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NEW MEXICO OIL CONSERVATION COMMISSION

Form O-101
Revised 1-1-65

5A. Indicate Type of Lease	STATE ☒ FEE ☐
5. State Oil & Gas Lease No.	LG-1543

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL ☒ GAS WELL ☐ OTHER ☐ DEEPEN ☐ PLUG BACK ☒		8. Farm or Lease Name State DW	
2. Name of Operator Cities Service Oil and Gas Corporation		9. Well No. 4	
3. Address of Operator P.O. Box 1919 - Midland, Texas 79702		10. Field and Pool, or Wildcat E-K Yates 7 Rvs Queen	
4. Location of Well UNIT LETTER F LOCATED 1880 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE OF SEC. 12 T. 18S R. 33E		12. County Lea	
21. Elevations (Show whether b/f, RT, etc.) 4105' GR		11. Depth to Bottom of Hole 3400'	13. Formation Yates
21A. Kind & Status Prop. Filed Required/Approved		21B. Estimated Quantity Unknown	20. Rotary or C.T. Completion Ut.
22. Approx. Date Work will start After permit approval			

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#	350'	500	Circulated
11"	8-5/8"	24 & 32#	3275'	1500	Circulated
7-7/8"	5-1/2"	15.5 & 17#	9050'	1925	TOC @ 2700'

O.T.D. 9050' Dolomite & Chert, OPBTD 9001'. It is proposed to plug back and test the Yates Formation in the following manner:

1. MIRU a pulling unit, ND WH, NU BOP and POOH w/2-7/8" tubing.
2. RIH w/5-1/2" CIBP on WL to 8600' and set CIBP @ 8600'. RIH w/tubing and circulate hole w/mud laden fluid. Spot a 10 sack cement plug @ 8600 - 8500'. POOH to 6730' and spot a 10 sack cement plug @ 6730 - 6630', across the top of the Bone Springs. POOH w/tubing.
3. Perforate 4 squeeze holes @ 3500'. Close blind rams and establish circulation out 8-5/8" x 5-1/2" annulus. Set a 5-1/2" cement retainer on WL @ 3400'.
4. RIH w/tubing and sting into cement retainer set @ 3400'. Establish circulation out of 8-5/8" x 5-1/2" annulus and circulate cement to surface w/500 sacks of Class C neat cement. Pull out of retainer and reverse out excess cement. POOH w/tubing.
5. RIH w/RB and casing scraper on 2-7/8" tubing to 3400'. CHC. POOH w/tubing.

(CONTINUED ON REVERSE SIDE)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN EXISTING WELL, GIVE LOCATION OF 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 Elmer Startz Title Reg. Opr. Mgr. - Prod. Date April 18, 1985

(This space for State Use)

APPROVED BY Eddie W. Seay TITLE Oil & Gas Inspector DATE APR 19 1985

CONDITIONS OF APPROVAL, IF ANY:

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6. Perforate the Yates Formation w/2 SPF @ 3345, 46, 47, 48, 49, 52, 73, 74, 81, 82, 83 and 3385'. Total of 24 holes.
7. RIH w/tubing and RTTS and set RTTS @ 3250' and swab and if necessary acidize the Yates Perfs @ 3345 - 3385' w/2000 gals 15% NeFe acid. Recover load and treatment and swab test to determine productivity. POOH w/tubing and RTTS.
8. If Yates is productive, RIH w/production tubing, rods and BHP and put well on the pump and obtain a 24 hour potential test.
9. If Yates is unproductive, RIH w/5-1/2" retainer on 2-7/8" tubing and set retainer @ 3200'. Squeeze Yates Perfs @ 3345 - 3385' w/200 sacks of Class C cement w/2% CaCl₂. Pull out of retainer and reverse out excess cement. POOH w/tubing.
10. RIH w/RB on 2-7/8" tubing and DO retainer set @ 3200' and cement to 3450'. CHC. Close pipe rams and pressure casing to 1000#. POOH w/tubing.
11. Shut well in pending conversion to Salt Water Disposal Well.