# Mobil Producing Texas & New Mexico Inc.

July 11, 1985

P.O. BOX 633
MIDLAND, TEXAS 79702

Energy & Minerals Department
Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico

Attention: Mr. Jerry Sexton

7.01
Mobil Producing TX & N.M. Inc.
State Sec. 31, Well #1
Undesignated Field
Lea County, New Mexico

Gentlemen:

Permit to drill this well to the Atoka & Morrow formations in an undesignated pool was granted Jan 30, 1984. It was subsequently drilled to a total depth of 13,374 ft. The Morrow zone was perforated from 13292' - 13304' and from 13308' - 13322'. The Morrow test proved to be uneconomical and the well was plugged back to 12000 ft for the purpose of testing the Canyon Zone. The Canyon was perforated from 11530' - 11550' and was not productive.

Permission is now requested to drill out the cast iron bridge plug at 12000', retest the Morrow perfs from 13292' - 13304' for possible change in producing characteristics. If nonproductive these perforations will be isolated with a CIBP plus 20' of cement set at ± 13260 ft. The Atoka formation will be perforated from 12,772' - 12,792' and tested (copy of procedures attached).

In support of this request the following documents are enclosed:

1. Form C-101 (6 copies)

2. Form C-102 (6 copies)

3. Form C-103 (6 copies)

Should additional information concerning this matter be desired please advise.

Yours truly,

G.E. Tate
Env. & Reg. Manager

ADBond/mcs

PROPOSED

Garcia
6/13/85

MPTM
COMPLETION PROCEDURE
STATE "31" #1
KEMNITZ ATOKA MORROW SO. FIELD
LEA COUNTY, NEW MEXICO

AFE #3143 = $1360M
Cum Cost = $1228M
Cost this Proc = $91M
W. I. = 100%

GENERAL

Set cement retainer at ± 11,510' and squeeze off Canyon perfs 11,530'-11,550'.

Clean out cement and CIBP at ± 12,020'. Test Morrow perfs 13,292'-13,304' OA (13 holes) for change in production characteristics. If non-productive, isolate with CIBP at ± 13,260' plus cement.

Perf Atoka pay 12,772'-12,792' with Geo Vann tubing conveyed perforating system and test.

PROCEDURE

1) MIRU PU. Baker 5-1/2" Lok-set pkr on 2-3/8", 4.7#, N-80 tbg currently in hole at 11,365'. Wellhead rated to 5000 psi. Establish injection into Canyon perfs 11,530'-11,550' OA (28 holes).

2) POH w/tbg and pkr. Set wireline cement retainer at ± 11,510'. Test to 1500 psi.

3) RIH w/tbg, sting into retainer and establish injection into perfs. Sting out of retainer and displace cement to 11,000'. Sting into retainer and squeeze off perfs 11,530'-11,550' OA. Squeeze to 2000 psi @ ± 3/4 BPM. Sting out of retainer and reverse out cement above retainer. POH and WOC.

4) Drill out cement retainer and cement to 11,600'. Test squeeze to 1500 psi. Additional procedure will be supplied should squeeze not be satisfactory.

5) Load hole w/2% filtered KCl water. Drill out cement from ± 12,000' to 12,020' and CIBP at ± 12,020' (used to abandon Morrow perfs 13,292'-13,304'). Expect some gas release when CIBP is drilled out. (BHP survey indicated 5108 psi Morrow reservoir pressure.) Clean out hole to 13,306' (old PBTD). Circulate hole clean and POH.

6) RIH w/Baker Lok-set pkr on tbg to ± 13,200'. Set pkr and reverse circulate filtered 4% KCl w/2 GPT clay stabilizer, 2 GPT non-ionic surfactant and 1% by volume Tretolite KW-37. Jet well with Nitrogen using coiled tubing and test Morrow perfs 13,292'-13,304'. Additional procedure will follow should commercial production be indicated. If non-commercial, carry on with this procedure.

7) Unseat packer and POH.

8) RIH w/wireline CIBP and set at + 13,270'. Test to 1500 psi and then dump bail 35' of cement on top of plug.

9) MIRU Geo Vann. RIH w/Geo Vann tubing conveyed perforating assembly, Packer Actuated Vent Assembly, Baker Lok-set pkr, EL On/off tool with 1.81" ID profile and + 12,699' 2-3/8" N-80 tubing. Test tubing to 8000# GIH. RIH w/GR and correlate to Dresser Atlas CD-CN-GR dated 5/8/84. Space out guns and set packer. ND BOP. NU Tree. Pressure up tubing to 4200 psi at the wellhead with Nitrogen before perforating (BHP of gas column will be 5800 psi, Atoka pressure expected to be approximately 6300 psi). Tubing should be dry except for required blanket over firing head.

10) Drop perforating bar and perforate Atoka 12,772'-12,792'. Open well gradually to reduce FTP slowly (moveable fines noted in Atoka samples). Flow well for test. If necessary, jet well w/coiled tubing.

11) Additional procedure to follow as required.

T. R. McGinley 5/29/85

cc: J. A. Johnson
G. H. Huff (2)
A. J. Alcott, R. W. McCrackin, G. P. Dalton, L. D. Hobbs,
J. M. Mitchell, T. R. McGinley

C.W. White for J. A. Johnson 6-4-85
J. A. Johnson, Completions Engineering Supervisor

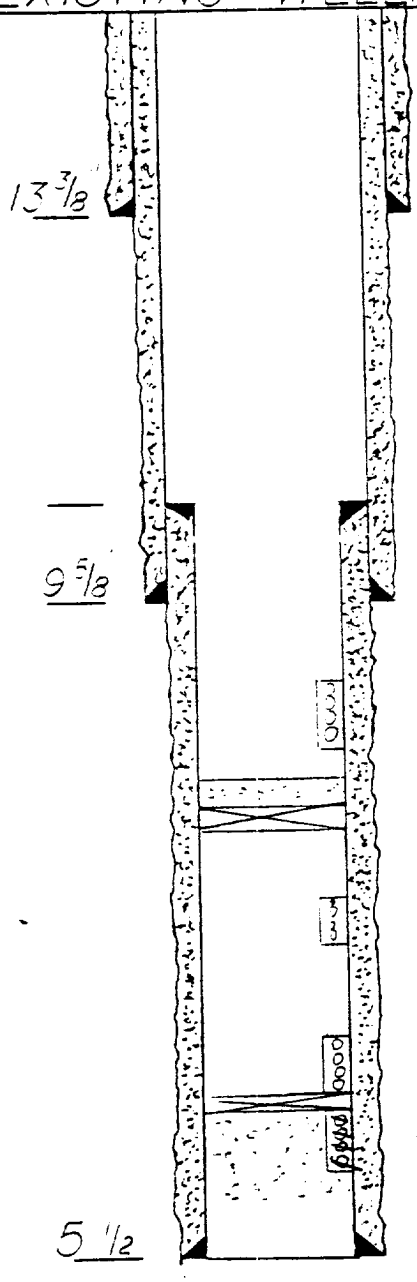
G. H. Huff
G. H. Huff, Drilling Superintendent

A. J. Alcott, Area Operations Manager 6-6-85

STATE "31" #1
KEMNITZ SOUTH
LEA COUNTY, N.M.

KB 4143'
GL 4115'

## EXISTING WELLBORE



13 3/8"

350'
CMT W/400 SX CLASS C
CIRC.

4610'

9 5/8"

4850'
CMT W/3200 SX CLASS C
CIRC.

CANYON PERFS
11830'-11550' 28 HOLES

CIBP-12020'+20' CMT

ATOKA PERFS
12772'-12792' (PROPOSED) 74 HOLES

MORROW PERFS
13292'-13304' 13 HOLES
CEMENT RETAINER - 13306'
13308'-13322' 15 HOLES

5 1/2"

13374'
CMT W/2100 SX TLW
+300 SX CLASS H

SPUD 3/14/84
RIG RELEASED 5/16/84

TRM