

3/15/88

LATITUDE 39° 20' 00"

1250

NORTH

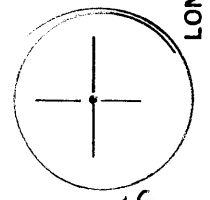
LONGITUDE 80° 52' 30"

6.675

Wm. B. BECKETT, JR.
EST., et. al.

Wm. McCULLOUGH

1.25
2.48



1.255
2.44

SOURWOOD

ALFRED FERREBEE
59.25 Ac.

19 Ac. 30 POLES

L.I. GARNER HEIRS
52 Ac.

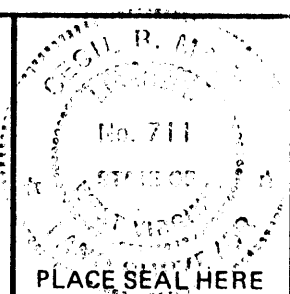
RUBY WILSON
18 Ac.

NELLIE McCULLOUGH
9.93 Ac. 1520'

REFERENCES
556°10'W 136' TO 8" POPLAR
530°45'W 194' TO WELL 0258

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION WELL API #1216
ELEV. 1084'

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) Cecil R. Mair
R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE FEBRUARY 27, 1988
OPERATOR'S WELL NO. L.I. GARNER #1
API WELL NO. 47-095-1230
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1144' WATER SHED MUDLICK RUN
DISTRICT CENTERVILLE COUNTY TYLER
QUADRANGLE PENNSBORO 7.5' 539 133 8 West Union SC
SURFACE OWNER L.I. GARNER HEIRS ACREAGE 19 Ac 30 POLES
OIL & GAS ROYALTY OWNER L.I. GARNER HEIRS, et. al. LEASE ACREAGE 19 Ac. 30 POLES
LEASE NO. _____
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5990
WELL OPERATOR APPALACHIAN ENERGY DEV. INC. DESIGNATED AGENT GEORGE WILLIAMS
ADDRESS RT. 2, BOX 499 ADDRESS RT. 2, BOX 499
GRAFTON, W.V. 26354 GRAFTON, W.V. 26354

MAR 18 1988

6-6 Stanley (90)

FORM IV-6 (8-78)

WR-35

RECEIVED
AUG 03 1988

DIVISION OF OIL & GAS
DEPT. OF ENERGY



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 7/29/88
Operator's
Well No. 1
Farm L. Garner
API No. 47 - 095 - 1230

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

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

LOCATION: Elevation: 11441084 Watershed Mudlick Run
District: Centerville County Tyler Quadrangle Pennsboro 7.5'

COMPANY Appalachian Energy Dev., Inc.
ADDRESS Rt. 2, Box 499, Grafton, WV 26354
DESIGNATED AGENT George Williams
ADDRESS Rt. 2, Box 499, Grafton, WV 26354
SURFACE OWNER Lovie Garner
ADDRESS 104 14th St., Massilon, OH 44646
MINERAL RIGHTS OWNER Lovie Garner
ADDRESS 104 14th St., Massilon, OH 44646
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS Middlebourne, WV
PERMIT ISSUED 3/16/88
DRILLING COMMENCED 5/1/88
DRILLING COMPLETED 5/10/88

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	0	0
9 5/8			
8 5/8	1306	1306	Surface
7			
5 1/2			
4 1/2	3033	3033	2000'
3			
X 1 1/2	2950	2950	0
Liners used			

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

GEOLOGICAL TARGET FORMATION 5th Sand Depth 2932 feet
Depth of completed well 3500 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 75 feet; Salt 1520 feet
Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA NOTE: These zones are downhole commingled.
Producing formation 5th, Gordon, Berea, Weir Pay zone depth See perf. detail feet
Gas: Initial open flow 15 Mcf/d Oil: Initial open flow show Bbl/d
Final open flow (410) Mcf/d Final open flow (1) Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 670 psig (surface measurement) after 48 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

TYLER
1230

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

- 1) Perf 5th Sand - (2933-38) w/ 14 holes. Frac w/5000# 80/100 and 20000# 20/40 in 309 bbls. water.
- 2) Perf Gordon - (2750-58) w/ 14 holes. Frac 2/5000# 80/100 and 20000# 20/40 in 309 bbls. water.
- 3) Perf Berea - (2508-12) w/ 14 holes. Frac w/5000# 80/100 and 18270# 20/40 in 314 bbls. water.
- 4) Perf Weir - (2324-34) w/ 14 holes. Frac w/5000# 80/100 and 35000# 20/40 in 413 bbls. water.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fre and salt water, coal, oil and c
Sand and Shale			0	400	Wet @ 75'
Shale			400	450	Wet @ 1520'
Sand and Shale			450	1995	
Big Lime			1995	2034	
Big Injun			2034	2158	
Shale			2158	2322	
Weir			2322	2440	
Shale			2440	2507	
Berea			2507	2512	
Shale			2512	2750	
Gordon			2750	2758	
Shale			2758	2932	
✓ 5th Sand			2932	2940	
Shale			2940	3500	
TOTAL DEPTH				<u>3500</u>	

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEV., INC.

Well Operator

By: George Williams

Date: 7/29/88

Note: Regulation 2.02(i) provides as follows:

6733 "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."

095-1230

16

Issued 2/16/88
Expires 3/16/90

FORM WW-2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: 397 Appalachian Energy Dev., Inc. 2325, 1, 538
- 2) Operator's Well Number: L.I. Garner #1 3) Elevation: 1144
- 4) Well type: (a) Oil / or Gas
 (b) If Gas: Production / Underground Storage
 Deep / Shallow
- 5) Proposed Target Formation(s): Alexander 4139
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 150 ft. @ 431', @ 619-627', @ 666'
- 8) Approximate salt water depths: 1550 ft. @ 1529', @ 1261', @ 1576'
- 9) Approximate coal seam depths: None @ 1051-1053, @ 1121-1126'
- 10) Does land contain coal seams tributary to active mine? Yes / No
From Tyler 418, 759, 1146
- 11) Proposed Well Work: Drill
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<i>OK R.H.</i> Conductor	11 3/4		42	30	30 <i>CS</i>	30 sks to surface or as required
Fresh Water						<i>38CSR18-11.3</i> <i>(38CSR18-11.22)</i>
Coal						
Intermediate	8 5/8		23	1294	1294 <i>CS</i>	surface as required
Production	4 1/2	J55	10.5	5450	5450 <i>38CSR18-11.1</i>	545 sks or as required
Tubing						
Liners						

RECEIVED
MAR 09 1988

PACKERS : Kind _____
 Sizes _____
 Depths set _____
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

6733

1246
CS
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket (Type) Agent

RECEIVED
MAR 09 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: March 3, 1988
2) Operator's well number
L.I. Garner #1
3) API Well No: 47 - 095 - 1230
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 Lovie E. Garner
Address 104 14th St SW
Massilon, Ohio 44646
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- 6) Inspector Robert Lowther
Address General Delivery
Middlebourne, WV 26149
Telephone (304)-758-4764

- 5) (a) Coal Operator:
Name None
Address _____
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____

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

XX 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)
XX _____ 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.

Well Operator Appalachian Energy Dev., Inc.
By: George P. Wilson
Its: President
Address P.O. Box 902
Belington, WV 26250
Telephone (304) 265-4147

Subscribed and sworn before me this 3rd day of March, 1988

E. H. Stewart Notary Public
My commission expires April 13, 1995