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NEW MEXICO OIL CONSERVATION COMMISSION

API #30-061-20004

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

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

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. Name of Operator Shell Oil Company 3. Address of Operator 1700 Broadway, Denver, Colorado 80202 4. Location of Well UNIT LETTER L , 1650 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 29 TOWNSHIP 6N RANGE 1W NMPM.	7. Unit Agreement Name 8. Farm or Lease Name Santa Fe 9. Well No. Two 10. Field and Pool, or Wildcat Santa Fe South Block Cactus Area (WC) 15. Elevation (Show whether DF, RT, GR, etc.) 5216 KB, 5194 GL 12. County Valencia

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

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" 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.

Ran 79 jts 40#, K-55, LT&C, 9-5/8" csg to 3202' and cmt'd w/1750 sx Howco Lite w/2X CaCl₂ and 1/4#/sk Flocele followed by 425 sx Class "B" w/2X CaCl₂. (See attached casing and cementing detail.)

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

SIGNED <u>T.S. Mize</u>	TITLE <u>Division Operations Engineer</u>	DATE <u>4/9/74</u>
APPROVED BY <u>Carl Helweg</u>	TITLE <u>SENIOR RESERVOIR GEOLOGIST</u>	DATE <u>4-11-74</u>
CONDITIONS OF APPROVAL, IF ANY:		

CASING AND CEMENTING

Field Cactus Area (WC) Well Santa Fe #2
Job: 9-5/8 " O.D. Casing/~~XXXX~~ Ran to 3202 feet (KB) on 4/5, 1974

Jts.	Wt.	Grade	Thread	New	Feet	From	To	
						KB	CHF	21.88
77	40#	K-55	LT&C	Yes	3095.82	CHF		3114.70
Float Collar (differential fill)					2.30			3117.00
2	40#	K-55	LT&C	Yes	82.20			3199.20
Float shoe (differential fill)					2.80			3202.00

Casing Hardware:

Float shoe and collar type Differential Fill - Howco
Centralizer type and product number Howco Bow Spring
Centralizers installed on the following joints 6' above shoe (3196) and top of #1 jt (3156) and top of #3 jt (3073)
Other equipment (liner hanger, D.V. collar, etc.) None

Cement Volume:

Caliper type 2 arm . Caliper volume 2850 ft³ + excess over caliper
1015 ft³ + float collar to shoe volume 35 ft³ + liner lap ft³
+ cement above liner ft³ = 3900 ft³ (Total Volume).

Cement:

Preflush--Water 20 bbls, other Volume bbls
First stage, type and additives Howco "Lite" w/2% CaCl₂ and 1/4#/sk Flocele
ft³/sk, volume 1750 sx. Pumpability 6.5 hours at 100 °F. . Weight 12.5 lbs/gal, yield 1.95
Second stage, type and additives Neat "B" w/2% CaCl₂
ft³/sk, volume 425 sx. Pumpability 1.1 hours at 100 °F. . Weight 15.6 lbs/gal, yield 1.18

Cementing Procedure:

~~XXXXX~~ Reciprocate until cement returns were observed
Displacement rate 8 B/M
Percent returns during job 100%
Bumped plug at 2:10 AM/PM with 2000 psi. Bled back 1.5 bbls. Hung csg with lbs on slips.

Remarks:

Cemented to sfc. Had full returns w/300 sx (120 bbls) of cmt to sfc. Plug bumped at 237.5 bbls w/a 239 bbl calculated volume. Floats held. Hole averaged 16" caliper and a 235 sk (Lite) excess was required over calculated volume to reach sfc. Total excess for this job was 535 sx (Lite) or 45% over caliper. A 25% excess should be considered on the next job.

Drilling Foreman M. G. Gray
Date 4/5/74