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			5. LEASE DESIGNATION AND SERIAL NO.						
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PROPERTY NO	16069								
POOL CODE 9	16313						0 2		
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APPROVED BY SI	. J. Maceur	<u> </u>	TLE						
CONDITIONS OF APPROVAL, IF ANY :						APPROVAL SUBH			
APPROVAL OF THIS APPLICATION DOES NOT WARRANT GENERAL REQUIREMENTS AND OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR OPECIAL STIPULATIONS									
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United Shill and FARMA high Sig HEREONent statements or representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Designed bit Image of the sector of the	API Number 3D-025-32743 96:			Pool Code 313 North Teague Abo Drink								
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SUPPLEMENTAL DRILLING DATA

SAMEDAN OIL CORPORATION LANGLIE MATTIX 4 #1 SECTION 4, T-23-S, R-37-E LEA COUNTY, NEW MEXICO

1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Penrose Grayburg	3500' 3610'
San Andres	3900'
Glorieta	5050 '
Paddock	5240′
Blinebry	5500 ′
Tubb	6100 <i>'</i>
Drinkard	6230 '
Abo	6610 '

3. ANTICIPATED HYDROCARBON BEARING ZONES:

Glorieta	Tubb
Paddock	Drinkard
Blinebry	Abo

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	FROM	<u>T0</u>	WEIGHT	GRADE	JOINT
9 5/8"	0	1150	36	J-55	ST&C
7"	0	7250	26	J-55	LT&C

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

9 5/8" casing will be cemented with a lead slurry of 450 sacks Class C cement with 4% gel, 1/4# Celloflake/sk and 2% CaCl2. Tail with 200 sacks Class C cement with 2% CaCl2. Cement to circulate to surface.

7" casing will be cemented with a lead slurry of 750 sacks Class C Light cement (65:35:6) containing 5% salt/sk and 1/4# Celloflake per sack. Tail with 600 sacks Class H 50/50 Poz with 2% gel containing 0.6% FLA, 0.3% cement dispersant and 0.2% SMS free water control. Cement is designed to circulate to surface. At a minimum, cement should be above the top of the Penrose injection at 3550'.

Cement volumes and additives may be modified based on well data.

Langlie Mattix 4 #1 Supplemental Drilling Data Page 2:

5. PRESSURE CONTROL EQUIPMENT

Blowout equipment while drilling below the 9 5/8" casing seat will be a 3000 psi working pressure BOP stack with annular preventer. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

<u>Surface to 1150':</u> Fresh water spud mud. Viscosity of 36 - 38 as required for hole cleaning.

<u>1150' to 5000':</u> Drill out from under surface with brine water circulating the reserve pit with a viscosity of 28 - 30 and a mud weight of 9.8 to 10.1.

<u>5000' to 6900'</u>: Drill with brine water circulating the reserve pit. If sufficient samples cannot be obtained, return to the steel pits and add salt water gel for a viscosity of 30 - 32 and add starch for a water loss of 20 - 25.

<u>6900' to 7250':</u> At 6900', add salt water gel to the system to increase viscosity prior to logging. Reduce water loss to 20 - 25. This should assure sufficient mud to allow the well to be logged.

7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in used when drilling below 5000'.

8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem tests are planned, however a drill stem test may be performed if well data indicates a test is warranted.

Electric logs will include CNL-FDC-GR and DLL-MSFL-GR.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

Water flows are possible in the salt section from 1200' to 2500' and have been encountered in wells drilled by Texaco to the south. These flows typically deplete within 24 hours. Offsetting injection in the Penrose from 3550' to 3644' could cause abnormal pressure when drilling this section of the hole.

No known drilling problems have been encountered below this depth.

Langlie Mattix 4 #1 Page 3:

10. ANTICIPATED STARTING DATE:

Drilling operations should begin within 30 days after approval of this application. Drilling and completion operations should be completed within 90 days after spudding.

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& FLOW LINE FILL LINE E ANNULAR TYPE PREVENTER Adjustable 575 CHOKE RAMS 2 IJ TIN DUM OT C rams \bigcirc 1. 3"_ DRILLING SPOOL 3" .3 " 2 3" 2 Z Π 11[\square TO RESERVE KILL LINE 2 2 CASING 2" 2" TO MUD PIT HANGER BLIND FLANGE **JI**[ADJUSTABLE CHOKE

BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

