

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-1-78

3a. Indicate Type of Lease	
State ☐	Fee ☒
3. 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. OIL WELL ☒ GAS WELL ☐ OTHER- ☐		7. Unit Agreement Name
2. Name of Operator Sun Exploration & Production Company		8. Farm or Lease Name J.A. Akens
3. Address of Operator P.O. Box 1861 Midland, Texas 79702		9. Well No. 12
4. Location of Well UNIT LETTER <u>X</u> <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>330</u> FEET FROM THE <u>East</u> LINE, SECTION <u>3</u> TOWNSHIP <u>21S</u> RANGE <u>36E</u> N.M.P.M.		10. Field and Pool, or Wildcat Hardy Drinkard
15. Elevation (Show whether DF, RT, GR, etc.) 3553' GR		12. County Lea

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 Add perfs and stimulate ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOBS ☐	OTHER ☐

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.

- MIRU PJ. KILL WELL DN 2-7/8", 6.5#, J-55 PROD TBG W/NE TREATED (2 GPT NE-2) 2% KCL FRESH WTR. NDWH. REMOVE 3000 PSI WP TBG SPOOL. NU 5000 PSI WP NATIONAL TBG SPOOL (@ SUN-HOBBS OFFICE). NO BOP.
- RLSE PKR AND POH W/2-7/8" TBG.
- MIRU GEARHART. SET 5-1/2", 14# RBP @ 6730. VIA DRESSER-ATLAS GR/DENSI LOG -NEUTRON DATED 12/20/85. PERF DRINKARD. SET III 6554-57, 6576-79, 6584-90, 6594-98, 6616-21, 6624-26, 6644-54, 6676-80, 6684-88, 6696, 6702-6716, 1 JSFP, TOTAL 66 HOLES. USING 4" OD, 23 GC, .43" EH DML-23 CASING GUN. (SPIRAL PHASED, NON-CENTRALIZED). VIA DRESSER-ATLAS GR/DENSILOG-NEUTRON DATED 12/20/85 (FLAT TO DA GR/CCL DATED 1/6/86).
- MIRU BJ-TITAN. RIH W/5-1/2"x2-1/2" PFT ON 2-7/8" TBG TO ±6540. LOAD HOLE W/NE TREATED 2% KCL (CAPACITY ±110 BBLS). LOWER PFT TO ±6730 (TOP OF RBP) TO CHECK DEPTH CORRELATION. RAISE PFT TO ±6720. ROUND TRIP TOOL THRU PERFS, CIRC @ 1.5 to 2.0 BPM AS REQUIRED. CIRC 3000 GALS 20% NEFE HCL W/ADDITIVES TO PFT. SI BACKSIDE (1000 PSI MAX PRESS). ROUND TRIP TOOL THRU PERFS IN INJ MODE. DISP 1500 GALS 20% NEFEHCL WHILE MOVING TOOL UP & REMAINING 1500 GALS WHILE MOVING BACK DOWN. DISP ACID W/NE TREATED 2% KCL WTR. RECORD 5,10 & 15 MIN SIP. POH W/TBG & PFT. NOTE: SET 500 BBL FRAC TANK & LOAD W/400 BBLS 2% KCL FRESH WATER W/2 GPT NE-2 FOR CIRC & TREATING.

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

SIGNED Maria L Perez TITLE Associate Accountant DATE 9/29/87
Orig. Signed by Paul Kautz
APPROVED BY Geologist TITLE _____ DATE OCT 2 1987
CONDITIONS OF APPROVAL, IF ANY:

J.A. AKENS #12
HARDY DRINKARD FIELD
LEA COUNTY, NEW MEXICO

5. RIH W/5-1/2", 14# RDG PKR & API SN ON 2-7/8" PROD TBG TO ± 6400 . SET PKR. SWAB BACK L&AW. EVALUATE FLUID ENTRY RATE & CONTENT. KILL WELL DN TBG W/NE TREATED 2% KCL IF NECESSARY. RLSE PKR & POH W/ 2-7/8" TBG. ND BOP. NU 4-1/2", 5000 PSI WP FRAC VALVE.
6. MI RU BJ-TITAN. FRAC DRINKARD PERFS 6554-6716 (TOTAL 66, .40" EH PERFS) DOWN 5-1/2" CASING @ 40 BA IN ONE STAGE. MAX SURF PRESS 3650 PSI (MIN BURST (14#) = 4270, 85% = 3650 PSI). ESTIMATED WHTP 3240 PSI. FRAC USING A TOTAL OF 50000 GALS TERRA-FRAC TD-4 (TFTD-4), 21400 GALS CO₂ & 87000# 20/40 BRADY SAND.
NOTE: BJ-TITAN TO SUPPLY CO₂ & BOOSTER THRU AMERIGAS. SUN TO SUPPLY DIESEL FOR FLUID LOSS CONTROL. PUMP AS FOLLOWS:
 - A. PUMP 22700 GALS TFTD-4 & 9700 GALS CO₂ PAD (45% VOLUME).
 - B. PUMP 4200 GALS TFTD-4 & 1800 GALS CO₂ W/0.5# 20/40 SD.
 - C. PUMP 5600 GALS TFTD-4 & 2400 GALS CO₂ W/1.0# 20/40 SD.
 - D. PUMP 5600 GALS TFTD-4 & 2400 GALS CO₂ W/2.0# 20/40 SD.
 - E. PUMP 5600 GALS TFTD-4 & 2400 GALS CO₂ W/3.0# 20/40 SD.
 - F. PUMP 6300 GALS TFTD-4 & 2700 GALS CO₂ W/4.0# 20/40 SD.
 - G. PUMP 4500 GALS SLICK 2% KCL & 2000 GALS CO₂ FLUSH.RECORD ISIP, 5, 10 & 15 MIN SIP. SHUT WELL IN 2 HOURS. INSTALL FLOW-BACK LINE TO FRAC TANKS.
7. FLOW BACK LOAD WTR & CO₂ TO FRAC TANKS CHECKING FOR SAND PRODUCTION. SHUT BACK IN FOR ADDITIONAL HOUR, IF NECESSARY. AFTER WELL DIES, ND FRAC VALVE, NU BOP. RIH W/ HYDROSTATIC BAILER ON 2-7/8" PROD. CO SAND TO RBP @ 6730. POH.
8. RIH W/RETRIEVING HEAD ON 2-7/8" PROD TBG. LATCH RBP AND POH.
9. RIH W/5-1/2", 14# RDG PKR & API SN ON 2-7/8", 6.5#, J-55 PRODUCTION TBG TO ± 6450 . SET PKR IN 18 P_B OF COMPRESSION. OPEN BY-PASS. LOAD BACKSIDE W/2% KCL FRESH WTR W/10 GAL/ 100 BBL TRETOLITE KW-79. CLOSE BY-PASS. ND BOP & 5000 PSI WP NATIONAL TBG SPOOL. NU 3000 PSI WP O.C.T. TBG SPOOL. NU WH.
10. SWAB WELL IN WHILE GOING TO FRAC TANKS. WHEN WELL BEGINS MAKING SIGNIFICANT OIL & GAS, TURN TO BATTERY RLSE RIG.