

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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 Flag-Redfern Oil Company			
3. ADDRESS OF OPERATOR P. O. Box 23, Midland, Texas 79701			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FEL & 860' FNL At top prod. interval reported below Same At total depth Same			
14. PERMIT NO.		DATE ISSUED 1-5-76	
15. DATE SPUDDED 1-6-76	16. DATE T.D. REACHED 1-15-76	17. DATE COMPL. (Ready to prod.) 2-11-76	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3972' GR
19. ELEV. CASINGHEAD 3972'	20. TOTAL DEPTH, MD & TVD 5040'		
21. PLUG, BACK T.D., MD & TVD 5028'	22. IF MULTIPLE COMPL., HOW MANY* -	23. INTERVALS DRILLED BY ROTARY TOOLS 0 - T.D.	CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4952-5016' San Andres			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Neutron Porosity Log			27. WAS WELL CORED No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8"	24#	369'	12-1/4"
4-1/2"	10.50#	5040'	7-7/8"
29. LINER RECORD		30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
			SCREEN (MD)
			SIZE
			DEPTH SET (MD)
			PACKER SET (MD)
			2-3/8"
			5011'
			-
31. PERFORATION RECORD (Interval, size and number) 4952-5016', 0.43", 60 holes		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
4952-5016'		10,000 gals 20%, 10,000 gals 15% acid	
33.* PRODUCTION			
DATE FIRST PRODUCTION 2-11-76		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - 2" X 1 1/2" X 14' Insert	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 2-26-76	HOURS TESTED 24	CHOKE SIZE -	PROD'N. FOR TEST PERIOD →
OIL—BBL. 19	GAS—MCF. 51	WATER—BBL. 3	GAS-OIL RATIO 2684
FLOW. TUBING PRESS. -	CASING PRESSURE -	CALCULATED 24-HOUR RATE →	OIL—BBL. 19
GAS—MCF. 51	WATER—BBL. 3	OIL GRAVITY-API (CORR.) 21.5°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold		TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Well log & deviation survey			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED John H. S. S. S.		TITLE Petroleum Engineer	
DATE 3-8-76			

*(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": 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

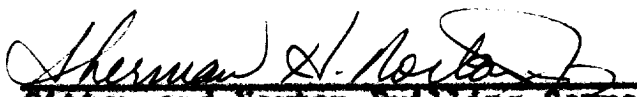
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	4945	5018	Oil, Gas, Water	Yates	2962	2962
				San Andres	4195	4195
				P1 Zone	4785	4785
				P-1 Porosity	4945	4945

January 15, 1976

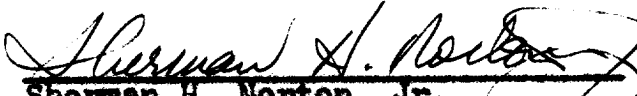
Deviation surveys taken on Flag-Redfern Oil Company's Bilbrey "51" #4, Section 23, T-9-S, R-37-E, Lea County, New Mexico.

<u>Depth</u>	<u>Degree</u>
369	1/4
841	1/4
1336	1/2
1831	1/2
2266	1/4
2761	1/2
3050	1
3747	1 3/4
4185	1
4396	1/2
4880	1/2
5040	1/2

I hereby certify that I have personal knowledge of the data and facts placed on this sheet, and that such information given above is true and complete.


Sherman H. Norton, Jr.
Sitten and Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared Sherman H. Norton, Jr., known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.


Sherman H. Norton, Jr.

Sworn and Subscribed to before me this the 15 day of January, 1976.


Notary Public in and for Lubbock
County, Texas.

THEORY

The following are the main points of the theory.

1. THE FIRST LAW

The first law of thermodynamics states that

the total energy of a system is constant.

This law is a statement of the conservation of energy.

It is the basis of all thermodynamic calculations.

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