Form 9-331 C (May 1963)		COPY	TO (Sugnit in t		* Form approve Budget Bureau	d. 1 No. 42-R1425.	
UN. ED STATES (Other instruct reverse side)							· · · · · · · · · · · · · · · · · · ·	
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION	AND SERIAL NO.	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						NM 16359 6. IF INDIAN, ALLOTTEE		
APPLICATIO	N FOR PERMIT	O DRILL, DE	EPEN	I, OR PLUG I	BACK	C. IF INDIAN, ALLOITLE	OR TRIBE NAME	
	NLL X	DEEPEN 🗌		PLUG BA	ск []	7. UNIT AGREEMENT N.	AME	
b. TYPE OF WELL OIL			SING	LE 🗍 MULTH	PLE (-7			
2. NAME OF OPERATOR	WELL X OTHER	8. FARM OR LEASE NAME Strange "A" Federal						
GULF OIL	CORPORATION					9. WELL NO.	rederal	
3. ADDRESS OF OPERATOR						1		
P. O. Box 670, Hobbs, New Mexico 88240 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						10. FIELD AND POOL, O.	TED	
At surface	L & 660' FWL			• ••qa		Quail Ridge	Morrow	
At proposed prod. zo						AND SURVEY OR AR	EA	
14 DISTANCE IN MILES	AND DIRECTION FROM NEAR	Real Branch on Doom				Sec 15, T-19	S, R-34E	
	ately 27 miles W			. Morico		12. COUNTY OR PARISH		
13. DISTANCE FROM PROP LOCATION TO NEARES	USED*			F ACRES IN LEASE	17. No. c	Lea DF ACRES ASSIGNED	New Mexico	
PROPERTY OR LEASE (Also to nearest drl	LINE, FT.		960			TO THIS WELL 320		
18. DISTANCE FROM PROD TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED,	1	19. PROPOSED DEPTH		20. ROTA	20. ROTARY OR CABLE TOOLS		
21. ELEVATIONS (Show wh		· · · · · · · · · · · · · · · · · · ·		13,600'		Rotary 22. APPROX. DATE WORK WILL START*		
		3756' GI	GL			10-01-78		
23.	Р	ROPOSED CASING	AND C	EMENTING PROGR.	AM	10 01 70		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	2	SETTING DEPTH	1	QUANTITY OF CEMEN	т	
14-3/4"	11-3/4"	42#		450 '	450	50 sx - Circulate		
11"	8-5/8"	32#	_	<u>5,700'</u>		1050 sx - Esti TOC @ 1,800'		
7-7/8"	5-1/2"	17#		13,600'	500	sx - Esti TOC	@ 10,000'	
				Unless D	y tria	Operations have drilling approt	re.1	
NOTE: Se	ee Attached BOP	Drawing No.	4	Expires.	1.7.	22-78		
Meed Deeper		(50)	n. 1	-				
Mud Prog	ram: 0'- 450'-			water spud Water;	mud;			
	5,700' -	12,600'		ish Water;		-		
12,600' - 13,600' Polymer								
NOTE: Ga	as is not dedica	ted.				ж. Х		
		44	PPROV.			· · ·		
SEE	ATTACHED FOI	א און און א	HILE DR	AL TO FLARE GRAM ILLING AND TESTIM	ren.	· · · ·		
CONDIT	IONS OF APPRC	VAI		-LING AND TESTIN	2.			
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM : If p drill or deepen directional	roposal is to deepen	or plug	back, give data on pr	resent produ	active zone and proposed	new productive	
preventer program, if an	σ.					and true vertical depths	Give blowout	
24. /UC	Y Sulla	/						
SIGNED	MALLINO	TITLE	Ar	ea Productio	n Manag	er DATE 09-13	-78	
(This space for Fede	ral or State office use)							
PERMIT NO.		·	_ API	ROVAL DATE				
APPROVED BY CONDITIONS OF APPROV.	AL, IF ANY :	TITLE			A	APPROVED AMENDED		
						SEP 2 2 1978		
		*See Instruction	ons Or	Reverse Side		Q.D.L.	1	
					ACTIN	G DISTRICT ENGINE	ER	

NE' TXICO OIL CONSERVATION COMMISSI WELL LUCATION AND ACREAGE DEDICATION FLAT

•

.

		WELL LUCATION AND	ACREAGE	DEDICAT	TION FLAT	Form C-192 Supersedes C-128 Effective 14-65
- perator	· ·····	All distances must be from		laries of th	• Section	
G	Strange "A" Federal			Well ';		
Thut Lefter	Section 15	Township	Range		lounty	
A tunt Pisstage L		19 South	34	ast	Lea	
1980	and the second	South line and	660	10-1-1	rom the West	
Gmund Level Ele 3756.0	w. Producing F	ormation P	001	1001 I	rom the VVest	Dedicated Acreage:
		Morrow cated to the subject well	Quail	Ridge	Morrow	200
 If more interest If more that dated by Yes If answer this form No allowa 	than one lease i and royalty). han one lease of communitization, No If is "no," list the if necessary.) able will be assign		butline each a dicated to the etc? onsolidation tions which h	well, ha	ify the ownership th we the interests of ally been consolidat	ereof (both as to working all owners been consoli- ted. (Use reverse side of
O'HA	676 WEXICO W. WEST				I hereby ce to.ned here best of my i Name C. D. I Position Area Pi Company GULF OI Date 09-14-7 I hereby ce shown on thi notes of act under my sup is true and knowledge or	rtify that the well location s plat was plotted from field ual surveys made by me or pervision, and that the same correct to the best of my
330 80C .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2315 2340 2000			September Pegistered Frot and/or Lord Sut Offiliate No.	essional Engineer



X to include devict floor mounted centrols.

Gulf Oil Exploration and Production Company

C. D. Borland PRODUCTION MANAGER, HOBBS AREA September 13, 1978

P. O. Box 670 Hobbs, NM 88240

U. S. Geological Survey P. O. Box 1157 Hobbs, NM 88240

Attention: Mr. J. F. Sims District Engineer

Gentlemen:

The following is Gulf Oil Corporation's plan for surface restoration associated with the drilling of our Strange "A" Federal Well No. 1, which is located 1980 feet from the south line and 660 feet from the west line of Section 15, Township 19 South, Range 34 East, Lea County, New Mexico.

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 the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible. Any unguarded pits containing fluids will be fenced until they are filled.

After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and the location will be cleaned. The pit area, well pad and all unneeded access roads will be ripped to promote revegetation. Rehabilitation should be accomplished within ninety (90) days after abandonment.

th

14

Yours very truly,

C. D. BORLAND

RLV/dch

Subscribed and sworn to before me this

day of 1978.

Notary Public

Lea County, New Mexico

My Commission Expires: 21-11

Gulf Oil Exploration and Production Company

September 13, 1978

C. D. Borland FRODUCTION MANAGER, HOBBS AREA

P. O. Box 670 Hobbs, NM 88240

Re: Application for Permit to Drill Strange "A" Federal Well No. 1 Lea County, New Mexico

U. S. Geological Survey P. O. Box 1157 Hobbs, NM 88240

Gentlemen:

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

Well: Strange "A" Federal Well No. 1.

- (1) Location: 1980'FSL & 660'FWL Section 15, T-19-S, R-34-E, Lea County, New Mexico.
- (2) Elevation of Unprepared Ground: 3756' GL.
- (3) Geologic Name of Surface Formation: Quarternary alluvium.
- (4) <u>Type Drilling Tools</u>: Rotary.
- (5) Proposed Drilling Depth: 13,600'.
- (6) Estimated Tops of Geologic Markers: Anhydrite 1600', Yates 3500', Bone Spring 8100', Wolfcamp 10,800', Strawn 12,200', Atoka 12,800', Morrow 13,100', Barnett 13,600'.
- (7) Estimated Depths at which Anticipated Gas or Oil Bearing Formations Expected:
 - (a) Atoka Section 12,900-13,000' may produce gas.
 - (b) Morrow Section 13,300-13,500' may produce gas.

(8) Casing Program and Setting Depths:

	Size	Weight	Grade	Setting Depth
Surface,	11-3/4"	42 <u></u> #	H-40	450'
Intermediate	8-5/8"	32#	K -5 5	5,700'
Production	5-1/2"	17 #	N-80 & S-95	13,600'

- (9) Casing Setting and Cementing Program:
 - (a) Surface casing will be set at 450', cemented with 350 sacks Howco lightweight cement and 100 sacks Class C neat with 2% CaCl₂.

- (9) (b) Intermediate casing will be set at 5700' and cemented with 850 sacks Class C Gulfmix with 16% gel and 200 sacks of Class C neat.
 - (c) Production casing will be set at 13,600' and cemented with adequate volume of Class H cement with 0.75% CFR-2 and five pounds KCL per sack to bring cement top to approximately 10,000', or above Wolfcamp formation. NOTE: Volume of cement to be determined after running caliper log at total depth.
- (10) <u>Pressure Control Equipment</u>: The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 4 of Gulf's blowout preventer hook-up for 5000 psi working pressure.
- (11) <u>Circulating Media</u>: 0-450' fresh water and spud mud; 450-5700' brine water; 5700-12,600' brackish water; 12,600-13,600' salt water polymer with the following properties: viscosity 32-37 sec, water loss 20-4 cc, weight 9-10.0 ppg. Heavier weight mud will be used if required by well conditions.
- (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 prior to running casing at total depth.
 - (c) Coring is not planned.
- (13) <u>Abnormal Pressure or Temperature and Hydrogen Sulfide Gas</u>: We do not anticipate any abnormal pressure or temperature; however, the following equipment will be installed while nippling up on intermediate casing for pressure control and detection: remote-controlled adjustable choke on flow manifold, drilling separator with gas vent line to burn pit, pit level sensors, flow line sensors and remote control BOP as shown on Drawing No. 4.

The presence of hydrogen sulfide gas is not anticipated.

- (14) Anticipated Starting Date: Drilling operations should start October 1, 1978.
- (15) Other Facets of the Proposed Operation: None.

C. D. BORLAND Area Production Manager

Attachments RLV/dch