

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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)
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>					
b. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> & OTHER WATER SOURCE WELL SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>					
2. Name of Operator SHELL WESTERN E&P INC.					
3. Address of Operator P. O. BOX 576, HOUSTON, TX 77001 (WCK 4435)					
4. Well Location Unit Letter F : 1980 Feet From The NORTH Line and 2130 Feet From The WEST Line Section 22 Township 21S Range 37E NMPM LEA County					
10. Proposed Depth 5395' (GIBP)		11. Formation SAN ANDRES		12. Rotary or C.T. ----	
13. Elevations (Show whether DF, RT, GR, etc.) 3427' KB		14. Kind & Status Plug. Bond BLANKET		15. Drilling Contractor WORKOVER RIG	
16. Approx. Date Work will start UPON APPROVAL					
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"	32.4#	230'	250	SURF
11"	8-5/8"	32#	2920'	2200	SURF
7-7/8"	5-1/2"	15.5#	6535'	500	4000'

WE PROPOSE TO PLUG BACK THE BLINEBRY AND RECOMPLETE IN THE SAN ANDRES AS A GAS/WATER SOURCE WELL AS FOLLOWS:

1. TOH w/tbg.
 2. CO to CIBP @ 6440'.
 3. Set CIBP @ 5430' & cap w/35' cmt.
 4. Run csg insp log from 5395' to 2400'.
 5. Run GR/CBL/CCL from 5395' to 3700'. Run 100' repeat pass across TOC.
 6. Run GR/CNL/CCL from 5100' to 3700'.
 7. Perf 4-way shot @ depth based on CBL eval.
 8. Tag 10 bbls c/n 9.2#/gal brine w/dye.
 9. Set pkr 50' above 4-way shot. Atmpt to estab circ using c/n 9.2#/gal brine. Once circ to surf is estab, pmp 10 bbl slug of tagged fl, displ w/c/n 9.2#/gal brine, and record displ vol pmpd.
- (CONT'D ON REVERSE SIDE)

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 J. H. Smitherman TITLE REGULATORY SUPV. DATE 11-14-89
TYPE OR PRINT NAME J. H. SMITHERMAN (713) 870-3797 TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

4489-42

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10. RIH w/string shot & back off 5-1/2" csg @ 2700'. (NOTE: The 5-1/2" csg is to be cut above the 8-5/8" shoe in order to allow subsequent instl of a lrg dia submersible pmp.)
11. Dress top of 5-1/2" csg w/colr & centralize.
12. Cmt 5-1/2" X 8-5/8" csg ann from TOC to top of 5-1/2" as follows:
 - a. Set cmt ret @ 2800' (top of 5-1/2" @ 2700').
 - b. Etab circ & pmp 30-60 sx (to be designed from above displ tst) Cls "C" cmt.
 - c. Pull out of ret & circ cln. Pres tst csg to 500#.
 - d. WOC ±12 hrs.
 - e. DO cmt & cmt ret. CO to btm @ 5395'.
 - f. Run GR/CBL from 5000' to TOC. Run 100' repeat pass across TOC.
13. Perf San Andres @ depths based on log eval.
14. Acdz San Andres w/treatment sch determined after log eval.
15. Inst prod equip, setting submersible pmp on 4-1/2" tbq. Set pmp intake 2600' from surf. Place well on prod.

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MOBBS OFFICE