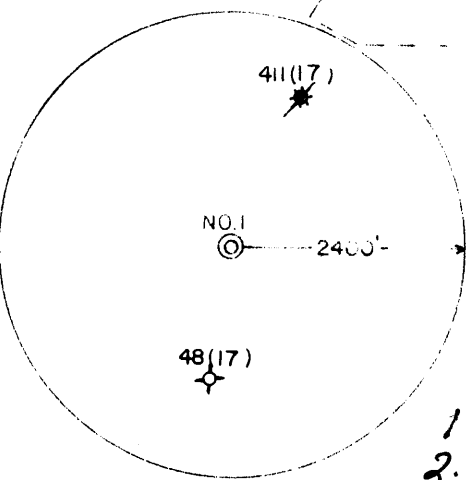
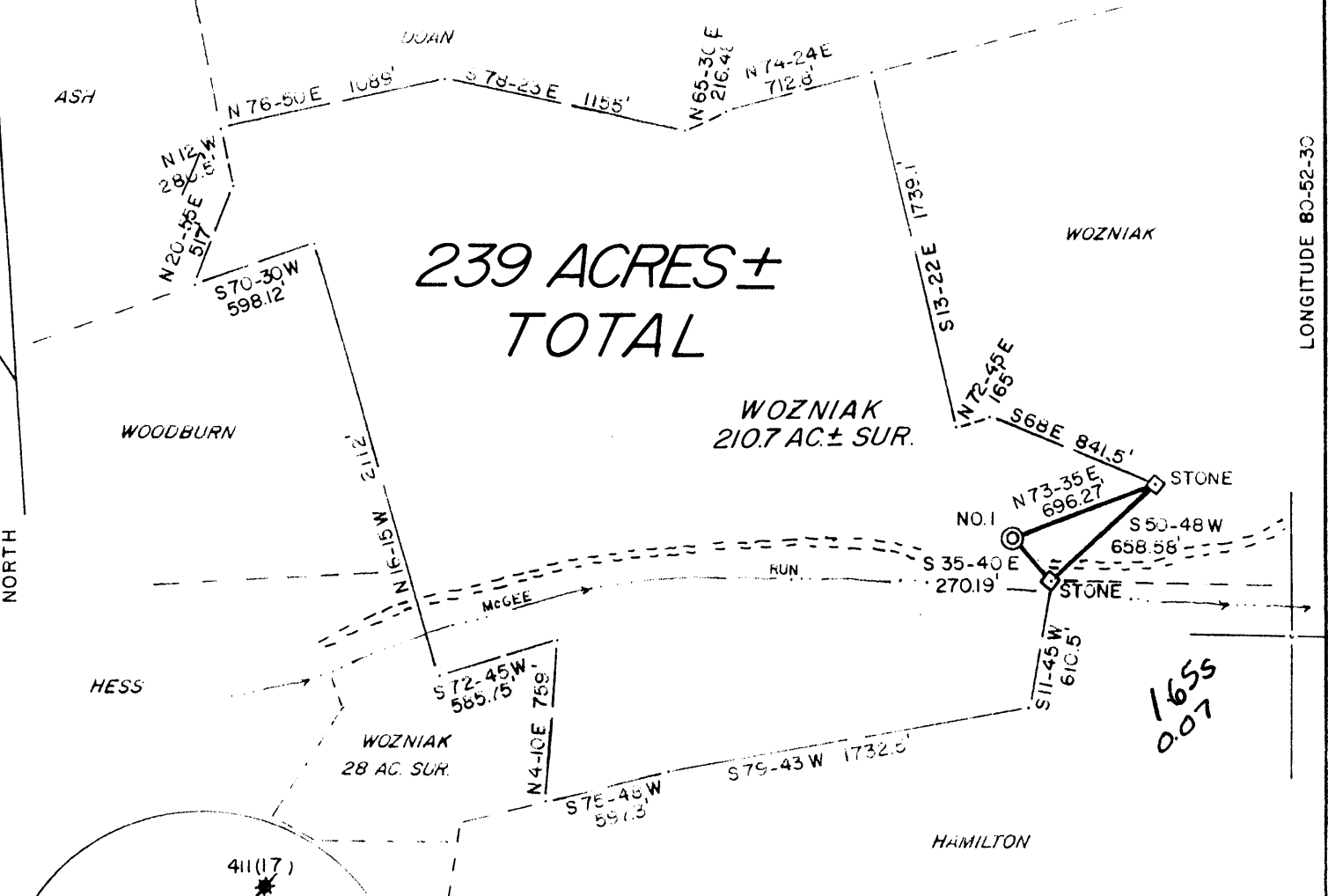


Opmie 10/4/89

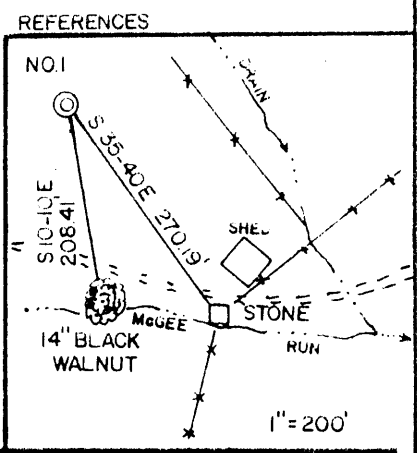
PIERSON LEASE

239 ACRES ± TOTAL



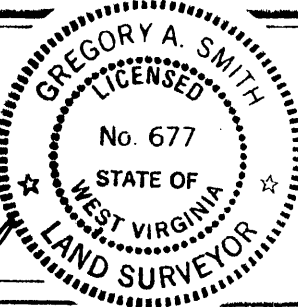
WELL NO. 1

*1.65 S
2.30 W*



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 SEPTEMBER 22, 19 89

OPERATORS WELL NO. PIERSON NO. 1


API WELL NO. 47 - 095 - 1331

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2157(28-51)

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1252' SCALE 1"=800'

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 778' WATERSHED McGEE RUN West Union C

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE MIDDLEBOURNE 75' W.V.

SURFACE OWNER WILLIAM M. WOZNAK ET. UX. ACREAGE 210.725 OF 239 COUNTY NAME C

ROYALTY OWNER PAUL E. PIERSON ET. AL. LEASE ACREAGE 239

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 BENSON

ESTIMATED DEPTH 5000'

WELL OPERATOR THE COASTAL CORP. 195 DESIGNATED AGENT WILLIAM CARPENTER OCT 6 1989

ADDRESS PO. BOX 4119 PARKERSBURG, WV, 26201 ADDRESS PO. BOX 4119 PARKERSBURG, WV, 26201

6-6 Boonsville (311)

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

Well Operator's Report of Well Work

Farm name: WOZNIAK, WM. & VIRGINIA Operator Well No.: PIERSON #1

LOCATION: Elevation: 778.00 Quadrangle: MIDDLEBOURNE

District: CENTERVILLE County: TYLER
Latitude: 8780 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 420 Feet West of 80 Deg. 52 Min. 30 Sec.

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

Agent: WILLIAM E. CARPENTER

Inspector: GLEN P. ROBINSON
Permit Issued: 10/04/89
Well work Commenced: 10/14/89
Well work Completed: 10/20/89
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4905
Fresh water depths (ft) _____
15, 55, 115, 132 & 170
Salt water depths (ft) _____
1565
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	132	132	118 cuft
8 5/8	1691	1691	550 cuft
4 1/2	4848	4848	503 cuft

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson/Riley Pay zone depth (ft) 4768-4772
 Gas: Initial open flow 1000 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 800 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1600 psig (surface pressure) after 24 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: 11/9/89

NOV 20 1989

Pierson #1

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1st Stage - Benson

Shot 14 .39 holes from 4768' to 4772' and broke down with 500 gals of 15% HCL acid at 1608 lbs. Ran 50 sacks of 80/100 mesh and 350 sacks of 20/40 mesh sand at a rate of 23.3 BPM for a total volumn of 422 bbls. Average treating pressure was 2427 lbs. with and ISIP of 1515 lbs.

2nd Stage - Riley

Shot 14 .39 holes form 4157' to 4369' and broke down with 500 gals of 15% HCL acid at 1700 lbs. Ran 50 sacks of 80/100 mesh and 250 sacks of 20/40 mesh sand at a rate of 23.4 BPM for a total volumn of 335 bbls. Average treating pressure was 2622 lbs. with an ISIP of 1795 lbs.

Formation	Color	Hard/Soft	Top	Bottom	
Sand	Brown	Soft	0	35	Water 15'
Sand	White	Hard	35	70	Water 55'
Shale	Red	Med	70	80	
Sand/Shale	Grey	Hard	80	105	
Shale	Red	Med	105	115	
Sand	White	Hard	115	132	Water 170 - soap
Sand/Shale	Grey	Med	132	230	
Shale	Red	Soft	230	260	
Sand	White	Hard	260	300	
Shale	Grey	Med	300	420	
Sand	White	Hard	420	450	
Shale	Grey	Med	450	470	
Lime	Brown/white	Hard	470	509	
Sandy/shale	Grey	Med	509	535	
Shale	Red	Soft	535	540	
Sandy/shale	Grey	Med	540	680	
Shale	Red	Med	680	690	
Sandy Shale	Grey	Med	690	710	
Sand	White	Hard	710	745	
Sandy Shale	Grey	Med	745	760	
Sand	White	Hard	760	810	
Sandy Shale	Grey	Med	810	909	
Shale/sand	Grey	Med	909	1209	
Sand	White	Hard	1209	1464	
Sand	White	Hard	1464	1565	
Sandy Shale	Grey	Med	1565	1625	
Sand	White	Hard	1625	1660	
Little Lime	Grey	Hard	1660	1675	
Sandy Shale	Grey	Hard	1675	1700	
B. Lime	White	Hard	1700	1752	
Lime	White	Hard	1752	1785	
Lime	White	Hard	1785	1830	
Sand	White	Hard	1830	1850	
Shale	Grey	Soft	1850	3255	
Shale	Grey	Soft	3255	4905	TD

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

- 1) Well Operator: The Coastal ^{Gas} Corporation 10125- (1) 470
- 2) Operator's Well Number: Pierson #1 3) Elevation: 778
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson, ⁴³⁵Riley
- 6) Proposed Total Depth: 5000 feet
- 7) Approximate fresh water strata depths: 98', 288', 359' 490'
- 8) Approximate salt water depths: 1329', 1349', 1428'
- 9) Approximate coal seam depths: 576', 577', - 608', 609' locally 211-212
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 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	Fill-up (cu. ft.)
<u>9/29/89</u> Conductor	11 3/4			120'	120'	CTS
Fresh Water						
Coal						<u>38 CSR 18-11.3</u>
Intermediate	8 5/8	ERW	23#	1725'	1725'	By rule 38 CSR 18.11.2.2
Production	4 1/2	ERW	10.5#	5000'	5000'	By rule 38 CSR 18.11-1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

RECEIVED
 OCT 03 1989

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

8210
 27
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Sure Agent
 (Type)



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

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

1) Date: 9/25/89
2) Operator's well number Pierson #1
3) API Well No: 47 - 095 - 1331
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 William M. & Virginia A. Wozniak Address (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 Glen P. Robinson Address Rt 1 #6 Mt. Pleasant Est. Mineralwells, WV 26150 Telephone (304)-489-2736

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 26 day of September, 1989 [Signature] Notary Public My commission expires May 24, 1999