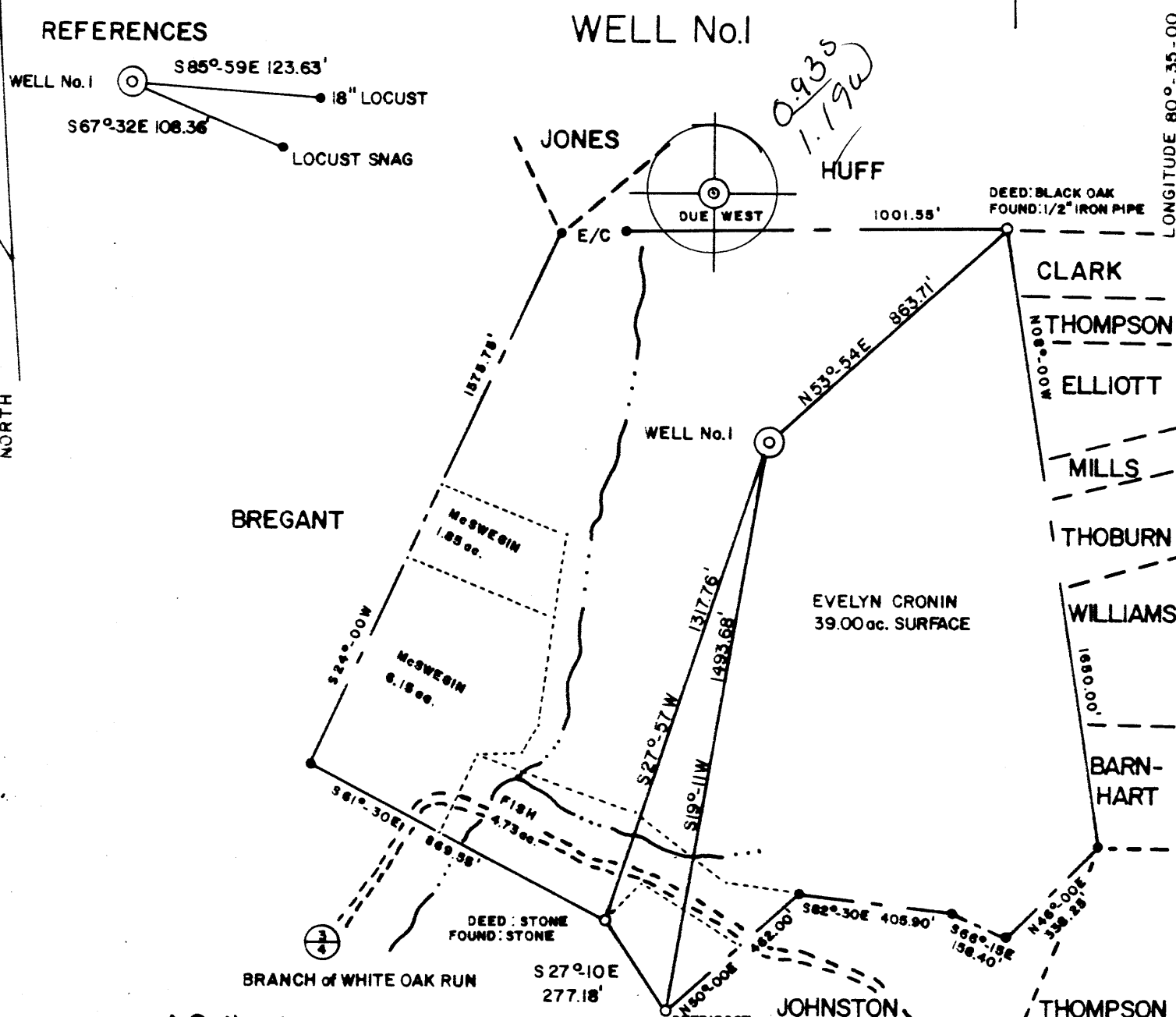


NOTE: ALL WELLS SHOWN WITHIN A 3000' RADIUS.

CRONIN 39.00 ac. LEASE

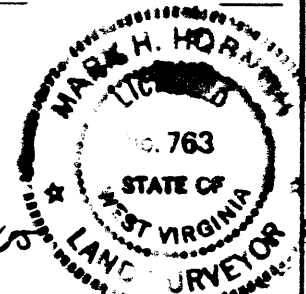


SURVEYED BY Mark H. Hornish UNDER SUPERVISION OF M.H. HORNISH

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE NOV. 26th, 1985
 OPERATORS WELL NO. WVHA029901
 API WELL NO.
47 - 029 - 0122
 STATE COUNTY PERMIT

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 ENERGY.

L.L.S. Mark H. Hornish 12/02/85
 763



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. _____
 SCALE 1" = 400'
 PROVEN SOURCE OF ELEVATION INTER. of ST. RT. 2 & WATERFORD PARK ENTRANCE. ELEV. = 760'



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 1112' WATERSHED BRANCH of WHITE OAK RUN Wellsville
 DISTRICT GRANT 3 COUNTY HANCOCK QUADRANGLE EAST LIVERPOOL SOUTH 330
 SURFACE OWNER EVELYN CRONIN et al ACREAGE 39.00 131'
 OIL & GAS ROYALTY OWNER EVELYN CRONIN et al LEASE ACREAGE 39.00 SC 8

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF _____
 OLD FORMATION _____ PERFORATE NEW FORMATION PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION LOCKPORT
 ESTIMATED DEPTH 7500'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT Mr. DONALD SUPCOE
 ADDRESS P.O. BOX "N", GLENVILLE, W. Va. 259 ADDRESS P.O. BOX "N", GLENVILLE, W. Va.

COUNTY NAME PERMIT 029 122

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: Cronin, Evelyn, et al

Operator Well No.: 1

LOCATION: Elevation: 1,112'

Quadrangle: East Liverpool South 7.5'

District: Grant
Latitude: 5870
Longitude: 6240

County: Hancock
Des.35 Min.00 Sec.
Des.35 Min.00 Sec.
Feet South of 40
Feet West of 80

Company: EASTERN AMERICAN ENERGY CORP.

P. O. BOX N
GLENNVILLE, WV

Agent: DONALD C. SUPCOE

Inspector: Robert Lowther
Permit Issued: 12/10/85

Well work Commenced: 12/13/85
Well work Completed: 12/19/85

Verbal Plugging

Permission granted on: _____

Rotary XX Cable _____ Ris

Total Depth (feet) 5,000

Fresh water depths (ft) 291'

Salt water depths (ft) 662' 1,190'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): None

Size	Used in & Drillings	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	329.70'	329.70'	C.T.C
8 5/8"	1,029.70'	1,029.70'	89
4 1/2"	4,631.5'	4,631.5'	503

RECEIVED
MAR 29 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

** Well not completed

Producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
 Final open flow _____ MCF/d Final open flow _____ Bbl/
 Time of open flow between initial and final tests _____ Hou
 Static rock Pressure _____ P_{sis} (surface pressure) after _____ Hou

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
 Final open flow _____ MCF/d Final open flow _____ Bbl/
 Time of open flow between initial and final tests _____ Hou
 Static rock Pressure _____ P_{sis} (surface pressure) after _____ Hou

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATION INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Eastern American Energy Corp

By: John M. Paletto

Date: 3/27/1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

** Well not completed

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	15	
Shale			15	25	
Sand & Shale			25	50	
Shale			50	100	
Sand			100	201	
Sand & Shale			201	640	3/4" stream water @ 291'
Sand			640	665	3/4" stream saltwater @ 662'
Sand & Shale			665	908	
Shale			908	946	Gas Check @ 911' - no show
Berea			946	1002	Gas Check @ 1006' - no show
Sand & Shale			1002	2197	Hole Damp @ 1190'
Shale			2197	2225	
Brown Shale			2225	2335	
Shale			2335	3370	
Dark Shale			3370	3390	
Shale			3390	3450	
Brown Shale			3450	3460	
Gray Shale			3460	3850	Gas Check @ 3797' - no show
Brown Shale			3850	3855	
Shale			3855	4090	
Brown Shale			4090	4510	
Marcellus			4510	4560	Gas Check @ 4519' - no show
Onondaga Lime			4560	4780	
Oriskany			4780	4840	
Lime			4840	5000	
				5000 T.D.	

1104

MAR 31 1989



1) Date: 12-6, 1985

2) Operator's Well No. Cronin #1

3) API Well No. 47 - 029 - 0122
 State County Permit

RECEIVED
 DEC - 9 1985

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1112' Watershed: Branch of Whiteoak Run
 District: Grant 259 County: Hancock Quadrange: East Liverpool South
- 6) WELL OPERATOR Eastern American Energy Corp. P.O. Box N CODE: 14980
 Address Glenville, WV 26351
- 7) DESIGNATED AGENT Donald C. Supcoe
 Address P.O. Box N, Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name Unknown
 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, Lockport 545
- 12) Estimated depth of completed well, 6600 feet
- 13) Approximate strata depths: Fresh, 125 feet; 4305 feet; 85 feet; unknown feet.
- 14) Approximate coal seam depths: unknown 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	10 3/4	F-25	32.7		X	335-200	200-335	CTS w/50/50	as per order #1
Fresh water									Cause #35
Coal									Sizes
Intermediate	8 5/8	CW	24		X	1100' or base of Berea		cement over	salt sands
Production	4 1/2	J-55	10.5	X		6600'	6600'	250 ft	Depths set
Tubing	1 1/2	H-40	2.7	X			6000'		
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-029-0122 Date December 10 1985

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 December 10, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>AB</u>	<u>MW</u>	<u>MW</u>	<u>1264</u>	<u>MW</u>	<u>MW</u>	

NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

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