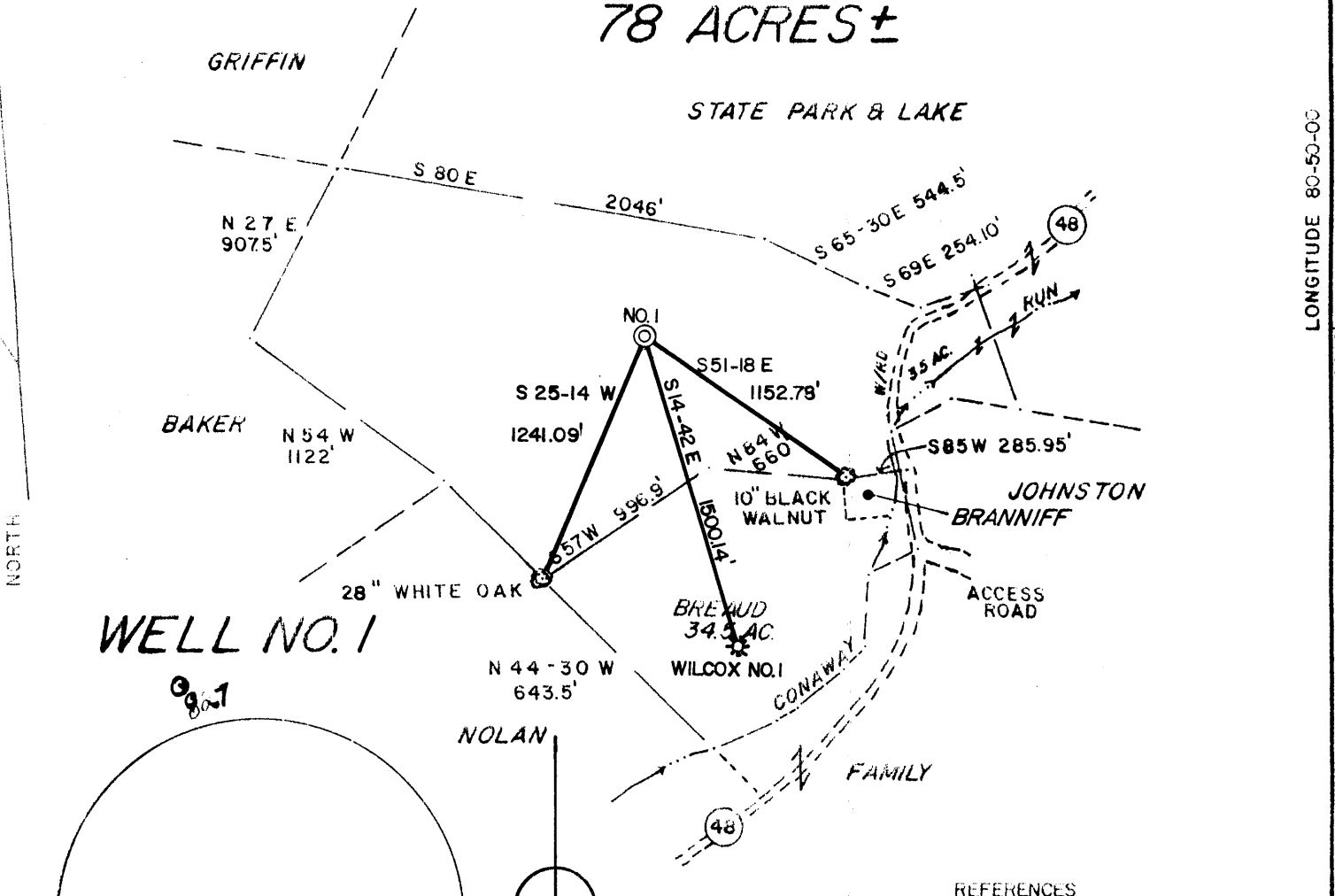


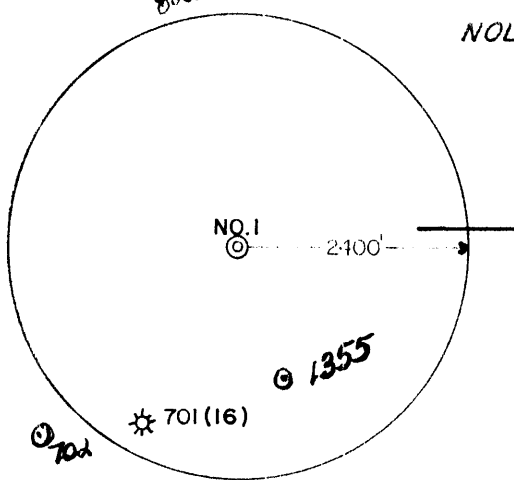
LEASEBURG LEASE

Jamie 12/4/89

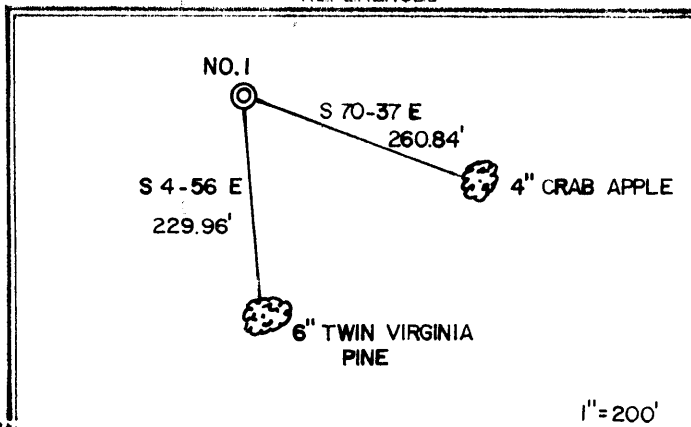
78 ACRES ±



WELL NO. 1



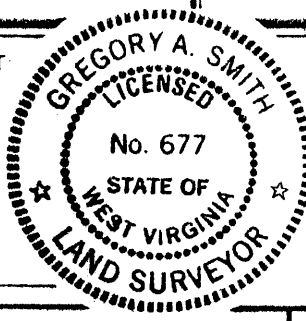
2.30
1.72



REFERENCES




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 DECEMBER 4, 19 89
 OPERATORS WELL NO. LEASEBURG NO. 1
 API WELL NO. 47 - 095 - 1357
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2200 (30-40)
 SCALE 1" = 800'
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1155'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
 ELEVATION 919' WATERSHED CONAWAY RUN West Union NC
 DISTRICT CENTERVILLE / COUNTY TYLER QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER FORREST E. LEASEBURG ET. UX. ACREAGE 7725
 ROYALTY OWNER FORREST E. LEASEBURG ET. UX. LEASE ACREAGE 78
 PROPOSED WORK:
 DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON
 ESTIMATED DEPTH 5300'

WELL OPERATOR THE COASTAL CORP. DESIGNATED AGENT WILLIAM CARPENTER
 ADDRESS PO BOX 4119 PARKERSBURG, WV 26101 ADDRESS PO BOX 4119 PARKERSBURG, WV 26101

195

DEC 08 1989

00-00-08 EADU11GN01 12221

State of West Virginia
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: LEASEBURG, FORREST ETUX. Operator Well No.: LEASEBURG #1

LOCATION: Elevation: 919.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 12250 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 9140 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: COASTAL CORP., THE
P. O. BOX 4119
PARKERSBURG, WV 26104-0000

Agent: WILLIAM E. CARPENTER

Inspector: GLEN P. ROBINSON
Permit Issued: 12/05/89
Well work Commenced: 12/12/89
Well work Completed: 12/27/89
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 5090
Fresh water depths (ft) 100' 410'

Salt water depths (ft) 1810

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	126	126	118 Cuft.
8 5/8	1873	1873	611 Cuft.
4 1/2	4978	4978	503 Cuft.

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4897 - 4902
Gas: Initial open flow 550 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 275 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ 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: COASTAL CORP., THE

By: William E. Carpenter
Date: 1/12/89

JAN 19 1990

Leaseburg #1

Formation	Color	Hard/Soft	Top	Bottom	
Clay	Yellow	Soft	0	15	
Sand	White	Hard	15	75	
Shale	Red	Med	75	90	
Sand	Gray	Hard	90	110	wet 100'
R Shale	Red	Med	110	131	
Sand Shale	Gray	Med	131	163	
Sand	White	Hard	163	200	
Shale	Red	Soft	200	205	
Shale	Gray	Soft	205	225	
Sandy Shale	Gray	Med	225	350	
Shale	Gray	Med	350	360	
Sandy Shale	Gray	Med	360	410	wet 410
sandy Shale	Gray	Med	410	540	
Shael	Gray	Med	540	580	
Sand	White	Hard	580	630	
Sand/Shale	Gray	Med	630	770	
RR	Red	Soft	770	810	
Shale	Blue/Gray	Med	810	1050	
RR		Soft	1050	1075	
Shale	Gray	Med	1075	1200	
Sand	Gray	Med	1200	1380	
Sandy Shale	Gray	Hard	1380	1400	
Sand	White	Hard	1400	1450	
Sandy Shale	Gray	Med	1450	1680	
Sand/Shale	Gray	Med	1680	1810	
Lime	White	Hard	1810	1908	
Lime/Sand	White	Hard	1908	2000	gas 1950
Sand	Gray	Hard	2000	2040	
Sand/Shale	Dark	Med	2040	2225	
Sand	Gray	Hard	2225	2383	
SandyShale	Gray	Med	2383	3058	
Sand	Gray/Blue	Med	3058	4328	
Shale	Gray	Soft	4328	5090	

Single Stage Water Frac-Benson Formation

Shot 14 .39 holes from 4897' to 4902' and broke down with 500 gals of 15% Fe Acid at 1863 lbs. Ran 50 sacks of 80/100 mesh and 350 sacks of 20/40 mesh sand at a rate of 22.2 BPM for a total volumn of 565 bbls. Average treating pressure was 2758 lbs. with and ISIP of 2103 lbs.

3/14/6

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

Expires 12/05/91

- 1) Well Operator: ¹⁹⁵ The Coastal Corporation 10/25 (1) 606
- 2) Operator's Well Number: Leaseburg #1 3) Elevation: 919
- 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: 5100 feet
- 7) Approximate fresh water strata depths: 230, 425, 324'
- 8) Approximate salt water depths: 1463, 1488, 1562
- 9) Approximate coal seam depths: 710, 711' - 742, 743'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Drill and 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			120'	120'	CTS
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23#	1860	1860'	CTS → By Rule 38 CSR 18.3
Production	4 1/2	ERW	10.5#	5100	5100	← By Rule 38 SCR 18.11-1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

RECEIVED
DEC 05 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

8647
31 | Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanketone Agent
(Type)

RECEIVED
DEC 05 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: 12/4/89
2) Operator's well number
Leaseburg #1
3) API Well No: 47 - 095 - 1357
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 Forrest E. Leaseburg ET, UX
Address Alma, WV 26120
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name _____
Address N/A
- (b) Coal Owner(s) with Declaration
Name _____
Address N/A
- Name _____
Address _____
- 6) Inspector Geln P. Robinson
Address Rt 1 #6 Mt. Pleasant Est.
Mineralwells, WV 26150
Telephone (304)-489-2736
- (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

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:

- X 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 The Coastal Corporation
By: *E. J. ...*
Its: Field Supervisor
Address P. O. Box 4119
Parkersburg, WV 26104
Telephone 304-428-3471

Subscribed and sworn before me this 4th day of December, 19 89

Diana ... Notary Public
My commission expires May 24, 1999