Form 3160-3 (November 1985) (formerly 9-331C)

SPECIAL STIPULATIONS

### N.M. OIL COMS. COMMISS P.O. BOX 1980 UNITED STATES HOBBS, NEW All States on reverse side) Form approved. Budget Bureau No. 1004-0136 Expires August 21 1007

30-025-3278517

Expires August 31, 1985

## DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  TITE OF WORK  DRILL SO OFFICE ON TRANSPORTER OF TRANSPOR		DOREAU O	F LAND MANA	GEMEN	l 			NM 224	<b>;</b> 4
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Samedan Oil Corporation  ODERS OF PERATOR  10 Desta Drive, Suite 240 East, Midland, Texas 79705  10 Desta Drive, Suite 240 East, Midland, Texas 79705  10 Period Drive, Suite 240 East, Midland, Texas 79705  10 Period Drive, Suite 240 East, Midland, Texas 79705  11 Period Drive, Suite 240 East, Midland, Texas 79705  12 COUNTY OF PERIOD OF WALL (Report   Feating System) and in accordance with any State requirements.)  130 FEEL & \$9980 FML  140 Period Drive Come  15 Period Drive Come  16 Period Drive Come  17 Period Drive Come  18 Period Drive Come  19 Period Drive Come  19 Period Drive Come  10 Period Drive Come  11 Period Drive Come  12 Period Drive Come  13 Period Drive Come  14 Period Drive Come  15 Period Drive Come  16 Period Come  17 Period Drive Come  18 Period Drive Come  19 Period Drive Come  10 Period Come  10 Period Drive Come  10 Period Come  10 Period Drive Come  10 Period Drive Come  10 Period Drive Come  10 Period Drive Come  11 Period Drive Come  12 Period Drive Come  12 Period Drive Come  13 Period Drive Come  14 Period Drive Come  15 Period Drive Come  16 Period Drive Come  17 Period Drive Come  18 Period Drive Come  19 Period Drive Come  10 Period Drive Come  11 Period Drive Come  12 Period Drive Come  12 Period Drive Come  13 Period Drive Come  14 Period Drive Come  15 Period Drive Come  16 Period Drive Come  17 Period Drive Come  18 Period Drive Come  19 Period Drive Come  10 Period Drive Come  10 Period Drive	OIL 📆 G	AS OTHER			IGLE X		E	8. FARM OR LEASE	NAME
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\*See Instructions On Reverse Side

Form 3160-5 (June 1990)

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

FORM APPROVED						
Budget Bureau	No.	10	04-0135			
Expires: M	arch	31	1003			

Expires: March 31, 1993

5. Lease Designation and Serial No.

SUNDRY NOTICES A  Do not use this form for proposals to drill  Use "APPLICATION FOR	NM 2244 6. If Indian, Allottee or Tribe Name			
SUBMIT I	7. If Unit or CA, Agreement Designation			
4. Location of Well (Footage, Sec., T., R., M., or Survey Desc 2310 FWL & 430 FSL Sec 1, T-		8. Well Name and No.  Sarah B #4  9. API Well No.  10. Field and Pool, or Exploratory Area  Cline/Blinebry  11. County or Parish, State  Lea, NM		
TYPE OF SUBMISSION  Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Restake location	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water  (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		
	pertinent details, and give pertinent dates, including estimated date of starting depths for all markers and zones pertinent to this work.)*  logical study	CARS II of MEOEIVED		
	My Title Division Production Clerk	Date10-1-93		
(This space/for Federal of State office use)  Approved by Conditions of approval, if any:	Title	Date		

990 1320 1550 1980 2310 2640

LARRY W. BUSBY R.P.S. #11398

LWB / 99301 / 45SF

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

State of New Mexico Energy, Minerals, and Natural Resources Department

Form C-102 Revised 1-1-59

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

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

# OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT III

eretor S	AMEDAN DIL	CORPORA	TION	Lease	SARA	H 'B'		Well No.	
dt Letter	Section	Township		Range			Count		<del></del>
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#### SUPPLEMENTAL DRILLING DATA

## SAMEDAN OIL CORPORATION WELL NO. 4 SARAH B LEASE

1. SURFACE FORMATION: Quaternary.

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

Yates	2670	Paddock	5420
Penrose	3710	Blinebry	5680
Grayburg	3780	Tubb	6120
San Andres	4100	Drinkard	6220
Glorieta	5140		

#### 3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Primary:	Blinebry	5680
Secondary:	Penrose	3710
_	Graybury	3780
	Paddock	5420
	Tubb	6120
	Drinkard	6220

#### 4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTING	DEPTH			
CASING SIZE	FROM	TO	WEIGHT	GRADE	JOINT
13 3/8"	0'	900'	48#	H-40	ST&C
8-5/8"	0'	4000	24 & 32#	J-55	ST&C
5 1/2"	0 '	6300'	15.5#	J-55	ST&C

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

- 13 3/8"" casing will be cemented with 265 sacks class "C" Lite + 200 sacks class "C" w/2% CaCl + 1/4# cello seal. Cement to circulate to surface.
- 8 5/8" casing shall be run if a significant water flow is encountered. It shall be cemented with a volume to circulate.
- $5\ 1/2$ " casing will be cemented with 250 sacks Super "C" + 365 sacks class "C" + 5/10% CF-14 + 3/10% Thrifty Lite. If need for a stage tool is indicated, it will be positioned to best suit hole conditions at time casing is run. Cement to tie back to last casing string.

Cement may have lost circulation or other additives depending on hole conditions at the time casing is run.

#### 5. PRESSURE CONTROL EQUIPMENT:

Blow out prevention equipment, while drilling below the 13 3/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

#### 6. CIRCULATING MEDIUM:

Surface to 900 feet: Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.

Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. PH 9 to 10. Viscosity 32 to 36.

5100' to T.D.:

Brine base drilling fluid conditioned as necessary for control of weight, viscosity, ph and water-loss.

#### 7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in use while drilling below 3000'.

#### 8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include CNL-FDC-GR and DLL-MSFL-SDL

Mud Logger survey will begin at 3000'.

No coring is planned.

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

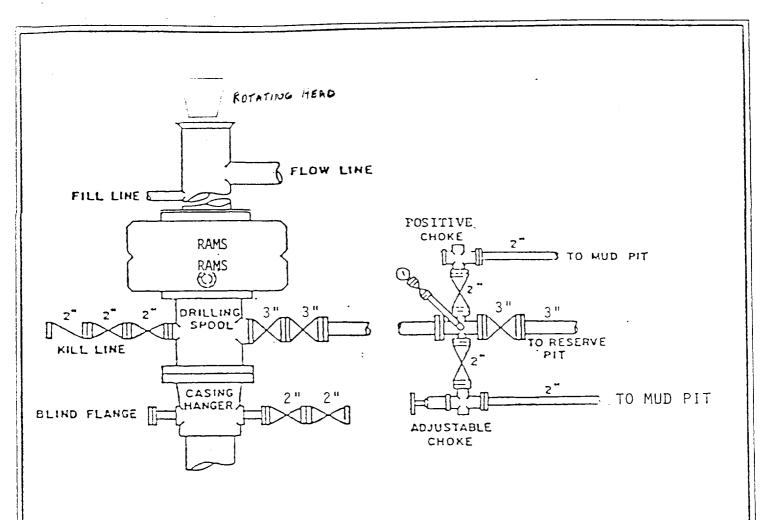
None anticipated.

Expected bottom hole pressure is approximately 3500 psi. Expected bottom hole temperature is approximately 125 degrees Fahr.

Hydrogen Sulfide Drilling Operations Plan is attached.

#### 10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT