

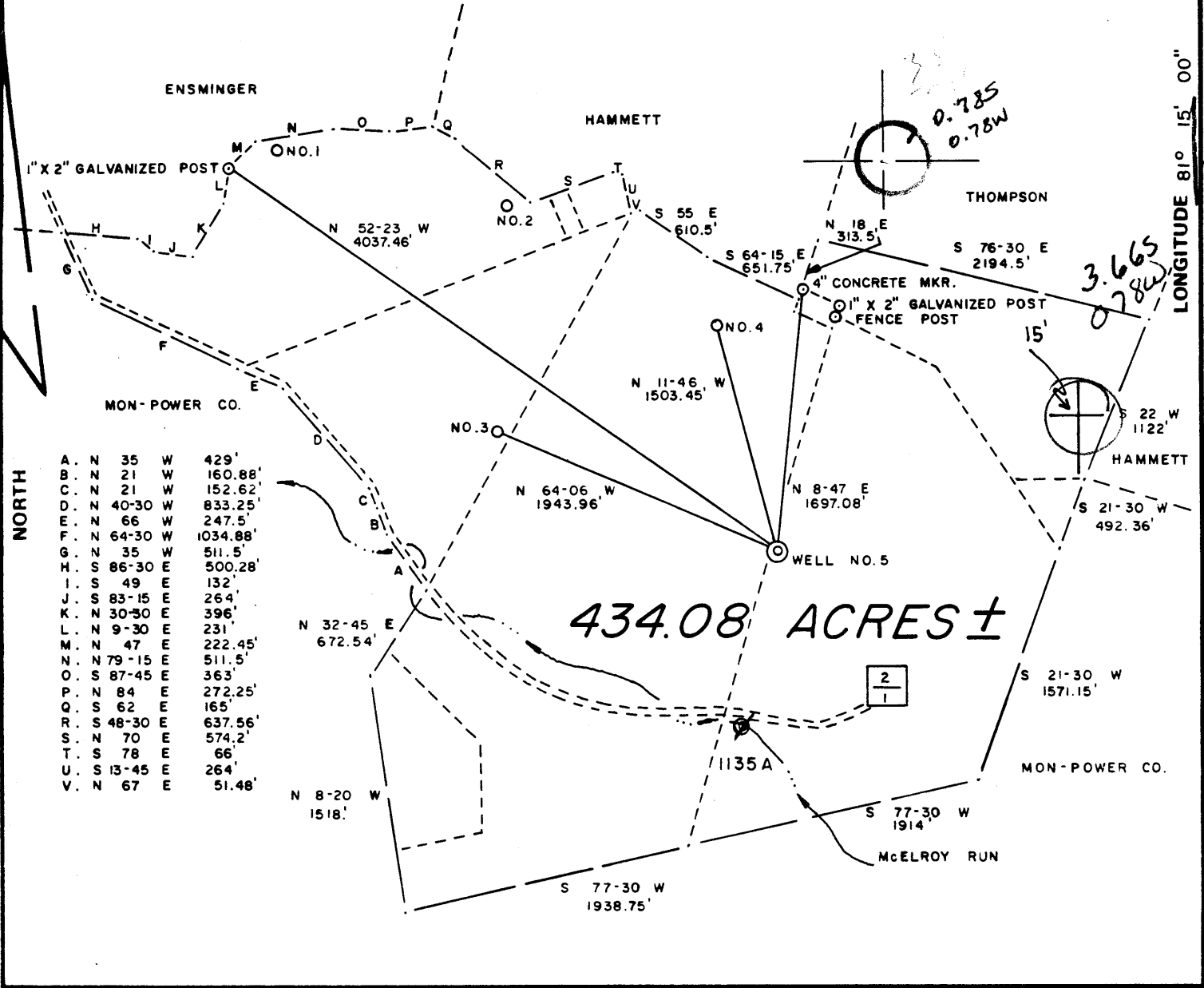
3-8-83

Plot Card CSD

4110'

LATITUDE 39° 22' 30"  
39° 25' 00"

# MON-POWER LEASE WELL NO.5



NORTH

A.	N	35	W	429'
B.	N	21	W	160.88'
C.	N	21	W	152.62'
D.	N	40-30	W	833.25'
E.	N	66	W	247.5'
F.	N	64-30	W	1034.88'
G.	N	35	W	511.5'
H.	S	86-30	E	500.28'
I.	S	49	E	132'
J.	S	83-15	E	264'
K.	N	30-30	E	396'
L.	N	9-30	E	231'
M.	N	47	E	222.45'
N.	N	79-15	E	511.5'
O.	S	87-45	E	363'
P.	N	84	E	272.25'
Q.	S	62	E	165'
R.	S	48-30	E	637.56'
S.	N	70	E	574.2'
T.	S	78	E	66'
U.	S	13-45	E	264'
V.	N	67	E	51.48'

## 434.08 ACRES ±

FILE NO. 8-1  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 / 200  
 PROVEN SOURCE OF ELEVATION T.B.M. MON-POWER CO. ELEV. 826.61'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

PLACE SEAL HERE

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



DATE JULY 21, 1982  
 OPERATOR'S WELL NO. 5  
 API WELL NO. 47-073-1604  
 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 \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 912' WATER SHED McELROY RUN  
 DISTRICT GRANT COUNTY PLEASANTS  
 QUADRANGLE WILLOW ISLAND 7.5' Marion 15' EC  
 SURFACE OWNER MONONGAHELA POWER COMPANY ACREAGE 434.08  
 OIL & GAS ROYALTY OWNER MONONGAHELA POWER COMPANY LEASE ACREAGE 1158.22  
 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 MARCELLUS ESTIMATED DEPTH 4975  
 WELL OPERATOR JENKINS ENERGY CORP. DESIGNATED AGENT CARLTON DAVIS  
 ADDRESS P.O. BOX 980 ADDRESS P.O. BOX 980  
BRIDGEPORT, W.V. 26330 BRIDGEPORT, W.V. 26330

MAR 14 1983

IV-35  
(Rev 8-81)



RECEIVED  
DEC 13 1983

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date March 28, 1983  
Operator's  
Well No. Monongahela Power #5  
Farm Monongahela Power  
API No. 47 - 073 - 1604

RECEIVED  
JAN 30 1984

OIL & GAS DIVISION

WELL TYPE: Oil X / Gas X / Liquid Injection     / Waste Disposal     DEPT. OF MINES  
(If "Gas," Production     / Underground Storage     / Deep     / Shallow X /)

LOCATION: Elevation: 912 Watershed McElroy Run of Ohio River  
District: Grant County Pleasants Quadrangle Willow Island 7.5

COMPANY Jenkins Energy Corp.  
ADDRESS P.O. Box 980, Bridgeport, W.va.  
DESIGNATED AGENT Carlton Davis  
ADDRESS P.O. Box 980, Bridgeport, W.va.  
SURFACE OWNER Monongahela Power Co.  
ADDRESS St. Marys, W.va.  
MINERAL RIGHTS OWNER Monongahela Power Co.  
ADDRESS St. Marys, W.va.  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, W.va.  
PERMIT ISSUED March 11, 1983  
DRILLING COMMENCED March 13, 1983  
DRILLING COMPLETED March 17, 1983

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	75	75	to surface
9 5/8			
8 5/8	1129	1129	to surface
7			
5 1/2			
4 1/2			
3			
2	2030	2030	
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON    

GEOLOGICAL TARGET FORMATION Hamilton Shale Depth 4950 feet  
Depth of completed well 2035 feet Rotary X / Cable Tools      
Water strata depth: Fresh 80 feet; Salt 1075 feet  
Coal seam depths:     Is coal being mined in the area?    

OPEN FLOW DATA

Producing formation Gordon Sandstone Pay zone depth 2038 feet  
Gas: Initial open flow 500 Mcf/d Oil: Initial open flow 20 Bbl/d  
Final open flow 7 Mcf/d natural well Final open flow 2 Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in  
(If applicable due to multiple completion--)  
Second producing formation     Pay zone depth     feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow     Mcf/d Oil: Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure     psig (surface measurement) after     hours shut in

FEB 14 1984

(Continue on reverse side)

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

Natural Well.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil, Surface Clays, Shale			0	1075	
Sand and Lime			1075	1185	
Big Lime			1185	1335	Oil & Gas
Big Injun Sand			1720	1730	Oil & Gas
Berea			2008	2038	Oil & Gas
Gordon Sand					

2038  
1730  
-----  
308

(Attach separate sheets as necessary)

Jenkins Energy Corp.

Well Operator

By:

Date:

*John Mitchell*  
11-10-83

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: March 7, 1983  
 2) Operator's Well No. Mon. Power 5  
 3) API Well No. 47 073 1604  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

DRILLING CONTRACTOR: \_\_\_\_\_

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_
- 6) WELL OPERATOR \_\_\_\_\_ Address \_\_\_\_\_  
 11) DESIGNATED AGENT \_\_\_\_\_ Address \_\_\_\_\_
- 7) OIL & GAS ROYALTY OWNER \_\_\_\_\_ Address \_\_\_\_\_  
 12) COAL OPERATOR \_\_\_\_\_ Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 8) SURFACE OWNER \_\_\_\_\_ Address \_\_\_\_\_  
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO: \_\_\_\_\_ Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_
- 17) Estimated depth of completed well, \_\_\_\_\_ feet  
 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

20) 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									Kinds
Fresh water									
Coal									Sizes
Intermediate									
Production									Depths set
Tubing									
Liners									Perforations:
									Top Bottom

- 21) EXTRACTION RIGHTS  
 Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No   
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_

Signed: \_\_\_\_\_  
 Its: \_\_\_\_\_

OFFICE USE ONLY  
 DRILLING PERMIT

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. 10) 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.)

Permit expires \_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

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