38 22 30

176

,62

Latitude

Topo Location

7.5' Loc.______ 15' Loc._____ (calc.)

Company Columbia Nat Res

Farm Appalachian Land Co 8 24021

7.5' Quad <u>mammoth</u>

District EK

WELL LOCATION PLAT

County Car Permit 5307

8118

ongitude

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Operator Well No.: 824021 Farm name: APPALACHIAN LAND CO. Elevation: 810.00 Quadrangle: MAMMOTH LOCATION: County: KANAWHA District: ELK Latitude: 4025 Feet South of 38 Deg. 22Min. 30 Sec. Longitude 3250 Feet West of 81 Deg. 17 Min. 30 Sec. Company: COLUMBIA NATURAL RESOURCE Left Used in P. O. BOX 6070 Casing Fill Up CHARLESTON, WV 25362-0000 Σe in Well|Cu. Ft. Drilling Tubing Agent: W. A. WATSON, JR. Size Inspector: CARLOS HIVELY 20" 199' 199' Permit Issued: 10/04/99 10/08/99 Well work Commenced: Well work Completed: 1,837' 13 3/8" 1.837' Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) 5.518' 95911 Fresh water depths (ft) 8,306' 8.306' Salt water depths (ft) 870<u>, 1</u>328 Is coal being mined in area (Y/N)?N Coal Depths (ft): 2 3/8" 8.158' OPEN FLOW DATA Producing formation Black River Pay zone depth (ft) 9,481' (A Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow 15,000* MCF/d Final open flow Bbl/d Time of open flow between initial and final tests 24 Hours Static rock Pressure 4,575 psig (surface pressure) after 72 Hours *Gas Contained 300 PPM H2S Pay zone depth (ft) 9,481' (Natural) Pay zone depth (ft) Second producing formation_ Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow ___ Hours Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after _ NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. For: COLUMBIA NATU By: Date:

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Dave Gocke

:NR Well #: 824021

47-39-05307 ormit#:

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815

Kanawha ounty:

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<u>ield:</u>

Union Carbide-Deep

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Union Carbide

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Rose Gurstine	6550	-	680
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Show Gas 2 Show Gas 3 Show Gas 4 Show Gas 4 Show Gas 4	Show Oil 1 Show Oil 2 Show Oil 2 Formation @ TD Beekmantown Dol.
Pay 7 Black River Ls. (Frac Pay 2 Pay 3 Pay 4 Pay 6 Pay 6	IOF IRE Formation Hole Fluid 9# Salt Mud
	Oate: 01/21/2000 A, Sonic, Dir, FMS, TD to intermediate casing point, GR to surface.