	Dersent DD					in an Sort Sort Sort Sort	
) Jrm 9-331 C (Pfay 1963)	Amessia	a 88210	SUBMIT IN TRI (Other instruct			ed. u No. 42–R1425.	
		ED STATES	reverse sic	de)		·/ ··	
			1		5. LEASE DESIGNATION	AND SERIAL NO.	
		GICAL SURVEY			NM-15876	E OR TRUBE NAME	
	ON FOR PERMIT	IO DRILL, DEEPEN,	OR PLUG B	ACK		2 OR TRION WAME	
<ul><li>1a. TYPE OF WORK</li><li>b. TYPE OF WELL</li></ul>	DRILL 🔯	DEEPEN	PLUG BAC	К 🗌	7. UNIT AGREEMENT N	AME	
OIL X WELL X 2. NAME OF OPERATOR			X AND AVED	,E	8. FARM OR LEASE NA FEDERAL 26	ME	
3. ADDRESS OF OPERA	ROBERT N. ENI		1 1 100	<b>.</b>	9. WELL NO.		
a. KIDRING OF OTHER		I, SANTA FE, NEW M	1EXICO 87501	2	10. FIELD AND POOL, (	DR WILDCAT	
4. LOCATION OF WELL At surface	L (Report location clearly and	in accordance with any State	requirements.*D		WILDCAT		
At Surface	1980' FSL AN	) 1980' FWL OF SECT	NONE 26 OFFICE	E	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod.					SEC.26, T.9		
14. DISTANCE IN MIL	LES AND DIRECTION FROM NEA	REST TOWN OR POST OFFICE*		· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH	-	
		WEST OF CAPROCK, NE	W MEXICO		CHAVES	NEW MEXICO	
15. DISTANCE FROM P LOCATION TO NEA PROPERTY OR LEA (Also to nearest	AREST	660 <sup>1</sup>	ACRES IN LEASE		DF ACRES ASSIGNED HIS WELL 40	<u></u>	
18. DISTANCE FROM TO NEAREST WEL OR APPLIED FOR, OP	PROPOSED LOCATION* LL, DRILLING, COMPLETED, N THIS LEASE, FT.	- 19. PROPOSE	2200 <sup>1</sup>	20. ROTA	RY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show	whether DF, RT, GR, etc.)	4009.6 GR			JUNE 18,		
23.					00RL 10,		
		PROPOSED CASING AND CEL					
size of hole 12-1/4"	SIZE OF CASING	· · · · · · · · · · · · · · · · · · ·	SETTING DEPTH	SHE	QUANTITY OF CEME		
7-7/8"					350' SUFFICIENT TO CIRCULATE 200' SUFFICIENT TO CIRCULATE		
			···········				
			i			( * ( <sup>***</sup>	
	PRODUCING ZONE	WILL BE PERFORATED	) AND STIMULA	ATED AS	S NECESSARY.		
	SEE ATT.	ACHED FOR: SUPPLEM	MENTAL DRILL	ING DAT	ГА		
		BOP SKE					
		SURFACE	E USE AND OPE	ERATION	NS PLAN	and the second	
				ና			
					the second s		
				:		82	
				1	t taga naar	a market and a second sec	
					CR G KA	S Diserbyey	
					USE CELECTOR	MEXICO	
zone. If proposal is	s to drill or deepen direction:	proposal is to deepen or plug b Illy, give pertinent data on sub				-	
preventer program, i 24.		<b>7</b>					
$(\mathcal{I})$	uhutter.		nt for ERT N. ENFIEL	חו	DATE JUNE	15, 1982	
SIGNED	Arthur R. Brown				DATE OUNL	109 1002	
(This space for l	(Ong. Sgd.) GEORG	EH. STEWART					
PERMIT NO.			OVAL DATE				
	JUN 2.3 198	2					
APPROVED BY CONDITIONS OF AP	1		·		DATE		
	JARIE A GUILT						
	<ul> <li>Constraints of the second secon</li></ul>						

# N MEXICO OIL CONSERVATION COMMISS \*\*

Form C - L	C 2
Supersede	C-128
Effective	1-1-65

All distances must be from the outer boundaries of the Section							
Operator			l,ease		Well tip.		
ROBERT N. I	ction	Township	FEDERAL				
			Range	County			
K Actual Footage Location	26 n of Well:	9 SOUTH	29 EAST	(	CHAVES		
1980 te	ret from the SOL	JTH line and	1980	foot toom the	WEST		
Ground Level Elev.	Producing For		P∞1	leet from the	WEST line		
4009.6		QUEEN	WILDC/	λT	40		
	creage dedica	ted to the subject we	ll by colored pen	cil or hachure	marks on the plat below.		
2. If more than interest and r	one lease is oyalty).	dedicated to the well	, outline each an	d identify the o	ownership thereof (both as to working		
dated by comr	munitization, u ]No Ifan "no,"list the o	nitization, force-pooli nswer is "yes," type o	ng. etc? f consolidation		nterests of all owners been consoli- en consolidated (Use reverse side of		
this form if ne No allowable forced-pooling sion.	will be assigne	ed to the well until all or until a non-standard	interests have be 1 unit, eliminating	en consolidate t such interests	ed (by communitization, unitization, s, has been approved by the Commis-		
	1				CERTIFICATION		
	l		l				
	             				i hereby certify that the information con- tained herein is true and complete to the best of my survivedge and belief.		
	1		1		Agent for		
	, ! ↓		2		ROBERT N. ENFIELD		
	1		1		JUNE 15, 1982		
			GINEER & CHANGE		I hereby certify that the well-location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the some is true and correct to the best of my knowledge and belief		
	0861		WEXICO DO		Cate : uveyes 6-4-82 Registere : i p tessi nai Engineer and of all Screyor And Market 676 Certificate No JOHN W. WEST 676		
0 330 960 '90	1320 1480 'BA'	. 3 1 2440 2301	- <b>5</b> G: 1000	<b>BOC</b> C	PATRICK A. ROMERO 6668 Ronald J. Eidson 3239		

# SUPPLEMENTAL DRILLING DATA

#### ROBERT N. ENFIELD

#### WELL NO. 1 FEDERAL 26

#### 1. SURFACE FORMATION: Quaternary.

#### 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	Anhydrite	850
Yates	-	1250
Queen		1850

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Queen 0il

## 4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTING DE	EPTH			
CASING SIZE	FROM	ТО	WEIGHT	GRADE	JOINT
8-5/8"	0	350	24#	K-55	STC
4-1/2"	0	2200	9.5#	K-55	STC

8-5/8" casing will be cemented with sufficient Class "C" cement to circulate to surface.

4-1/2" casing will be cemented with sufficient Light cement, tailed in with 200 sacks of Class "C" cement, to circulate to the surface.

#### 5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below the 8-5/8" casing seat, will be a double ram, 2000 psi working pressure preventer.

BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 350 feet: Fresh water with gel or lime as needed for vicosity control.

<u>350 feet to Total Depth</u>: Water base drilling fluid conditioned as necessary for control of viscosity, pH, weight, and water-loss.

7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill stem tests will be made when samples, drilling time, and other data indicate a test is warranted.

It is planned that electric logs will include GR-CNL-FDC logs.

No coring is planned.

#### 9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

None anticipated.

#### 10. ANTICIPATED STARTING DATE:

It is planned tha work will start as soon as this application is approved with drilling and completion operations lasting about 30 days.



BOP STACK

2000 PSI WORKING PRESSURE

BOP ARRANGEMENT

## SURFACE USE AND OPERATIONS PLAN

FOR

#### ROBERT N. ENFIELD WELL NO. 1 FEDERAL 26 1980'FSL & 1980'FWL SEC.26, T.9 S., R.29 E. CHAVES COUNTY, NEW MEXICO

LOCATED: 16 air miles northwest of Caprock, New Mexico.

FEDERAL LEASE NUMBER: NM-15876

LEASE ISSUED: July 1, 1972. Lease expires June 30, 1982, absent production or diligent drilling operations in progress on such date.

RECORD LESSEE: Robert N. Enfield.

ACRES IN LEASE: 800.

SURFACE OWNERSHIP: Federal.

<u>GRAZING PERMITTEE</u>: Sand Ranch Carleton Davis 2400 Ross Clovis, New Mexico 88101

POOL: Wildcat.

POOL RULES: Statewide. 40 acre spacing for oil.

EXHIBITS: A. Road Map

- B. Plat Showing Existing Wells and Existing Roads
- C. Drilling Rig Layout
- D. Topo Plat

#### 1. EXISTING ROADS:

- A. Exhibit "A" is a road map showing the location of the proposed well as staked. Point "A" on the plat is on US 380 at Milepost 187.2, approximately 41 miles west of Tatum, New Mexico. To go to the proposed well site from this point, exit US 380 to the north onto the caliche road. There is a Sand Ranch sign here. Go northerly and northeasterly, as shown on Exhibits "A" and "D", approximately 5.3 miles, passing the Glenn ranch house at about 3.6 miles, to a point where the ranch road intersects El Paso's pipeline road. Turn northwest onto the pipeline road and go about 0.6 mile. The proposed well site is about 0.8 mile north-northeast of this point.
- B. Exhibits "B" and "D" show existing roads in the vicinity of the well site. Existing roads are color coded on Exhibit "B".

#### 2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be 15 feet wide and approximately 4300 feet long. The proposed new road is labeled and color coded red on Exhibit "B" and the center line of the new road has been staked and flagged. Blading and minor spot repair may be necessary for the 2.3 miles of existing ranch and pipeline road to be utilized for access road north of the Glenn ranch house. See Exhibit "D".
- B. Surfacing Material: Caliche. Watered, compacted, and graded.
- C. Maximum Grade: One percent.
- D. Turnouts: One.
- E. <u>Drainage Design</u>: The new road will be crowned with drainage to both sides.
- F. Culverts: None required.
- G. Cuts and Fills: None necessary.
- H. <u>Gates and Cattle Guards</u>: A cattle guard will be installed in the fence which is located about 0.6 mile south of the well site.

#### 3. LOCATION OF EXISTING WELLS:

A. Existing wells in the immediate area are shown on Exhibit "B".

## 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are no production facilities on the leasehold at the present time. If this proposed well is productive, necessary production facilities will be located on the well pad.

#### 5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not contemplated that a water well will be drilled. Water necessary for drilling operations will be purchased and trucked to the well site over existing and proposed roads, or will be moved to the well site by temporary pipeline laid on the ground alongside existing and proposed roads.

## 6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche needed for construction work will be taken from an existing pit on privately owned land in the SW4NW4 of Section 35, T.9 S., R.29 E., Chaves County, New Mexico, and will be moved to the well site over existing and proposed roads. Location of the caliche pit is shown on Exhibit "D".

#### 7. METHOD OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits.
- D. Oil produced during tests will be stored in test tanks until sold.
- 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 the trash pit is shown on Exhibit "C".
- F. All trash and debris will be buried or removed from the well site within 30 days after completion of 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, and trash pit and the location of major rig components.
  - B. No cut and fill will be necessary. Clearing and levelling of the well site will be required.
  - C. 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 the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are dry.
- C. After abandonment, all equipment, trash and junk, will be removed and the well site will be cleaned. Any special rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and will be accomplished as rapidly as possible.

#### 11. OTHER INFORMATION:

- A. <u>Topography</u>: Regionally the land surface is gently undulating and duny. In the immediate area, the land surface slopes gently to the south.
- B. Soil: Top soil at the well site is sand.
- C. Flora and Fauna: The vegetative cover is sparse and consists of mesquite, yucca, shinnery oak, sand sage, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
- D. <u>Ponds and Streams</u>: There are no rivers, lakes, streams, or ponds in the immediate area.
- E. <u>Residences and Other Structures</u>: None within two miles of the proposed well site.
- F. <u>Archaeological</u>, <u>Historical</u>, or <u>Other Cultural Sites</u>: None observed in the area.

- G. Land Use: Grazing and wildlife habitat.
- H. Surface Ownership: Federal.

## 12. OPERATOR'S REPRESENTATIVE:

The representative responsible for assuring compliance with the approved Surface Use and Operations Plan is:

James F. O'Briant O'Briant Engineering P.O. Box 10487 Midland, Texas 79702 Office Phone: 915-683-5511 Home Phone: 915-694-8907

## 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 the operations proposed herein will be performed by Robert N. Enfield and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

June 14, 1982

Date:

Arthur R. Brown, Agent for

ROBERT N. ENFIELD







