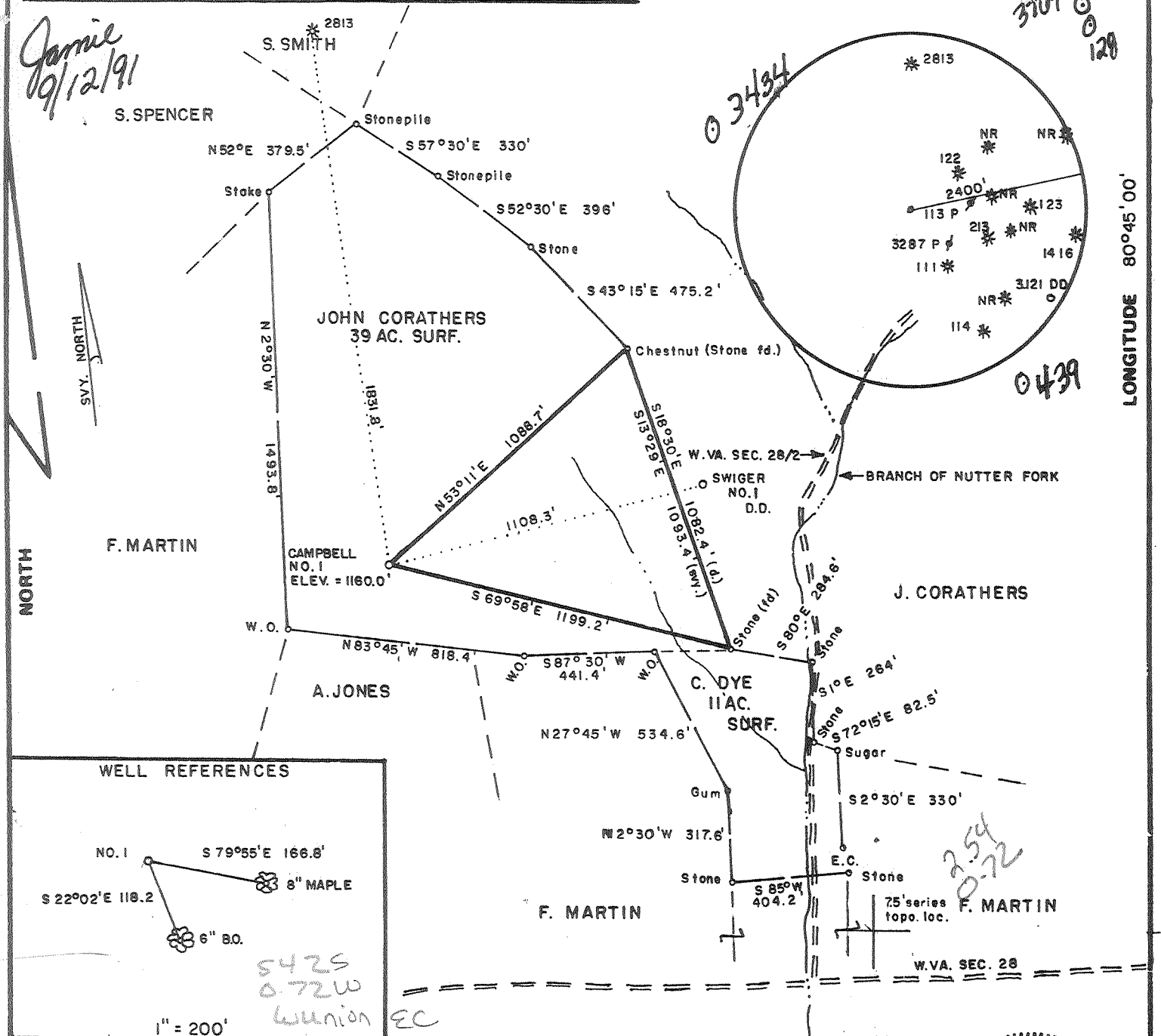


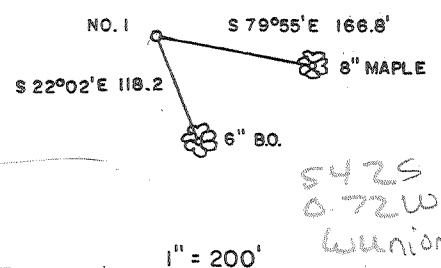
W. L. CAMPBELL LEASE 50 AC. ±

LATITUDE 39°22'30"

Jamie
9/12/91

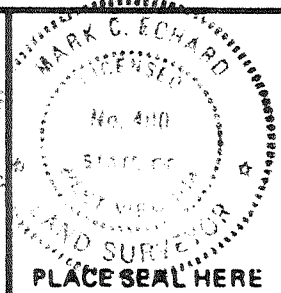


WELL REFERENCES



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Jct. of Rd. Sec. 28 & 28/2
2100' S. of Loc. Elev. 862'

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.
 (SIGNED) Mark C. Echard
 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 JUNE 8, 19 90
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017-3908
 STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT 3908

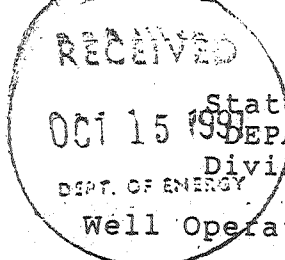
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1160.0' WATER SHED BRANCH OF NUTTER. FORK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER JOHN CORATHERS ACREAGE 39 of 50
 OIL & GAS ROYALTY OWNER R.J. BRADEN, et al LEASE ACREAGE 50
 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 5500 ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT MR. KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, W.V. 26320 ALMA, W.V. 26320

SEP 23 1991

6-6 Swiger (Flint Run) (097)



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

Review: TM6
Record: _____

Well Operator's Report of Well Work

Farm name: CORATHERS, JOHN E. Operator Well No.: CAMPBELL #1

LOCATION: Elevation: 1160.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 13210 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 3720 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 09/16/91
Well work Commenced: 9/21/91
Well work Completed: 10/1/91
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5410'
Fresh water depths (ft) 200'

Salt water depths (ft) 1600'
2000'

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			cts
8-5/8"	1327'	1327'	295 sks
4-1/2"		5220'	300 sks
			Poz

OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 5126'-5130'
Gas: Initial open flow 100 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 280 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1450 psig (surface pressure) after 48 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: DRILLING APPALACHIAN CORP.

By: Kenneth P. Mason
Date: 10/3/91

OCT 18 1991

Perforated at 5126'-5130' with 16 .039" shots
 Fraced with 668 bbls of gelled water, 10,000 # 80/100. 50,000# 20/
 Formation Break at 2850psi. avg psi 2349. avg rate. 22 bbl/min
 Nitrogen rate was 120 SCF/bbl INDI psi 1920

Permian		
Sands/Shales	Surface	500
Pennsylvanian		
Sands/Shales	500	2061
Big Lime	2062	2133
Keener Sand	2134	2142
Shale	2143	2145
Big Injun	2146	2256
Shale/Siltstone	2257	2403
Weir Sand	2404	2485
Shale/Siltstone	2486	2599
Gantz Sand	2600	2617
Shale/Siltstone	2618	2823
Gordon Sand	2824	2844
Shale/Siltstone	2845	3495
Warren	3496	3626
Shale/Siltstone	2627	4665
Riley	4666	4702
Shale/Siltstone	4703	5125
Benson Sand	5126	5130
Shale/Siltstone	5131	5410
TD		5410

12956

SEP 13 1991

DEPT. OF ENERGY

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

017-3708
Issued 09/16/91
Page 1 OF 1

Expires 09/16/93

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425' (8) 670
- 2) Operator's Well Number: CAMPBELL #1 3) Elevation: 1160
- 4) Well type: (a) Oil x/ or Gas x/
(b) If Gas: Production X/ Underground Storage /
Deep /435 Shallow x/
- 5) Proposed Target Formation(s): Benson/Riley
- 6) Proposed Total Depth: 5500± feet
- 7) Approximate fresh water strata depths: 570' 149'
- 8) Approximate salt water depths: 1339'
- 9) Approximate coal seam depths: 562'-565', 545-549', 711'-712'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

Newell

CASING AND TUBING PROGRAM

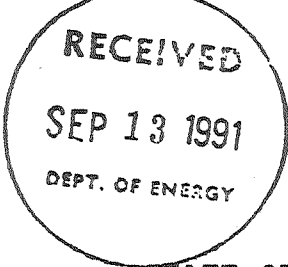
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	H-40	32#	30'	0	
Fresh Water						
Coal						
Intermediate	8 5/8"	J-55	20#	1275	1275	38CSR18-11.3
Production	4 1/2"	J-55	10 1/2#	5260	5260	38CSR18-11.2 2
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

1354
124



1) Date: April 30, 1991
2) Operator's well number
Campbell #1
3) API Well No: 47 - 017 - 3908
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>John E. Corathers</u>
Address <u>1400 Greenwood Dr.</u>
<u>Ruston, LA 71220</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>---</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name _____
Address _____</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rte. 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304) - <u>782-1043</u></p> | <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |

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 5 on the above named parties, by:

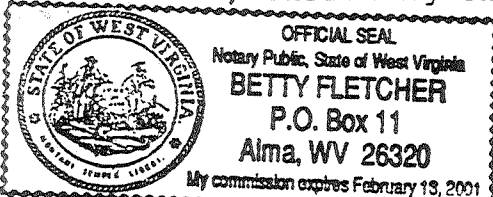
- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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: *Kenneth F. ...*
Its: President
Address P.O. Box 99
Alma, West Virginia 26320-0099
Telephone 304-758-4638



Subscribed and sworn before me this 30th day of April, 19 91

Betty Fletcher Notary Public
My commission expires February 13, 2001