

Amended 5/22/90  
**WILCOX LEASE**

8610'  
 LATITUDE 39-27-30

LEASBURG

JOHNSTON

28" WHITE OAK

34.5 ACRES ±

N 58-44 W  
 1039.96' NO.1  
 REVISED

NOLAN

N44-30 W  
 1138.5'

47-095-1355

S76-51E  
 2147.57'

47-095-942(25)

(47-095-1355)  
**WILCOX WELL NO.1  
 (REVISED)**  
 168 ACRES ±  
**TOTAL**

FAMILY

50 ACRES ±

JOHNSTON

STEPHENS

84.25 ACRES ±

UNDERWOOD

REFERENCES

01351

NO.1 REVISED  
 2400' Ⓞ 47-095-1355

701 (16)

942 (25)

01367

SHUMAN HRS.

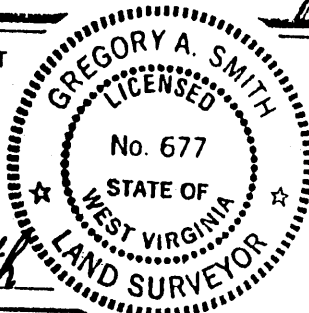
ASH

01360 Rev.

**SLS**

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.

L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE MAY 16, 1990  
 OPERATORS WELL NO. WILCOX NO.1 REVISED  
 47-095-1355  
 API WELL NO. 47-095-1355  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2192 (30-34)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1155' SCALE 1"=800'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 965' WATERSHED CONWAY RUN  
 DISTRICT CENTERVILLE 1 COUNTY TYLER

SURFACE OWNER LEON BREAUD QUADRANGLE SHIRLEY 7.5'  
 ROYALTY OWNER EMORY J. WILCOX ACREAGE 37.51  
 LEASE ACREAGE 34.5 OF 164

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 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 5350'

WELL OPERATOR THE COASTAL CORP. 195 DESIGNATED AGENT WILLIAM CARPENTER  
 ADDRESS PO BOX 4119 PARKERSBURG, WV. 26101 ADDRESS PO BOX 4119 PARKERSBURG, WV. 26101

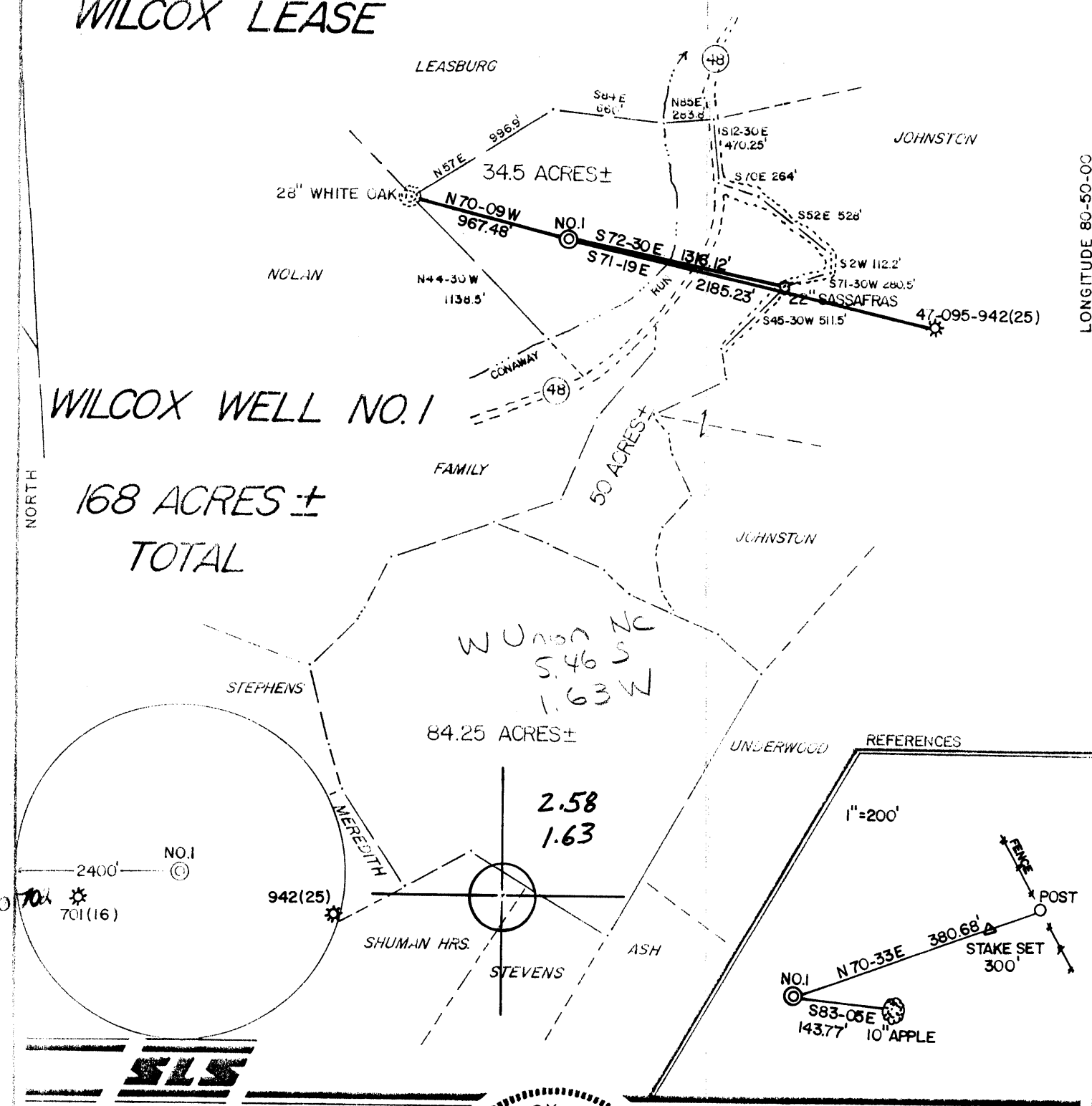
LONGITUDE 80-50-11N01  
 13,900'

COUNTY NAME  
 PERMIT

575

JUL 16 1990

Jamie 11/28/89  
WILCOX LEASE



WILCOX WELL NO. 1

168 ACRES ±  
TOTAL

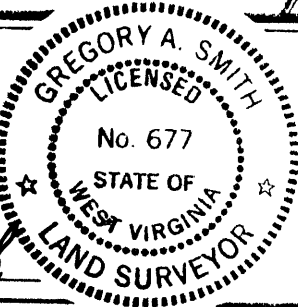
W Union No  
5.46 S  
1.63 W

84.25 ACRES ±

2.58  
1.63



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L.L.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE NOVEMBER 27, 19 89  
OPERATORS WELL NO. WILCOX NO. 1  
API WELL NO. 47-095-1355  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2192 (30-34)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1155' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 985' WATERSHED CONAWAY RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'  
SURFACE OWNER LEON BREAUD ACREAGE 37.51  
ROYALTY OWNER EMORY J. WILCOX LEASE ACREAGE 34.5 OF 168  
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 5350'

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

0195  
6-6 Bearsville (364)  
DEC 01 1989

LONGITUDE 80-50-50

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

DIVISION OF OIL AND GAS  
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: BREAUD, LEON PAUL JR. Operator Well No.: WILCOX #1

LOCATION: Elevation: 985.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER  
Latitude: 13700 Feet South of 39 Deg. 27Min. 30 Sec.  
Longitude 8610 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: 11/29/89  
Well work Commenced: 12/4/89  
Well work Completed: 12/19/89  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5372  
Fresh water depths (ft) \_\_\_\_\_  
105' - 480'  
Salt water depths (ft) \_\_\_\_\_  
1825'  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 0

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	123	123	118 cuft.
8 5/8	1954	1954	634 cuft.
4 1/2	5004	5004	503 cuft.

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4940-4945  
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: 1/16/90

JAN 19 1990

Formation	Color	Hard/Soft	Top	Bottom	
Rock	Gray	Hard	0	50	
Sand	White	Hard	50	80	
Shale	Red	Soft	80	85	
Sand	White	Hard	85	105	Water 105
Sandy Shale	Gray	Med	105	125	
Sand	White	Hard	125	132	
Sand	White	Hard	132	140	
Redrock	Red	Soft	140	160	
Sand	White	Med	160	170	
Redrock	Red	Soft	170	175	
Sand/Shale	Gray	Med	175	180	
Sand	White	Med	180	210	
Redrock	Red	Soft	210	220	
Shale	Gray	Med	220	240	
Sand	White	Hard	240	260	
Shale	Gray	Soft	260	300	
Sand/Shale	Gray	Med	300	310	
Redrock	Red	Soft	310	412	
Shale	Gray	Med	412	460	
Sandy/Shale	Gray	Med	460	480	
Sand	White	Hard	480	595	hole wet 540
Sandy/Shale	Gray	Med	595	640	
Sand	White	Hard	640	660	
Sandy/Shale	Gray	Med	660	826	
Redrock	Red	Soft	826	905	
Sand/Shale	Gray	Med	905	1250	
Sand	Gray	Med	1250	1300	
Shale	Gray	Soft	1300	1375	
Sand	Gray	Hard	1375	1620	
Shale	Gray	Med	1620	1790	
Sand	White	Hard	1790	1810	
Sandy Shale	Gray	Med	1810	1825	
Little Lime	Gray	Hard	1825	1930	
Sandy Shale	Gray	Med	1930	1978	
Lime	White	Med	1978	2050	
Sand/Shale	Gray	Med	2050	2300	
Sand/Lime	Gray	Med	2300	2450	
Shale	Gray	Med	2450	2670	
Sandy Shale	Gray	Med	2670	3310	
Shale	Gray/Brown	Soft	3310	3943	
Shale	Gray	Soft	3943	4460	
Shale	Purple	Soft	4460	4611	
Shale	Gray	Soft	4611	5372	

Single Stage Water Frac-Benson Formation

Shot 14 .39 holes from 4940' to 4945' broke down with 500 gallons of 15% FE Acid at 1989 lbs. Ran 50 sacks of 80/100 mesh and 350 sacks of 20/40 mesh sand at a rate of 23.4 BPM, for a total volumn of 544.6 bbls. Average treating pressure was 2677 lbs. with and ISIP of 1782 lbs.

9411

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

- 1) Well Operator: The Coastal Corporation 10125 (1) 606
- 2) Operator's Well Number: Wilcox #1 3) Elevation: 98
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson, Riley
- 6) Proposed Total Depth: 5350 feet
- 7) Approximate fresh water strata depths: OK 305, 493
- 8) Approximate salt water depths: OK 1529, 1549, 1628
- 9) Approximate coal seam depths: OK 776, 777 - 808, 809'
- 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						38CSR18-11.22
Intermediate	8 5/8	ERW	23#	1935'	1935'	By Rule 38 C 18.3
Production	4 1/2	ERW	10.5	5350	5350	By Rule 38 C 18.11-1
Tubing						
Liners						

11/9

RECEIVED  
NOV 28 1989

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

9553

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

RECEIVED  
NOV 28 1999

Page 1 of  
Form WW2-A  
(09/87)  
File Copy

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

- 1) Date: \_\_\_\_\_
- 2) Operator's well number \_\_\_\_\_
- 3) API Well No: 47 - 095 - 1355  
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 Leon Paul Breaud, Jr.  
Address Centerville District  
Tyler County, WV
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Rt 1 #6 Mt. Pleasant Est.  
Mineralwells, WV 26150  
Telephone (304)- 489-2736

- 5) (a) Coal Operator:
  - Name N/A  
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  
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 The Coastal Corporation  
By: [Signature]  
Its: Field Supervisor  
Address P. O. Box 4119  
Parkersburg, WV 26104  
Telephone (304) 428-3471

Subscribed and sworn before me this 27 day of November, 19 89

[Signature]  
Notary Public  
My commission expires May 24, 1999