

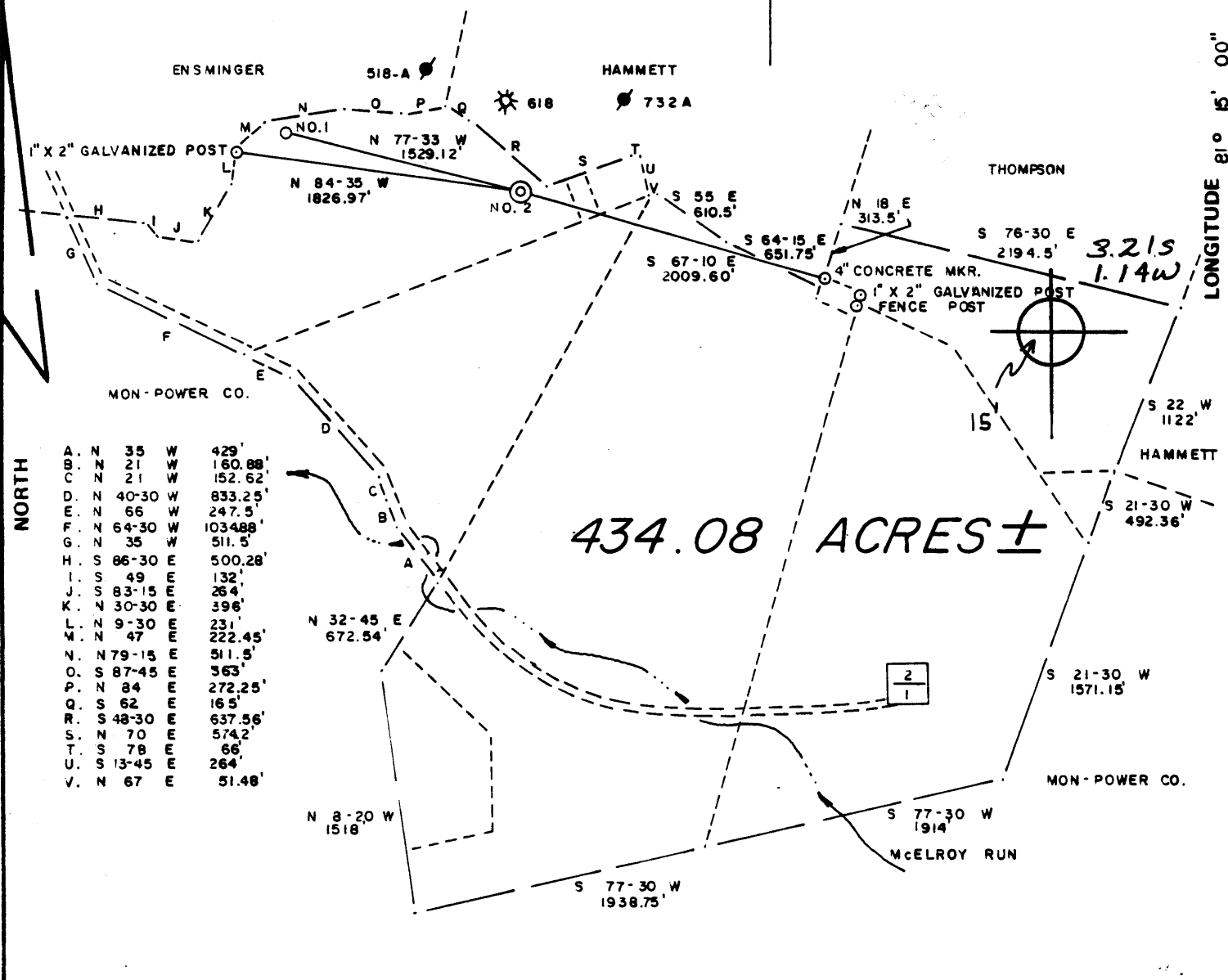
2-7-83

5880

Plot Card CSD

LATITUDE 39° 22' 30"
39° 25' 00"

MON-POWER LEASE WELL NO. 2



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



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



DATE JULY 21, 1982
 OPERATOR'S WELL NO. 2
 API WELL NO. _____
47 - 073 - 1596
 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 1001' WATER SHED McELROY RUN
 DISTRICT GRANT COUNTY PLEASANTS
 QUADRANGLE WILLOW ISLAND T.5 Marietta 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 DEVONIAN SHALE ESTIMATED DEPTH 520'
 WELL OPERATOR JENKINS ENERGY CORP. DESIGNATED AGENT CARL DAVIS
 ADDRESS P.O. BOX 980 BRIDGEPORT, W.V. 26330 ADDRESS P.O. BOX 980 BRIDGEPORT, W.V. 26330

FEB 14 1983

RECEIVED

MAY 29 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date March 28, 1983 Operator's Well No. Two (2) Farm Monongahela Power API No. 47 - 073 - 1596

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1001 Watershed McElroy Run of Ohio Run 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 MINERAL RIGHTS OWNER Monongahela Power Co. ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, W.va. PERMIT ISSUED February 4, 1983 DRILLING COMMENCED February 25, 1983 DRILLING COMPLETED March 3, 1983 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 11 3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Hamilton Shale Depth 4769 feet Depth of completed well 4769 feet Rotary X / Cable Tools Water strata depth: Fresh 80 feet; Salt 600 feet Coal seam depths: N/A Is coal being mined in the area? N/A

OPEN FLOW DATA Producing formation Hamilton Shale Pay zone depth 4336 } Turn Anzola 4769 feet Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d Final open flow 300 Mcf/d Final open flow -- Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 825 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

batch date: 6/11/84

(Continue on reverse side)

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

3 stages with 40 holes per stage with 750,000 scf N₂ per stage.

First Stage - Perf 40 holes, 4220-4588, stimulated with 750,000 N₂. *Java, Angola*
 Second Stage - Perf 40 holes, 3596-4037, stimulated with 750,000 N₂.
 Third Stage - Perf 40 holes, 3168-3336, stimulated with 750,000 N₂. } *Huron*

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all and salt water, coal, oil and
Top Soil, surface clay, sand, shale and lime streaks			0	1186	
Big Lime			1186	1282	
Big Injun Sand			1282	1380	Oil & Gas
Eerea Sand			1760	1780	Oil & Gas
Cordon Sand			2157	2198	Oil & Gas
Brallier Shale			2698	3815	Oil & Gas
Huron Shale			3815	4140	Gas
Hamilton Shale			4140	4769	Gas <i>Rhinestrot e 70</i>

(Attach separate sheets as necessary)

Jenkins Energy Corp.

Well Operator

By: *John Mitchell*

Date: *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: **February 4**, 19 **81**
 2) Operator's Well No. **2**
 3) API Well No. **47** State **072** 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 _____ 11) DESIGNATED AGENT _____
 Address _____ Address _____
- 7) OIL & GAS ROYALTY OWNER _____ 12) COAL OPERATOR _____
 Address _____ Address _____
 Acreage _____
- 8) SURFACE OWNER _____ 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address _____ Name _____
 Address _____ Name _____
 Address _____ Name _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name _____ Address _____
 Name _____ 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: _____ Signed: _____
 My Commission Expires _____ 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.