

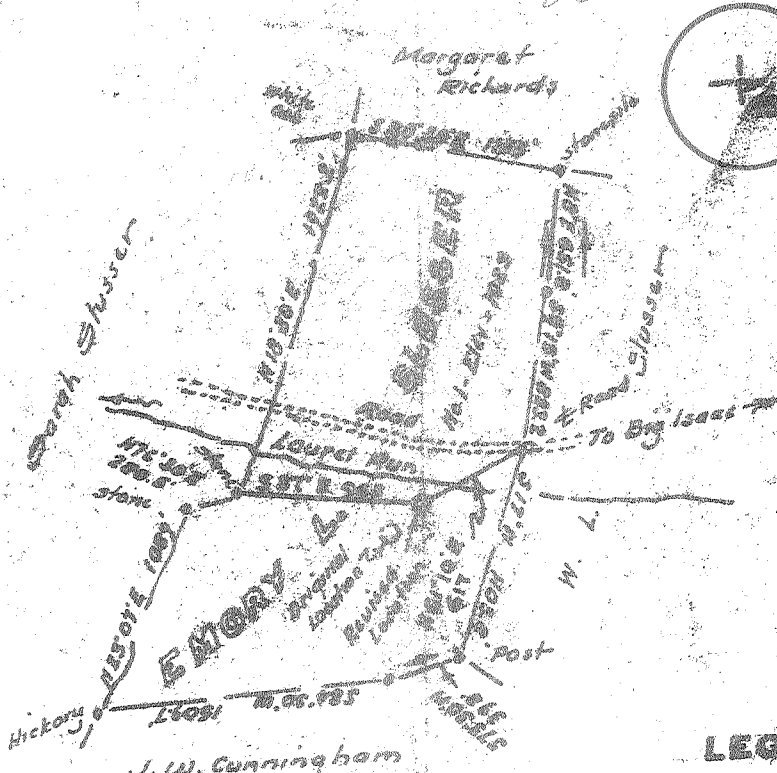
LATITUDE 39 12
(15) 9

OWNERSHIP

Coal, not operated, is thought to be owned by The Consolidation Coal Co., Morgantown, W. Va.
Surface: Clifford Jordan, R. 3, Salem, W. Va.

39 12 00
80 32 45

3.465
2.50W
2.59W



LEGEND

- Lines plotted from deed calls
- Surveyed lines
- - - Roads
- o Well Location

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev at Big Isaac = 985

- Fracture
- New Location
- Drill Deeper
- Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: W. H. H. [Signature]

Map No. _____ Squares: N S E W

Company PACE PIPELINE CO.
 Address Drawer B, Delmont, Penna. 15626
 Farm Emory L. Slusser, Clarendon, Iowa
 Tract _____ Acres 91.21 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1023
 Quadrangle Big Isaac 1 1/4, V. 15 NE
 County Doddridge District Grantbrier
 Surveyor W. H. H. [Signature]
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date August 26, 1979 Scale 1" = 1000'

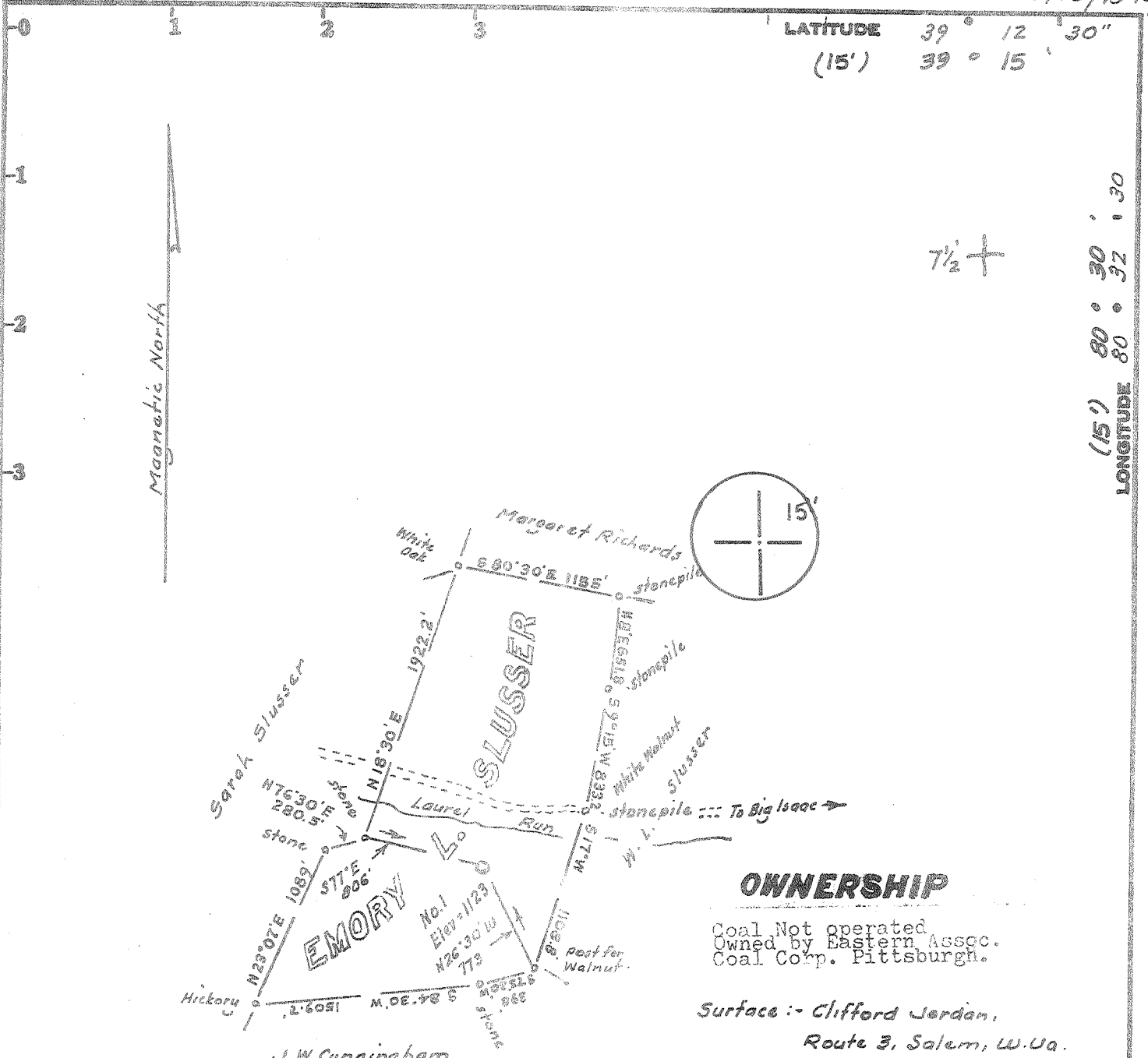
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 47-017-2336
WELL LOCATION MAP
 FILE NO. 47-017-2336-REV

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

SEP 18 1979

5500' alexander 6 4 BIG ISAACS 147

1/23/78



LATITUDE 39° 12' 30"
(15') 39° 15'

LONGITUDE 80° 30' 30"
(15') 80° 32' 30"

OWNERSHIP

Coal Not operated
Owned by Eastern Assoc.
Coal Corp. Pittsburgh.

Surface :- Clifford Jordan,
Route 3, Salem, W. Va.

LEGEND

- — Lines plotted from deeds
- Surveyed Lines
- ⋯ Roads
- Well Location

Minimum Error of Closure 1 in 200'

Source of Elevation USGS elev. at Big Isaac = 985'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: W. S. Boerjesson
Squares: N S E W

Company PACE PIPELINE CO.
 Address Drawer 3, Delmont, Penna. 19626
 Farm Emory L. Slusser CLIFFORD JORDAN
 Tract _____ Acres 91.21 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1123 NE
 Quadrangle Big Isaac 7 1/2, Vadis 15'
 County Doddridge District Greenbrier
 Engineer W. S. Boerjesson
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Oct. 23, 1978 Scale 1" = 1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. 47-017-2336

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{25,000}/_{62,500} latitude and longitude lines being represented by border lines as shown.
FEB 9 1979
— Denotes one inch spaces on border line of original tracing.

5500' Alexander



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

DEC - 3 1979

Oil and Gas Division

WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Cable Oil Gas

Recycling _____ Comb. _____

Water Flood _____ Storage _____

Disposal _____ (Kind) _____

Quadrangle Big Isaac 7 1/2

Permit No. 47-017-2336

Company <u>PAGE PIPE LINE COMPANY</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>DRAWER B, DELMONT, PA. 15626</u>	Size			
Farm <u>E. L. Slusser</u> Acres <u>91.21</u>	20-16			
Location (waters) <u>Laurel Run of Big Isaac Creek</u>	Cond.			
Well No. <u>1</u> Elev. <u>1123'</u>	13-10"			
District <u>Greenbrier</u> County <u>Doddridge</u>	9 5/8			
The surface of tract is owned in fee by <u>Clifford Jordan</u>	8 5/8	965	965	188 CF
Address <u>RFD #3, Salem, W. Va.</u>	7			
Mineral rights are owned by <u>E. L. Slusser Heirs</u>	5 1/2			
Address <u>Salem, W. Va.</u>	4 1/2		5388	210 CF
Drilling Commenced <u>October 10, 1979</u>	3			
Drilling Completed <u>October 16, 1979</u>	2			
Initial open flow _____ cu. ft. _____ bbls.	Liners Used			
Final production <u>888 M</u> cu. ft. per day _____ bbls.				
Well open <u>4</u> hrs. before test <u>2100</u> RP.				

Well treatment details:

Attach copy of cementing record.

5320-5327 Water frac, F78-10 gal, W-22 15 gal, J266 Gel. Agt, L-53 12 gal, L-41 Iron Agt. 100#, 80-100-10000, 20-40 Pro agt 30000.

5065-56-1 8 holes, 5086-90 7 holes 500 gal MSR acid, J266 gel agt 425#, W22 Non emul 20 gal F78 EZE Flo 10 gal, L53 & L41

4723-4736 500 gal X acid, J266 gel agt 425#, F78 EZE Flo 10 gal, W22 Emul Agt 20 gal, L-53 Clay agt 13 gal, L41 Iron agt 100#, 80-100 10000, 20-40 40000

Coal was encountered at 120-125, 457-460 Feet 60" & 36" Inches

Fresh water 3/4" @ 40 Feet _____ Salt Water _____ Feet _____

Producing Sand Alexander Depth 5515

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10		
Shale			10	20		
Sand	White		20	120		3/4" Stream Water @ 40'
Coal			120	125		
Sand			125	150		
Rock	Red		150	160		
Shale			160	190		
Sand			190	290		
Shale			290	360		
Rock	Red		360	370		
Shale			370	457		
Coal			457	460		
Sand & Shale			460	515		
Rock	Red		515	675		
Shale			675	755		
Rock	Red		755	840		
Sand			840	860		
Shale			860	890		
Sand			890	965		
Shale			965	1885		
Big Lime & Injun			1885	2005		
Sand & Shale			2005	2360		
Sand & Shale			2360	2830		
Shale			2830	3100		Gas 3093- 4/10-1" FM Water

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			3100	3130		
Shale			3130	3342		
Sand & Shale			3342	3779	Gas 3400-	2/10-1" FM Water
					Gas 3716-	2/10-1" FM Water
Shale			3379	4152	Gas 3997-	2/10-1" FM Water
Sand & Shale			4152	5000	Gas 4300-	2/10-1" FM Water
					Gas 4587-	2/10-1" FM Water
					Gas 4900-	2/10-1" FM Water
Benson Sand			5000	5025		
Shale	ALEX		5025	5515	Gas 5515-	6/10-1" FM Water
					TD 5515*	

Perforations:

13 Perf. 5330-5324

13 Perf. 5068-5093

14 Perf. 4339-4726

Date November 27, 19 79

APPROVED PAGE PIPE LINE COMPANY, Owner

By B. G. Snyder President
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 22 1979

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE Jan. 10, 1979

Surface Owner Clifford Jordan

Company Face Pipe Line Co.

Address Rt. 3, Salem, WV

Address Drawer B, Delmont, Pa. 15626

Mineral Owner Emory L. Slusser Heirs

Farm Emory L. Slusser Acres 91.21

Address Salem, WV

Location (waters) Laurel Run

Coal Owner Eastern Coal Co.

Well No. One (1) Elevation 1123

Address Pittsburgh, Pa.

District Greenbrier County Doddridge

Coal Operator None

Quadrangle Big Isaac 7 1/2

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-23-79.

INSPECTOR
TO BE NOTIFIED PAUL GARRETT

ADDRESS 321 BEECH ST., CLARKSBURG, WV

PHONE 622-3871

Robert G. Snyder
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated August 24 19 09 by Emory L. Slusser et al made to A. M. West and recorded on the _____ day of _____ 19____, in Doddridge County, Book 24 Page 397

_____ NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, PAGE PIPE LINE COMPANY
(Sign Name) B. G. Snyder - pres.
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

DRAWER B
Street
DELMONT
City or Town
PENNA. 15626
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOARD

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME James L. Swannay
 ADDRESS _____ ADDRESS Box 126, Huntington, W. Va.
 TELEPHONE _____ TELEPHONE 304-536-1432
 ESTIMATED DEPTH OF COMPLETED WELL: 5500 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Alamogordo
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8 <u>500</u>			<u>175</u>
7			
5 1/2			
4 1/2 <u>500</u>			<u>175</u>
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____ FEET
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Eastern Assoc. Coal Co. Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Eastern Assoc. Coal Co. Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

R R Swannay
 For Coal Company
Chief Engineer
 Official Title