

FILE COPY

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



- 1) Date: September 12, 19 86
- 2) Operator's Well No. Sam McMillan #6
- 3) SIC Code _____
- 4) API Well NO. 47 - 095 - 1164-LI
State County Permit
- 5) UIC Permit No. _____

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

*WVDOP
database
no such #
8/21/95 Kla.*

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 829 Watershed: Indian Creek
District: McElroy County: Tyler Quadrangle: Centerpoint 7.5'
- 8) WELL OPERATOR Pennzoil Company
Address P.O. Box 1588
Parkersburg, WV 26102
- 9) DESIGNATED AGENT James A. Crews
Address P.O. Box 1588
Parkersburg, WV 26102
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther
Address General Delivery
Middlebourne, WV
- 11) DRILLING CONTRACTOR:
Name _____
Address _____

- 12) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
Plug off old formation _____ / Perforate new formation _____ / Convert _____
Other physical change in well (specify) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 2692 feet(top) to 2712 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2767' ft.
- 15) Approximate water strata depths; Fresh, 100 feet; salt, 1434 feet.
- 16) Approximate coal seam depths: 634'
- 17) Is coal being mined in the area? Yes _____ / No /
- 18) Virgin reservoir pressure in target formation 1260' psig. Source estimated
- 19) Estimated reservoir fracture pressure 3500 psi _____ psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 bbl/hr Bottom hole pressure 2332 psi
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh/produced water treated with bacteriacides and other chemicals as necessary to maintain water quality
- 22) FILTERS (IF ANY): cartridge and/or coal bed filters
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	7	H40	20#	X		679'	679'	Cement to surface		
Coal										
Intermediate										
Production	4-1/2	K55	9.5#	X		2767'	2767'	250 sks.	Depths set	
Tubing								50/50 posmix		
Liners									Perforations:	
									Top	Bottom

- 25) APPLICANT'S OPERATING RIGHTS were acquired from S.B. & Samuel McMillan
by deed _____ / lease / other contract _____ / dated May 4, 1984, of record in the
Tyler County Clerk's office in Lease Book 23 at page 241

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.