Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NMLC-032452-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Langlie Mattix "4" Fed

9. WELL NO.: 2

10. FIELD AND POOL, OR WILDCAT: N.Teague,Drinkard/Abo/~~Tubb~~

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 4, T-23S, R-37E

12. COUNTY OR PARISH: Lea | 13. STATE: NM

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Samedan Oil Corporation

3. ADDRESS OF OPERATOR: 12600 Northborough, #250, Houston, Texas 77067

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1650 FSL & 2030 FWL Unit K
~~At proposed prod. zone~~

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 9 Miles S of Eunice, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1650	1396	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
1320	7250	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3324'

22. APPROX. DATE WORK WILL START*: on approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	9 5/8	36#	1150	650 sx CIRCULATE
8 3/4	7"	26#	7250	3400 sx - SEE STIPS.

SEE ATTACHMENT FOR: Supplemental Drilling Date
BOP Sketch
Surface Use and Operations Plan

After setting production casing, pay zone will be perforated and stimulated as necessary

OPER. OGRID NO. 20153
PROPERTY NO. 16069
POOL CODE 96313
EFF. DATE 11/3/95
API NO. 30-025-33167

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Judy Stroneberry TITLE Div Production Clerk DATE 8/24/95

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ Yolanda Vigil TITLE ASSISTANT AREA MANAGER DATE 10-10-95

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-33167	96313	N. Teague, Drinkard/Abo/~~Tubb~~

Property Code	Property Name	Well Number
16069	LANGLIE MATTIX "4" FEDERAL	2

OGRID No.	Operator Name	Elevation
020153	SAMEDAN OIL CORPORATION	3324

Surface Location

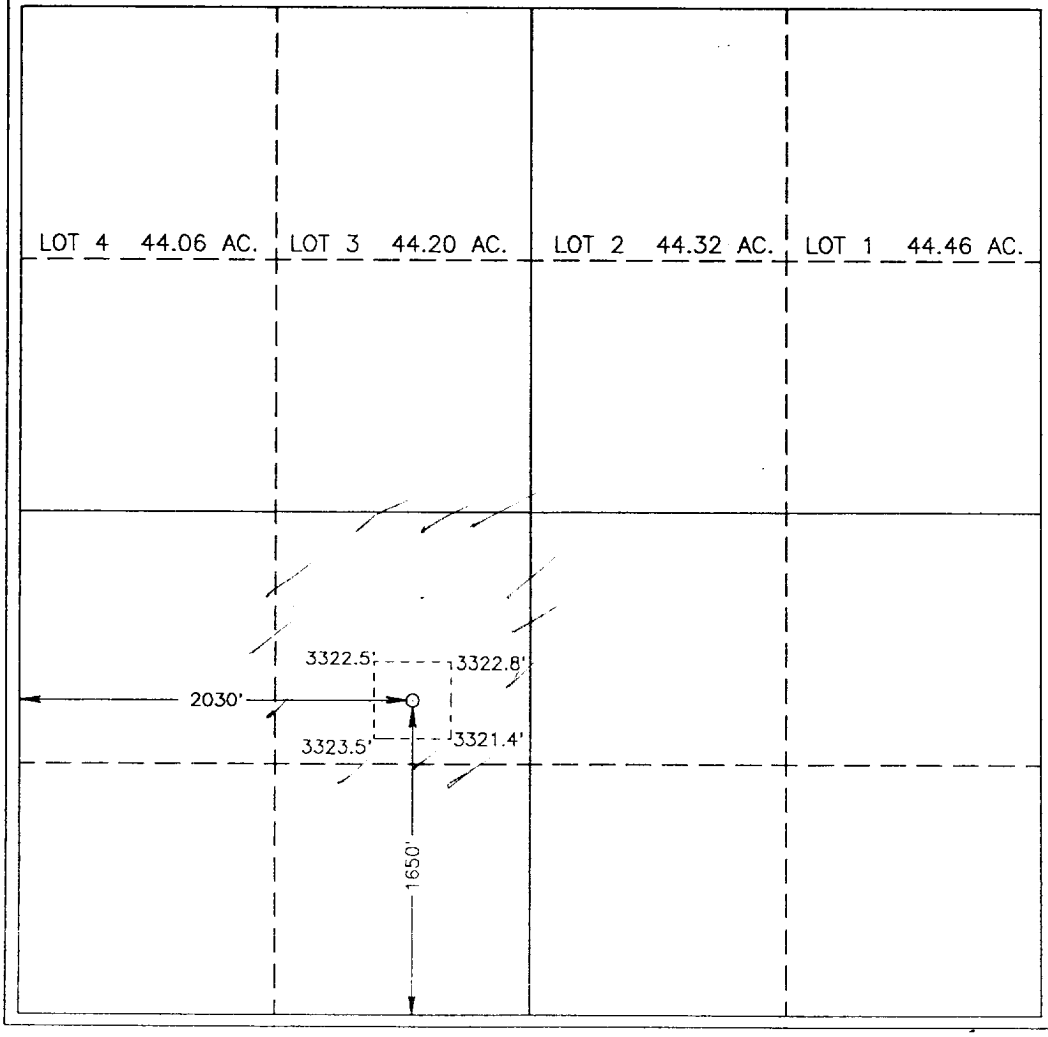
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	4	23 S	37 E		1650	SOUTH	2030	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Judy Throneberry
Signature

Judy Throneberry
Printed Name

Div Production Clerk
Title

08/23/95
Date

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my belief.

AUGUST 3, 1995
Date Surveyed JLP

Signature & Seal of Professional Surveyor

RONALD J. EIDSON
NEW MEXICO
3239
PROFESSIONAL SURVEYOR

8-15-95

W.O. Num. 95-14-1204

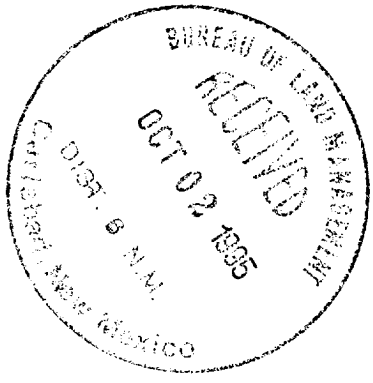
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239
GARY G. EIDSON, 12641

Revised Drilling Plan to Include Bottomhole Pressure Data 9-28-95

SUPPLEMENTAL DRILLING DATA

SAMEDAN OIL CORPORATION

LANGLIE MATTIX "4" FEDERAL #2
SECTION 4, T-23-S, R-37-E
LEA COUNTY, NEW MEXICO



1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

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

3. ANTICIPATED HYDROCARBON BEARING ZONES:

Glorieta	Tubb
Paddock	Drinkard
Blinebry	Abo

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	FROM	TO	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 2800 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. Circulation to surface is not critical, however cement is designed to circulate to surface. At a minimum, cement should be above the top of the Penrose interval at 3500'.

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

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:

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

1150' to 5000': 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.

5000' to 6900': 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.

6900' to 7250': 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'.

Revised Drilling Plan to Include Bottomhole Pressure Data 9-28-95

Langlie Mattix "4" Federal #2
Supplemental Drilling Data
Page 3:

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.

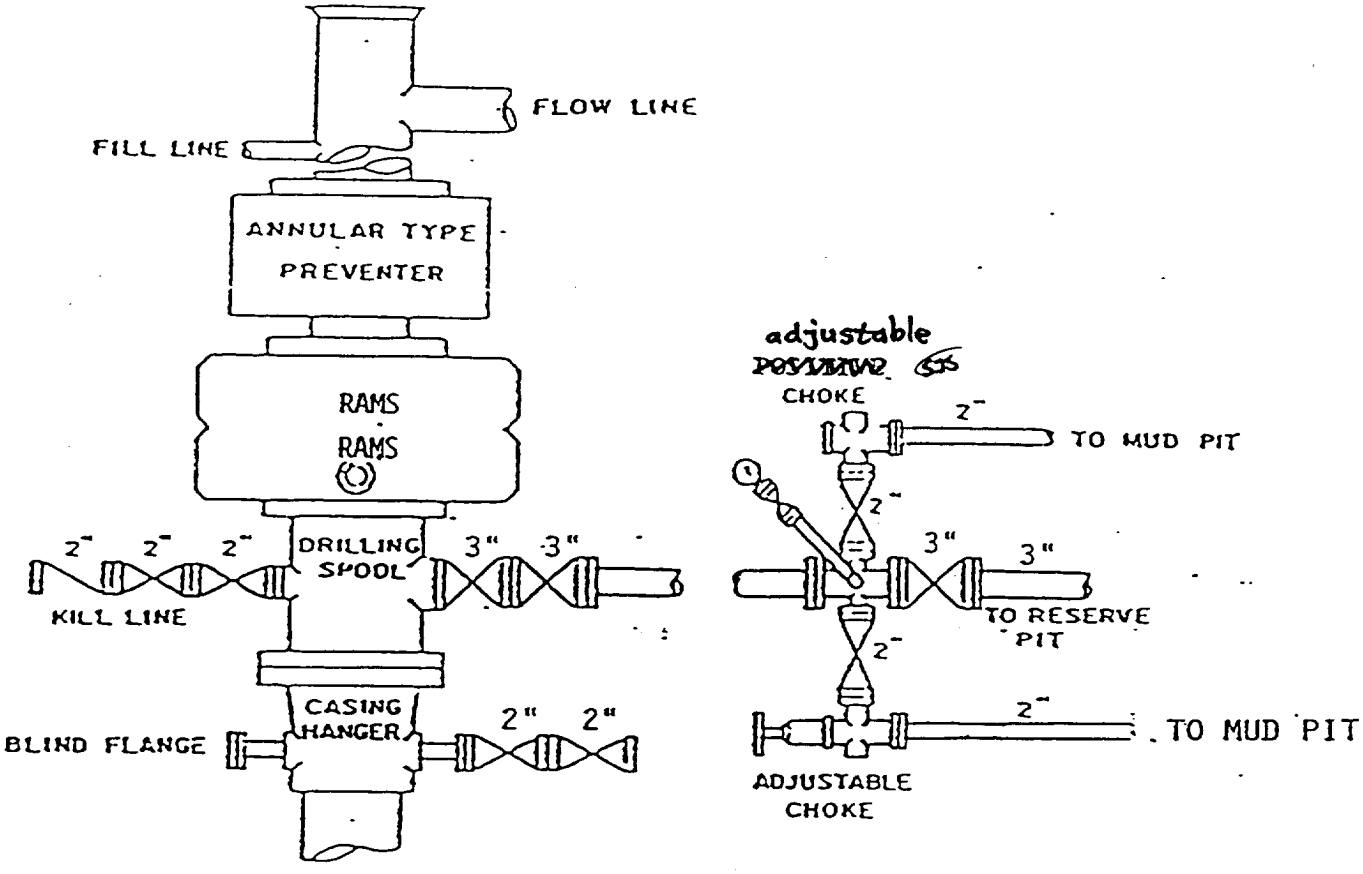
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

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. No known drilling problems have been encountered below this depth.

Reservoir pressures in all six anticipated hydrocarbon bearing zones is anticipated to be normal and not depleted. Offset producing wells operated by Texaco in all six zones exhibit normal bottomhole pressures and no abnormal depletion or pressures above hydrostatic have been noted. No bottomhole pressure data is available or published. ANTICIPATED MAX. BHP: 2644 PSI.

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.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT