

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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

Form C-103  
Revised 10-1-73

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-1520	

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Water Injection Well		7. Unit Agreement Name North Vacuum Abo Unit
2. Name of Operator Mobil Producing TX. & N.M. Inc.		8. Farm or Lease Name
3. Address of Operator Nine Greenway Plaza, Suite 2700, Houston, Texas 77046		9. Well No. 173
4. Location of Well UNIT LETTER F 1840 FEET FROM THE North LINE AND 1840 FEET FROM THE West LINE, SECTION 14 TOWNSHIP 17S RANGE 34E N.M.P.M.		10. Field and Pool, or Wildcat Vacuum Abo, North
15. Elevation (Show whether DF, RT, GR, etc.)		12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data.  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. 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.

8750 TD, 8712 PBDT, Perfs 8572-8629, Casing Record 12-3/4 @ 270, 8-5/8 @ 3075, 5-1/2 @ 8750  
05/14/84 WIH w/ 5-1/2 pkr on 2-3/8 tbg, set pkr @ 5970, press test BP, held OK, loc 5-1/2  
csg leaks 4620-4800, press up on leaks 3000, bld to 2500, 5 min.  
05/15/84 HOWCO spotted 250 gals 15% DINE Fe HCl acid 4740-4490, set pkr @ 4420, PI csg  
leaks 4620-4800 - 2 BPM @ 3600, rel pkr, ran pkr to 4807, rev circ hole clean,  
pulled pkr & set @ 4715, press test 5-1/2 csg 4715-6000, 3500/15 min/held ok,  
rel pkr.  
05/16/84 RIH w/ 2-3/8 tbg OE to 4816, HOWCO spot 2x sd down 2-3/8 tbg on top of RBP @  
6000, POH w/tbg, RIHw/cmt ret on tbg, set ret @ 4615, press 5-1/2 annl to  
1000 psi/15 min/held ok, HOWCO estb inj rate into csg leaks 4666-4668.  
05/17/84 HOWCO cmt sqzd 5-1/2 csg leaks w/75x Class C cmt + .4% Halad 9 + 75x Class C  
Neat, w/30x cmt into leaks, press up 3400-4000 psi, pulled out of ret to 4610,  
rev circ out 89x cmt, job compl @ 9:30 AM, POH w/ret stinger.  
05/18/84 RIH w/4-3/4 bit, 5-1/2 csg scraper, drl cmt 4610-4615, rrl cmt ret 4615-4617,  
drf soft cmt 4617-4638, circ hole clean, pull bit to 4500.  
05/19-20/84 Drl cmt 4638-4667, 1/2 hr, circ out cmt, circ hole clean, press test 5-1/2 csg  
to 1000 psi/15 min/held ok, POH w/bit.

SEE REVERSE.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>Paula A. Collins</u>	TITLE <u>Authorized Agent</u>	DATE <u>09/24/84</u>
APPROVED BY <u>[Signature]</u>	TITLE <u>[Signature]</u>	DATE <u>10/1/84</u>
CONDITIONS OF APPROVAL, IF ANY:		

#17. Continued from front.

05/21/84 WIH w/ 4-3/16 swedge, B-sub, jars, 6 - 3-1/2 cols on 2-3/8 tbg, swedge on 5-1/2 csg @ 4667, 7 hrs, no hole, POH w/swedge, WIH w/ 4-9/16 swedge, same assm, free to 4727, pulled 4 jts tbg.

05/22/84 Fin POH w/ 4-9/16 swedge, WIH w/ 4-5/8 swedge, same assm, free to 4727, POH w/ swedge, WIH w/ 4-3/4 swedge, free to 4727, press test 5-1/2 csg to 1000 psi/30 min/held ok, POH w/swedge, WIH w/BP ret tool on tbg, wash sd of BP 5970-5985, PU BP @ 5985, pulled 56 jts tbg to 4250.

05/23/84 Fin POH w/BP ret tool, LD 197 jts work tbg, WIH w/Baker seal assm on 270 jts 2-3/8 tbg, hyd-test tbg 5000, GIH to 8500, displ 5-1/2 csg w/150 bbls fr wtr, ND BOP, stung into 5-1/2 Baker NB pkr @ 8502 w/12,000 compr, NU wellhead, press up on 5-1/2 csg to 500 psi/30 min/held ok, hood up inj lines, rel Tyler WS, turn to Prod @ 8 PM, notified the N.M.O.C.D., Hobbs office, job not witnessed.

05/24/84 Returned well to injection.

06/25/85 MIRU X-Pert WS, bld csg press 1350-0 15 min, NU BOP OE tbg & bld to pits 75 bbls wtr 1 hr, PO Baker NB pkr @ 8502, well contd to flow 75 bbls wtr/hr.

06/26/84 POH w/270 jts 2-3/8 tbg & Baker seal assy, WIH w/bit on 2-3/8 work tbg to 6050, did not drag thru bad csg 4620-4680, POH w/bit, WIH w/ RBP on 2-3/8 tbg, set RBP @ 5960, Pkr @ 5945, wtr flow decreased to trickle when set RBP.

06/27/84 Press test RBP 3000/held ok, cap RBP w/2x sd, set pkr @ 4590, press test old squeeze holes 4620-4800 w/3000 psi/held ok, loc 5-1/2 csg leaks 3851-3941, w/pkr @ 3851 pump into leaks 1-1/2 BPM @ 3150, POH w/pkr, WIH w/ cmt ret on 2-3/8 tbg, set ret @ 3821, HOWCO pump into csg leaks 3821-3914, pump 200 gals Flocheck, 5 bbls wtr spacer & sqzd w/150x Class C cmt + .4% Halad 9 + 2% CaCl<sub>2</sub>, w/127x into leaks press 2800 to 3750#, PO of ret to 3810, dump 4x cmt on ret, rev circ out 9x cmt, job compl @ 2:45 PM, POH w/stinger, WIH w/bit & csg scraper, on 20 jts 2-3/8 tbg.

06/28/84 Drl cmt 2817-3830, circ hole clean.

06/29/84 Drl hard cmt 3830-3908, fell thru, circ hole clean, Knox Pump Serv press 5-1/2 csg 3960-surf, 3000# leaked 2600/30 min, POH w/bit, WIH w/ pkr to 3790.

06/30- Set pkr @ 3914, press test cmt sqz @ 5960-3000/30 min/held ok, reset pkr @ 3854,

07/01/84 press test cmt sqz @ 3854-3914 3000# bld to 2600 in 30 min, ran pkr to 3914, HOWCO spotted 160 gals 15% HCl acid across leaks 3854-3914, set pkr @ 3850, pump acid into leaks, ran pkr to 3914, rev circ clean, POH w/pkr, WIH w/cmt ret on 2-3/8 tbg, set ret @ 3824, pump 10 bbls wtr, 200 gals Flocheck + 150x Class C cmt + .4% Halad 9 + 2% CaCl<sub>2</sub>, displ cmt w/10 bbls fr wtr, rev circ clean.

07/02/84 Stung into cmt ret @ 3824, press csg annulus to 1000 psi/held ok, HOWCO cmt sqzd csg 3854-3914 w/50x Class C Thixset cmt + 100x Class C + 2% CaCl<sub>2</sub>, pulled cmt ret to 3818, rev out 10x cmt, job compl @ 10 AM, POH w/2-3/8 tbg & cmt ret stinger.

07/03/84 RIH w/bit, tagged TOC @ 3815, drl cmt to 3835.

07/05/84 Cont DO cmt to 3915, fell thru, RIH w/bit to 4050, circ hole clean, press test 5-1/2 csg to 3000 psi, bled to 2900 psi in 15 min, re-press to 3000 psi, bled to 2950 psi in 10 min, POH w/bit, RIH w/ pkr on 2-3/8 tbg, set pkr @ 5100, test RBP @ 5960 to 3000 psi/held ok, press test csg annulus 5100 to surf @ 2500 psi/held ok.

07/06- RI w/RBP & pkr on 2-3/8 tbg to 4120, set RBP @ 4120, set pkr @ 4118, isolated

08/84 5-1/2 csg leaks 3854-3914, RIH w/pkr to 4000, HOWCO spot 2x sd on top of RBP @ 4120, pulled pkr to 3914, HOWCO cmt sqzd 5-1/2 csg leaks w/100x Thixset + 50x Class C Neat, w/90x in form, sqz press 5000 psi, rel pkr, rev out 60x cmt, pulled pkr to 3360, re-press sqz to 3500 psi/holding, job compl @ 8 PM 7/6/84.

07/09/84 Rel pkr @ 3360, POH w/ 2-3/8 tbg & pkr, RIH w/bit on 2-3/8 tbg, tagged TOC @ 3645, DO hard cmt 3645-3935, fell thru, RIH w/bit to 4000, circ hole clean, press 5-1/2 csg to 3000 psi/30 min/held ok.

SEP 28 1984

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

Attachment to Form C-103 dated 09/24/84. North Vacuum Abo Unit #173.

- 07/10/84 POH w/tbg & bit, RIH w/ pkr, isolated 5-1/2 csg leaks @ 3854-3914, RIH w/pkr to 3680, bk dn csg leaks, est inj rate 3 BPM @ 3500 psi, rel pkr, RIH to 3870, rev 30 bbls up tbg, pulled up & re-set pkr @ 3600, HOWCO spotted 100x Class C cmt + .4% Halad 9 + 100x Class C cmt + CaCl<sub>2</sub>, sqz press 5000 psi, displ cmt to 3800, had decided to displ cmt, sqz press incr to 5000 psi & held, left 5000 psi on tbg, job compl @ 3:30 pm.
- 07/11/84 Rel pkr @ 3600, POH w/ 2-3/8 tbg & pkr, RIH w/ bit, to TOC @ 3716, DO hard cmt 3716-3800, drl out stingers 3800-3915, fell thru, RIH to 4000, press 5-1/2 csg to 3000 psi, bled to 2950 in 30 min, POH w/bit, fill 5-1/2 csg w/ fr wtr.
- 07/12/84 Bled off, RIH w/pkr on 2-3/8 tbg, isolated csg leaks 3854-3914 (same leaks), RIH w/pkr to 3914, HOWCO broke down 5-1/2 csg leaks, 3 BPM @ 3100 psi, rel pkr POH w/ 2-3/8 tbg & pkr, RIH w/ cmt ret, set cmt ret @ 3820, HOWCO sqzd cmt 5-1/2 csg leaks w/300x Class C + .4% Halad 9 + 200x Class C + 2% CaCl<sub>2</sub>, sqz press 4800, pulled out ret, rev 3x cmt, job compl @ 3 PM, POH w/ 2-3/8 tbg & HOWCO ret stinger.
- 07/13/84 WIH w/bit on 2-3/8 tbg, drl cmt 3810-3820, drl cmt ret 3820-3823, cmt below ret soft pull bit to 3820, circ hole clean.
- 07/14-15/84 Tag cmt @ 3825, cmt soft, pulled up to 3800.
- 07/16/84 RIH w/bit to 3825, DO cmt to 3937, fell thru, press test 5-1/2 csg to 3000 psi, 30 min/5 min bled to 2950, 30 min bled to 2850, POH w/bit, RIH w/pkr, set pkr @ 3800, HOWCO attempt to pump into csg leak, pkr failed @ 4200 psi, re-set pkr @ 3790, HOWCO press 5-1/2 csg to 4200 psi, pkr failed, prep to run tension pkr.
- 07/17/84 RIH w/Tension pkr on 2-3/8 tbg, set pkr @ 3800, press to 4500 psi, bled to 3500 in 5 min, unset pkr, RIH to 3924, HOWCO spot 50x Class C + 2% CaCl<sub>2</sub> 3914-3400, pulled pkr to 3194, rev circ capacity of tbg, set pkr, HOWCO sqz csg leaks 3854 to 3914, pumped 1-3/4 bbls into form @ 4500 psi, final sqz press 4500.
- 07/19/84 Unset pkr @ 3194, POH w/2-3/8 tbg, tagged TOC @ 3450, DO cmt to 3900, fell thru, circ hole clean, press test 5-1/2 csg 500/15 min/had 500, bled press to 0 in 10 min.
- 07/20/84 GIH w/ret tool & washout 8' sd & latch onto RBP @ 4150, POH & LD tbg & RBP, left 2nd RBP in hole @ 5980, GIH w/ 160 jts 2-3/8 buttress tbg & LD 40 jts of same.
- 07/21-22/84 Fin LD 2-3/8 tbg, SI w/BOP.

NOTE: This well has been shut-in since 07/22/84, under engineering evaluation. Plans are to try to re-squeeze the casing leaks using a new squeeze technique or to run and cement a liner over the leaks.