

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

30-025-30261
Form C-101
Revised 10-1-78

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LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease
STATE ☒ FEE ☐

5. State Oil & Gas Lease No.
LG-5181

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				7. Unit Agreement Name Echols State Unit	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. Farm or Lease Name Echols State Unit	
2. Name of Operator Yates Petroleum Corporation				9. Well No. 2	
3. Address of Operator 105 South Fourth Street - Artesia, NM 88210				10. Field and Pool, or Wildcat E. Echols Devonian	
4. Location of Well UNIT LETTER F LOCATED 1650 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE OF SEC. 9 TWP. 11S RGE. 28E NMPM				12. County Lea	
11. Elevations (Show whether DT, RT, etc.) 3902.2' GR		21A. Kind & Status Plug. Bond Blanket		19. Proposed Depth 12600'	
		21B. Drilling Contractor Undesignated		19A. Formation Devonian	
				20. Rotary or C.T. Cable Tool Rotary	
				22. Approx. Date Work will start ASAP	

23.

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"	54.5# J-55	Approx. 450'	450 sacks	Circulate
11"	8-5/8"	32# J-55	" 4700'	2400 sacks	Circulate
7-7/8"	5-1/2"	17# N-80 & J-55	" TD	300 sacks	

Yates proposes to spud this well with a cable tool and later switch to a rotary rig and complete the well. Will drill and test the Devonian and intermediate formations. Approximately 450' of surface casing will be run and cement circulated. Intermediate casing will be set at approximately 4700' and cemented to surface. If commercial pay is encountered, 5-1/2" casing will be ran to TD and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: FW gel and native mud to 450', 10# brine to 4700', cut brine, SW gel to TD

BOP PROGRAM: BOP's will be installed on 8-5/8" casing and pipe rams tested daily for operational

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.

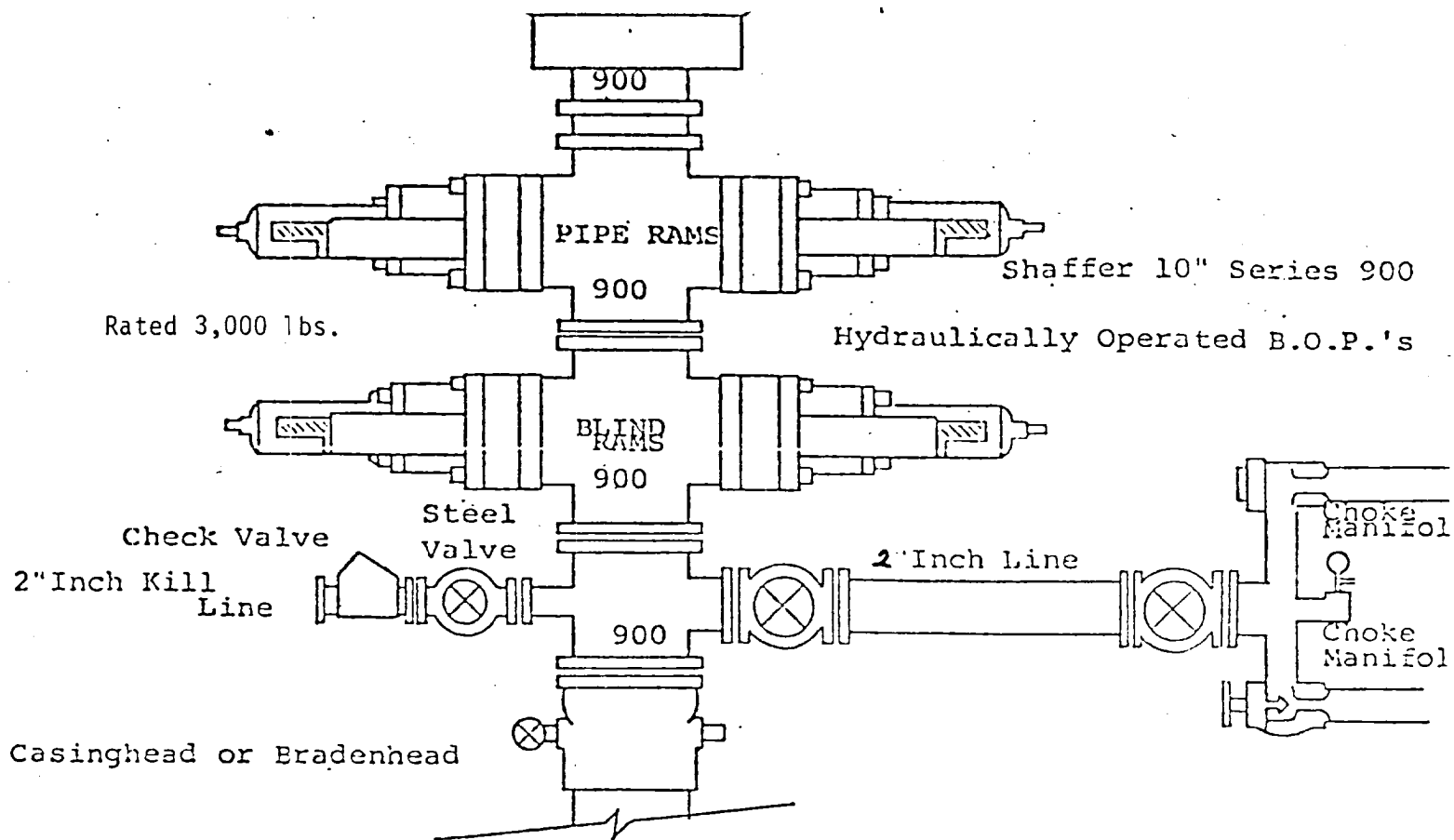
Signed Clifton R. May Title Regulatory Agent Date February 26, 1988

(This Original Signed by)
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE FEB 26 1988

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. All preventers to be hydraulically operated with secondary manual control installed prior to drilling out from under casing.
2. Choke outlet to be a minimum of 2" diameter.
3. Kill line to be of all steel construction of 2" minimum diameter.
4. All connections from operating manifolds to preventers to be all steel. hole or tube a minimum of one inch in diameter.
5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
7. Inside blowout preventer to be available on rig floor.
8. Operating controls located a safe distance from the rig floor.
9. Hole must be kept filled on trips below intermediate casing.
10. D. P. float must be installed and used below zone of first gas intrusion