

CODE

CARS

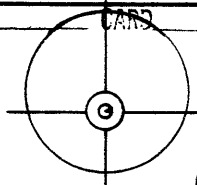
PLOT

10,480'

LATITUDE 40°-35'-00"

REFERENCES

1" = 100'



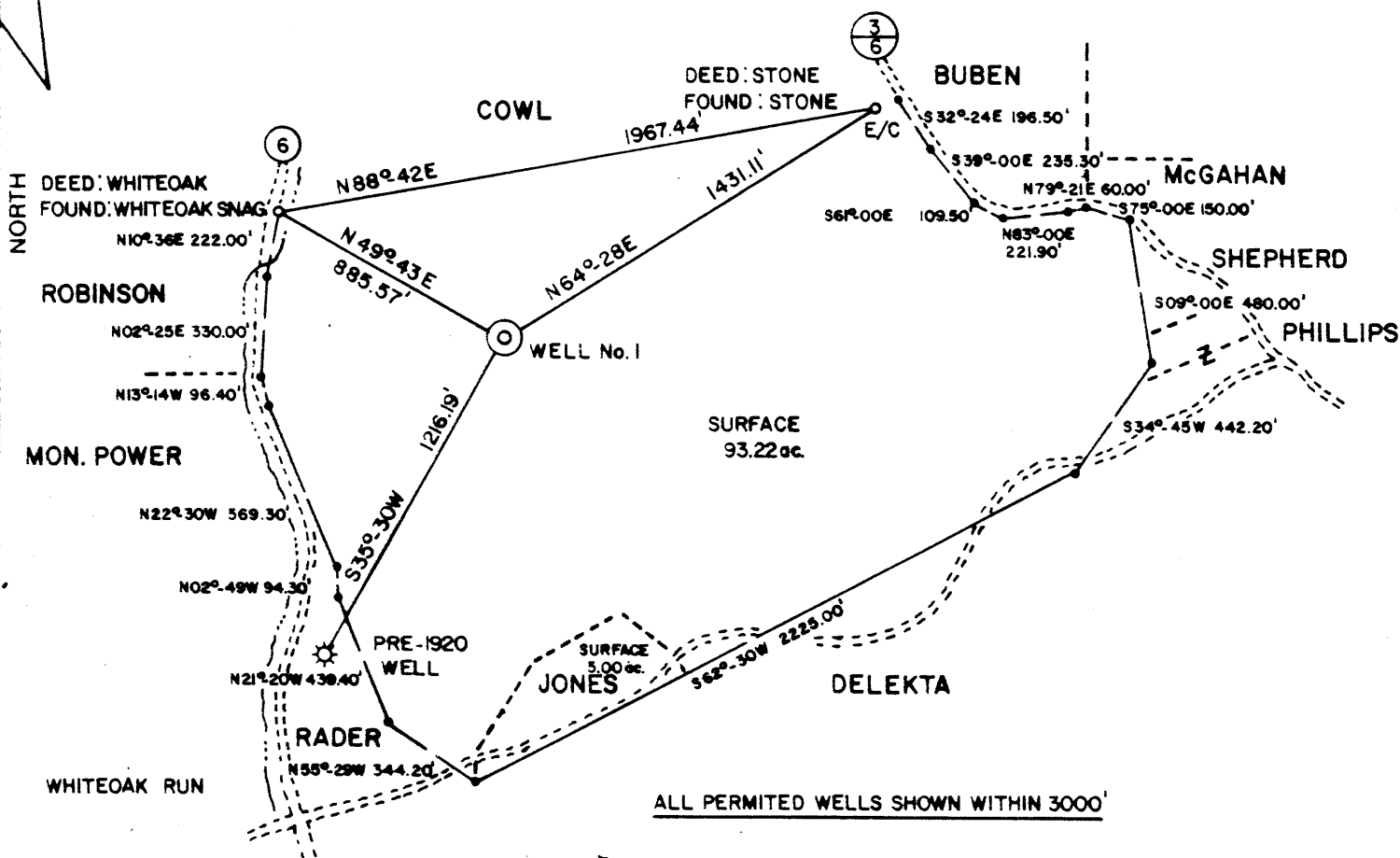
0.218
2.00W

OLDHAM 97.00 ac.

LEASE.

WELL No. 1

00-55-08 LONGITUDE



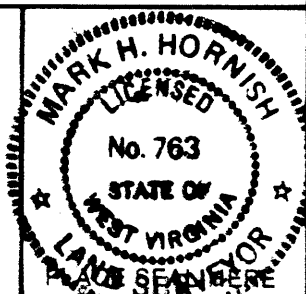
ALL PERMITTED WELLS SHOWN WITHIN 3000'

SURVEYED BY Brook L. Morris UNDER SUPERVISION OF M.H. HORNISH

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 600'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION INTER. OF ST. RT. 2 AND WATERFORD PARK ENTRANCE. ELEV.=760'

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.
(SIGNED) Mark H. Hornish 11/11/85
R.P.E. _____ L.L.S. 763



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE NOV. 14, 1985
OPERATOR'S WELL NO. WVHANIO4401
API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___

LOCATION: ELEVATION 1004' WATER SHED WHITEOAK RUN
DISTRICT GRANT 3 COUNTY HANCOCK
QUADRANGLE EAST LIVERPOOL SOUTH 7.5" 330 131 SC8 Wellsville

SURFACE OWNER RAY A. & FLORENCE L. OLDHAM ACREAGE 93.22
OIL & GAS ROYALTY OWNER R. A. & F. L. OLDHAM LEASE ACREAGE 97.00

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 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.

DEC 2 1985

DEEP (well) 330 (acre) (1000) (1000) (1000) (1000)

H.T. HALL 48673 FORM WW-6

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: Oldham

Operator Well No.: #1

LOCATION: Elevation: 1,004' Quadrangle: East Liverpool South 7.5'

District: Grant County: Hancock
Latitude: 1070 Feet South of 40 Des. 35 Min. 00 Sec.
Longitude 10,500 Feet West of 80 Des. 35 Min. 00 Sec.

Company: EASTERN AMERICAN ENERGY CORP.

P. O. BOX N
GLENNVILLE, WV

Agent: DONALD C. SUPCOE

Inspector: Robert Lowther

Permit Issued: 11/27/85

Well work Commenced: 12/22/85

Well work Completed: 01/17/86

Verbal Plugging

Permission granted on:

Rotary XX Cable --- Ris

Total Depth (feet) 4,829'

Fresh water depths (ft) 250

Salt water depths (ft) None

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

Coal Depths (ft): None

Size	Used in	Left	Cement
11 3/4"	156'	156'	C.T.S.
8 5/8"	970'	970'	189
4 1/2"	4,533.95'	4,533.95'	348

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MAR 29 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

4,478' - 3331

OPEN FLOW DATA

Producing formation commingled: Marcellus, Rinestreet zone depth (ft) ---
Gas: Initial open flow 121 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 35 MCF/d Final open flow 15 Bbl/d
Time of open flow between initial and final tests --- Hours
Static rock Pressure 1500 psig (surface pressure) after 24 Hours

Second producing formation --- Pay zone depth (ft) ---
Gas: Initial open flow --- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow --- MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests --- Hours
Static rock Pressure --- psig (surface pressure) after --- Hours

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: Eastern American Energy Corp
EASTERN AMERICAN ENERGY CORP

By: John M. Pallett
Date: 3/27/1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Stage 1 - 10 holes (4478'-4422') Breakdown 3500 psi, 40 tons CO2, 90,000 SCF of N2
 Stage 2 - 11 holes (4368'-4322') Breakdown 3300 psi, 30 tons CO2, 96,000 SCF of N2
 Stage 3 - 12 holes (4276'-4205') Breakdown 2800 psi, 40 tons CO2, 60,000 SCF of N2
 Stage 4 - 12 holes (4163'-4010') Breakdown 2500 psi, 40 tons CO2, 50,000 SCF of N2
 Stage 5 - 7 holes (3532'-3331') Breakdown 2400 psi, 30 tons CO2, 50,000 SCF of N2

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	5	
Shale & Sand			5	50	
Shale			50	110	
Sand & Shale			110	904	1 1/2" stream water @ 250'
Berea			904	956	
Sand & Shale			956	970	
Shale & Sand			970	2400	
Sand & Shale			2400	3859	
Shale			3859	4100	
Dark Shale			4100	4420	
Marcellus			4420	4480	
Onondaga			4480	4665	
Oriskany			4665	4766	Gas Check @ 4766 - No show
Limestone			4766	4810	
Brown Shale			4810	4829	Gas Check @ 4829 - 5/10 - 1/2" w/ water
				4829 T.D.	

395 1245

404 1300

~~813 2350?~~

830 3725

4829
956
2873-
expl-ftg.

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MAR 29 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

MAR 31 1989

6575



1) Date: 11-22, 1985
 2) Operator's Well No. Oldham #1
 3) API Well No. 47 - 029 - 0120
 State County Permit

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NOV 26 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, 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: 1004' Watershed: Whiteoak Run
 District: Grant 259 County: Hancock Quadrangle: East Liverpool South 7.5
- 6) WELL OPERATOR: Eastern American CODE: 14980 7) DESIGNATED AGENT: Donald C. Supcoe
 Address: Energy Corp., P.O. Box N, Glenville, WV Address: P.O. Box N, Glenville, WV
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name: Robert Lowther 9) DRILLING CONTRACTOR: Name: Unknown
 Address: General Delivery Middlebourne, WV 26149 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 Dolomite 545
 12) Estimated depth of completed well, 6600 feet
 13) Approximate strata depths: Fresh 295' 20' feet; salt, 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	25 <u>125'</u>	250' <u>125'</u>	<u>CTS 50/50</u>	<u>King per order #1</u>
Fresh water	8 5/8	CW	20	X		200'	200'	<u>CTS 50/50</u>	<u>as per order #1</u>
Coal									<u>Sizes Cause #35</u>
Intermediate						<u>1000'</u>	<u>1000'</u>	<u>Case thru Bena cement to cover salt sands</u>	
Production	4 1/2	J-55	10.5	X		6600	6600	250 ft ³	Depths set or as required
Tubing	1 1/2	H-40	2.7	X					by rule 15.01
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-029-0120 November 27 19 85
Date

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 November 27, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing <input checked="" type="checkbox"/>	Fee <input checked="" type="checkbox"/>	WPCP <input checked="" type="checkbox"/>	S&E <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
	<u>MM</u>	<u>MM</u>	<u>MM</u>	<u>115M</u>	<u>MM</u>	<u>MM</u>	

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

[Signature]
Director, Division of Oil and Gas

File

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