

FORM NO. 35  
(Obverse)

[08-78]

WELL OPERATOR'S REPORT

OF

Oil, Gas, and Steam Wells

Mingo 959

WELL TYPE: Oil  Gas  Oil / Injection / Water / Steam / Other  
(If "Gas", Production  / Underground storage  / Other  / Other

LOCATION: Elevation: 610' (top.) Watershed: Tug Fork of Big Sandy River  
District: Kermit County: Mingo Subdistrict: Kermit

WELL OPERATOR: Eastern Kentucky Exploration Co. DESIGNATED AGENT: Robert E. Vital  
Address: 2560 Hoods Creek Pike Address: 622 7th Street  
Ashland, Kentucky 41101 Huntington, West Va.

ADMITTED WORK: Drill  / Convert  / Drill deeper  / Re-drill  / Fracture or stimulate  
Plug off old formation  / Perforate new formation  /  
Other physical changes in well (specify) \_\_\_\_\_

PERMIT ISSUED ON: N/A OIL & GAS INVENTORY FOR THIS WORK:  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

FINAL TARGET STRATUM: Devonian Brown Shale Depth: 3100 feet  
Depth of completed well: 3,100 feet Rotary  / Cable Tools   
Water strata depth: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
Is coal being mined in the area? \_\_\_\_\_  
Work was commenced December, 19 24, and completed Jan. 5, 19 26

LOGGING AND TUBING PROGRAM

TUBING SIZE	LOGGING INTERVALS				PERCENTAGE INTERVALS	TUBING FILLED OR CAGED (Cubic feet)	PACKERS
	Start	Stop	Run In	Now			
14"					60'		Plugs
10"					276'		Plugs
6 5/8"					1,420'		Plugs
3"					3,012'		6 5/8" by 3" set at 2,124' Perforations: Top Bottom
8"					1131'	Pulled	

LOG DATA

Interval and formation: Devonian Brown Shale Depth: 2930' to 3030'  
Initial open flow, 5,000 Mcf/d Final open flow, -0-  
Final open flow, 3,300 Mcf/d Final open flow, -0-  
Time between initial and final tests, N/A hours  
Pressure, 380 psig (surface measurement) after 15 days of shut in.  
Perforations: Berea Sand Pay zone depth: 2140 to 2200'  
Initial open flow, Show Mcf/d Final open flow, -0-  
Final open flow, 183 Mcf/d Final open flow, -0-  
Time between initial and final tests, \_\_\_\_\_ hours

DEEP WELL

DEEP WELL

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil, gas, and salt water, coal, etc.
Sand & Gravel			0	55	
Sand			55	78	
White Slate			78	85	
Sand			85	120	
Slate			120	150	
Broken Sand			150	195	
Sharp Sand			195	225	
Slate			225	255	
Coal			255	257	
Slate			257	265	
Coal			265	270	
Slate			270	286	
Sand			286	366	
Slate & Sand			366	676	
Sand			676	695	
Slate			695	706	
Salt Sand			706	931	
Slate			931	941	
Lime			941	961	
Slate			961	967	
Lime			967	982	
White Sand			982	1111	
Black Slate			1111	1131	
Gray Slate			1131	1140	
Red Rock			1140	1190	
Green Slate			1190	1205	
Red Rock			1205	1215	
Slate & Grey Shells			1215	1250	
Red Rock			1250	1305	
Maxton Sand			1305	1313	
Slate & Shells			1313	1338	
Red Rock			1338	1348	
Slate & Shells			1348	1378	
Shale			1378	1390	
Little Lime			1390	1406	
Pencil Cave			1406	1418	
Big Lime			1418	1560	

(continued on separate sheet)

(Attach separate sheets to complete as necessary)

Eastern Kentucky Exploration Company  
Well Operator

By Roy M. Dunham  
Roy M. Dunham, Secretary-Treasurer

NOTE: Regulation 5.02 provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including oil, encountered in the drilling of a well."

Shirley DANIELS

PARTICIPANTS:

DATE: MAR 20 1981

BUYER

Well Log

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
Slate			1560	1566	
Big Injun Sand			1566	1641	
Slate & Shells			1641	2072	
Coffee Shale			2072	2102	
Berea Sand			2102	2132	
Slate Break			2132	2140	
Berea Sand			2140	2200	Gas Show
Slate & Shells			2200	2307	
Light Gray Shale			2307	2416	
Gray Sand & Shells			2416	2425	
Light Gray Shale			2425	2446	
Dark Gray Shale			2446	2536	
Shale			2536	2600	
Dark Gray Shale			2600	2744	
Black Shale			2744	2850	
Brown Lime			2850	2862	
Brown Shale			2862	2923	
Gray Shale			2923	2930	
Brown Shale			2930	2971	Gas
Brown Shale			2971	3030	Gas
Gray Shale			3030	3089	
Dark Gray Shale			3089	3098	
Gray Shale			3098	3124	
Black Shale			3124	3129	
Dark Gray Shale			3129	3206	
Black Shale			3206	3210	
Dark Gray Shale			3210	3222	
Black Lime			3222	3223	
Dark Gray Shale			3223	3254	
Black Shale			3254	3265	
Dark Gray Shale			3265	3294	
Black Lime			3294	3300	
Black Shale			3300	3323	
Black Lime			3323	3398	
Black Corniferous			3398	3561	
Lime & Shells			3561	3652*	

\*Total Depth  
 Filled with rock and plugged back to 3100'.