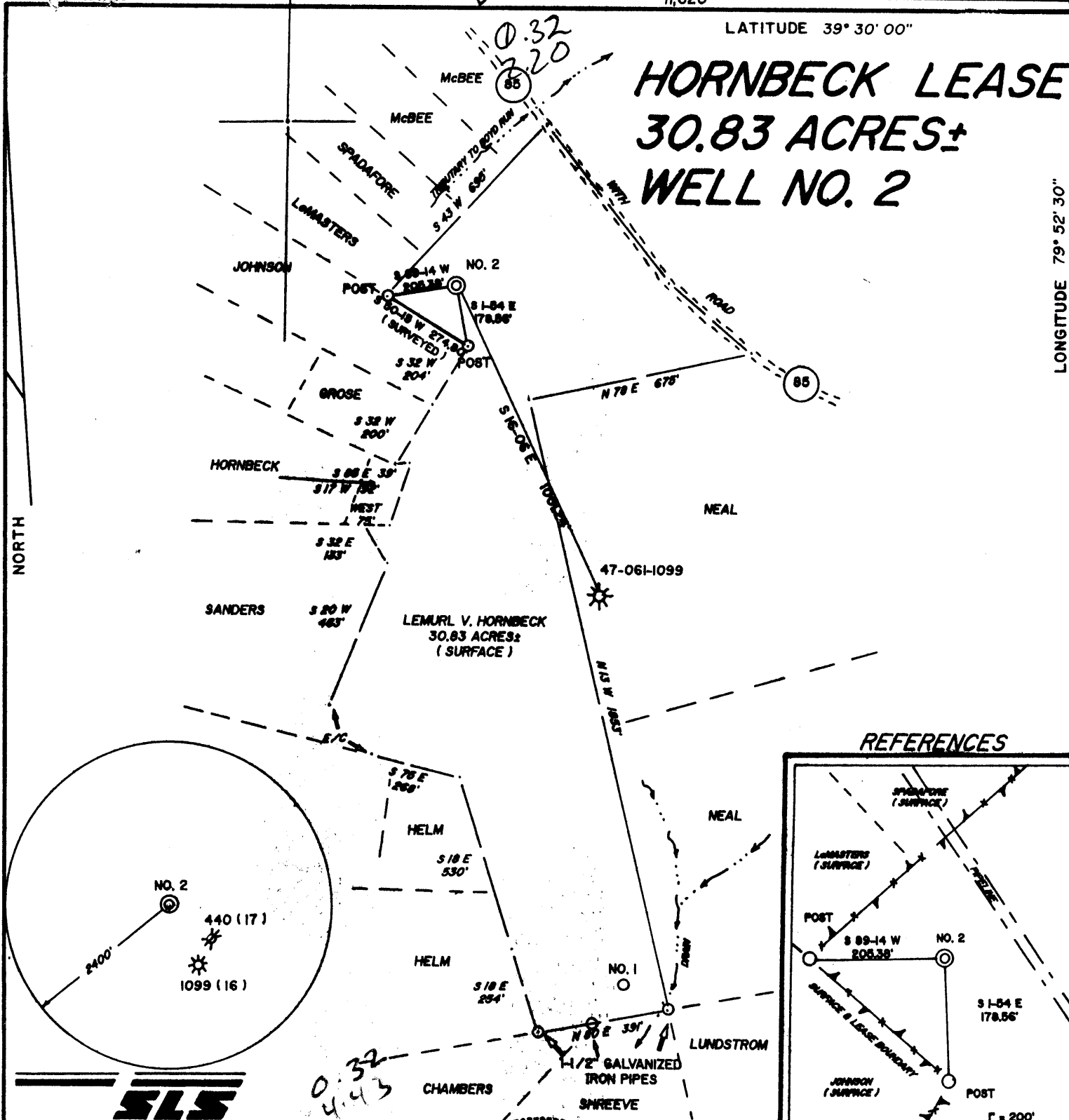


# HORNBECK LEASE 30.83 ACRES± WELL NO. 2



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. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE APRIL 21, 19 93  
 OPERATORS WELL NO. HORNBECK NO. 2  
 API WELL NO. 47-061-1107  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3001 (41-43)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 1988' SCALE 1" = 400'

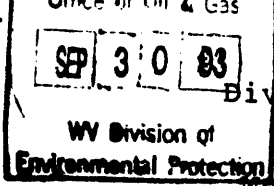
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1995' WATERSHED TRIBUTARY TO BOYD RUN  
 DISTRICT CLINTON 4 COUNTY MONONGALIA QUADRANGLE GLADESVILLE 7.5'  
 SURFACE OWNER LEMURL V. HORNBECK ACREAGE 30.83  
 ROYALTY OWNER LEMURL V. HORNBECK LEASE ACREAGE 30.83  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_ TARGET FORMATION DEVONIAN 4th SAND  
 ESTIMATED DEPTH 2800'

WELL OPERATOR MID-PENN ENERGY CORPORATION DESIGNATED AGENT J. THOMAS LANE Esq.  
 ADDRESS 434 BEAVER ST. SEWICLEY, PA. 15143 ADDRESS BOWLES, RICE, McDAVID, GRAFF, & LOVE  
6-6 South Burns Chapel (313) 16th Floor, Commerce Sq, Charleston, WV 25301

S75

COUNTY NAME PERMIT



State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: HORNBECK, LEMUEL V. Operator Well No.: HORNBECK #2

LOCATION: Elevation: 1995' Quadrangle: Gladesville 7.5'

District: CLINTON County: MONONGALIA
Latitude: 11,620 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 1,720 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: MID-PENN ENERGY CORPORATI
434 BEAVER STREET
SEWICKLEY, PA 15143-0000

Agent:

Inspector: RANDAL MICK
Permit Issued: 04/22/93
Well work Commenced: 04/26/93
Well work Completed: 04/29/93
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2506'
Fresh water depths (ft) None

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 152', 400'

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 11-3/4" (42' used, 42' left, sanded in), 8-5/8" (733' used, 733' left, 175 sx), 4-1/2" (2201.38' used, 2201.38' left, 190 sx).

OPEN FLOW DATA

Producing formation Bayard, Fifth sand \*\* see
Upper Devonian 4th sand & Pay zone depth (ft) below
Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/d
Final open flow 1361 MCF/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests -0- Hours
Static rock Pressure 400 psig (surface pressure) after 72 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.

\*\*2085-2091' Bayard
1888-1898' 4th sand
1734-1744' 5th sand

For: MID-PENN ENERGY CORPORATION
By: Shannon S. Johnson, President
Date: June 30, 1993

Reviewed TMG
Recorded

Perforated Bayard sand w/ 15 shots using hollow steel carriers (2085-2091'). Fraced w/ 10# linear gel (14,830 gallons) and 140 sx 20/40 Ottawa sand. Maximum concentration 2 PPG. ISIP 000 psig. Average injection rate 18 BPM. Average treating pressure 1800 psig. HHP 794.

Perforated 5th sand w/ 22 shots using hollow steel carriers (1888-1898'). Fraced 5th w/ 15,270 gallons 10# gel and 140 sx 20/40 Ottawa sand. Average injection rate 18 BPM. Average pressure 2000 psig. Maximum sand concentration 2 PPG. ISIP 1500 psig.

Perforated 4th sand w/ 34 shots using hollow steel carriers as follows: 1720-1730' (12 holes) and 1734-1744' (22 holes). Fraced formation w/ 29,410 gallons 30# premix gel and 434 sx 20/40 Ottawa sand. ISIP 1100 psig. Average treating pressure 1825 psig. Average injection rate 26 BPM. Maximum sand concentration 3 PPG. HHP 1163.

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Comments</u>
Dirt & gravel	0	15	
Coal, black shale	15	18	
Shale	18	32	
Sandstone	32	48	
Sandy shale	48	138	
Shale	138	142	
Dark shale & coal	142	147	
Sand	147	160	
Sandy shale	160	195	
Shale	195	214	
Sand	214	220	
Shale, dark & coal	220	224	
Sand	224	240	
Shale, sandy	240	266	
Shale	266	275	
Dark shale, coal	275	284	
Shale, sandy	284	313	
Shale	313	322	
Sandstone	322	363	
Shale	363	388	
Sandstone	388	451	
Shale	451	600	
Lime	600	850	
Dark shale	975	982	
Lime	982	1015	
Sandstone	1015	1019	
Sandy shale	1019	1028	
Shale	1028	1142	
Sandstone	1142	1159	
Shale	1159	1180	
Sandstone	1180	1198	
Shale	1198	1266	
Sandstone	1266	1366	
Shale	1366	1466	
Sandstone & shale	1466	1648	Sg @ 1469'
Shale & siltstone	1648	1689	
Sandstone (4th sand)	1689	1757	Sg
Shale & siltstone	1757	1885	
Sandstone 5th	1885	1904	
Shale	1904	2076	
Sandstone Bayard	2076	2099	
Shale	2099	2506 TR	

DF 424  
DF H23

APR 22 1993  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 Permitting  
 Division of Oil & Gas **WELL WORK PERMIT APPLICATION**

17112

- 1) Well Operator: Mid-Penn Energy Corporation 32255 @ 368
- 2) Operator's Well Number: Hornbeck #2 3) Elevation: 1995' 2020'
- 4) Well type: (a) Oil \_\_\_ / or Gas XX /  
 (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
 Deep \_\_\_ / Shallow XX /  
 421
- 5) Proposed Target Formation(s): Upper Devonian 4th sand
- 6) Proposed Total Depth: 3,000 feet
- 7) Approximate fresh water strata depths: None
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 150', 186', 206'
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No XX /
- 11) Proposed Well Work: Drill and complete Upper Devonian 4th sand
- 12)

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"	LS	36#	40'	40'	sanded in
Fresh Water						
Coal	8-5/8"	ERW	20#	700'	700'	cement to surface
Intermediate						
Production	4-1/2"	J	10.5#	2500'	2500'	cement to 1400'
Tubing						
Liners						

**PACKERS** : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

3587 /  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Consolidated  Agent  
 (Type)

RECEIVED

APR 20 1993

- 1) Date: April 20, 1993
- 2) Operator's well number  
Hornbeck #2
- 3) API Well No: 47 - 061 - 1107  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Lemuel V. Hornbeck  
Address Rt. 9, Box 141B  
Morgantown, WV 26505
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name Lemuel V. Hornbeck  
Address Rt. 9, Box 141B  
Morgantown, WV 26505
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Randal Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304)- 986-3324

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Notarial Seal  
Elen J. Lowen, Notary Public  
Sewickley Boro, Allegheny County  
My Commission Expires April 24, 1995  
Member, Pennsylvania Association of Notaries

Well Operator Mid-Penn Energy Corporation  
By: Shannon S. Johnson, Shannon S. Johnson  
Its: President  
Address 434 Beaver Street  
Sewickley, PA 15143  
Telephone (412) 741-7015

Subscribed and sworn before me this 20th day of April, 1993

Elen J. Lowen Notary Public

My commission expires April 24, 1995