

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N.M.O.C.D. COPY

SUBMIT IN DUPLI 3*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

LC 062404

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Empire Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated (Morrow)

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 20, T-18-S, R-29-E

12. COUNTY OR
PARISH

Eddy

13. STATE

NM

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Southland Royalty Company /

3. ADDRESS OF OPERATOR

1100 Wall Towers West, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1980' FNL & 660' FEL; Sec. 20, T-18-S, R-29-E

At top prod. interval reported below

1980' FNL & 660' FEL, Sec. 20, ARTESIA, NEW MEXICO

At total depth

SAME

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH

Eddy

13. STATE

NM

15. DATE SPUDDED

9-15-80

16. DATE T.D. REACHED

10-28-80

17. DATE COMPL. (Ready to prod.)

11-8-80

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

3529.6 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

11,355

21. PLUG BACK T.D., MD & TVD

11,160

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

11,093 - 11,116' Morrow

DEC 19 1980

25. WAS DIRECTIONAL
SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL w/RXO; CNL-FDC-Caliper

O. C. D.

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well) ARTESIA, OFFICE

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	42#	255'	15"	250 sxs + 4 yd RdMix down	back side to sur
8 5/8"	24#	3,200'	11"	1500 sxs Lite wt & C1"C" C	Circ 100 sxs
4 1/2"	11.6 & 13.5#	11,335'	7 7/8"	1250 sxs Lite wt Cmt DV @	Circ 75 sxs 1 sta
				7803' - Open DV cmt w/775	TOC @ 4970 by

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	10,987'	10,970'

31. PERFORATION RECORD (Interval, size and number)

1 JSPF 11,093 - 11,116;

21 Holes Total

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11,093-11,116'	Spotted 250 gal 10% Acetic Acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11-10-80		Flowing					SI (WOPL)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
11-10-80	1 hr	20/64	→	.0208	52.08	.0208		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
1950		→	1/2	1250	1/2	57.8		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

SI (WOPL)

ACCEPTED FOR RECORD

TEST WITNESSED BY

Wayne Grubbs

35. LIST OF ATTACHMENTS

Electric Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

C. C. Parsons

U.S. District Operation Engineer

DATE 12-4-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Bone Spring	6242'	6287'	15 min IF - Weak Blow. 1 hr ISI. 1 hr FF - Weak Blow. 1 1/2 hr FSI Rec. 30' Drl Mud. IH-2795# IF - 27#. FF - 27#. FSI - 18# FH - 2795#. Sampler No Press. Rec. 2100 cc wtr. Temp 112° F.	T/Salt B/Salt Yates Queen Grayburg San Andres 1st Bone Spring 2nd Bone Spring 3rd Bone Spring Wolfcamp	250 800 1,050 1,975 2,350 2,814 6,516 7,442 8,272 8,480	
Bone Spring	6551'	6596'	15 min. IF - Fair Blow. 1 hr ISI. 1 hr FF - Weak Blow & Died. 1 1/2 HR FSI Rec. 40' Drl Mud & 3' Oil. Sampler 35# Press. Rec. 14 CFG, 950 cc oil (39.9 Gravity 633 cc wtr. Temp 114° F. IH - 2913# IF - 57#. ISI 263#. FF-57#. FSI 500#. FH - 2933#	Cisco Canyon Strawn Atoka	9,616 10,074 10,390	
Morrow	10,736'	10,790'	15 min. IF - Weak to Fair blow, 1 hr ISI, 1 hr FF Fair Blow. 3 hr FSI. Rec 65' Drl Mud. IH 5778#. IF - 69# ISI 517# FF 34#. FSI 2545# FH 5744# Sampler 35#. Rec 2000 cc Drl Mud. Temp 200° F.	Morrow Lime Morrow "A" Morrow "E"	10,688 10,912 11,052	