

NMOCC COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

MAR 16 1979

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Amoco Production Company ☒ O. C. C. ARTESIA, OFFICE

3. ADDRESS OF OPERATOR
P.O. Drawer "A", Levelland, Texas 79336

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 1980' FEL, Sec 28
AT TOP PROD. INTERVAL: (Unit G. SW/4, NE/4)
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) DST ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
NM-26103
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal K
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Wildcat
Morrow
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
25
28-24-27
12. COUNTY OR PARISH
Eddy
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
3111.8 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled to TD of 11540' and ran DST #1 11,000'-11,043' Strawn. DST results attached. Continued drilling to TD of 12,326' and ran DST #2 11,988'-12058' Morrow. DST results attached. Continued drilling.

RECEIVED
MAR 9 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Ray Cox TITLE Admin. Supervisor DATE March 7, 1979

(This space for Federal or State office use)

APPROVED BY Lee A. Lora ACTING DISTRICT ENGINEER DATE MAR 15 1979

0+4-USGS, A
1-Houston
1-Susp
1-RWA
1-Napco
1-Mesa Pet
1-El Paso Nat Gas
1-Sabine Prod

*See Instructions on Reverse Side

FEDERAL K WELL NO. 1
1980' FNL & 1980' FEL, Section 28, Unit G, T-25-S, R-27-E
Eddy County, New Mexico

DST RESULTS

DST NO. 1 11000-11043 STRAWN CLOSED CHAMBER TST TO EVALUATE LIMESTONE DRLG BREAKS 11025-11035 11090-11095 AND 11120-11125: ON 5.5 MIN INTIAL PRE-FLOW AVERAGE LIQUID FLOW RATE OF 295 BPD WAS CALCULATED. RAN 90 MIN ISIBHP WITH SURF PRS BEHAVIOR INDICATING GAS BREAKING OUT OF WATER CUSHION AFTER 7 MINS AND CONTINUING THROUGHOUT SHUT-IN. ON 23 MIN FIRST FLOW PERIOD AVERAGE FLOW RATE OF 250 BPD WAS CALCULATED WITH INDICATIONS OF SMALL PUFF OF GAS FOLLOWED BY RATHOLE MUD THEN MORE GAS LATER. RAN 59 MIN SIBHP WITH SURF PRS INCR FOR 40 MINS. ON 27 MIN SECOND FLOW PERIOD AVERAGE FLOW RATE OF 266 BPD WAS CALCULATED. OPENED ON SURFACE ON 1/4" CHOKE AFTER 18 MINS WITH INITIAL RATE 74 MCFPD AND FINAL RATE 67 MCFPD-BOTH GAS AND LIQUID STILL BEING PRODUCED. GAS WOULD NOT BURN. RAN 90 MIN FISBHP WITH SURF PRS INCR FOR 40 MINS. RECOVERED 967 FT OR 10.5 BBLS OF W CUSHION WITH CHLORIDES 2100 MPL AND RESISTIVITY 2.04 AT 60 DEG F AND 1263 FT OR 9.3 BBLS OF FORMATION W 170000 MPL AND 0.04 AT 60 DEG F. PIT MUD SAMPLE CHLORIDES 176000 MPL AND RESISITYVITY 0.04 AT 50 DEG F. SAMPLE CHAMBER REC AT 1 PSI OF 0.1 CU FT OF GAS. IHH 5719 PSI. 5.5 MIN IFBHP 628-561 PSI. 90 MIN ISIBHP 5039 PSI. 23 MIN 1ST FBHP 455-615 PSI.

DST NO. 2 11988-12058 MORROW CLOSED CHAMBER TST TO EVALUATE SN DRLG BREAK 12038-12048 AND 12051-12054: ON 5.75 MIN INITIAL PRE-FLOW AVERAGE LIQUID FLOW RATE OF 285 BPD WAS CALCULATED. RAN 90 MIN ISIBHP WITH SURF PRS BEHAVIOR INDICATING GAS BREAKING OUT OF W CUSHION AFTER 40 MINS. ON 61 MIN FINAL FLOW AVERAGE LIQUID FLOW RATE OF 141 BPD WAS CALCULATED WITH INDICATIONS OF SMALL AMOUNT OF GAS BEING PRODUCED WITH LIQUID. RAN 183 MIN FSIBHP WITH VERY SMALL AMOUNT OF GAS BREAKING OUT. REC 2200 FT OR 19 BBLS OF WATER CUSHION WITH CHLORIDES 2300 MPL AND RESISITIVITY 2.0 AT 68 DEG F and 600 FT OR 6.5 BBLS OF FORMATION WATER 85000 MPL AND 0.08 AT 68 DEG F. SAMPLE CHAMBER RECOVERY AT 50 PSI OF 0.4 CU FT OF GAS AND 1800 CC OF WATER WITH CHLORIDES 79000 MPL AND RESISTIVITY 0.08 AT 68 DEG F VS PIT MUD 137000 MPL AND 0.05 AT 68 DEG F. IHH 6335 PSI. 5.75 MIN IFBHP 1092-1106 PSI. 90 MIN ISIBHP 5405 PSI. 61 MIN FFBHP 1159-1292 PSI. 183 MIN FSIBHP 4739 PSI. FHH 6362 PSI. BHT 205 DEG F. VISUAL INTERPRETATION OF CHART INDICATES FAIR PERMEABILITY FM WITH SHUT-IN PRS QUITE A BIT DIFFERENT AND BOTH STILL BUILDING SLIGHTLY.