (R	s, New Mexico 88 eport location clearly and in	n accordance with any	7 State requirements.*)	and	White City Penn	
At surface 1650'	FS & EL, Sectio	n 19, 24-S, 2	26-E APR 1 3 197		11. SEC., T., B., M., OR BLK. AND SURVEY OR ABEA	
At proposed prod. zon	e					
4. DISTANCE IN MILES	AND DIRECTION FROM NEARE	ST TOWN OR POST OFF	ICE* ARTEBIA, OFFIC		Sec 19, 24-S, 26-E 12. COUNTY OR PARISH 13. STATE	
			ARIEDIA, UFFIG		Eddy N. M.	
5. DISTANCE FROM PROPO LOCATION TO NEAREST		16.			DF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	g. unit line, if any)		640		640	
8. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON THI	RILLING, COMPLETED,		PROPOSED DEPTH		RY OR CABLE TOOLS	
1. ELEVATIONS (Show who		I	11,000	Rotar	Y 22. APPROX. DATE WORK WILL START*	
3435.8	8' GL			, K	As Soon as Approved	
3.	PR	OPOSED CASING A	ND CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT	
26"	20" н-40	94#	45'	Circu	late	
13/3/4"	<u>10-3/4" K-55</u>	40.50#	1,900'	Circu		
9-1/2" 6-1/2"	7-5/8" S-95 5" N-80			1	acks (TOC at approx 1800 late to top of liner.	
0 1, 1		* Top at 8,	-	022.00		
BOP: See Dra	awing No. 4 atta	ched.				
	sweep to clean Salt water Poly	hole and bef mer with Dext	ore running casi rid/Drispac weig	Ing; 83 ghted w	ckish salt water with mu 00' to 9500', brine water ith soda ash to 10.5# 4 cc or less; KCL 4%.	
				R	ECEIVED	
Gas is De	dicated to Trans	western Gas (Company.	2	MAR 07 1977	
N ABOVE SPACE DESCRIBE one. If proposal is to preventer program, if an		oposal is to deepen of y, give pertinent data	r plug back, give data on p 1 on subsurface locations a	псасии дары	GEOLOGICAL SUBVEY uctive zone and proposed new productive description of the state of the productive	
signed (IC)	Inland.	TITLE	Area Production	Manage	rMarch 4, 1977	
	eral or State office use)				DECLARED WATER BASIN	
PERMIT NO.			APPROVAL DATE	<u>.</u>		
ADDD	nized		IE OPERATIONS	C	C MER SENED THE CIRCULATED	
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY :	TITLE RESCH	NDED IF MONTHS.		CASING MUSI DE CALO	
APR1	2 13/1 THIS		- 1077			
1 Al Bec	Bar EXPIR	ESJUL 1	2 1311	NOTIF	FY USGE SUFFICIENT TIME TO	
A FL.	<u>d</u> . dvins 4	*See Instruction	ns On Reverse Side		CABING	
	AL, JP ANY: K 19/1 THIS / ARE N Expire Expire	TITLECH APPROVAL IS RESCH NOT COMMENCED W ES	APPROVAL DATE NDED IF OPERATIONS ITHIN 3 MONTHS. 2 1977	, I I I I I I	CASIN COMUST BE CIRCULAT	

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NEV EXICO OIL CONSERVATION COMMISSIC

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

" promot			,ease			Well No.
GULF OIL COMPANY		Estill AD - Federal			1	
∵nst , etter J	19	24 South	26 Eas	t E	ddy	· · ·
Actual Fortage Lo 1650		south luce and	1650		00.0 t	
Ground Level Elev	feet from the v. Producing For) 001	vet Imr. the	east Dedi	une osted Acreage;
3435.8	Penn		White City Pe	nn Gas		640 Acres
1. Outline	the acreage dedica	ted to the subject wel	l by colored pencil	or hachure ma	rks on the pla	at below.
interest	and royalty).	dedicated to the well,			TECE	IVED
 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? WAR 0.7 1977 U. S. GEOLOGICAL SURVEY If answer is "no," list the owners and tract descriptions which have actually been consolidated. Wiso reverse side of 						
Tes		nswer is yes, type of	consolidation	AR	TESIA, NEW	SURVEY
If answei	r is "no," list the	owners and tract descri	ptions which have	actually been o	onsolidated.	EXIGO reverse side of
	if necessary.)	ed to the well until all i	ntarests have been	conculidurad	/	
		or until a non-standard				
sion.	-					
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Gulf	Oil Corporati	on LC-065347 = 640	acres	N	ane de la companya de	
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		2000		<u> </u>		



A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legian No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment. The closing manifold and remote 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

as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves 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, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed

* To include derrick floor mounted controls.

Gulf Energy and Minerals Company-U.S.

PRODUCTION DEPARTMENT HOBBS AREA

March 3, 1977

P. O. Box 670 Hobbs, New Mexico 88240

C. D. Borland AREA PRODUCTION MANAGER

RECEIVED

Application for Permit To Drill Proposed Estill "AD" Federal #1 Eddy County, New Mexico

U. S. G. S. P. O. Drawer "U" Artesia, NM 88210 MAR 07 1977

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

Gentlemen:

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

Well: Estill "AD" Federal Well #1.

1. Location: 1650' FS&EL Section 19-T24S-R26E, Eddy Co., N.M.

2. Estimated Tops of Geologic Markers:

Delaware - 1600'; Bone Spring - 5200'; Wolfcamp 8300'; Strawn - 10,150'; Atoka - 10,350'; Morrow - 11,000'; Barnett - 11,700'.

3. Estimated Depths at which Anticipated Gas or Oil Bearing Formation Expected:

Strawn	10,150-250'	Atoka	10,600-670'
Morrow	11,000-700'	All may	produce gas.

4. Casing Program and Setting Depths:

Section	Size	<u>Weight</u>	Grade	Setting Depth
Surface	10-3/4"	40.50#	K-55	1,900'
Intermediate	7-5/8"	26.40#	S-95	8,300'
Production	5	18#	N-80	11,800'

- 5. <u>Pressure Control Equipment:</u> The minimum specifications for pressure control equipment can be seen on the attached Drawing #4 of Gulf's blowout preventer hookup for 5000 psi working pressure. A testing company will test BOP's, choke manifold and casing to their rated working pressures after installation and each thirty days thereafter.
- 6. <u>Circulating Media:</u> 0-1900' 10# brine water; 1900-8300' brackish salt water with mud sweep to clean hole and before running casing; 8300-9500' brine water; 9500'-T.D. salt water polymer with Dextrid/Drispac weighted with soda ash to 10.5 ppg and barite in excess of 10.5 ppg; viscosity 30-35 sec; fluid loss 4 cc or less; KCl 4%.



(continued)

Application for Permit To Jrill

- 7. <u>Auxiliary Equipment:</u> 5000-psi-rated Kelly cock and full-opening floor valve. During nipple-up on 7-5/8" casing, the following items will be installed:
 - a. Rotating head with hydraulic-operated valve.
 - b. Automatic choke.
 - c. Flowline separator with manifold.
 - d. Pit volume recorder.
- 8. 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. Coring is not planned.
- 9. <u>Abnormal Pressure or Temperature and Hydrogen Sulfide Gas:</u> We do not anticipate any abnormal pressure or temperature; however, remote-control BOP's as shown on Drawing #4 and special equipment listed in Paragraph #7 will be utilized. The presence of hydrogen sulfide gas is not anticipated.
- 10. <u>Anticipated Starting Date and Duration</u>: Drilling operations should start between April 1 and April 15, 1977 and be completed in 75 days.

C. D. BORLAND Area Production Manager

RLV:ec Att'd. Gulf Energy and Minerals Company-U.S.

PRODUCTION DEPARTMENT HOBBS AREA

C. D. Borland AREA PRODUCTION MANAGER

March 2, 1977

P. O. Box 670 Hobbs. New Mexico 88240

Re: Surface Development Plan Proposed Estill "AD" Federal Well No. 1 Eddy County, New Mexico

U. S. Geological Survey P. O. Drawer "U" Artesia, NM 88210

MAR 07 1977 U.S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

Gentlemen:

The surface use and operations plan for the proposed Estill "AD" Federal Well No.l are as follows:

1. Existing Roads:

- A. Exhibit "IA" is a portion of a topographic map showing the location of the proposed well as staked. Eleven miles southwest of Carlsbad and five miles northeast of White's City on U. S. Highway 62-180, a paved road goes southeast through Sections 19, 20 and 29, T24S, R26E, approximately one mile southeast of Highway 62-180 the pavement ends.
- B. Exhibit "1B and 1C" is a plat showing all existing roads within a one-mile radius of the wellsite, and the planned access road.
- 2. Planned Access Road:
 - A. Length and Width: Turn Southwest off County Road 1000 feet from U. S. 62-180 and new road required will be twelve feet wide and 1700 feet long, consisting of graded caliche six inches deep, watered and compacted. This new road is labeled and color-coded red on Exhibits "1B and 1C" and "2A".
 - B. Turnouts: None required.
 - C. <u>Culverts</u>: One culvert will be installed where new road begins at County Road.
 - D. Cuts and Fills: None required.
 - E. Gates, Cattleguards: None required.
- 3. Location of Existing Wells:
 - A. Existing wells within a one-mile radius are shown on Exhibit "3A".

U. S. Geological Survey

Page 2

- 4. Location of Existing and/or Proposed Facilities:
 - A. Production facilities will be located on the well pad, and no additional surface disturbance will occur.

5. Location and Type of Water Supply:

- A. Water for drilling will be purchased from a supplier and transported by truck to the wellsite over the existing and proposed roads shown in Exhibits "1B and 1C" and "2A".
- 6. Source of Construction Materials:
 - A. Caliche for surfacing the road and the well pad will be obtained from an existing pit in the SW/4 of SE/4 Section 30, T24S, R26E. The pit is on Federal land. (Shown on Exhibit "6A".)

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 the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be 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 in Exhibit "9A".
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. Ancillary Facilities:

A. None required.

9. Wellsite Layout:

- A. Exhibit "9A" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and major rig components.
- B. Only minor levelling of the wellsite will be required.
- C. The reserve pit will be plastic-lined.
- D. The pad and pit area has been staked and flagged.

10. Plans for Restoration of the 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 the wellsite in as aesthetically 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 of the surface management agency 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. <u>Topography</u>: Land surface is rolling foothills on the eastern slope of the Guadalupe Mountains.
 - B. Soil: Soil is sandy, underlaid by rock and caliche.
 - C. <u>Flora and Fauna</u>: The vegetative cover is generally sparse and consists of mesquite, yucca, sandsage and perennial native range grasses. Wild life in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles and doves.
 - D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
 - E. <u>Residences and Other Structures</u>: The nearest occupied dwelling is a ranch house 1-1/2 miles southeast of the wellsite. There are no known water wells in the near vicinity of the wellsite.
 - F. Land Use: Grazing and hunting in season.
 - G. Surface Ownership: Wellsite is on Federal surface.
- 12. Operator's Representative:

Gulf Energy and Minerals Company-U.S. A Division of Gulf Oil Corporation P. O. Box 670 Hobbs, NM 88240 Telephone No. 505/393-4121 Area Production Manager, C. D. Borland

U. S. Geological Survey

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

March 2, 1977 Date

C. D. Borland Area Production Manager

Attachments RLV/dch

