

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

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

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

WELL API NO.

30-025-30910

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL  
WELL ☐

GAS  
WELL ☐

OTHER INJECTOR

2. Name of Operator

Shell Western E&P Inc.

3. Address of Operator

P.O. Box 576 Houston, TX 77001-0576

(WCK 4435)

8. Well No.

221

9. Pool name or Wildcat

HOBBS (G/SA)

4. Well Location PERMITTED BHL = 2635' FNL & 1350' FWL SEC. 27, UNIT LTR "F"

Unit Letter E : 2267 Feet From The NORTH Line and 505 Feet From The WEST Line

Section 27 Township 18S Range 38E NMPM LEA County

10. Elevation (Show whether DP, RKB, RT, GR, etc.)

3631.2' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: REQUEST FOR EXCEPTION TO RULE 107 ☒

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SHELL WESTERN HEREBY RESPECTFULLY REQUESTS AN EXCEPTION TO THE CEMENTING REQUIREMENTS OF RULE 107. WE PROPOSE TO USE "S-MIX" (OR "SLAG") AS THE LEAD SLURRY ON THE 5-1/2 IN. PRODUCTION STRING (SEE ANTICIPATED SLURRY VOLUME BELOW.) AS INDICATED ON THE ATTACHED GRAPH ANALYSIS, S-MIX HAS BEEN PROVEN TO ACHIEVE A COMPRESSIVE STRENGTH OF 500 POUNDS PER SQUARE INCH IN LESS THAN EIGHT (8) HOURS; HOWEVER, THE "ZONE OF INTEREST" FOR THE PRODUCTION CASING STRING WILL BE PROTECTED BY THE USE OF CONVENTIONAL-TYPE CEMENT (HALLIBURTON CLASS "C") AS THE TAIL SLURRY.

ANTICIPATED VOLUME OF LEAD SLURRY: 271 BBLs

ANTICIPATED MIXTURE: 10#/GAL BAROID SALT-SATURATED MUD + 300#/BBL SLAG + 3#/BBL

NaOH + 14#/BBL Na2CO3.

ECONOMICAL/ENVIRONMENTAL ADVANTAGES OF USING SLAG, A WASTE BY-PRODUCT OF STEEL MILLS:

1) REDUCES DISPOSAL COSTS FOR BOTH MILL AND OIL & GAS OPERATORS, 2) ELIMINATES THE NEED OF PURCHASING FRESH WATER REQUIRED FOR CONVENTIONAL-TYPE CEMENTS, 3) SETS UP ON-LOCATION DRILLING MUD; THUS, MUD-DISPOSAL OPERATIONS NOT REQUIRED.

PROPOSED LOGGING PROGRAM ON PRODUCTION CASING: CBL FROM TD TO SURFACE.

Anticipated spud date: 12/11/90

Revised TVD: 4395'

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 12/06/90

TYPE OR PRINT NAME

J. H. SMITHERMAN

(713)

TELEPHONE NO. 870-3797

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DEC 11 1990

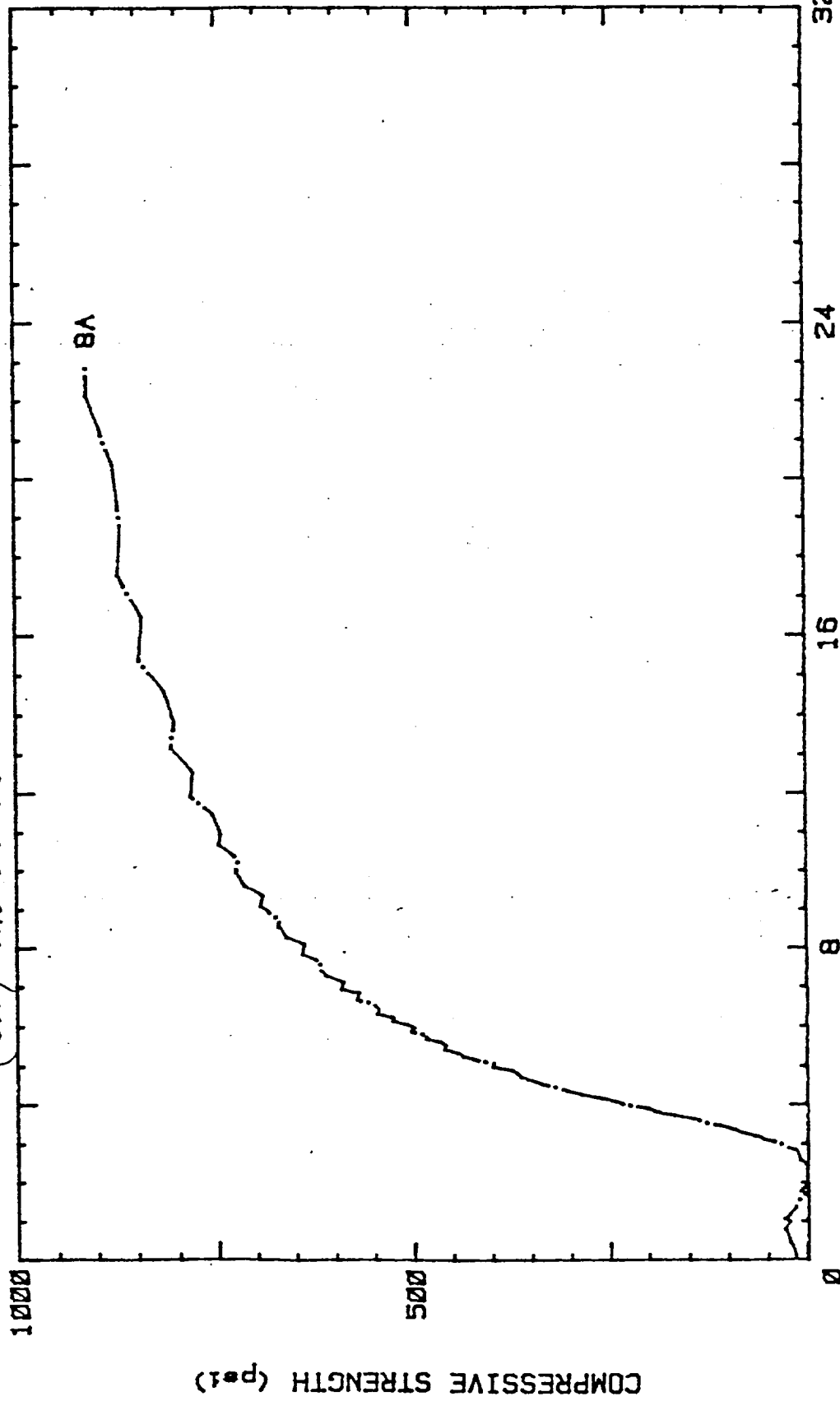
PROJECT NO.: Odessa Lab  
DATE: 11-29-90  
PRESSURE: 3000 PSI  
TEMPERATURE: 106°F

ULTRASONIC  
CEMENT ANALYZER  
HALLIBURTON SERVICES

INITIAL SET: 50 0 3:06  
STRENGTH 1: 500 0 5:49  
STRENGTH 2: 19999  
CURR. STR.: 912 0 23:04

CEMENT: H-2 (10#/gal Baroid salt-saturated mud + 300#/bbl slag + 3#/bbl NaOH + 14#/bbl Na<sub>2</sub>CO<sub>3</sub>)

(only 2% solids!)



A - LIGHTWEIGHT (< 14.0 LBS/GAL)  
B - STANDARD SLURRIES  
C - HEAVY SLURRIES