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OCT 23 1987 OIL CONSELLE

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

By DIC

October 20, 1987

151-2422 RULE-184F()

Vada Pennsylvanian Pool

160 Acre dedication NW/4 Sect 34

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Attn: David Catanach

RE: MWJ-"34" Federal #1. 660' FNL & 1340' FWL Sec 34, T-8S, R-36E Roosevelt County, New Mexico

×

Gentlemen:

The captioned well has been permitted as a Pennsylvanian test in the Vada (Penn) field, and MWJ requests the approval of an unorthodox location for the MWJ "34" Federal #1. A plugged producer, located 660' FNL and 660' FWL of Section 34, has caused the location to move to the west with the consideration of possible drainage from the old hole.

All offset operators to the MWJ "34" Federal #1 have been notified of our request, and waivers of their objections to the unorthodox location have been obtained.

Your consideration of our request for the approval of the unorthodox location of the MWJ "34" Federal #1 is greatly appreciated.

Very truly yours,

MWJ PRODUCING COMPANY

Aton Vendle

Stan Venable

SV:pd

Land Villander V and .

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# MWJ PRODUCING COMPANY

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#### PETROLEUM PRODUCERS

18 A.C

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

RE: MWJ Federal 34 #1
Sec 34, T-8S, R-36E
Roosevelt County, New Mexico

\*

Gentlemen:

AMERICAN PETROFINA COMPANY OF TEXAS, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours,

AMERICAN PETROFINA/COMPANY OF TEXAS Correlal F. Smilley By Fina Oil and Chemical Company

Title District Production May-

Date 10-8-87

#### ★ PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

\*

Gentlemen:

MOBIL PRODUCING TEXAS AND NEW MEXICO, INC., as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours,

MOBIL PRODUCING TEXAS AND NEW MEXICO, INC.

Μ. Ε. Sweeney

Environmental & Regulatory Manager

Date 10/07/87

\*

PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216 October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

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Gentlemen:

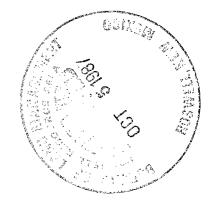
THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours,

THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT

By M-Minerals **F**ítle

Date



#### ★ PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216 October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

×

Gentlemen:

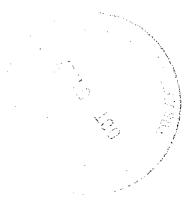
THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours,

THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT

By Niverals Title

Date





\*

★ PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216 October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

Gentlemen:

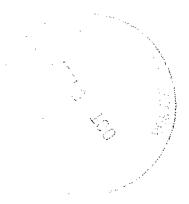
THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours,

THE UNITED STATES DEPARTMENT OF THE INTERIOR-BUREAU OF LAND MANAGEMENT

By Minerals Títle

Date



#### ★ PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

\*

Gentlemen:

EP OPERATING COMPANY, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

EP OPERÁTING COMPANY By inter/ Title estre

Very truly yours,

Agent

#### \* PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

\*

Gentlemen:

EP OPERATING COMPANY, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours, EP OPERATING COMPANY By Ishet Title

Agent

\*

#### PETROLEUM PRODUCERS

400 WEST ILLINOIS SUITE 1100 MIDLAND, TEXAS 79701 TELEPHONE (915) 682-5216

October 2, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

> RE: MWJ Federal 34 #1 Sec 34, T-8S, R-36E Roosevelt County, New Mexico

\*

Gentlemen:

EP OPERATING COMPANY, as an offset operator, hereby waives any objections to the drilling of the MWJ Federal 34 #1 located 1340' FWL and 660' FNL of Section 34, Township 8S, Range 36E, Roosevelt County, New Mexico.

Very truly yours, EP OPERATING COMPANY By Title star

Agent

#### ROSWELL RESOURCE AREA SPECIAL DRILLING STIPULATIONS

OOT 19EC7

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

( )

	J Producing Co.	WELL NO. & NAME #1-MWJ 34 Federal
LOCATION 660	F N L & 1340'	F <sub>W</sub> L SEC. 34, T. 8S., R. 36E.
LEASE NO. NM	<u>- 57710</u> COUNT	Y <u>Roosevelt</u>

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 in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CFR 3165.3 and 3165.4.

I. SPECIAL ENVIRONMENT REQUIREMENTS

[XX] Lesser Prairie Chicken (Stips attached) [] San Simon Swale (Stips attached)
[] Floodplain (Stips attached) [] Other

LI. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING

[] The BLM will monitor construction of this drill site. Notify the Roswell Resource Area Office, BLM at least working days prior to commencing construction at (505) 624-1790.

[] The drill pad for this well must be surfaced with inches of compacted .

[] All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximately \_\_\_\_\_\_ inches in depth. Approximately \_\_\_\_\_\_ cubic yards of topsoil material will be stockpiled for reclamation.

[ ] The access road authorized by this APD will conform to the attached "STANDARD STIPULATIONS FOR ROAD RIGHTS-OF-WAY IN THE ROSWELL DISTRICT, BLM."

[] Other

III. DRILLING OPERATIONS REQUIREMENTS

The Bureau of Land Management office is to be notified at (505) 624-1790, in sufficient time for a representative to witness:

[X] 1. Spudding [X] 2. Cement casing 13 3/8 inch 8 5/8 inch 5 1/2 inch [] 3. BOP tests [] Other

IV. CASING

[X] <u>8 5/8</u> inch surface casing should be set <u>400 ft</u>. and cement circulated to the surface. If cement does not circulate to the surface this BLM office will be notified and a temperature survey or cement bond log will be run to verify the top of the cement. Remedial cementing will be done prior to drilling out of that string.

[X] Minimum required fill of cement behind the 5 1/2 inch production casing is to isolate all water, oil and gas

[] Other

V. PRESSURE CONTROL

X Before drilling below the <u>85/8</u> inch casing, the blowout preventer assembly will consits of a minimum of:

[] One Annular Preventer [X] Two RAM-Type Preventers [X] Other minimum 3000 psi w.p.

[X] After setting the 8 5/8 inch casing string, and before drilling into

the <u>Wolfcamp</u> Formation, the blowout preventers and related control equipment shall be pressure-tested as described in General Requirements. Any equipment failing to test satisfactorily will be repaired or replaced.

- [] The test will be conducted by an independent service company.
- [] The results of the test will be reported to the appropriate BLM office.
- [] The Bureau of Land Management office is to be notified in sufficient time for a representative to witness the test.

[] Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, will be installed and operating before drilling into the \_\_\_\_\_\_ Formation, and will be used until production casing is run and cemented. Monitoring equipment will consits of the following:

- [] 1. 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.
- [] A Hydrogen Sulfide Contingency Plan will be approved by this BLM office before drilling below the Formation. A copy of the plan will be posted at the drilling site.
- [] Other

#### VI. WELL COMPLETION REQUIREMENTS

[] A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the Bureau of Land Management. The effective date of the agreement must be prior to any sales.

[] Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrian, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at a depth of 1/2 inch) with the following seed mixture, in pounds of Pure Live Side (PLS), per acre.

- [] A. Seed Mixture 1 (Loamy Sites) Lehmanns Lovegrass (Eragrostis lehmanniana) 1.0 Side Oats Grama (Bouteloua curtipendula) 5.0 Sand Dropseed (Sporobolus cryptandrus) 1.0
- [] C. Seed Mixture 3 (Shallow Sites) Sideoats Grama (Boute curtipendula) 1.0 Lehmann's Lovegrass (Eragrostis lemmanniana) 1.0 or Boer Lovegrass (E. chloromelas)
- [] B. Seed Mixture 2 (Sandy Sites) Sand Dropseed (Sporobolus cryptandrus) 1.0 Sand Lovegrass (Eragrostis trichodes) 1.0 Plains Bristlegrass (Setaria Magrostachya) 2.0
- [] D. Seed Mixture 4 ("Gyp" Sites) Alkali Sacaton (Sporobolus airoides) 1.0 Four-Wing Saltbush (Atriplex canescens) 5.0

Seeding should be done either late in the fall (September 15 - November 15, before freeze up) or early as possible the following spring to take advantage of available ground moisture.

[X] Other - 1.) Approval needed from NMOCD for an unorthodox location. 2.) Surface reclamation will be in compliance with the surface landowner-operator agreement.

#### LESSER PRAIRIE CHICKEN STIPULATIONS

- 1. There shall be no earthmoving, exploratory or developmental drilling, completion, plugging and abandonment activities within the Lesser Prairie Chicken Habitat Management Plan (HMP) Area between April 1 and May 31; any work in progress shall be completed prior to April 1. Activities resulting in minimal disturbance for a short period of time shall be allowed after 9 AM during the prairie chicken booming season. Any deviation from this stipulation must be approved by the Area Manager or appropriate authorized officer.
- 2. All gas or diesel combustion engines required for production of this well shall be required to have appropriate mufflers installed to effectively reduce the impact of excessive noise levels within this Lesser Prairie Chicken HMP Area.
- 3. In the event an authorized pit is utilized in conjunction with production or is required in an emergency situation for the purpose of collecting waste crude oil or caustic fluids for over a 48 hour period, a fine mesh netting shall be required to cover the pit to protect wildlife in this Lesser Prairie Chicken HMP Area until the pit is no longer a threat to wildlife.

Form 3160-3 (November 1983) <sup>1</sup> (formerly 9-331C)	DEPARTMEN	DPERATONS TED STATES T OF THE INTE LAND MANAGEME		RIPI( 'E' ictions on side)	Form approved. Budget Bureau N Expires August 3 5. LEASE DESIGNATION A	1, 1985
					NM-57710	OR TRIBE NAME
	I FOR PERMIT	TO DRILL, DEEL	PEN, OR PLUG I	BACK		
La. TYPE OF WORK D. TYPE OF WELL		DEEPEN 🗌	PLUG BA	СК	7. UNIT AGREEMENT NA	MD
			SINGLE MULTI		8. FARM OR LEASE NAM	
2. NAME OF OPERATOR			(Mr. John Sch	lagal)	MWJ 34 FEDE	RAL
MWJ PRODU 3. ADDRESS OF OPERATOR	UCING COMPAN	Y	(Ph. 915-682-	5216)	9. WELL NO.	
400 W. I.	llinois Ave.	, Suite 1100	, Midland TX	79701	10. FIELD AND POOL, OR	WILDCAT
4. LOCATION OF WELL (Re At surface	eport location clearly an	fin accordance with any FWL of Sect	State regulrements.*)		Vada - Penn 11. SEC., T., R., M., OR BI AND SUBVEY OB ARE	
At proposed prod. zon	e		•	it C) 농NW농)	Sec. 34-85-	
Same 14. DISTANCE IN MILES A	ND DIRECTION FROM NE	AREST TOWN OR POST OFF		4INW 4 /	12. COUNTY OR PARISH	13. BTATE
			nd, New Mexic	:0	Roosevelt	NM
13. DISTANCE FROM PROPULOCATION TO NEAREST	SED*		NO. OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED	
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	6601)	160	TOT	HIS WELL 160	
18. DISTANCE FROM PROP TO NEAREST WELL, DI	USED LOCATION*		PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THI	IS LEASE, FT.	NA 9	950' Bough C		Rotary	
21. ELEVATIONS (Show whe					22. APPROX. DATE WOR	
G. L. 40	84'				October 15,	1987
		PROPOSED CASING A	ND CEMENTING PROGRA	АМ		~
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	
<u>    17  1/2"                                  </u>	<u>13 3/8"</u> 8 5/8"	<u>48</u> # 24# & 32#	400'		<u>icient to cir</u> icient to cir	
7 7/8"	5 1/2"	17#	9950'		sacks (2 stag	
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SIGNED	-a Smart		Agent		DATE Oct.	5,1987
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PERMIT NO.	Dhilt	'n	APPROVAL DATE			11,107
APPROVED BY CONDITIONS OF APPROV.	APPROVAL OF CERTIFY THAT T	HE APPLICANT HOLI	DOES NOT WARRANT DS LEGAL OR EQUITA	BLE	DATE	16[8]

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Title 18 U.S.C. Section 1064 HILLS IN ARALIGANTY CONDUCTOR BERATIONS ITHEREONE to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

### N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances				Section.		
Cperator MWJ	PRODUCING C	OMPANY	IMW	∜∫ FEDERA	al 34			Well No. 1
Unit Letter	Section	Township		Range		County		
С	34	8 South		36 EA	ST	Roc	SEVELT	
Actual Footage L 660	Location of Well:	North	line and	1340		from the	WEST	line
Ground Level Ele		Formation	Poo	, i	1001	nom me		ted Acreage:
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1. Outline	the acreage ded	icated to the sul	oject well l	by colored p	encil of	r hachure	marks on the plat	below.
interest	<b>and royalty)</b> . Fe	ederal Oil 8	ƙ Gas le	ease NM-	-5771	0 is c	only lease i	
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Ves Yes	8 🗌 No 🛛	lf anower is "yes;	type of cc	nsolidation			<u> </u>	N
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	1			1			October	5, 1987
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#### SUPPLEMENTAL DRILLING DATA

#### MWJ PRODUCING COMPANY WELL #1 MWJ 34 FEDERAL NE뉰NW뉰 SEC. 34-8S-36E ROOSEVELT COUNTY, NEW MEXICO

1. <u>SURFACE FORMATION</u>: Sandy soils of Tertiary Age (G.L. Elev. 4084').

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

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Anhydrite	2270'	Tubb	6955 <b>'</b>
Yates	2810'	Abo	7740'
San Andres	4075'	Wolfcamp	9050 <b>'</b>
Glorieta	5530'	Bough "C"	9770'

#### 3. ANTICIPATED POROSITY ZONES:

Water: Down to 250' Oil: Bough "C"

#### 4. CASING DESIGN:

Size	Interval	Weight	Grade	<u>Joint</u>
13 3/8"	0 - 400'	48#	H-40	STC
8 5/8"	0 - 1400'	24#	K-55	STC
	1400 - 4100'	32#	K-55	STC
5 1/2"	0 - 1700'	17#	N-80	LTC
	1700 - 8250'	17#	K-55	LTC
	8250 - 9950'	17#	N-80	LTC

5. <u>PRESSURE CONTROL EQUIPMENT</u>: Two ram-type preventers. BOP Sketch is attached.

#### 6. CIRCULATING MEDIUM:

0 - 400'	Fresh spud mud.
400 - 4100'	Native mud with additives, as needed.
4100 - 9950'	Fresh water conditioned as necessary for control of viscosity and water-loss

- 7. <u>AUXILIARY EQUIPMENT</u>: Drill string stabbing valves will be maintained on the rig floor in the "open" position while drilling operations are in progress.
- 8. LOGGING PROGRAM: Electric logs will include a CNL/FDC/GR log.

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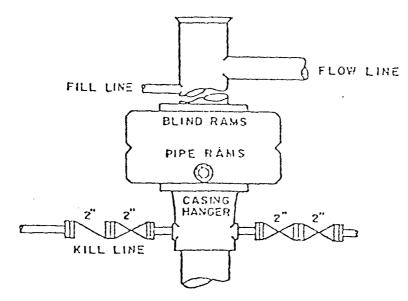
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- 9. ABNORMAL PRESSURES, TEMPERATURES: None anticipated.
- 10. <u>ANTICIPATED STARTING DATE</u>: It is planned that operations will commence about October 15, 1987. Duration of drilling, testing and completion operations should be 7 to 12 weeks.

### BLOWOUT PREVENTER SKETCH

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MWJ Producing Company Well #1 MWJ 34 Federal NE¼NW¼ Sec. 34-8S-36E



#### 900 Series

#### SURFACE USE PLAN

FOR

DRILLING, COMPLETING AND PRODUCING

MWJ PRODUCING COMPANY WELL #1 MWJ 34 FEDERAL 660' FNL & 1340' FWL SEC. 34-8S-36E ROOSEVELT COUNTY, NEW MEXICO

LOCATED: 7 air miles southeast of Milnesand, NM.

LAND OWNERSHIP: The drillsite is on mineral reserve land which has been acquired by the New Mexico Game & Fish Department.

OIL & GAS LEASE: Competitive lease NM-57710 was issued 12-1-83 for a primary term of 5 years.

RECORD LESSEE: Martin, Williams & Judson

OPERATOR'S AUTHORITY: Designation of Operator

BOND COVERAGE: Lessees \$25,000 statewide bond

ACRES IN LEASE: 160 acres

POOL: Vada - Pennsylvanian Oil Pool

WELL SPACING: 160 acres

EXHIBITS:

- A. Area Road Map
- B. Topographic Map
- C. Oil & Gas Map

D. Sketch of Well Pad

ROAD LOG FROM STATE HIGHWAY #18 TO MWJ 34 FEDERAL WELL

<u>STARTING POINT</u> is at the intersections of State Highway #18 and State Highway #508 at Crossroads, Lea County, New Mexico.

- 0.00 Proceed to the east from intersection along State Highway #508 in an easterly direction for a distance of <u>2.80 miles.</u>
- 2.85 Exit State Highway #508 to the northeast and proceed in a northeasterly direction for a distance of <u>3.75 miles</u>.
- 6.60 Turn left (north) and proceed in a northerly direction for a distance of <u>2.80 miles.</u>
- 9.40 Turn left (west) and proceed in a westerly direction for a distance of <u>0.49 mile.</u> (a cattleguard will need to be installed in the N-S fence at mileage 9.41)
- 9.89 <u>New road starts at this point</u>. continue in a westerly direction for a distance of 0.25 mile to the SE corner of the proposed well pad.
- 10.14 Drillsite. (NE-NW 34-8S-36E)

#### THIRTEEN POINT PROGRAM

- 1. <u>EXISTING ROADS</u>: Existing roads, which lead to the proposed drillsite, are shown on Exhibits "A" and "B".
- 2. <u>PROPOSED NEW ROAD</u>: Proposed new access road will be 0.25 mile in length. Exhibit "B" shows proposed route which will originate at mileage-9.89 on the road log and will terminate at the southeast corner of the proposed drill pad. The center of the proposed new road has been staked and flagged.
  - A. Width: 15 feet with 24-foot R-O-W.
  - B. <u>Surfacing Material</u>: Caliche.



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C. Maximum Grade: Less than 1%.

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- D. <u>Road Design</u>: New road will be constructed by clearing and grading the R-O-W and surfacing the driving area with caliche.
- E. Culverts: None necessary.
- F. <u>Gates</u>, <u>Cattleguards</u>: A cattleguard will be required in the N-S fence at mileage- 9.41 on the road log.
- 3. LOCATION OF EXISTING WELLS: Existing wells in the vacinity of the proposed drillsite are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. This is a non-producing lease and there are no production facilities on the leasehold.
  - B. If the well is productive, production and storage facilities will be located on the well pad.
- 5. LOCATION AND TYPE OF WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial water hauler.
- 6. SOURCE OF CONSTRUCTION MATERIALS: Materials needed for construction of the proposed new road and well pad probably will be obtained from an existing pit in the NW-NE 1-9S-35E or from an existing pit in the NW-NE 34-8S-36E.
- 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 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 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 "D".

- F. All trash and debris will be buried or removed from the wellsite within 45 days after finishing drilling and/or completion operations.
- 8. ANCILLARY FACILITIES: None anticipated.

#### 9. WELLSITE LAYOUT:

- A. The wellsite has been surveyed and a 400' x 400' area has been staked and flagged.
- B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "D".
- C. The well pad will be surfaced with caliche.
- D. The location is relatively flat and will not require any cut or fill.

#### 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 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, all equipment, trash and junk will be removed and the location cleaned.

#### 11. OTHER INFORMATION:

A. <u>Topography</u>: The undisturbed wellsite is at an elevation of 4084 feet and is situated on a nearly flat sandy plain of the Llano Estacado. Drainage in the area is internal owing to the high permeability of the sandy soil. C. Land Type & Use: The vacinity surrounding the drillsite is semi-arid land and its primary use is for the production of oil and gas and for grazing and wildlife.

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- D. <u>Flora</u>: Vegetative cover is moderately sparse. Flora consists primarily of shinnery and broom snakeweed interspersed with yucca, sandbur, sand muhly, sand sage, and other desert plants.
- E. <u>Fauna</u>: No wildlife was observed, however fauna for this type of habitat usually consists of lizards, snakes, rabbits, rodents, coyotes, skunks, prairie chicken, quail, dove and other small birds.
- F. Ponds & Streams: None.

- G. <u>Water Wells</u>: Nearest water well is  $l_2^{l}$  miles to the west-southwest.
- H. <u>Residences & Other Structures</u>: Nearest occupied dwelling is 3 miles to the northeast. The Bluit Gasoline Plant is 3 miles to the north.
- I. Archaeological, Historical & Cultural Sites: Pecos Archaeological Consultants of Carlsbad, NM made an archaeological survey of the proposed drillsite and new road areas on 10-2-87. No sites were found and they are recommending to the BLM that the proposed surface work be approved.
- 12. OPERATOR'S REPRESENTATIVE: Representative responsible for assuring compliance with the approved Surface Use Plan:

John L. Schlagal 400 W. Illinois Ave., Suite 1100 Midland, Texas 79701 Phone 915-682-5216

#### 13. CERTIFICATION:

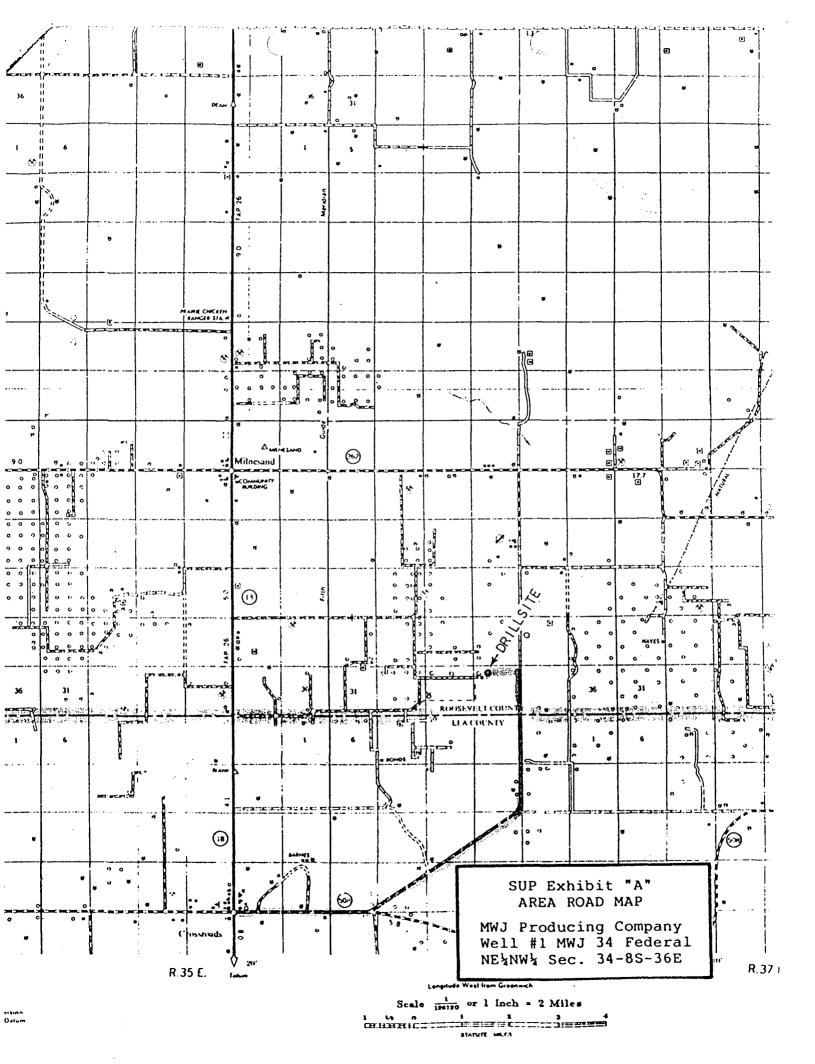
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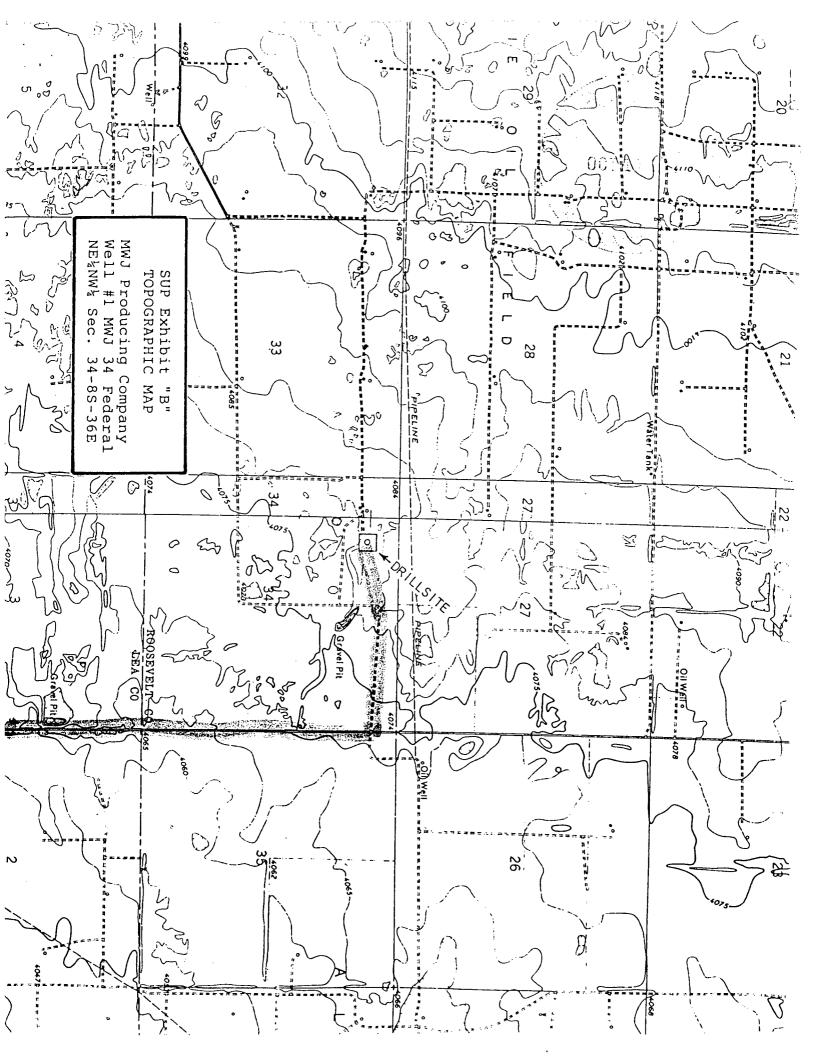
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by MWJ PRODUCING COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

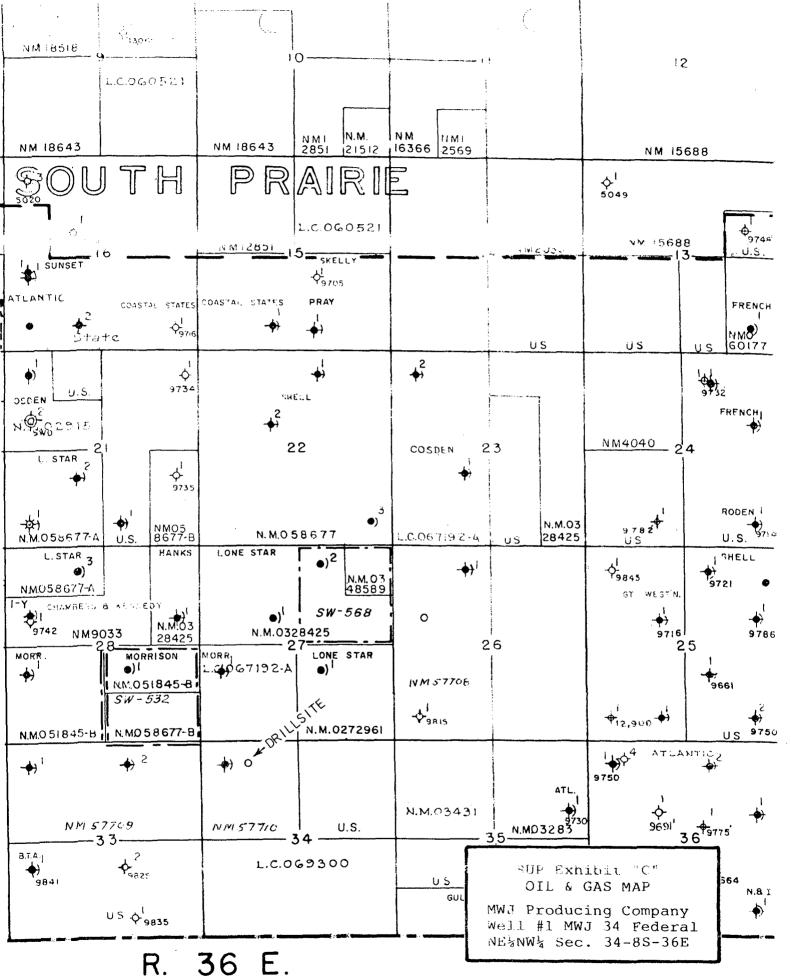
October 3, 1987

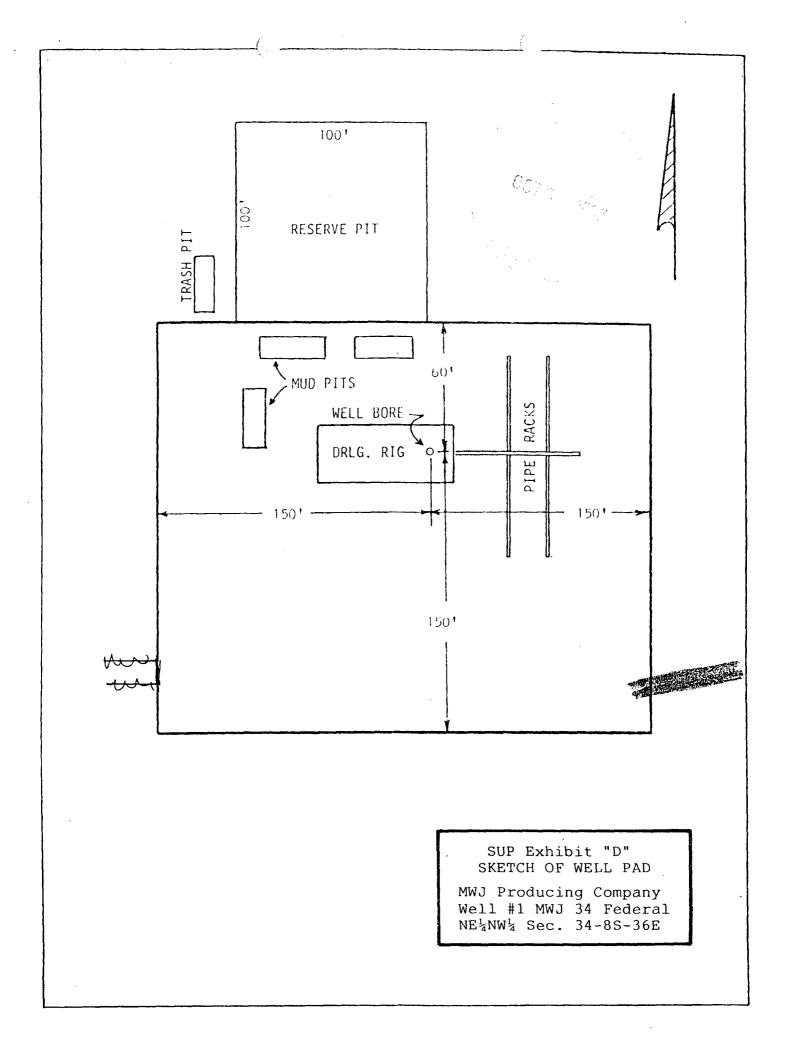
James A. Knauf, Agent

MWJ PRODUCING COMPANY









#### GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES

The <u>General Requirements</u> apply universally to all oil and gas operations on Federal leases in the Roswell District.

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Special Stipulations are in addition to the General Requirements and apply specifically to an individual well.

#### GENERAL

1. A complete copy of the approved Application for Permit to Drill and the accompanying Surface Use and Operations Plan along with any conditions of approval, will be made available to authorized government personnel at the drillsite whenever active construction or drilling operations are underway.

2. Full compliance is required with all applicable laws and regulations: with Federal Regulations at 43 CFR 3160, the lease terms, the approved Permit to Drill, the approved Surface Use and Operations Plan, the Special Drilling Stipulations, Onshore Oil and Gas Orders, NTL's and with other orders and instructions of the authorized officer.

3. Prior approval is required for variance from the approved Surface Use Plan or drilling program. Similar approval is also required for addition to, or alteration of, facilities and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally; but such approval does not waive the written report requirements.

For changes to the Surface Use Plan, contact the Supervisory Mineral Resources Specialist.

For changes to the drilling plan, contact the Petroleum Engineer:

Roswell Resource Area: (505) 624-1790 Carlsbad Resource Area: (505) 887-6544

4. Drilling Deadline: This permit is valid for a period of one year from the date of approval, or until lease expiration, whichever is shorter. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with an approved plan. If construction does not commence within 90 days from the date of approval, the operator must contact the Surface Management Agency prior to beginning construction.

5. Well area and lease premises will be maintained in a workmanlike manner, with due regard to safety, conservation, and appearance. All waste associated with drilling operation will be contained in a separate netted trash pit and buried in place or removed and deposited in an approval sanitary landfill. All garbage (metal containers will be crushed) and debris that is left on-site will be buried at least four feet deep. No hazardous wastes may be buried in place. All trash and debris will be buried or removed from the site within 30 days after drilling operations have ceased. The wellsite will be kept clean and in an aesthetically satisfactory condition for the life of the well.

1 of 8

6. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.

7. No construction activities such as roads, well sites, tank battery sites, pits, or other work involving surface disturbance will be commenced until a Surface Use and Operations Plan is submitted, and approval is obtained in writing.

8. Payment for Federal mineral materials used for construction is due within 60 days following construction of the pad and access road.

#### ON LEASE SURFACE REQUIREMENTS PRIOR TO DRILLING

1. Prior to commencing construction of road, pad, or other associated developments the operator will provide the dirt contractor with a copy of the Surface Use Plan and the attached conditions of approval.

2. Access Roads:

(RESERVED)

#### 3. Archeological or Historical Sites:

The lessee/operator shall comply with all cultural resource laws and policies. The lessee/operator shall immediately report the discovery of any cultural or paleontological resources encountered during dirt work and shall

immediately cease operations until advised to recommence work by the authorized officer. Further, the company shall be held responsible for the conduct of its employees and subcontractors while on lease. Any unauthorized collection or disturbance of cultural or paleontological resources by these persons may result in a shutdown order by the authorized officer.

4. Cave Stipulations:

A. No discarded materials or chemicals will be placed, or disposed of, in sinkholes or cave entrances.

B. If, during any construction activities any sinkholes or cave openings are discovered, all construction activities will cease immediately, and the BLM office will be notified.

5. Paloeontology Stipulations:

Fossils or vertebrate animals discovered during any phase of the operation will be left undisturbed, and the BLM office will be immediately notified.

#### DRILLING OPERATION REQUIREMENTS

1. Each well will have a well sign in legible condition from spud date to final abandonment. The sign will show the operator's name, lease or unit name, well number, location of the well and the lease serial number.

2. Drilling Pits:

A. Mud pits will be constructed so as not to leak, break, or allow discharge of liquids. Pits are not to be located in natural drainage. If plastic material is used to line pits, the plastic must be removed to below ground level before the pits are covered.

B. All unguarded pits containing liquids will be fenced; and any unguarded pit containing oil and/or toxic liquids will be covered with a fine mesh netting, if necessary, to protect wildlife.

C. Liquids in pits will be allowed to evaporate, or be properly disposed of otherwise, before pits are broken. Under no circumstances will pits be cut to be drained.

3. After cementing, but before commencing any test, the casing string will stand cemented under pressure until the cement has reached a compressive strength of at least 500 psi at the shoe, except that in no case will tests be initiated until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log.

4. All casing strings (except the conductor casing) will be pressure-tested (0.2 psi/foot or 1,000 psi, whichever is greater) prior to drilling the plug after cementing; test pressures must not exceed the internal yield pressure of the casing. If the pressure declines more than 10 percent in 30 minutes, or if there is other indication of a leak, corrective measures must be taken. A successful pressure test must be obtained before proceeding to the next step of the drilling program. Test data shall be entered into the daily drillers log.

5. Ram-type preventers and related control equipment must be tested to the rated working pressure of the stack assembly, or to 70 percent of the minimum internal yield pressure of the casing, whichever is less; or to such pressure as the authorized officer may otherwise prescribe. After installation, annular-type preventers must be tested to 50 percent of the rated working pressure; or to such pressure as the authorized officer may otherwise prescribe. Test data will be entered into the daily driller's log.

6. While drill pipe is in use, ram-type blowout preventers shall be actuated to test proper functioning once each trip, but in no event less than once each day. The annular-type blowout preventer shall be actuated on the drill pipe at least once each week.

7. Blowout preventers are to have proper rams for the operations being performed. Casing rams are required when running casing.

8. Blowout preventers are to have handwheels installed where applicable.

9. A choke line and a kill line are to be installed and maintained in good working order. The kill line is not to be used as a fill-up line.

10. The accumulator system will have a pressure capacity to provide for repeated opertation of hydraulic preventers.

11. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life. (See NTL-3)

12. On rotary rigs, a drill string safety valve (or valves) must be maintained in the open position on the rig floor at all times while drilling operations are conducted. Separate valves are required when drilling with a mixed string.

13. On rotary rigs, a kelly cock will be installed and maintained in operable condition.

14. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded in the driller's log.

15. The maximum pressure allowed on blowout preventers during well control operations is to be posted for each casing string.

16. Quantities of mud materials sufficient to insure well control will be maintained, readily accessible for use at all times.

17. When coming out of the hole with drill pipe, the mud level in the hole will be maintained within 100 feet of the surface. The volume of mud required to fill the hole will be watched; and at any time at which there is an indication of swabbing, or an influx of formation fluids, proper blowout prevention precautions must be taken. The mud will not be circulated and conditioned except on or near bottom, unless well conditions prevent the running of pipe to bottom. 18. From the time operations are initiated until drilling operations are completed, a member of the drilling crew or the toolpusher will maintain rig floor surveillance at all times, unless the well is secured with blowout preventers or cement plugs.

#### 19. Drill-Stem Tests:

Test intervals and estimated amount of oil and gas recovered and/or produced during drill-stem tests are to be shown in the driller's log and Sundry Report Form 3160.5.

20. Driller's Log:

- A. The following shall be entered in the daily driller's log:
  - Blowout-preventer pressure tests, including test pressures and results.
  - (2) Blowout-preventer tests for proper functioning.
  - (3) Blowout-prevention drills conducted.
  - (4) Casing run, including size, grade, weight, and depth set.
  - (5) How pipe was cemented, including amount of cement, type, whether cement circulated, location of cementing tools, etc.
  - (6) Waiting on cement time for each casing string.
  - (7) Casing-pressure tests after cementing, including test pressure and results.

#### 21. Safety:

- A. New employees are to be advised of safety procedures.
- B. Safety drills will be conducted on a regular schedule.
- C. Hard hats shall be utilized.
- D. Rig lighting will be vapor-or explosion-proof.
- E. Rig-safety lines will be installed.
- 22. Removal of Drilling Rig:

Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill-site without prior approval from the BLM.

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#### 23. Reports:

A. The following reports are to be filed with the appropriate area office within 15 days after the work is completed: original and five copies of Sundry Notice, Form 3160-5, giving complete information concerning:

(1) Setting of each string of casing. Show size, grade and weight of casing set, size hole, depth set, amount and type of cement used, whether cement was circulated, top of cement behind casing if determined, depth of cementing tools used, casing test methods and results, and <u>date work was done</u>. Show spud date on first report submitted.

(2) Intervals tested, perforated, acidized, or fractured, and the results obtained. Show the date work was done.

(3) All undesirable events must be reported to the BLM within 24 hours.

#### WELL COMPLETION

1. 5-Day Production Start-Up Notification:

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site ot allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

2. Original and six copies of Well Completion Report, Form 3160-4, will be sent within 30 days of well completion, even when the well is a dry hole. Show formation tops, drill stem test information, completion data, and production tests. Show all oil and gas zones and important water sands under item 37. Data on water sands should include rate of water inflow or hydrostatic level.

3. Two copies of each electrical and radioactivity log run.

#### 4. Water Disposal and Pits:

An application for approval of the disposal method for water production and/or pits must be filed with the appropriate BLM area office pursuant to NTL-2B.

#### 5. Gas Flaring or Venting:

An application for flaring or venting of gas must comply with NTL-4A. Short-term venting and flaring of gas is allowed without prior approval pursuant to NTL-4A, Part III.

#### 6. Painting Stipulations:

All above-ground permanent facilities, including, but not limited to, tanks, separators, heater treaters, and piping 4-inches in diameter or greater shall be painted Carlsbad Canyon, Munsell Soil, Color-25Y 6/2 (Formerly-Sandstone Brown) within 60 days of installation (unless contrary to state and Federal safety requirements). Any deviations must be authorized in advanced by the BLM. Deviations from this color may be required by the authorized officer to fit special situations.

7. A Monthly Report of Operations must be filed monthly for each lease, communitized or unitized area or for each participating area beginning with the month in which operations were first initiated. Such report must include all wells that are not approved as permanently plugged and abandoned. Wells must be identified by Federal or Indian lease number or by State or fee indentification as appropriate. Separate lines should be used where necessary to identify leases, participating area, etc.

#### Subsequent Well Operations

Approval for and subsequent report of subsequent well operations is needed as per code of Federal Regulations 43 CFR 3160.3-2.

#### ABANDONMENT

1. If the well is dry and is to be plugged, approval of the proposed plugging program may be obtained orally. However, oral approval must be confirmed in writing by immediatley filing an original and six copies of the Notice of Intention to abandon on Form 3160-5 with the appropriate BLM area office. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where plugs are to be placed, type of plug, type of plugging mud, etc.

2. Plugging Procedures:

A. Plugging equipment used is to have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs.

B. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations.

C. All cement plugs are to be placed through tubing (or drill pipe) and shall be a minimum of 25 sacks or 100 feet in length, whichever is greater. The minimum length of plugs for deeper wells is 150 feet in length for depths 5,000' - 10,000' and 200 feet in length for depths below 10,000'.

D. Any cement plug placed when the well is not full of fluid, or when the well may be taking fluid, will be touched after cement has set to verify the proper location.

E. Mud must be placed between plugs. Minimum consistency of plugging mud must be that obtained by mixing at the rate of 25 sacks (50 lbs each) of gel per 100 barrels of water.

3. Upon completion of approved plugging, erect a regulation well marker which should not be less than 4 inches in diameter and extend at leat 4 feet above general ground level. The top of the marker must be closed or capped. The following minimum information shall be permanently placed on the marker with a plate, cap, or welded bead:

- A. Operator
- B. Well number and name
- C. Section Towship Range

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- D. 1/4 1/4 section or footage location from section lines
- E. Lease No.

If approval is obtained to omit the dry hole marker, casings are to be cut off four feet below ground level.

4. Following receipt of "Notice of Intent to Abandon", final BLM requirements for surface reclamation will be specified by the approving BLM office.

5. Within 15 days after the plugging operation have been completed Subsequent Report will be filed; Sundry Notice Form 3160-5, an original and six copies. The Subsequent Report of Abandonment will contain; the dates of the plugging operations, the plug types depth, cement volumes, and other details of the plugging operation.

6. If the well is not drilled, please notify the BLM so that an official release can be approved.

#### MWJ FEDERAL 34 #1

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#### OFFSET OPERATORS:

American Petrofina Company of Texas P. O. Box 2990 Midland, Texas 79702

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Mobil Producing Texas & New Mexico, Inc. P. O. Box 633 Midland, Texas 79702

EP Operating Company P. O. Box 4815 Midland, Texas 79702

United States Department of the Interior Bureau of Land Management P. O. Drawer 1857 Roswell, New Mexico 88202-1857

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