

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 Blackwood & Nichols Co., Ltd.															
3. ADDRESS OF OPERATOR P. O. Box 1237, Durango, CO 81302															
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)* At surface 1190' F/SL, 1050' F/WL At top prod. interval reported below At total depth															
14. PERMIT NO. : DEC 21 1987				DATE ISSUED DEC 21 1987											
15. DATE SPUDDED 10-10-87		16. DATE T.D. REACHED 10-21-87		17. DATE COMPL. (Ready to prod.) 11-25-87		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6347' G.L.; 6359' RKB		19. ELEV. CASINGHEAD 6349'							
20. TOTAL DEPTH, MD & TVD 8006'		21. PLUG, BACK T.D., MD & TVD 7954'		22. IF MULTIPLE COMPL., HOW MANY* Dual		23. INTERVALS DRILLED BY →		ROTARY TOOLS Yes		CABLE TOOLS					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota: 7772 to 7894										25. WAS DIRECTIONAL SURVEY MADE					
26. TYPE ELECTRIC AND OTHER LOGS RUN SP-GR-Induction-Density-Cement Bond										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					
9 5/8"		36.0		305		12 1/4		325 cf Class B							
7"		23.0		3607		8 3/4		920 cf Howco Lite							
4 1/2"		11.6#		3448-8006		6 1/4		236 cf Class B							
4 1/2"								748 cf 50/50 Pozmix							
29. LINER RECORD						30. TUBING RECORD									
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
4 1/2"		3448		8006		748 cf				2.375		7862		3410	
31. PERFORATION RECORD (Interval, size and number) Dakota zones: 4 shots per zone at 7772', 7778', 7784', 7790', 7796', 7820', 7826', 7831', 7840', 7844', 7854', 7860', 7866', 7872', 7888' and 7894' for a total of 16 zones and 64 holes						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
						DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED							
						7772' to 7894'		1500 gel 7 1/2% HCL							
								108,000 gals. 40# gel							
								25,000# 40/60 sand							
								100,000# 20/40 sand							
33.* PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing						WELL STATUS (Producing or shut-in) Shut In/Waiting on connection							
DATE OF TEST 11-25-87		HOURS TESTED 3		CHOKE SIZE 3/4		PROD'N. FOR TEST PERIOD →		OIL—BBL. none		GAS—MCF. 1,321		WATER—BBL.		GAS-OIL RATIO	
FLOW. TUBING PRESS. 95 psig		CASING PRESSURE 2490 psig		CALCULATED 24-HOUR RATE →		OIL—BBL. none		GAS—MCF. 1,321		WATER—BBL.		OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented										TESTED BY DEC 17 1987					
35. LIST OF ATTACHMENTS															
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records															
SIGNED <u>William F. Clark</u> William F. Clark						TITLE <u>Operations Manager</u>			BY <u>RV</u> DATE <u>12/10/87</u>						

*(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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
jo Alamo	2262	2393	Sand; water			
irtland	2393	2894	Shale & sand; water			
ruitland	2894	3174	Shale & coal; hydrocarbons & water			
pper Pictured Cl.	3174	3246	Sand; hydrocarbons			
asal Fruitland	3246	3264	Coal; hydrocarbons & water			
Coal						
ower PC	3264	3422	Sand; hydrocarbons			
ewis	3422	5225	Shale			
liffhouse	5225	5262	Sand; hydrocarbons			
enefee	5262	5526	Sand; hydrocarbons			
oint Lookout	5526	6982	Sand; hydrocarbons			
allup	6982	7577	Shale and sands			
reenhorn	7577	7640	Limestone			
ranerous	7640	7764	Shale & sand			
akota	7764		Sand & shale; hydrocarbons			