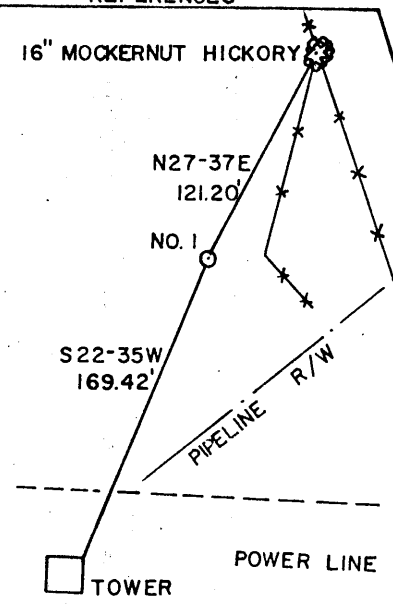
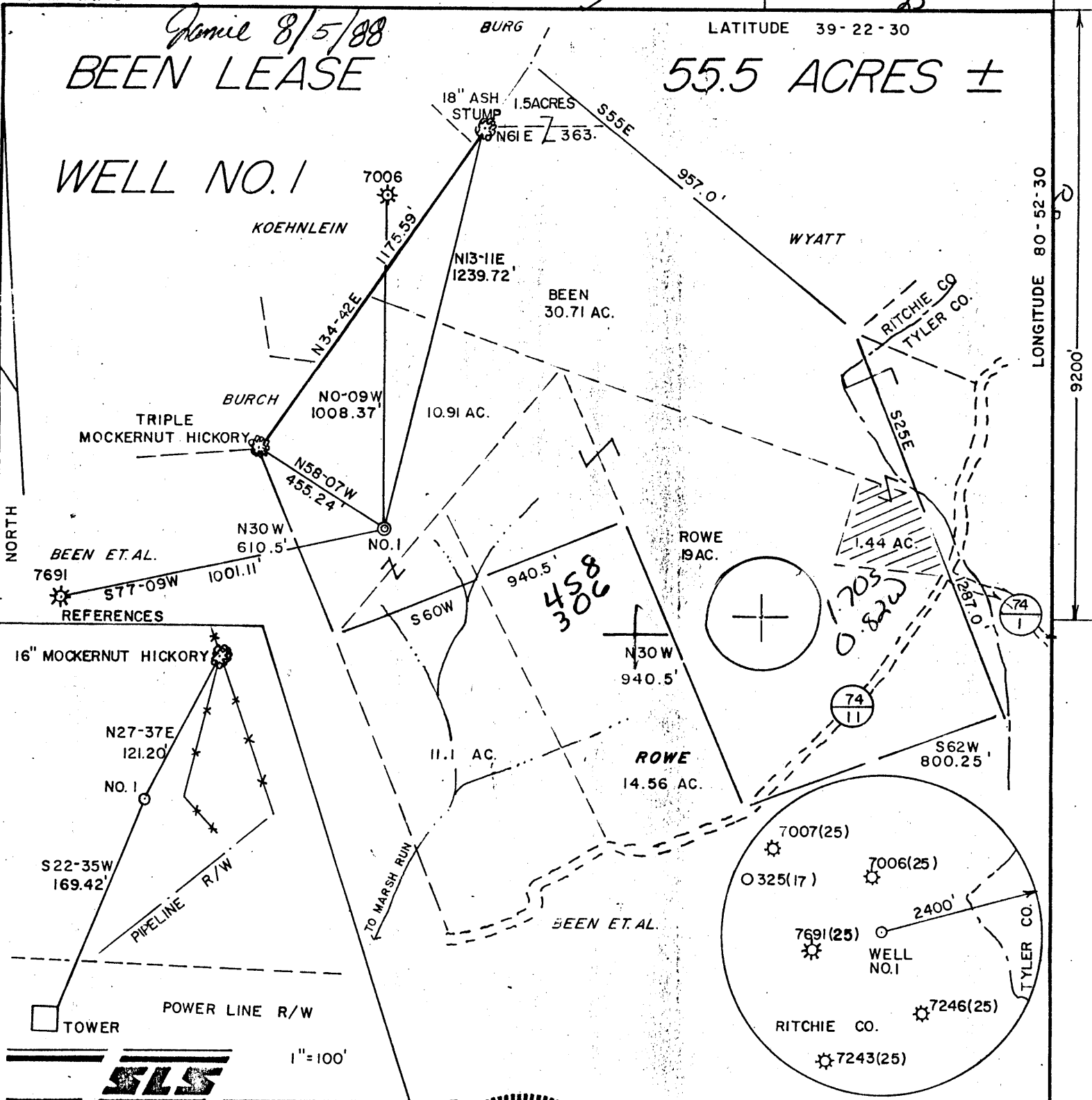


Genril 8/5/88  
BEEN LEASE

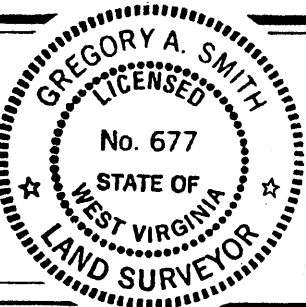
LATITUDE 39-22-30

55.5 ACRES ±

WELL NO. 1



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JUNE 17, 19 88  
OPERATORS WELL NO. BEEN NO. 1  
API WELL NO. 47 - 085 - 7806  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1839 (25-42)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB = 1390' SCALE 1" = 400'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1128' WATERSHED BRANCH OF MARSH RUN COUNTY NAME West Union C  
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 5378'  
SURFACE OWNER MITCHELL ROY BEEN et.al., O. HADSEL ROWE - AGENT ACREAGE 10.91 133  
ROYALTY OWNER TRIO PETROLEUM CORP. et.al. LEASE ACREAGE 55.5 5  
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
ESTIMATED DEPTH 5990'

WELL OPERATOR APPALACHIAN ENERGY DEVELOPMENT DESIGNATED AGENT GEORGE WILLIAMS  
ADDRESS RT. 2 BOX 499 GRAFTON, WV 26354 ADDRESS RT. 2 BOX 499 GRAFTON, WV 26354



RECEIVED  
NOV 09 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY  
Oil and Gas Division

Date October 24, 1988  
Operator's  
Well No. J. Been #1  
Farm Mitchell Roy Been et al  
API No. 47 - 085 - 7806

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 /)

LOCATION: Elevation: 1,128' Watershed Branch of Marsh Run  
District: Clay County Ritchie Quadrangle Pennsboro 7.5'

COMPANY Appalachian Energy Development, Inc.

ADDRESS Rt. 2, Box 499, Grafton, WV 26354

DESIGNATED AGENT George R. Williams

ADDRESS Rt. 2, Box 499, Grafton, WV 26354

SURFACE OWNER Mitchell Roy Been et al

ADDRESS Rt. 2, Box 206, Pennsboro, WV 26415

MINERAL RIGHTS OWNER Trio Petroleum, Inc. et al

ADDRESS Rt. 76, Box 35E, Glenville, WV 26351

OIL AND GAS INSPECTOR FOR THIS WORK Sam

Hersman ADDRESS P. O. Box 66 Smithville, WV

PERMIT ISSUED August 8, 1988

DRILLING COMMENCED October 4, 1988

DRILLING COMPLETED October 10, 1988

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	20'	20'	
9 5/8			
8 5/8	1280'	1280'	285 sks.
7			
5 1/2			
4 1/2	5468'	5468'	300 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5,300' feet

Depth of completed well 5,705' feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 1603'<sup>460'</sup> feet; Salt None feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander & Benson Pay zone depth 5008-5014'<sup>5267-5316'</sup> feet

combined Gas: Initial open flow 60 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 779 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1400 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4619-4651' feet

Gas: Initial open flow 60 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 779 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1400 psig (surface measurement) after 24 hours shut in

NOV 10 1988

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

Perfs. 5267-5316' 15-.39 Holes - Alexander-treated with 5000# 80/100, 25000# 20/40, 123 BPI H2O, 500 Gal. HCL, 300,000 Scf Nitrogen  
 Perfs. 5008-5014' 13-.39 Holes - Benson-treated with 5000# 80/100, 25000# 20/40, 130 BPI H2O, 500 Gal. HCL, 330,000 Scf Nitrogen  
 Perfs. 4619-4651' 12-.39 Holes - Riley-treated with 5000# 80/100, 35000# 20/40, 147 BPI H2O, 500 Gal. HCL, 396,000 Scf Nitrogen

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
------------------------------	----------	-------------	---------

Red Rock	0	10	
Sand and Shale	10	40	
Sand	40	196	
Sand	196	352	
Shale	352	420	
Sand	420	505	
Red Rock	505	585	1/2" Fresh Water @460'
Sand	585	634	
Shale	634	726	
Sand	726	795	
Red Rock	795	977	
Sand	977	1070	
Red Rock	1070	1110	
Sand	1110	1426	
Sand and Shale	1426	1572	
Sand	1572	1680	
Shale	1680	1909	1/2" water @ 1603'
Little Lime	1909	1948	
Shale	1948	1978	
Big Lime	1978	2043	
Big Injun	2043	2140	
Shale	2140	2150	
Sand	2150	2190	
Shale	2190	2230	
Sand	2230	2481	
Shale	2481	2607	
Sand	2607	2702	
Shale	2702	3022	
Fifth Sand	3022	3027	Gas Check @ 3078 20/10 water thru 1 1/4"
Shale	3027	3485	
Sand	3485	3517	
Shale	3517	4600	
Riley	4600	4655	
Shale	4655	5007	
Benson	5007	5015	
Shale	5015	5267	
Alexander	5267	5317	
Shale	5317	5705	
ID	5705		

(Attach separate sheets as necessary)

Appalachian Energy Development, Inc.  
 Well Operator

By: *[Signature]*

Date: October 24, 1988

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 ... encountered in the drilling of a well."

NOV 10 1988

RECEIVED  
 NOV 09 1988  
 DEPARTMENT OF OIL & GAS

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

- 1) Well Operator: <sup>0397</sup> Appalachian Energy Development, Inc. 2325 / 538
- 2) Operator's Well Number: Been No. 1 3) Elevation: 1128'
- 4) Well type: (a) Oil    / or Gas X /  
(b) If Gas: Production X / Underground Storage    /  
Deep    / Shallow X /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5990 feet
- 7) Approximate fresh water strata depths: 80' 318' 768' 603'
- 8) Approximate salt water depths: 1643' 1245' 1513'
- 9) Approximate coal seam depths: 0 N/A possible 768-773'
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"			30'	0'	0 Sks.
Fresh Water	8 5/8"			<del>1228</del> 1723'	<del>1228</del> 1723'	CTS by 38 CSR 18-11.3 38 CSR 18-11.2.2
Coal						
Intermediate						?
Production	4 1/2"			5990'	5990'	CTS or by 38 CSR 18-11.1
Tubing						
Liners						

RECEIVED  
AUG 01 1988

RECEIVED  
AUG 01 1988

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

For Division of Oil and Gas Use Only

151  
25  
Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 5 Blanket Agent

**RECEIVED**  
AUG 01 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: July 14, 1988  
2) Operator's well number: Been No. 1  
3) API Well No: 47 - 085 - 7806  
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 Mitchell R. Been %O. Hadsel Rowe Agent  
Address Rt. 2 Box 206  
Pennsboro, WV 26415
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_
- 6) Inspector Samuel Hersman  
Address Rt. 1, Box 240  
Harrisville, WV 26362  
Telephone (304)- 628 - 3185

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

  X   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   7   on the above named parties, by:

- Personal Service (Affidavit attached)
- X   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 Development, Inc.  
By: [Signature]  
Its: President  
Address Rt. 2, Box 499  
Grafton, WV 26354  
Telephone 265 - 4147

Subscribed and sworn before me this 14th day of July, 1988

Gregory A. Smith Notary Public  
My commission expires 12/7/92