

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC.

(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 Black River Corporation							
3. ADDRESS OF OPERATOR 620 Commercial Bank Tower, Midland, Texas 79701							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1877' PNL 1650' FWL Section 34 At top prod. interval reported below At total depth							
14. PERMIT NO. DATE ISSUED Approved May 31, 1974							
15. DATE SPUDDED 6-27-74		16. DATE T.D. REACHED 8-7-74		17. DATE COMPL. (Ready to prod.) 10-26-74		18. ELEVATIONS (OF, RISE RT, GR, ETC.)* 3715 GR	
20. TOTAL DEPTH, MD & TVD 1584'		21. PLUG BACK T.D., MD & TVD 1438'		22. IF MULTIPLE COMPLEMENTS, HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS	
24. PRODUCING INTERVAL(S). (OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*) 1357'-1360' Delaware						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma-Ray Neutron Log						27. WAS WELL CORED Yes	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9 5/8"		36#		285'		12 1/4"	
7"		20#		1445'		8 1/2"	
						CEMENTING RECORD	
						200 sx. Class "H"	
						2 Stages 1425-1190 50 sx.	
						1190-0 175 sx.	
						AMOUNT PULLED	
						None	
						None	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
						SCREEN (MD)	
						30. TUBING RECORD	
						SIZE	
						DEPTH SET (MD)	
						PACKER SET (MD)	
						2 3/8"	
						1351'	
						1362'	
31. PERFORATION RECORD (Interval, size and number)							
1357'-1360' Six Holes (.43 diameter)							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
1357'-1360'				2500 gallon unjelled f/w			
				4000# 20/40 sand			
				250 gallons M.S. 15% acid			
				15 gallons emulsion breaker chem.			
33. PRODUCTION							
DATE FIRST PRODUCTION 8-29-74		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping (2" X 1 1/2" X 10' R.W.T. Rod Pump)				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 10-26-74		HOURS TESTED 24		ROD SIZE 3/4"		PROD'N. FOR TEST PERIOD 4.35	
FLOW TUBING PRESS.		CASING PRESSURE		CALCULATED 24 HOUR RATE 4.35		OIL—BBL. 4.35	
						GAS—MCF. 59.45	
						WATER—BBL. 4.35	
						OIL GRAVITY-API (CORR.) 40	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented							
35. LIST OF ATTACHMENTS 2 Copies Gamma-Ray neutron Logs, 2 copies Core analysis							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Vernice Jordan		TITLE Vice President		DATE 10-29-74			

*(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: "Seals 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
Delaware	5777			Lamar	500	
Cored Delaware	1331 1351	1339 1366	Sand, shale, water Sand, Shale, oil, water	Transitional Main Delaware Sandstone	577	

PRELIMINARY PRINT

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. _____

CORE ANALYSIS RESULTS

Company BLACK RIVER CORPORATION Formation DELAWARE File 621-9337
Well CITIES FEDERAL NO. 4 Core Type _____ Date Report 7-21-74
Field WILDCAT Drilling Fluid FRESH GEL Analysts DILLARD
County EDDY State NEW MEX. Elev. 3725' GL Location 1877' FNL 1614' FWL T-25-S R-24-E

Lithological Abbreviations

SAND-SD
SHALE-SH
LIME-LM
DOLOMITE-DOL
CHERT-CH
GYPSUM-GYP
ANHYDRITE-ANHY
CONGLOMERATE-CONG
FOSSILIFEROUS-FOSS
SANDY-SDY
SHALY-SHY
LIMY-LMY
FINE-FN
MEDIUM-MED
COARSE-CSE
CRYSTALLINE-XLN
GRAIN-GRN
GRANULAR-GRNL
BROWN-BRN
GRAY-GY
VUGGY-VGY
FRACTURED-FRAC
LAMINATION-LAM
STYLOLITIC-STY
SLIGHTLY-SL/
VERY-V/
WITH-W/

MPLE MDEB	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

CONVENTIONAL ANALYSIS

1	1331.0-32.0	0.2	4.0	0.0	87.2	Sd, Shy
2	32.0-33.0	<0.1	3.4	0.0	90.9	Sd,
3	33.0-34.0	0.2	4.1	0.0	90.3	Sd
4	34.0-35.0	0.3	5.6	0.0	92.5	Sd
5	35.0-36.0	<0.1	5.8	0.0	86.6	Sd
6	36.0-37.0	0.2	8.8	0.0	75.9	Sd
7	37.0-38.0	0.5	16.1	0.0	57.4	Sd, Shy
8	38.0-39.0	0.5	16.7	0.0	57.0	Sd,
9	1339.0-40.0	0.5	17.8	0.0	59.1	Sd, Shy
	1340.0-51.0					Lost Core
10	1351.0-52.0	0.5	15.2	0.0	30.0	Sd, Shy
11	52.0-53.0	0.5	15.2	0.0	39.0	Sd
12	53.0-54.0	0.5	14.6	0.0	43.3	Sd, Shy
13	54.0-55.0	11.0	21.5	15.4	24.4	Sd, Shy
14	55.0-56.0	26.0	18.2	0.0	40.1	Sd, Shy
15	56.0-57.0	41.0	18.2	3.6	64.3	Sd, Shy
16	57.0-58.0	4.6	17.0	13.0	24.8	Sd, Shy
17	58.0-59.0	6.2	18.3	13.2	22.5	Sd, Shy
18	59.0-60.0	7.3	19.3	13.5	26.0	Sd, Shy
19	60.0-61.0	7.7	20.3	11.8	27.0	Sd
20	61.0-62.0	8.1	19.9	13.8	22.3	Sd
21	62.0-63.0	7.7	19.2	9.2	35.1	Sd,
22	63.0-64.0	7.3	18.5	15.0	34.9	Sd
23	64.0-65.0	4.2	18.5	14.1	35.0	Sd
24	65.0-66.0	13.0	20.4	13.3	32.6	Sd
25	1366.0-66.5	12.0	22.0	13.3	33.4	Sd

RECEIVED

NOV 1974

O. L. C.
ARTESIA, OFFICE

RECEIVED

OCT 30 1974
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

[illegible]