

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

LC 067132

RECEIVED

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

JUN 29 1981

8. FARM OR LEASE NAME

Empire Federal

O. C. D.
ARTESIA, OFFICE

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Undesignated (Strawn)

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

Sec 21, T-18-S R-29-E

12. COUNTY OR
PARISH
Eddy13. 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 79701

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

At surface 860' FSL & 2180' FEL, Sec 21, T-18-S, R-29-E

At top prod. interval reported below

Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

12/23/81

16. DATE T.D. REACHED

2/6/81

17. DATE COMPL. (Ready to prod.)

3/5/81

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

3473.8' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

11,610'

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

11,165'

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

ROTARY TOOLS

CABLE TOOLS

0-TD

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

10,420-10,422' (Strawn)

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNL/FDC/GR-Caliper; DLL/MLL/Gr-Caliper

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	42#	255'	17 1/2"	350 SXS	Circ 65 sxs
8 5/8"	24 & 28#	3102'	11"	1700 SXS	Circ 200 sxs
4 1/2"	11.6 & 13.5#	11,596'	7 7/8"	975 SXS	LOC @ 7945' by Twp Svy

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACER SET (MD)
					2 3/8"	10,312'	10,312'

31. PERFORATION RECORD (Interval, size and number)

1 JSPF from 10,420-10,422'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10,420-10,422'	Spot 250 gals 10% acetic acid
10,420-10,422'	Acidz w/4000 gals 15% NE acid

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
3/5/81		Flowing				SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS—OIL RATIO
3/7/81	24	14/64	→	71.12	550 MCF/D		77:3
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY (API (CORR.))	
650 psi		→	71.12	550 MCF/D		60	

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

SI (Waiting on clearance)

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

U.S. GEOLOGICAL SURVEY
District Operations Engineer DATE 6/19/81

*(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 35.

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": Attach 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				T/Salt	250'	
				B/Salt	820'	
				Yates	1106'	
				Queen	2000'	
				Grayburg	2415'	
				San Andres	2940'	
				Bone Springs	6638'	
				Wolfcamp	8680'	
				Pen	9692'	
				Lower Strawn	10,124'	
				Atoka Clastics	10,502'	
				Morrow	10,696'	
				Morrow "A"	10,930'	
				Morrow "E"	11,238'	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

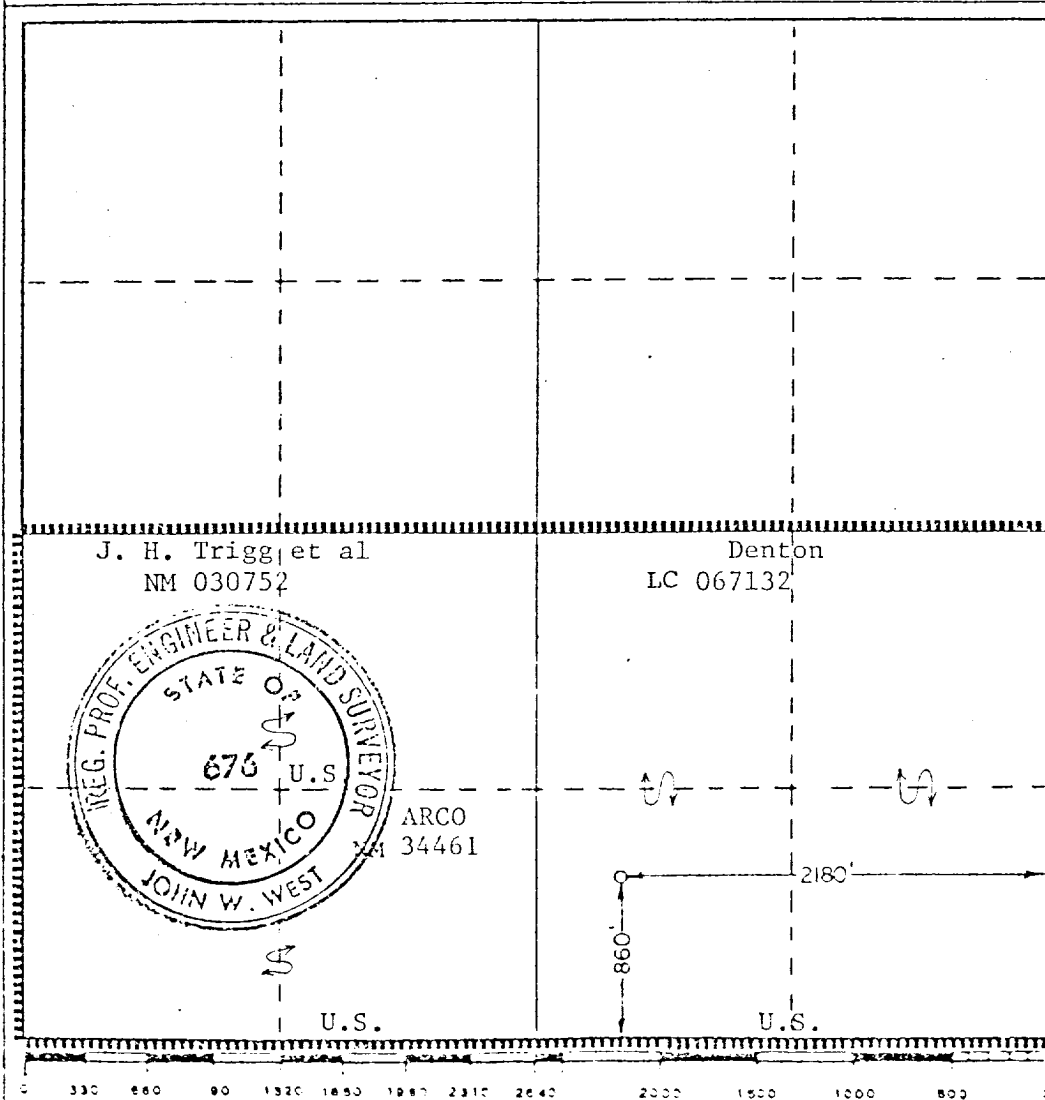
Operator Southland Royalty Co.			Lease Empire Federal 21 Comm.		Well No. 1
Unit Letter O	Section 21	Township 18 South	Range 29 East	County Eddy	
Actual Footage Location of Well: 860 feet from the South line and 2180 feet from the East line					
Ground Level Elev 3473.8	Producing Formation Strawn	Pool Undesignated	Dedicated Acreage: 320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name John W. West
 Position District Operations Engineer
 Company Southland Royalty Company
 Date 6/19/81

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveys 10-10-80
 Registered Professional Engineer and/or Land Surveyor
John W. West
 Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6663
Ronald J. Edson 3239

FIELD _____ COUNTY Eddy OCC NUMBER _____
OPERATOR Southland Royalty Company ADDRESS 1000 Fort Worth Club Tower
Fort Worth, Texas 76102
LEASE Empire Federal #1 Com. _____ WELL NO. #1
SURVEY 860' FSL & 2180' FEL of Section 21 T-18-S R-29-E

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
496	3/4
704	3/4
1,199	3/4
1,694	1
2,186	1 1/4
2,680	1 1/4
3,102	1 1/4
3,592	3/4
4,081	1 1/2
4,580	1 1/2
5,076	1 3/4
5,300	2
5,800	2 1/4
6,252	2
6,748	1 3/4
7,248	1 3/4
7,339	1 3/4
7,835	1 1/2
8,330	2
8,795	1
9,200	1 1/4
9,688	1
10,090	1
10,587	1 1/4
11,002	1/4
11,478	1/2
11,610	3/4

RECEIVED

JUN 22 1981

O. C. D.
ARTESIA, OFFICE

Certification of personal knowledge inclination data:

I hereby certify that I have personally assembled the data and facts placed on this form, and such information given above is true and complete to the best of my knowledge.

HONDO DRILLING COMPANY

BY: Walter Frederickson
Walter Frederickson
Vice President *By Mike Lipton*

Sworn and subscribed to before me the undersigned authority, on this the

19th day of June, 1981.

Margaret B. Anderson Notary Public in and for Midland County, Texas
Margaret B. Anderson