

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

OIL CONSERVATION DIVISION
P.O. Box 2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.	30-025-07599
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
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.)	
7. Lease Name or Unit Agreement Name South Hobbs (GSA) Unit	
1. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water Injector	8. Well No. 34
2. Name of Operator Amoco Production Company (Room 18.108)	9. Pool name or Wildcat Hobbs Grayburg San Andres
3. Address of operator P.O. Box 3092, Houston, Texas 77253-3092	
4. Well Location Unit Letter <u>H</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>4</u> Township <u>19-S</u> Range <u>38-E</u> NMPM <u>Lea, NM</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3617' GR	

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

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.

GENERAL PROGRAM

- 1) RIG UP WIRELINE TRUCK AND MANIFOLD PUMP. HOPPER AND TANK TO WELL.
- 2) PLUG BACK WELL WITH CARBONATE TO JUST BELOW ZONE TO BE SHUT OFF.
- 3) PARTICLE PLUG THIEF ZONE WITH CEMENT AND SAND.
- 4) RELEASE WIRELINE. AND OTHER EQUIPMENT
- 5) RIG-UP WORKOVER UNIT AND PULL TUBING AND PACKER
- 6) CIRCULATE / BAIL / ACIDIZE FILL OFF BOTTOM
- 7) RUN TUBING AND PACKER AND TEST BACK SIDE

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

SIGNATURE Devina M. Prince TITLE Staff Assistant DATE 08-19-94
 TYPE OR PRINT NAME Devina M. Prince TELEPHONE NO. (713) 366-7686

(This space for State Use)

Orig. signed by
Paul J. ...
Geologist

SEP 01 1994

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

64

GENERIC WORKOVER FOR SOUTH HOBBS UNIT NO. 34 AND 41

ASSUMPTIONS / COMMENTS

- A) WELLS ARE ON A VACUUM AT RATES UP TO 2 BPM.
- B) INJECTION SYSTEM CANNOT TOLERATE FLUCTUATIONS IN FLOW; HENCE INJECTION OF WATER FOR WORKOVER PURPOSES MUST BE DONE FROM A TANK.
- C) PLUG BACK CAN BE DONE WITH SAND OR CARBONATE. CARBONATE IS PREFERRED IF MATERIAL CANNOT BE CIRCULATED OR BAILED OUT OF THE HOLE AFTER THE JOB. CARBONATE CAN BE ACIDIZED. PROGRAM ASSUMES CARBONATE IS USED.
- D) WELLS HAVE NOT BEEN SAND FRACED

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- 3) PARTICLE PLUG THIEF ZONE WITH CEMENT AND SAND.
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- 7) RUN TUBING AND PACKER AND TEST BACK SIDE

GENERAL MATERIAL AND EQUIPMENT REQUIREMENTS

- 1) WORKOVER RIG WITH REVERSING UNIT, BIT AND BAILER.
- 2) WIRE LINE UNIT FOR FLOW PROFILES
- 3) 500 BBL STORAGE TANK
- 4) WATER TRUCKS (CAN USE FRESH OR INJECTION WATER)
- 5) CENTRIFUGAL PUMP RATED TO 3 BPM (126 GPM) AT 60 PSI.
- 6) FIVE BBL HOPPER FOR CEMENT, SAND AND CARBONATE SACK ADDITION.
- 7) A "TEE" FOR TOP OF SWAB VALVE
- 8) TWO INCH OR LARGER CHICKSANS / HOSES AND VALVES FOR MANIFOLDING
- 9) ^{1/2 50/100} ~~40/60~~ AND ~~20/40~~ MESH CARBONATE FOR PLUG BACK.
- 10) CLASS "C" CEMENT OR ASTM TYPE II CONSTRUCTION CEMENT, WHICH EVER IS CHEAPER, 100, 40/60, 20/40, 12/20 AND 8/12 MESH SAND FOR PLUGGING.

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DETAILED PROGRAM.

- 1) SHUT-IN INJECTION LINE AND INSTALL "TEE" ON TOP OF SWAB VALVE. TIE-IN HOPPER TO "TEE", PUMP TO HOPPER AND TANK TO PUMP. INSTALL A VALVE BETWEEN THE "TEE", HOPPER, PUMP AND TANK. THE WELL WILL SIPHON WATER FROM HOPPER AND THE PUMP WILL MOVE WATER FROM THE TANK TO HOPPER.
- 2) RIG UP WIRELINE UNIT ON TOP OF "TEE" AND RUN IN HOLE WITH PROFILE TOOL. SIPHON IN AT 2 BPM, 1 BPM, 0.5 BPM AND SHUT-IN USING PROFILE TOOL TO SET RATE. VERIFY WELL IS ON VACUUM AND USE PROFILE TOOL TO CONFIRM THIEF ZONE(S) IS TAKING +85% OF INJECTED FLUIDS. NOTE RATE AT WHICH CROSS FLOW OCCURS FROM BOTTOM OF THE HOLE INTO THE THIEF ZONE(S). THIS IS THE MINIMUM RATE (MR) THAT THE CARBONATE MUST BE PUMPED TO PLACE IT ON BOTTOM FOR A PLUG BACK. PULL PROFILE TOOL UP TO BOTTOM OF PACKER.
- 3) SIPHON IN AT 2 BPM, SUFFICIENT ~~40/60~~ MESH CARBONATE AT 2 PPG TO COVER ZONE TO BE PROTECTED. (IF SLURRY VOLUME REQUIRED TO PLUG BACK EXCEEDS TUBING VOLUME. THEN SIPHON ONLY ONE TUBING VOLUME AND PLAN TO MAKE A SECOND PLACEMENT.) WHEN LEADING EDGE OF SLURRY REACHES THE END OF THE TUBING, DROP RATE TO 0.5 BPM OR MR. IF GREATER. AND CONTINUE AT 0.5 BPM OR MR, IF GREATER. UNTIL ALL CARBONATE HAS BEEN DISPLACED FROM TUBING. ONCE ALL CARBONATE IS OUT THE END OF THE TUBING, CONTINUE TO SIPHON IN AT MR AND LET CARBONATE FALL TO BOTTOM.
- 4) AFTER WAITING 20 MINS. FOR CARBONATE, TO FALL, SIPHON IN WELL AT 2 BPM. CHECK FILL AND DETERMINE AMOUNT OF FLOW OUT BOTTOM OF HOLE WITH PROFILE TOOL. IF PLUG BACK INSUFFICIENT, SIPHON ANOTHER BATCH OF ~~40/60~~^{20/40} MESH CARBONATE INTO THE WELL AS IN STEP 3) ABOVE. IF AFTER THREE ATTEMPTS NO FILL IS EVIDENT, THEN SWITCH TO ~~20/40~~ MESH CARBONATE AND REPEAT AS NECESSARY UNTIL PLUG BACK ACHIEVED. ALWAYS PULL PROFILE TOOL, BACK UP TO BOTTOM OF CASING BEFORE PUMPING A SLUG OF CARBONATE.
- 5) WITH PLUG BACK IN PLACE, SIPHON IN HOLE AT 2 BPM, 20 BBLS OF WATER CONTAINING CEMENT AT 2 PPG. NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP ONE MORE TIME. IF SHUT-OFF STILL INADEQUATE AFTER TWO ATTEMPTS, PROCEED TO NEXT STEP (STEP 6). IF SHUT-OFF SUFFICIENT, PROCEED TO STEP 12).
- 6) SIPHON IN HOLE AT 2 BPM, 20 BBLS OF WATER CONTAINING 1 PPG CEMENT AND 1 PPG 100 MESH SAND (TOTAL CONCENTRATION OF 2 PPG). NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP AT LEAST TWICE MORE. IF SHUT-OFF STILL INADEQUATE AFTER THREE ATTEMPTS, PROCEED TO NEXT STEP (STEP 7). IF SHUT OFF SUFFICIENT, PROCEED TO STEP 12).
- 7) SIPHON IN HOLE AT 2 BPM, 10 BBLS OF WATER CONTAINING 1 PPG CEMENT AND 1 PPG 40/60 MESH SAND (TOTAL CONCENTRATION OF 2 PPG). NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP AT LEAST TWICE MORE. IF SHUT-OFF STILL INADEQUATE AFTER THREE ATTEMPTS, PROCEED TO NEXT STEP (STEP 8). IF SHUT-OFF SUFFICIENT, PROCEED TO STEP 12).

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- 8) SIPHON IN HOLE AT 2 BPM, 10 BBLS OF WATER CONTAINING 1 PPG CEMENT AND 1 PPG 20/40 MESH SAND (TOTAL CONCENTRATION OF 2 PPG). NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP AT LEAST TWICE MORE. IF SHUT-OFF STILL INADEQUATE AFTER THREE ATTEMPTS, PROCEED TO NEXT STEP (STEP 9). IF SHUT-OFF SUFFICIENT, PROCEED TO STEP 12).
- 9) SIPHON IN HOLE AT 2 BPM, 10 BBLS OF WATER CONTAINING 1 PPG CEMENT, 0.5 PPG 100 MESH SAND AND 0.5 PPG 12/20 SAND. (TOTAL CONCENTRATION OF 2 PPG). NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP AT LEAST TWICE MORE. IF SHUT-OFF STILL INADEQUATE AFTER THREE ATTEMPTS, PROCEED TO NEXT STEP (STEP 10). IF SHUT-OFF SUFFICIENT, PROCEED TO STEP 12).
- 10) SIPHON IN HOLE AT 2 BPM, 10 BBLS OF WATER CONTAINING 1 PPG CEMENT, 0.5 PPG 40/60 MESH SAND AND 0.5 PPG 8/12 SAND. (TOTAL CONCENTRATION OF 2 PPG). NOTE ANY PRESSURE BUILD UP AND CHECK FOR FILL AND RATE WITH PROFILE TOOL. IF SHUT-OFF INSUFFICIENT, REPEAT THIS STEP AT LEAST TWICE MORE. IF SHUT-OFF STILL INADEQUATE AFTER THREE ATTEMPTS, PROCEED TO NEXT STEP (STEP 11). IF SHUT-OFF SUFFICIENT, PROCEED TO STEP 12).
- 11) WILL HAVE TO GIVE UP ON THIS MATERIAL AND LOOK FOR ANOTHER ONE. RIG DOWN AND RELEASE EQUIPMENT. LEAVE WELL SHUT-IN WHILE LOOKING FOR OTHER MATERIAL TO SHUT DOWN THIEF ZONE. DO NOT MOVE IN RIG AND CLEAN OUT PLUG BACK. SKIP REMAINING STEPS.
- 12) MOVE IN RIG AND PULL PACKER AND TUBING.
- 13) RUN IN HOLE WITH BIT AND CLEAN OUT TO PROPER DEPTH. CIRCULATE HOLE CLEAN IF POSSIBLE OR BAIL OUT PLUG BACK CARBONATE. IF HOLE CAN NOT BE CIRCULATED OR BAILED OUT, RUN TO BOTTOM AND SPOT SUFFICIENT ACID TO STIMULATE BOTTOM OF HOLE.
- 14) WITH HOLE CLEANED OUT, RERUN PACKER AND TUBING AND TEST BACK SIDE. RELEASE RIG.

3- - Sept 11 01:10 - 10 20' Clean out to 4232.
 When RTI at packer at 41073'
 411- shut-in 5. - 4150' Clean out to 4232.

Oil well - 411- - 4150' - 4232'

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