

June 10/7/88

9400' W

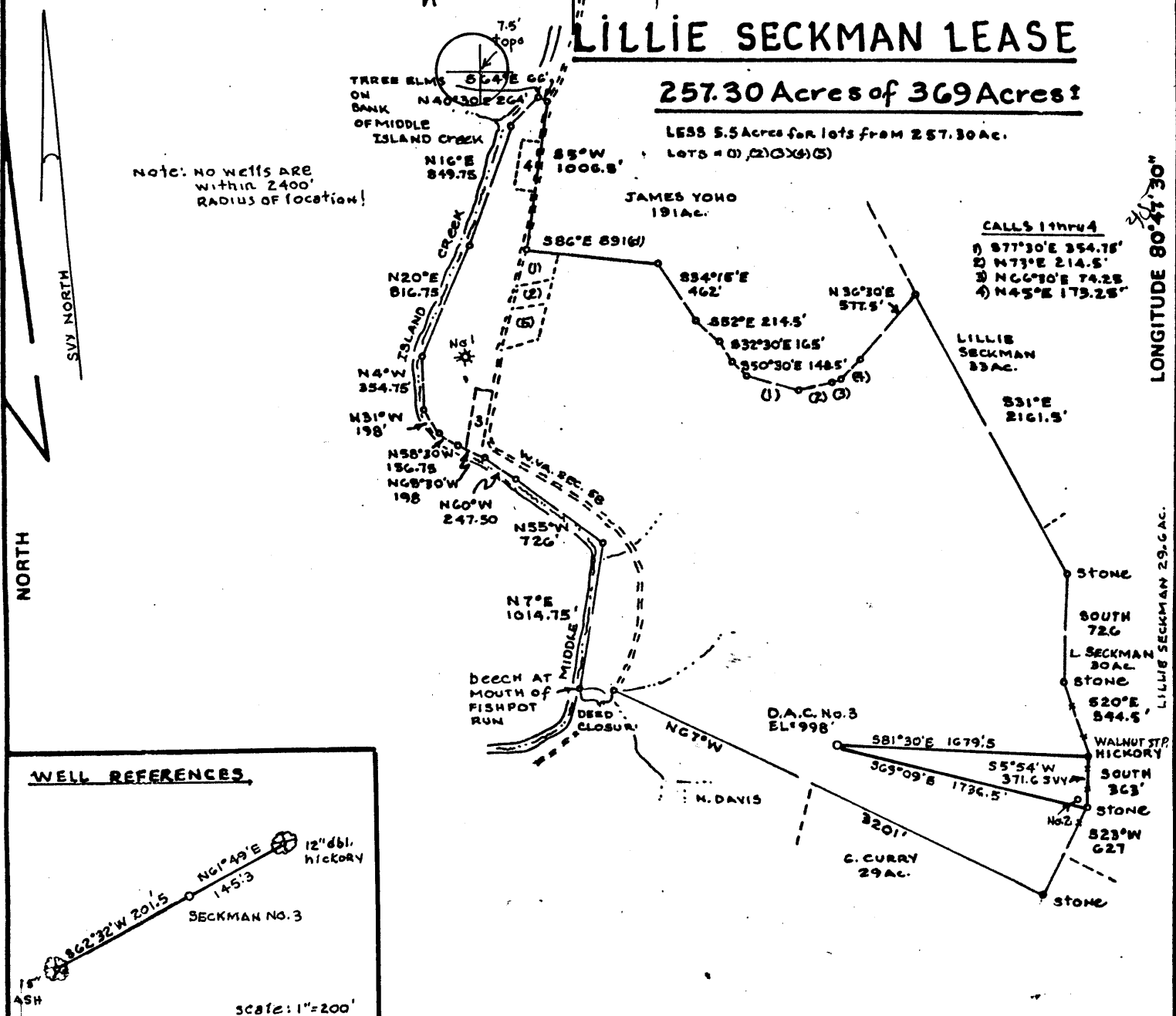
LATITUDE 39° 25' 00"

LILLIE SECKMAN LEASE

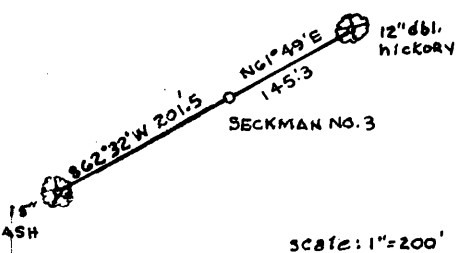
257.30 Acres of 369 Acres ±

LESS 5.5 Acres for lots from 257.30 Ac.
LOTS = (1), (2), (3), (4), (5)

NOTE: NO WELLS ARE WITHIN 2400' RADIUS OF LOCATION!



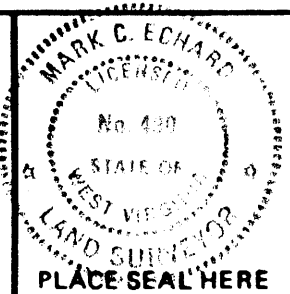
WELL REFERENCES



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 2300' ±
NORTHERLY FROM LOC. ELEV = 1418

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



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



DATE SEPTEMBER 15, 1988
 OPERATOR'S WELL NO. SECKMAN No. 3
 API WELL NO. _____
47 - 095 - 1263
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 998 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT MC ELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 607 133 6 West Union & C
 SURFACE OWNER LILLIE SECKMAN ACREAGE 251.8 of 257.30
 OIL & GAS ROYALTY OWNER LILLIE SECKMAN, et al LEASE ACREAGE 369 total
 LEASE NO. _____
 PROPOSED WORK: DRILL 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 BENSON-RILEY ESTIMATED DEPTH 5375' ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT MR. KENNETH MASON
 ADDRESS P.O. Box 99 ADDRESS P.O. Box 99
ALMA, W.VA 26320 280 ALMA, W.VA 26320

OCT 10 1988

State of West Virginia
 DEPARTMENT OF ENERGY
 Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: SECKMAN, LILLIE MRS. Operator Well No.: SECKMAN 3

LOCATION: Elevation: 998.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
 Latitude: 1890 Feet South of 39 Deg. 25Min. 0 Sec.
 Longitude: 9400 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP

P. O. BOX 99
 ALMA, WV

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON

Permit Issued: 10/07/88

Well work Commenced: 10-16-88

Well work Completed: 10-21-88

Verbal Plussings

Permission granted on: _____

Rotary Cable _____ Ris

Total Depth (feet) 5198

Fresh water depths (ft) 572

Salt water depths (ft) 1880

Is coal being mined in area (Y/N)? _____

Coal Depths (ft): 660-668

Casings & Tubing Size	Used in Drilling	Left in Well	Cement (Fill Up) Cu. Ft.
11-3/4	108	108	55 sks
8-5/8	1926	1926	420 sks
4-1/2	5086	5086	200 sks

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OPEN FLOW DATA

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Producing formation Benson Pay zone depth (ft) 5010-5014

Gas: Initial open flow smell MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 396 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 1550 psis (surface pressure) after 48 Hours

Second producing formation Riley Pay zone depth (ft) 4436-4619

Gas: Initial open flow smell MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 396 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 1550 psis (surface pressure) after 48 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.

For: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason

Date: 12/20/88

DEC 30 1988

Well treated as follows:

Benson perforated from 5010-5014 with 14 holes. Fracked with 350 sks sand, 363 bbls treated fluid, Aug rate 23 bpm, Aug psi 2627

Riley perforated from 4436-4619 with 14 holes. Fracked with 200 sks sand, 301 bbls treated fluid, Aug rate 21 bbls pm, Aug psi 2600#

Electric log tops ✓

Big Lime-----1890

Berea-----2488

Riley-----4578

✓ Benson-----4990

RR	0----	10	
sh	10---	25	
sd	25---	30	
RR/sh	30---	140	hole wet 62
RR/sh	140--	205	
sd/sh	205--	287	
RR/sh	287--	302	
sd/sh	302--	347	
RR/sh	347--	400	
sd/sh	400--	572	hole wet 572
sd	572--	660	
coal	660--	668	
sd/sh	668--	780	
RR/sh	780--	905	
RR	905--	940	
sd/sh	940--	1020	
sh	1020-	1175	
sd	1175-	1205	
sd/sh	1205-	1270	
sd	1270-	1445	
sd/sh	1445-	1890	salt water 1880
B. lime	1890-	1996	
B. Ingun	1996-	2005	
sh	2005-	5198	

TD.

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

DEC 30 1988

9/22/88

AP# 47-095-1263

~~COPY~~

FORM WW-2B

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

- 1) Well Operator: Drilling Appalachian Corporation *14425, 5, 606*
- 2) Operator's Well Number: Seckman #3 3) Elevation: 998'
- 4) Well type: (a) Oil / or Gas
(b) If Gas: Production / Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Benson/Riley *435*
- 6) Proposed Total Depth: 5200± feet
- 7) Approximate fresh water strata depths: 200', 350', 376'
- 8) Approximate salt water depths: 1800±
- 9) Approximate coal seam depths: --- possibly @ 310'
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill; perforate; stimulate new formation *New Well*
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	H-40	27#	100'	100'	38CSR18-11.3
Fresh Water						
Coal						38CSR18-11.2.2
Intermediate	8-5/8"	J-55	23#	1,875'	1,875'	CTS Neat
Production	4-1/2"	J-55	10½#	5,100'	5,100'	38CSRR18-11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: *3/190* Well Work Permit *3/4* Reclamation Fund *3/4* WPCP
 Plat *3/4* WW-9 *3/4* WW-2B *3/4* Bond *50 Blanket* Agent *3/4*
 (Type)

RECEIVED
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DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: Sept. 15, 1988
Operator's well number
Seckman #3
API Well No: 47 - 095 - 1263
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 Mrs. Lillie Seckman
Address Alma, WV 26320
- (b) Name ---
Address -----
- (c) Name ---
Address -----
- 6) Inspector Glen Robinson
Address Rt 1, No. 6 Pt. Pleasant
Mineral Wells, WV 26150
Telephone (304)- 469-9162

- 5) (a) Coal Operator:
Name ---
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:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 y 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 5 on the above named parties, by:

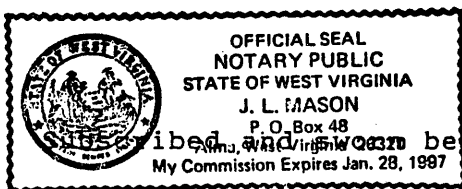
- Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

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.

Well Operator Drilling Appalachian Corporation
By: Russell R. Mason
Its: President
Address PO Box 99
Alma, WV 26320
Telephone 304-758-4638



Subscribed and sworn to before me this 15th day of Sept., 19 88
My Commission Expires Jan. 28, 1997

My commission expires _____

J. L. Mason Notary Public
Jan. 28, 1997