

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Bureau of Minerals and Natural Resources Department

Form C-101  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504

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

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

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

API NO. (assigned by OCD on New Wells)  
30-015-21546

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
V-3576

OCT - 5 1992

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:  
DRILL ☐ RE-ENTER ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. Name of Operator  
Yates Petroleum Corporation

3. Address of Operator  
105 South Fourth Street, Artesia, New Mexico 88210

4. Well Location  
Unit Letter L : 1980 Feet From The South Line and 660 Feet From The West Line  
Section 17 Township 21 South Range 27 East NMPM Eddy County

7. Lease Name or Unit Agreement Name  
Aviette "ALK" State

8. Well No.  
1

9. Pool name or Wildcat  
Undes. Burton Flat Strawn

10. Proposed Depth  
11,000'

11. Formation  
Strawn

12. Rotary or C.T.  
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)  
3214' GR

14. Kind & Status Plug. Bond  
Blanket

15. Drilling Contractor  
Undesignated

16. Approx. Date Work will start  
ASAP

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	48# H-40	374'-in place	375 sacks	Circulated
12 1/4"	9 5/8"	36# K-55, 32# H-40	2,989'-in place	1670 sacks	Circulated
8 3/8"	5 1/2"	17# N-80, 20# N-80	Cut off @9464'		

2093' in place 350 sacks 10,220

This well was originally drilled by Cities Service Oil Company as the State CS #1. Drilled in 1975 to a TD of 11,557. Plugged and abandoned in December 1975. The well was re-entered by Permian Corporation for purpose of SWD well in June 1976. Plugged and Abandoned in August 1982 Yates Petroleum Corporation plans to re-enter this drilling out the plugs to the top of the casing stub with an 8 3/4" bit. Dress off top, outside and inside of stub for this back. Will run 5 1/2" casing 17# N-80 & J-55 and tie-in to stub. Run logs, perforate, squeeze, and cement with 800 sacks of cement. Run logs, perforate, and stimulate as needed for production.

MUD PROGRAM: See attached procedure

BOPE PROGRAM: 3000 PSI WP hydraulic couble ram BOP with 2 7/8" pipe rams and blind rams and an annular preventor and/or rotating head.

Non-Standard Location has been applied for with NMOCD.

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 4-27-93  
UNLESS DRILLING UNDERWAY

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE Clifton R. May TITLE Permit Agent DATE 10-2-92  
TYPE OR PRINT NAME Clifton R. May TELEPHONE NO. 748-1471

(This space for State Use)

ORIGINAL SIGNED BY  
MIKE WILLIAMS  
SUPERVISOR, DISTRICT II

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE OCT 27 1992

CONDITIONS OF APPROVAL, IF ANY:

NSL # 3179  
Appv 10-14-92

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Santa Fe, New Mexico 87504-2088

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## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>YATES PETROLEUM CORPORATION</b>			Lease <b>AVEITTE "ALK" State</b>		Well No. <b>1</b>
Unit Letter <b>L</b>	Section <b>17</b>	Township <b>21 South</b>	Range <b>27 East</b>	County <b>EDDY</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>660</b> feet from the <b>West</b> line					
Ground level Elev. <b>3214' GR</b>		Producing Formation <b>STRAWN</b>		Pool <b>UNDESIGNATED BURTON FLAT STRAWN</b>	Dedicated Acreage: <b>320 Acres</b>

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). \_\_\_\_\_  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.


### OPERATOR CERTIFICATION

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

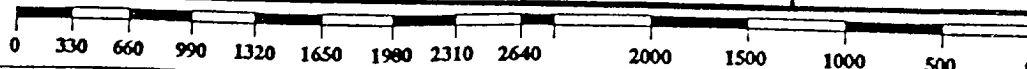
Signature Clifton R. May  
Printed Name Clifton R. May  
Position Permit Agent  
Company Yates Petroleum Corporation  
Date October 2, 1992

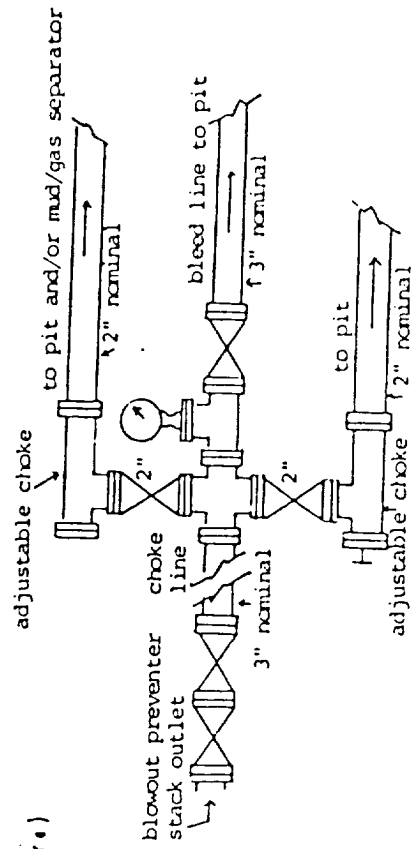
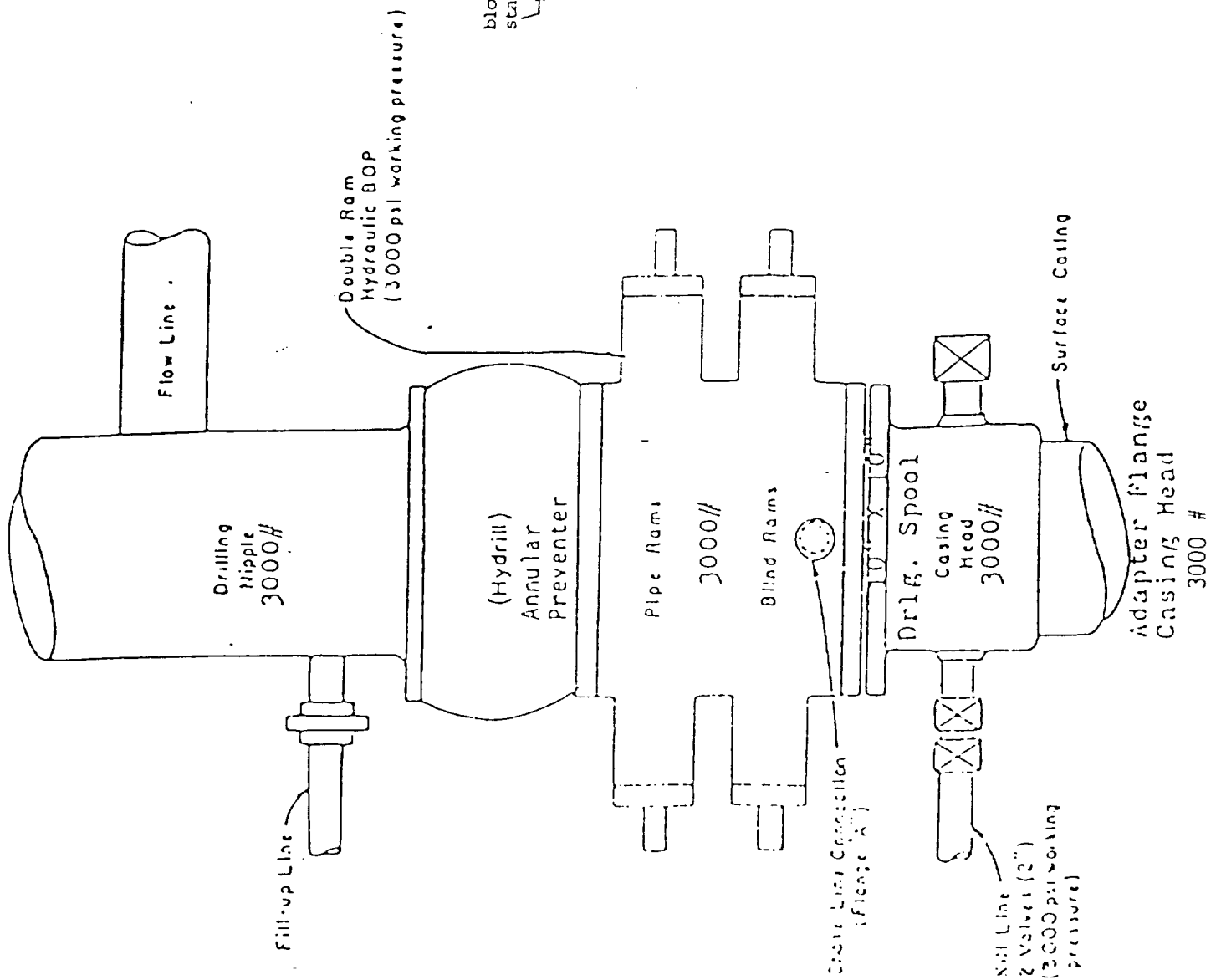
### SURVEYOR CERTIFICATION

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

Date Surveyed Refer to Original Plat  
Signature & Seal of Professional Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_





typical choke manifold assembly for 3M rated working pressure service-surface installation

EXHIBIT "B"  
Blowout Preventer  
Diagram

AVIETTE ALK ST. 1  
17-21S-27E  
REENTRY TO TEST STRAWN  
CASING RUNNING AND CEMENTING PROCEDURE  
6-12-92

OBJECTIVE: Tie back 5-1/2" casing at 9500' and cement it from approx. 10200' to 7500'.

PROCEDURE:

1. Remove DH marker and weld casing spool (9-5/8" SO x 9" 3000 psi) onto 9-5/8" casing. NU 9" 3000 psi WP hydraulic double ram BOP with 2-7/8" pipe rams and blind rams and an annular preventer and/or rotating head. Drill out the following plugs using 8-3/4" bit:

- a) 15 sx. surface plug est. from surface to 30'.
- b) 35 sx. plug est. from 321' to 421'.
- c) Test casing and BOP to 1500 psi.
- d) 2 bbl. plug est. from 2560' to Model D pkr. at 2585'.

2. RIH with 2-7/8" - 3.25" centralized pilot mill and clean out bore of Model D packer set at 2585' (assumes 194-32 packer with 3.25" bore). RIH with packer milling shoe assembly and mill up outside of packer. Pull packer out of hole with spear assembly.

3. Mix 9.5 to 10 ppg salt gel/starch/polymer mud (1500 bbls) and RU shale shaker. Don't overviscosify or run fluid loss too low in mud. Keep pH of mud in 10 to 11 range. RIH with 8-3/4" bit and drill out the following plugs:

- a) 155 sx. 2585' to ??.
- b) 80 sx. est. 3180' to 3280'.
- c) 40 sx. est. 4275' to 4375'.
- d) 80 sx. est. 4490' to 4650'.
- e) 80 sx. est. 4925' to 5025'.
- f) 40 sx. est. 6250' to 6350'.
- g) 40 sx. est. 7000' to 7100'.
- h) 80 sx. est. 8625' to 8825'.
- i) 40 sx. est. 9404' to 5-1/2" stub at 9464'.

Note: Be prepared for possible trapped pressure when drilling plug 8625-8825' (Wolfcamp). If necessary to stop and circulate gas and/or weight up mud, try to keep pipe moving at all times by reciprocating and/or rotating.

4. TOOH with 8-3/4" bit. TIH with 4-3/4" bit/mill and clean out inside the top of the casing stub. Dress off top, outside and inside of stub for the tie back.

NOTE: Might be prudent to wash over top 20-30' or stub and shoot casing off below first, unsuccessful, cut attempt at 9479' to insure success of tie back (possibility that casing could shift laterally or part after making tie back at 9464').

5. When stub ready for tie back, circulate and condition mud and TOOH keeping hole full at all times.

6. Change rams to 5.5" casing rams. RU casing crew and run 5-1/2" casing as follows:

a) Casing patch  
5-1/2" casing to surface as follows:

0-2800'	5-1/2"/17ppf/N80/LTC
2800-8400'	5-1/2"/17ppf/J55/LTC
8400-9500'	5-1/2"/17ppf/N80/LTC

Air weight = 161,500 lbs.

Buoyed wt. = 136,844 lbs. (10 ppg fluid, .8473 BF)

b) DV Tool: None

c) Marker Joints: None

d) Sand Blasting: None

e) Centralizers: None

f) Torque: 5.5"/17/N80/LTC = 4350 max/ 2610 min/ 3480 opt lb-ft  
5.5"/17/J55/LTC = 3090 max/ 1850 min/ 2470 opt lb-ft

g) Thread Lubricant: API modified thread lubricant after cleaning threads on box and pin down to white metal.

h) Drift: 4.767" drift run through each joint of casing.

i) Fillup: Fill casing every 1000-1500' run.

7. Land casing patch and pull necessary tension to activate seals. Land casing, cut off, pull BOP, NU wellhead, NU BOP and clean out inside casing patch with mill. RIH to PBD at approx. 11000' and circulate casing full of clean 10 ppg. BW. Test casing to 2000 psi.

8. RU lubricator and run GR/CCLCBL from PBD to TOC with 1000 psi inside casing (Sundry Notice indicates TOC at 10220' by temp. survey). Cementing technique will be modified as necessary if TOC is not at 10220'.

9. Assuming TOC is 10220', shoot 4 holes at 90 deg. phasing at approx. 10150'. Tie onto casing and pump into cementing holes to establish circulation outside the 5-1/2" casing. RIH with retainer on tubing to 10000', set retainer, establish circulation, test annulus and RU squeeze manifold.

10. RU cementers and pump cement as follows:

a) Pump 50 bbl. fresh water spacer  
Pump 800 sx. Class "H" with 5 lb/sk CSE, 0.8% CF-14 FLA, 0.2%

CF-2, 5 lb/sk Gilsonite  
Pump 5 bbl. FW followed by 53 bbl. BW flush.  
Sting out of retainer, reverse tubing clean and TOOH.

b) Pump Rate: 5-8 BPM when cementing and circulating.

c) Mixing Technique: Batch mix/recirculation combination. Use one or two trucks to pump cement and have a third truck available for backup/displacement.

d) Cement Properties:

Class "H" with 5 lb/sk CSE, 0.8% CF-14 FLA, 0.2% CF-2,  
5 lb/sk Gilsonite (14.45 ppg, 1.47 cfps, 6.43 gwps)

Note: Adjust CF-14, CF-2 as necessary based on pilot testing of slurry.

e) Volume Summary: Used 25% excess over caliper and design TOC of 7500'.

11. After WOC for 24 hrs., RIH with 4.75" bit, DCs and tubing and drill retainer and cement down to 10400'. Test casing to 2000 psi and TOOH.

12. RU lubricator and run GR/CBL/CCL from PBD to TOC with 1000 psi on casing.

\*\*\*\*\* COMPLETION PROCEDURE WILL BE ISSUED LATER \*\*\*\*\*

kbc/aviett11.doc