

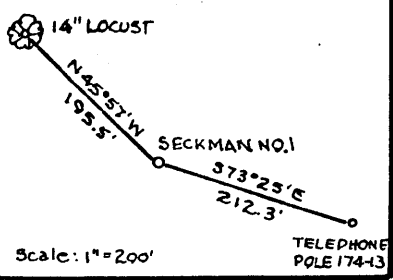
11,770'W

30

LATITUDE 39°27'30"

Janie 8/18/1988

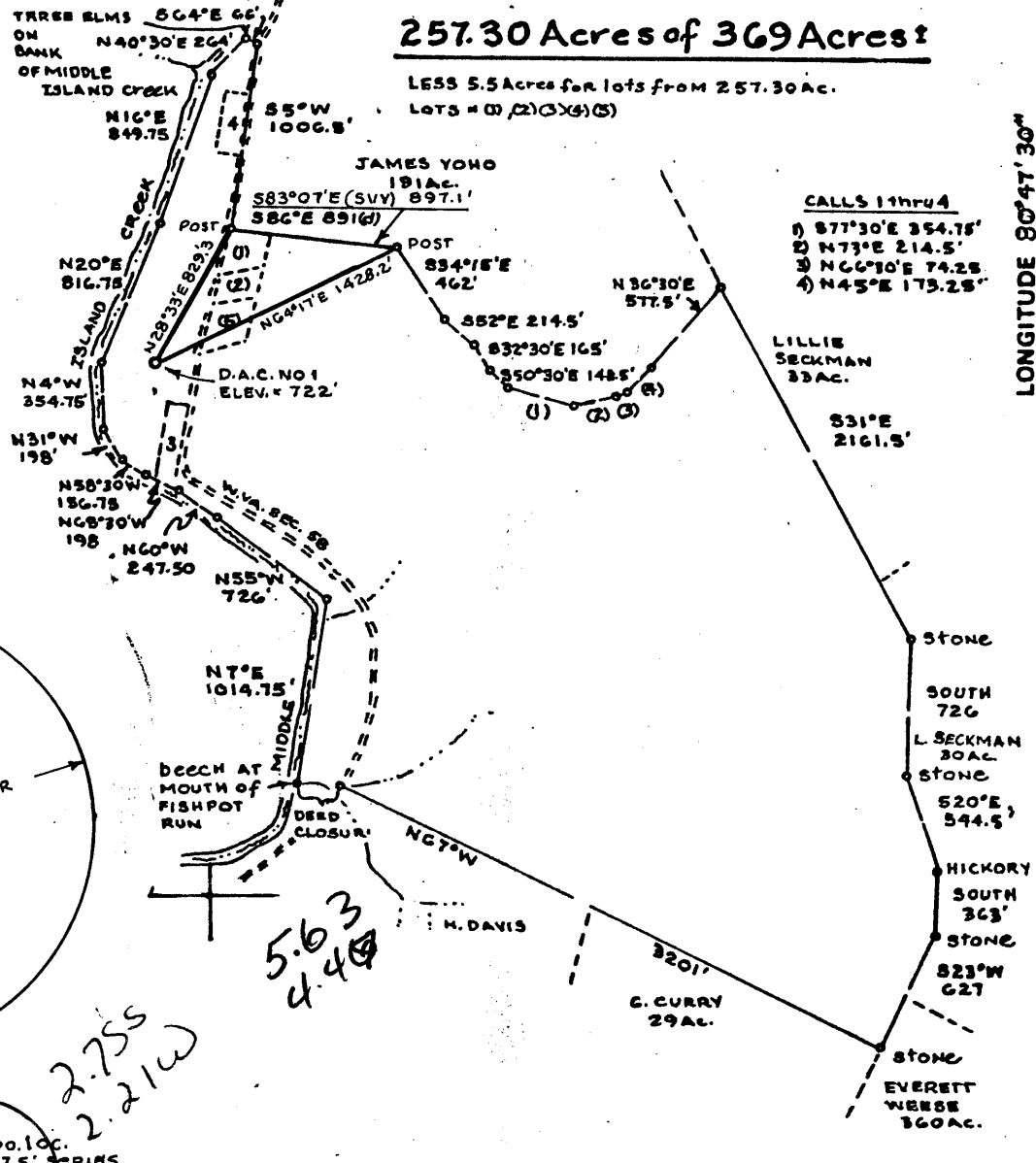
WELL REFERENCES



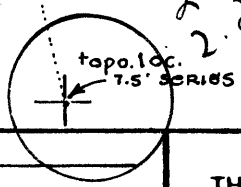
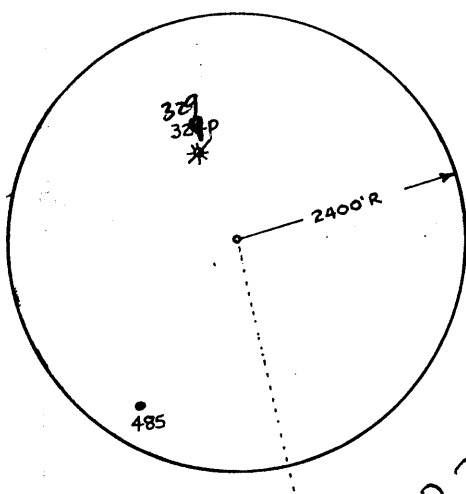
LILLIE SECKMAN LEASE

257.30 Acres of 369 Acres ±

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



- CALLS 1 thru 4
- 1) S77°30'E 354.75'
 - 2) N73°E 214.5'
 - 3) N66°30'E 74.25'
 - 4) N45°E 173.25'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
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
 MARK C. ECHARD
 (SIGNED) _____

R.P.E. _____ L.L.S. 490



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



DATE AUGUST 6, 1988
 OPERATOR'S WELL NO. SECKMAN No. 1
 API WELL NO. 47-095-1256
 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 722 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT MCELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 607 223 West Union (133) NE
 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 5100 ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT MR. KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, W.V.A 26320 280 ALMA, W.V.A 26320

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 9-19-88
Operator's _____
Well No. #1
Farm Seckman
API No. 47 - 095 - 1256

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 722 Watershed Middle Island Creek
District: McElroy County Tyler Quadrangle Shirley 7.5'

COMPANY D.A.C.
ADDRESS P.O. Box 99 Alma WV
DESIGNATED AGENT Kenneth Mason
ADDRESS P.O. Box 99 Alma WV
SURFACE OWNER Lillie Seckman
ADDRESS Centerville WV
MINERAL RIGHTS OWNER Lillie Seckman
ADDRESS Centerville WV
OIL AND GAS INSPECTOR FOR THIS WORK Glenn
Robinson ADDRESS _____
PERMIT ISSUED 8-18-88
DRILLING COMMENCED 9-1-88
DRILLING COMPLETED 9-8-88

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4		132	65
9 5/8			
8 5/8	952	905	190
7			
5 1/2			
4 1/2	4923	4776	200
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Benson Depth 4717 feet
Depth of completed well 4923 feet Rotary XXXXXX Cable Tools _____
Water strata depth: Fresh 30 feet; Salt 1550 feet
Coal seam depths: none reported Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4731 feet
Gas: Initial open flow small Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 86 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1125 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4316 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 86 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

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

Perforate Benson 4731-4735 14 holes, Frack with 300 sks sand, 64,500 scf N2
 356 bbls treated fluid, Avg rate 23 Avg psi 3652
 4316? ?
 Perforate Riley and Bradford 14 holes Frac with 200 sks sand, 45,000 scf N2
 220 bbls treated fluid, Avg rate 18.6 Avg psi 2540

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	10	
sand			10	45	1/4" stream 30'
rr			45	47	
sd sh			47	347	1/2" stream 347'
rr			347	415	
sh sd			415	435	
rr			435	555	
sd sh			555	891	
sh rr			891	952	
sh sd			952	1608	1 1/2" stream 1550'
lime			1608	1615	
Big Lime			1615	1634	
sd sh			1634	4923	
					✓ Electric log tops
					Big Lime 1632
					Berea 2226
					✓ Benson 4718

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

D.A.C

Well Operator

By: Kenneth Mason

Date: 9/27/88

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."

7594

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

- 1) Well Operator: Drilling Appalachian Corporation ⁰³¹¹ 14425, 5, 606
- 2) Operator's Well Number: Seckman #1 3) Elevation: 722'
- 4) Well type: (a) Oil X/ or Gas X/
- (b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Benson/Riley ⁴³⁵
- 6) Proposed Total Depth: 5100'± feet
- 7) Approximate fresh water strata depths: 95' , ~~100'~~
- 8) Approximate salt water depths: 1005±
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: ^{New Well.} Drill/perforate; stimulate new formation
- 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	42#	132'	132'	CTS
Fresh Water						38CSR18-11.3
Coal						
Intermediate	8-5/8"	J-55	20#	900'	900'	CTS Neat
Production	4-1/2"	J-55	10½#	5000'	5000'	38CSR18-11.1
Tubing						
Liners						

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

3392

For Division of Oil and Gas Use Only ^{Case OK 2PR}

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond 50 Barbet Agent

(Type)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: Aug. 8, 1988
2) Operator's well number
Seckman #1
3) API Well No: 47 - 095 - 1256
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 _____
- 5) (a) Coal Operator:
Name ---
Address _____
- (b) Coal Owner(s) with Declaration
Name ---
Address _____
- (c) Coal Lessee with Declaration
Name ---
Address _____
- 6) Inspector Glen Robinson
Address Rt 1, No. 6 Pt. Pleasant
Mineral Wells, WV 26150
Telephone (304)- 489-9162

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 _____ on the above named parties, by:

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

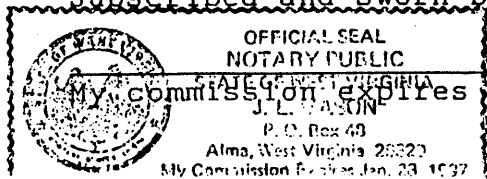
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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: Renaith R. Mason
Its: President
Address PO Box 99
Alma, WV 26320-0099
Telephone 304-758-4638

Subscribed and sworn before me this 8th day of August, 1988



Jan. 28, 1997

J. L. Mason

Notary Public