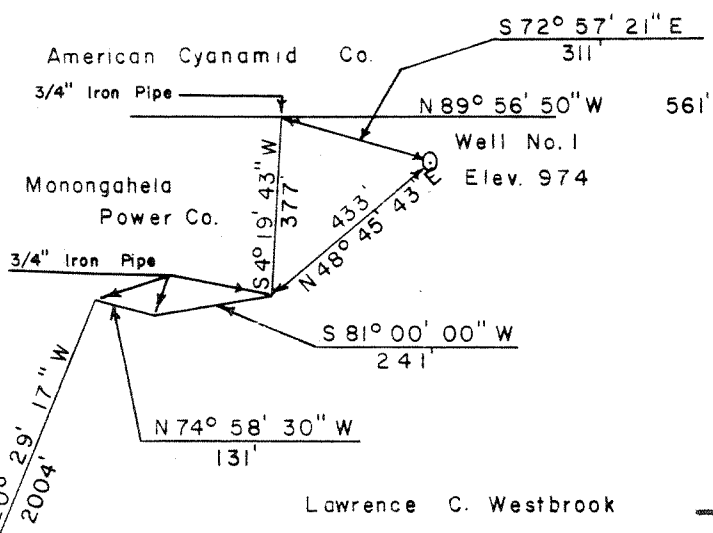


To the best of my knowledge, there are no existing wells within 1200' of this location.



1" = 400'

+ 5.095
2.420

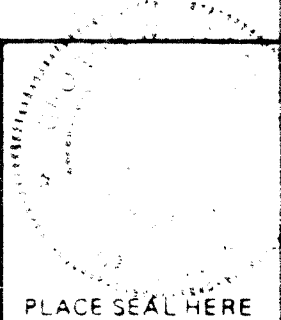
2215
0.190

Quad. Location
1" = 2000'

FILE NO _____
 DRAWING NO _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM
 80 WSM 1956 790

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES

(SIGNED) G. N. Stewart
 R.P.E. _____ L.L.S. 696



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE Dec. 9 19 83
 OPERATOR'S WELL NO 1
 API WELL NO
 47 - 073 - 1785
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

According to JEP drilled 3-7-84

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS.") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 974 WATER SHED COW CREEK
 DISTRICT GRANT 1 COUNTY PLEASANTS
 QUADRANGLE Willow Island 686 Marietta 0735' ECL
 SURFACE OWNER Lawrence C. Westbrook ACREAGE 136
 OIL & GAS ROYALTY OWNER (Same) LEASE ACREAGE 136

LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Shale 201 ESTIMATED DEPTH 5000'
 WELL OPERATOR CUYAHOGA EXPLORATION DESIGNATED AGENT Roger Hunter
 ADDRESS Rt. 6 County House Lane ADDRESS P.O. Box 1386
 Marietta Ohio 45750 Charleston W. Va. 25325

FEB 16 1984

DRILLER'S RECORD

Previously Requested, but NOT
AVAILABLE

DATE: _____

<u>073</u> COUNTY	<u>1785</u> PERMIT
----------------------	-----------------------

ID: COUNTY: 073 (PLEASANTS) PERMIT: 1785 SFX: 0 (New Location)

REASSIGNED ID #: ()

COMPLETION INFO: ELEVATION: COMP REC FLAG: (not@DOE/OGIS)
 ELEVATION TYPE: RIG TYPE:
 () (???)

* LOCATION TAX DST: 1 (Grant)
 * INFO: DEGREES MINUTES MILES
 * 7.5' LATITUDE: 39 22.5 2.21S
 * LONGITUDE: 81 17.5 0.19W
 * QUADRANGLE: 486 (Willow Is)

CLASSIFICATION: DATES: MM/DD/YYYY
 INITIAL: (unclassified) SPUD: / / WELL TYPE:
 FINAL: (unclassified) COMP: / / ()
 FIELD: BATCH: / / CMPL METH:
 (?Never assigned) YEAR RPTD: ()

* 15' LATITUDE: 39 25 5.09S
 * LONGITUDE: 81 15 2.42W
 * QUADRANGLE: 073 (Marietta)
 * 5' SECT: 6 (East Central)

OPEN GAS-BEFORE TREATMENT: (MCFPD) OIL-BEFORE TREATMENT: (BOPD)
 FLOW: GAS-AFTER TREATMENT: (MCFPD) OIL-AFTER TREATMENT: (BOPD)

* UTM: EASTING: 474554.4 NORTHING: 4354679.5
 * COORDINATE DIGITIZED (Y/N): N

ROCK NATURAL (PSI): 0 TIME (NATURAL, IN HOURS): 0
 PRESSURE: TREATED (PSI): 0 TIME (TREATED, IN HOURS): 0

* OWNER STATUS: C (Cmplt) DATE: / /
 * INFO: SURFACE OWNER: Lawrence C Westbrook 1
 * OIL&GAS OWNER:
 * COMPANY NUMBER:
 * OPERATOR: 0201 (Cushoss E & D)

DEPTHS: TOTAL FTG: 0 NEW FTG: 0 EXPL FTG: 0

DEEPEST FM: AT TOTAL DEPTH: 999 TESTED: 999
 (undetermined unit) (undetermined unit)

MECHANICAL LOG INFO:

STATUS: RANGE OF INTERVALS: 1360- 4134 DEEPEST FM LOGGED:
 LOGS AVAILABLE: GR,N,D,* MICROFILM ROLL NUMBER(S): 138,169
 COMMENT:
 LOG TYPES: GR-ssms ray; D-density; T-temperature; I-induction; N-neutron; S-sonic; #Other types not noted

RECEIVED
FILE COPY

JAN 17 1984



1) Date: December 28, 19 83
 2) Operator's Well No. Lawrence Westbrook #1
 3) API Well No. 47 - 073 - 1785
 State County Permit

STATE OF WEST VIRGINIA
 OIL & GAS DIVISION
 DEPT. OF MINES
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 974 Watershed: Ohio River LOW CREEK
 District: Grant County: Pleasants Quadrangle: Willow Island
 6) WELL OPERATOR Cuyahoga Exploration & Dev. 7) DESIGNATED AGENT Roger Hunter
 Address Route 6, County House Lane Address P. O. Box 1386
Marietta, Ohio 45750 Charleston, WV 25325
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery
Middlebourne, WV 26149
 9) DRILLING CONTRACTOR: Name not yet determined
 Address _____
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Devonian Shale Benson formation
 12) Estimated depth of completed well, 5,000 feet
 13) Approximate trata depths: Fresh, 100 feet; salt, 1,500 feet.
 14) Approximate coal seam depths: not applicable Is coal being mined in the area? Yes _____ / No

15) 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		
Conductor	11-3/4		38.0	X		60'	60'		Kinds
Fresh water	9-5/8		36.0	X		410200'	410200'	100 sacks	<u>CTS NEAR</u>
Coal									Sizes
Intermediate	7		20.0	X		2500'	2500'	300 sacks	
Production	4.5		10.5			5000'	2500'	300 sacks	Depths set
Tubing							5000'		<u>or as req. by rule 1501</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-1785 Date January 31, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires January 31, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MW</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>876</u>
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T. R. [Signature]
 Administrator, Office of Oil and Gas