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GEOLOGICAL SURVEY					NM 3039	· ·
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b. TYPE OF WELL					· · · ·	a
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Gulf Oil Co	ornoration				2. WELL NO.	Federal
3. ADDRESS OF OPERATOR	orporación		<u> </u>		2	
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23.	591.9' GL		<u></u>		Septembe	r 25, 1980
23.	Ĩ	PROPOSED CASING AN	D CEMENTING PROGRA	AM	· · · · · · · · · · · · · · · · · · ·	
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## NEW MEXICO OIL CONSERVATION COMMISSION WEI COCATION AND ACREAGE DEDICATIC PLAT

Form C-102 Supersedes C-128 Effective 14-65

		All di	atances must be f	rosa the out	er bounderses of	the Sectio	n	· · · · · · · · · · · · · · · · · · ·
Operator							Well No.	
GULF OIL CORPORATION			Rang	Callaway Federal			2	
Unit Letter	Section 6	Townshi 16 S	•		B East	County	Eddy	
Actual Footage Loc			JULI			_ <b>_</b>		
2400	. feet from the		line and	1980	) <u>iei</u>	et from the	East	line
Ground Lyvel Elev.	?≤? ,  Produc			Pool	Diamond M	ound A	toko	270.80 Acres
3591.9	l	Atoka						
2. If more th			the subject we					nereof (both as to working
3. If more the dated by c Yes	an one leas communitiza	tion, unitizati	ownership is on, force-pooli "yes," type c	ing. etc?		have the	interests of	all owners been consoli-
this form i No allowa	f necessary ple will be a	.) issigned to th	e well until al	l interest	s have been	consolid	ated (by com	ated. (Use reverse side of munitization, unitization, approved by the Commis-
	· [		<u>LOT</u> 15.60	2	<u>LOT 1</u> 15.20	- /		CERTIFICATION
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 5400 - 101	<u>z</u>	0il Corpor	8	tained he	certify that the information con- rein is true and complete to the y knawledge and belief. 1 and
			$\left\{-\right\}$		Lease #3(		<u>R.C.</u> Position <u>Area</u> <u>F</u> Compony	ANDERSON Production Manager
R	ECEI SEP 4	<b>VED</b> 1980	<u>107</u> 40	<u>10</u>	<u>107 9</u> 		Date 9-2-80	Dil Corporation
A	NEER & LA	VE SURVEY-	<u>LOT</u>	<u>15</u>		 16	shown on notes sf under my is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and carrect to the best of my e and belief.
HEG. PR	676 -	SURVEYOR	40		40		Registered and/or Lan	st 28,1980 Protessional Engineer d Surveyor
L	L		<u> </u>	······			Certificate	No. JOHN W. WEST 676 PATRICK A. ROMERO 6683 Ronald J. Eidson 3239



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## United States Department of the Interior

GEOLOGICAL SURVEY SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

10,2

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

- A. A. <u>cement circulated to the surface.</u> If surface casing is set at a lesser depth, the <u>casing must be cemented from the casing shoe to the surface or</u> <u>cemented to the surface through a stage tool set at least 50 feet below the top</u> of the Rustler after cementing around the shoe with sufficient cement to fill to the base of the salt section.
  - B. Before drilling below the **85%** casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
  - C. Casing protectors will be run on drill pipe while drilling through the casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.



- D. Minimum required fill of cement behind the 83/3" casing is to CEMENT TO SURFACE.
- E. After setting the <u>8%</u> casing string and before drilling into the <u>worfcorrectore</u>

F. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the **MOLECAMP** formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- 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.
- G. All pits containing toxic liquids will be fenced and covered with a fine mesh netting, if necessary for the protection of livestock or wildlife.



. Above ground permanent structures and equipment shall be painted in accordance with the Painting Guidelines. The paint color is to simulate:

🚺 Sandstone Brown, Fed. Std. 595-20318 or 30318

OR 🔀 Sagebrush Gray, Fed. Std. 595-26357 or 36357

<b>X</b> <sup>1.</sup>	A kelly (	cock will be	installed ar	nd maintain	ed in ope	nable cond	ition.	
<b>X</b> J.	The AR for a re	+ESIA presentative	Sub-District to witness:	Office is	to be not	ified in s	ufficient	time
	(a)	Spudding 4						
	(Ь)	· · · ·						
		85/8'	inch					
			inch					
		·	inch					
	(c)							
К.	filed fo Albuquer prior to	or approval rque, New Me o any sales.		The effec	tive date	of the ag	reement mus	st be
L.	section	to the surf	ated Neutron ace with cabl	le speeu no			Per	
M.	related officer notify	facilities.	g day prior t the operator Land Manageme ed Officer wi ties.	r or arri u	n c RA	<b>N</b> area	). He shal	l also.
N	will be arounds road wi will be facilit deemed	limited to Surface Il be limit adequately ies may inc necessary b	a $12$ for disturbance as ed to $20$ for drained to con- lude ditches, y the authorizing of water	ot wide dri ssociated w eet in widt ontrol runc water bars zed officer	wing surf with const th. If we off and so	ruction an 11 is a pr 11 erosion 5 and/or a	d/or use o oducer, al . Drainag	f the 1 roads e easures
	% Slope	2						
	2% to 4 4% to 5 more th	0/ 		· · · · · ·	200 ft. 100 ft. 75 ft. 50 ft.			
			ent pit cor d with mest		wa <b>ste</b> o	il must	be fence	đ
	b. V.	Door	NORTH	/			11-1	с <del>т</del> А

C. ACCESS road will pARAllEL SOUTHEDRE of pipe-link Right-of-way.

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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. A pressure reducer and regulator must be provided for operating the Hydrit preventer. Whan requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No.38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

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

\* To include derrick floor mounted controls.

Gulf Oil Exploration and Production Company

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA September 2, 1980

P. O. Box 670 Hobbs. NM 88240

U. S. Geological Survey P. O. Drawer U Artesia, New Mexico 88210

Gentlemen:

The following is Gulf Oil Corporation's plan for surface restoration associated with the drilling of our Callaway Federal No. 2, to be located 2400' from the north line and 1980' from the east line of Section 6, Township 16 South, Range 28 East, Eddy 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.

Yours very truly,

C. L. Morrill

HVH/jr

Subscribed and sworn to before me th	his <u>Ird</u> day of	September, 1980.
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n



A DIVISION OF GULF OIL CORPORATION

Gulf Oil Exploration and Production Company

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA P. O. Box 670 Hobbs. NM 88240

Re: Application for Permit to Drill Callaway Federal #2 Eddy County, New Mexico

U. S. Geological Survey P. O. Drawer U Artesia, New Mexico 88210

Gentlemen:

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

Well: Callaway Federal Well No. 2

- (1) Location: 2400' FNL & 1980' FEL, Section 6-T16S-R28E, Eddy County, New Mexico
- (2) Elevation of Unprepared Ground: 3591.9'
- ( 3) Geologic Name of Surface Formation: Quarternary alluvium
- (4) Type Drilling Tools: Rotary
- (5) Proposed Drilling Depth: 9150'
- (6) Estimated Tops of Geologic Markers: Yates 150'; Queen 1000'; Tubb 4375'; Abo
  5150'; Wolfcamp 6350'; Canyon 7425';
  Strawn 8200'; Atoka 8625'; Chester 9100'
- (7) Estimated Depths at Which Anticipated Gas or Oil-Bearing Formations Expected: Atoka Morrow section 8625' to 9100' may produce gas.
- (8) Casing Program and Setting Depths:

	Size	Weight	Grade	Setting Depth
Surface	11-3/4"	<b>42</b> <i>#</i>	н-40	400'
Intermediate	8-5/8"	24#	к-55	1700'
Production	5½"	<b>15.</b> 5 & 17#	к-55	915 <b>0'</b>

- (9) Casing Setting Depth and Cementing Program:
  - (a) Surface casing will be set at 400', cemented with 500 sacks of light cement followed by 100 sacks of Class "H" with 2% CaCl<sub>2</sub>.



- (9) Casing Setting Depth and Cementing Program (continued):
  - (b) Intermediate casing will be set at 1700' and cemented with 300 sacks of light weight cement and 200 sacks Class "C" neat.
  - (c) Production casing will be set at 9150' and cemented with adequate volume of Class "H" cement with friction reducer to bring cement top to approximately 6500'. NOTE: Volume of cement to be determined after running caliper log at total depth.
- (10) Pressure Control Equipment:

The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 3 of Gulf's blowout preventer hook-up for 3000 psi working pressure.

(11) Circulating Media:

0-400' Fresh water spud mud; 400-6000' Fresh water; 6000-8000' Brine water; 8000-9150' Brine water polymer.

- (12) Testing, Logging and Coring Program:
  - (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.
- (13) Abnormal Pressure or Temperature and Hydrogen Sulfide Cas:

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, flowline sensors and remote control BOP as shown on Drawing No. 3.

The presence of hydrogen sulfide gas is not anticipated.

(14) Anticipated Starting Date:

Drilling operations should start between September 25, 1980 and October 15, 1980.

(15) Other Facets of the Proposed Operation: None

Yours very truly,

for R. C. ANDERSON Area Production Manager

HVH/jr

Attachment

## Gulf Oil Exploration and Production Company

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA September 2, 1980

P. O. Box 670 Hobbs. NM 88240

Re: Surface Development Plan-Proposed Callaway Federal Well No. 2 2400' FNL & 1980' FEL, Section 6-T16S-R28E, Eddy County, NM

U. S. Geological Survey P. O. Drawer U Artesia, New Mexico 88210

Gentlemen:

RECEIVED SEP 4 1980 U.S. GEULUGICAL SURVEY

The surface use and operations planted the proposed well are as follows:

- 1. Existing Road
  - A. Exhibit "A" is a portion of a general lease map showing the location of the proposed well as staked. Go east out of Lake Arthur on State Road 507 10 miles; turn right through cattle guard and go  $\frac{1}{2}$  mile; keep right. Our Callaway Federal #2 location is approximately .5 miles east of our Callaway Federal #1.
  - B. Exhibit "B" is a portion of a lease map showing all existing roads within a one-mile radius of the well site.
- 2. Planned Access Roads
  - A. Length & Width: The new road required will be 12' wide and approximately 2440' long. The new road is color-coded red on Exhibit "A" and Exhibit "B". The proposed road has been staked and flagged.
  - B. Surfacing Material: Six (6) inches of caliche, water compacted and graded.
  - C. Turnouts: None required.
  - D. Culverts: At location.
  - E. Cuts and Fills: Two foot cut on east side of location and two foot fill on west side of location.
  - F. Gates and Cattle Guards: None



3. Location of Existing Wells

Existing wells within a one-mile radius are shown on Exhibit "B".

4. Location of Proposed Facilities

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 "C".

5. Location and Type Water Supply

Water for drilling well will be purchased from a supplier and transported by truck to the well site over existing and proposed roads shown in Exhibit "B".

6. Source of Construction Material

Caliche for surfacing the road and the well pad will be obtained from a Federal pit in the SE/4 of NE/4 of Section 11-T16S-R28E.

- 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" of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "D".
  - F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities

A. None required.

- 9. Well Site Layout
  - A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components.

- 9. Well Site Layout (continued)
  - B. Only minor levelling of the well site will be required. One cut and one fill will be necessary.
  - C. The reserve pit will be plastic lined.
  - D. The pad and pit area have 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 well site in as aesthetically pleasing condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.
- 11. Other Information
  - A. <u>Topography</u>: Land surface is generally level with a deep sand cover. The undisturbed well site elevation is 3591.9'.
  - B. Soil: Soil is a deep, find sand underlain by caliche.
  - C. <u>Flora and Fauna</u>: The vegetative cover is generally sparse and consists of scrub oak and perennial native grasses. Wildlife in the area is typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail and other birds.
  - D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
  - E. Residences and Other Structures: There is an occupied dwelling in the immediate area, located 1.2 miles northwest of the proposed location in Section 6-T16S-R28E. The residence is located in Section 34-T15S-R27E. The nearest water well is located approximately 1.3 miles northwest of the proposed location.
  - F. Archeological, Historical and Cultural Sites: None observed in the area.
  - G. Land Use: Graxing and hunting, in season.
  - H. Surface Ownership: Surface is Federal.

12. Operator's Representative

The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Gulf Oil Exploration and Production Co. A Division of Gulf Oil Corporation P. O. Box 670 Hobbs, New Mexico 88240 Telephone: (505) 393-4121 Area Production Manager: R. C. Anderson

## 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 operations proposed herein will be performed by Gulf Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

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<u>9.2-80</u> Date

GCC R. C. Anderson Area Production Manager

EXHIBIT A . Calloway Fed Sec 6, TILS, R28E New Mexico Eddy · Co, 惊 18 Talline FAS 1231 å 5 8 <del>.</del>т ġ c ¢. i Dg Ċ 5 Prichard Lakes j. 6 <u>ۍ</u> 12)12, .... 5 ۲ ۲ 1 122222 1.1 ່ວ 3.4 L. 1 - 4 (SOT 112127 arthur 357 1 is Naker: Jaher I Late 31 3) 36 Paral LocaTion \*\*\*\*\* Proposed Nak Haran and a state of the 6 6 1 )<u>}</u> Ŀ presson and Flat Lake WA(XE) 3766  $\gamma$ Ç Henderso Lake FLATS 1 1.6 Miles 1 al PAVO MESA russels 700 CROW , ٠, ļ. East 35 Red Lake 000=== 1111111 Ì 0 Ń6 ű ű #U110 いたい • 1.00 Canyon 11 L======1 OSSM °, J 0 DUVERSIO 00 ~= EC 0000 000 0 0 8 00 0 0 10 ∞.j∂ 0 0.5 C 2 00 18 0 0 1Draw 2 0 0 1Draw 00000 0 6 D ° ° ° ° 00/ the second . . 0 0 • . २ ० ۰ ě