

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM BESIDE R.R.
EL 3041

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) _____
 R.P.E. 5580 L.L.S. _____

PLACE SEAL HERE

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



DATE SEPTEMBER 25, 1981
 OPERATOR'S WELL NO. PHARES NO.1
 API WELL NO. _____
47 - 083 - 0530
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3172 WATER SHED WEST FORK of GLADY FORK
 DISTRICT DRY FORK COUNTY RANDOLPH
 QUADRANGLE GLADY 7.5 MINUTE Norton 15' SW
 SURFACE OWNER EMERSON PHARES LUMBER CO., INC. ACREAGE 126.35
 OIL & GAS ROYALTY OWNER EMERSON PHARES LUMBER CO., INC. LEASE ACREAGE 140
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 6700' H-1 unnamed 10)
 WELL OPERATOR MERT DEVELOPMENT, INC. DESIGNATED AGENT JERRY POLING
 ADDRESS RT. 8, BOX 336 AA ADDRESS RT. 8, BOX 336 AA
FAIRMONT, WV 26554 FAIRMONT, WV 26554



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

APR 17 1981
Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Glady 7.5'

Permit No. 47-083-0530

Company <u>MERT Development, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Route 8 Box 336-AA Fairmont, West Virginia</u>				
Farm <u>Phares Farm</u> Acres _____	Size			
Location (waters) <u>Glady Fork</u>	20-16			
Well No. <u>#1</u> Elev. <u>3172</u>	Cond.			
District <u>Dry Fork</u> County <u>Randolph</u>	13-10"	64	64	cts
The surface of tract is owned in fee by _____	9 5/8		937	cts
Address <u>Phares Lumber Company</u>	8 5/8			
Address <u>Elkins, West Virginia</u>	7			
Mineral rights are owned by <u>Phares Lumber Company</u>	5 1/2			
Address <u>Elkins, West Virginia</u>	4 1/2		8029'	750'
Drilling Commenced <u>11-1-81</u>	3			
Drilling Completed <u>11-9-81</u>	2			
Initial open flow <u>0</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>984</u> M cu. ft. per day _____ bbls.	*			
Well open _____ hrs. before test <u>3450</u> RP.				

Well treatment details: Attach copy of cementing record.
 Perforated Chert (7956-7978) 18 Holes Acid Gel Frac w/N2 Assist.-170,000 SCF N₂ 400 lb.
 Citric Acid, 31,000 lbs 20/40 Sand, 1250 lbs. WG-12, 100 gal. HC₂ 1000 lbs. KCL, 4500 gal.
 HCL Acid. Avg. Rate 25.0 Avg. PSI 2500 ISIP 1500 HHP² 1531
 Perforated Oriskany (Open Hole) 20 Holes Frac with 6,000gal. 28% HCL

Coal was encountered at Not encountered Feet _____ Inches _____
 Fresh water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Chert Depth 7956-7978

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Lime			0	80		
Slate & Shale			80	1550		
Shale Sand			1550	1900		
Shale			1900	2900		
Sand			2900	2925		
Shale & Sand			2925	3800		
Sand			3800	3930		
Shale			3930	7525		
Lime (Tully)			7525	7918		
Chert <u>Hendersville</u>			7918	8078		
Oriskany			8078	8252		
Lime <u>Helderberg</u>			8252	8356		
TD			8356			Gas ✓ at TD- no show

8078
3172
4906

(over)


* Indicates Electric Log tops in the remarks section.

APR 28 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date June 21 19 82

APPROVED MERT Development, Inc. Owner

By  (Title) Geologist

Date: October 2, 1981
Farm
Name: Phares Lumber #1
API No. 47 - 083-0530
State County Per

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production ___ / Underground Storage ___ / Deep X / Shallow ___ /
Elevation: 3172 Watershed: Gladly Fork
District: Dry Fork County: Randolph Quadrangle: Gladly 7.5'

WELL OPERATOR MERT Development, Inc. DESIGNATED AGENT Jerry Poling
Address Route 8 - Box 336-AA Address Route 8 - Box 336-AA
Fairmont, West Virginia 26554 Fairmont, West Virginia 26554

OIL & GAS
PROPERTY OWNER Phares Lumber Company
Address Elkins
West Virginia
Acreage 140

COAL OPERATOR
Address

SURFACE OWNER Phares Lumber Company
Address Elkins
West Virginia
Acreage 126

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Phares Lumber Company
Address Elkins
West Virginia
Name
Address

FIELD SALE (IF MADE) TO:
Name Columbia Gas Transmission Corp.
Address Charleston
West Virginia

COAL LESSEE WITH DECLARATION ON RECORD
Name
Address
RECEIVED
OCT 5 - 1981
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED:
Name Robert Stewart

The undersigned Well Operator is entitled to operate for Oil or Gas Purposes at the above location under a Deed ___ / Lease ___ / Other Contract X / Dated 9/30, 1981, to the

undersigned Well Operator from Harold Ogden
(If said Deed, Lease or Other Contract has been recorded:
recorded on 9/30, 1981, in the Office of the Clerk of the County Commission of Randolph
County, West Virginia, in Assignment Book 6, at Page 484. A Permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or Stimulate ___
Plug Off Old Formation ___ / Perforate New Formation ___ /
Other Physical Change in Well (Specify) _____

--Planned as shown on the work order on the reverse side hereof.

The above named Coal Operator, Coal Owner(s), and Coal Lessee are hereby notified that any objection they wish to make or are required to make by Code 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by Department of Mines. Copies of this Permit Application and the enclosed Plat and Reclamation Plan have been mailed by Registered Mail or delivered by hand to the above named Coal Operator, Coal Owner(s), and Coal Lessees on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOLOGICAL LOGS DIRECTLY TO:
OFFICE OF OIL AND GAS
615 Washington Street, East
Charleston, West Virginia 25311

MERT Development, Inc.:
Well Operator
By: *J.P.* Geologist

BLANKET BOND

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRIILLING CONTRACTOR (IF KNOWN) Petroleum Eastern Drilling
Address Vienna
West Virginia
GEOLOGICAL TARGET FORMATION, Helderburg

- Estimated Depth of Completed Well 6250 feet Rotary X / Cable Tools _____
Approximate Water Strata Depths: Fresh, _____ feet; Salt, _____ feet.
Approximate Coal Seam Depths: _____ Is Coal Being Mined In The Area? Yes _____ / No _____

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic Feet)	PACKETS	
	Size	Grade	Weight Per Ft.	New	Used			For Drilling
Conductor	11 3/4			X		60	60	Kinds.
Fresh Water	9 5/8			X		900	900	CTS
Intermediate	7"			X		5800	5800	Sizes
Production	4 1/1	N80	11.6	X			6200	1600
Tubing	2 3/8			X			5770	Depths Set
Liners								Perforations:
								Top .. Botto

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2. (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a Permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 6-8-82

J. H. Huggins
Deputy Director - Oil & Gas Division

Survey

The following waiver must be completed by the Coal Operator and by any Coal Owner or Coal Lessee who has recorded a Declaration under Code § 22-4-20, if the Permit is to be issued within fifteen (15) days of receipt thereof.

W A I V E R

The undersigned Coal Operator _____ / Owner _____ / Lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the Well Operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____ 19 _____
By _____