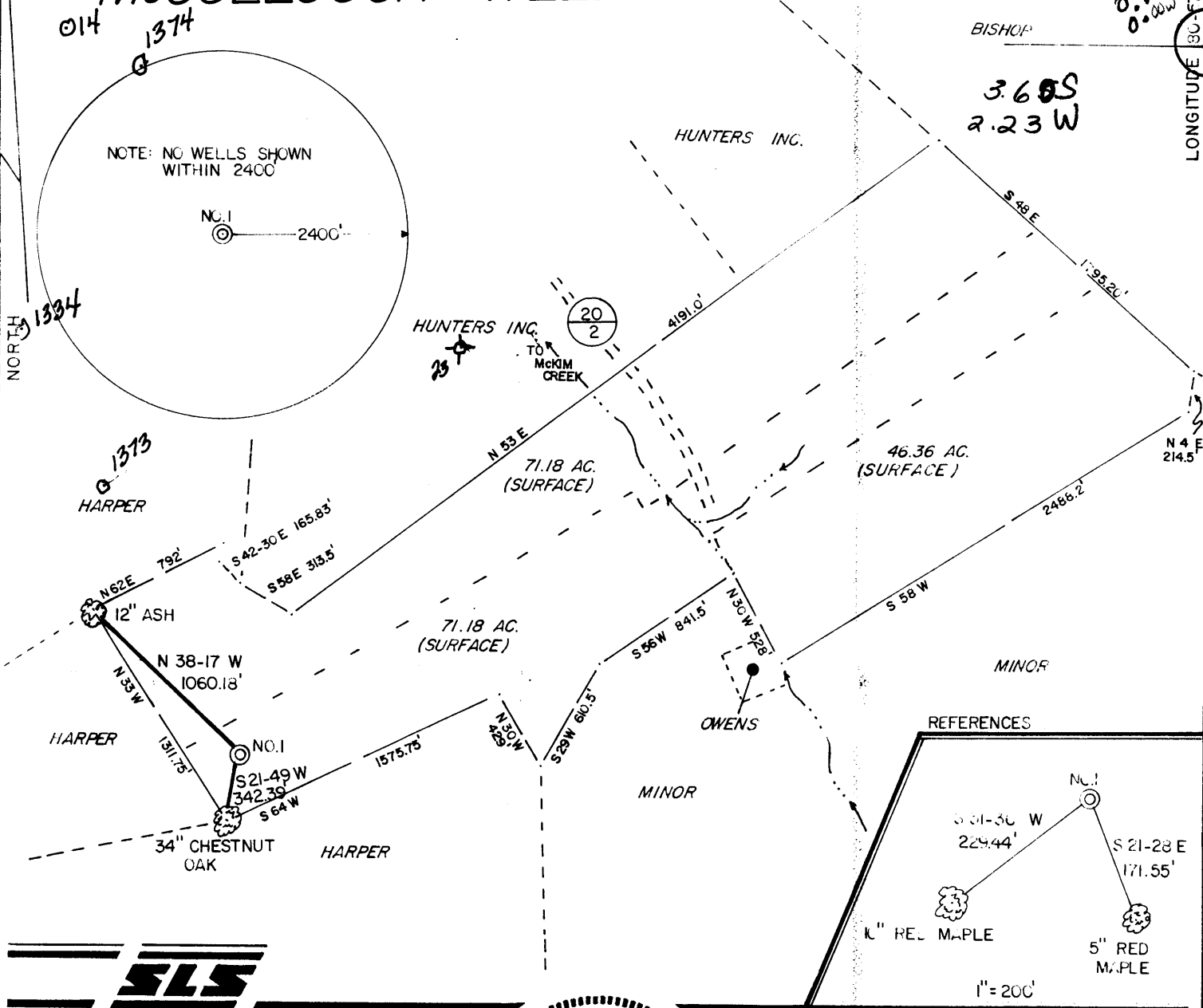


McCULLOUGH LEASE

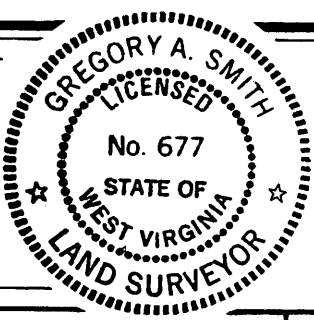
181 ACRES ± TOTAL

McCULLOUGH WELL NO. 1



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. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE FEBRUARY 27, 1990
OPERATORS WELL NO. McCULLOUGH NO. 1
API WELL NO. 47-095-1376
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2240 (30-70)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1338' 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 1121' WATERSHED CLINE RUN West Union WC
DISTRICT MEADE COUNTY TYLER QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER HUNTERS INC. ACREAGE 74.18
ROYALTY OWNER HAROLD & WILMA McCULLOUGH ET. AL. LEASE ACREAGE 74.18 OF 181

PROPOSED WORK: LEASE NO. _____
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 5300'

WELL OPERATOR CHESTERFIELD ENERGY CORP. 163 DESIGNATED AGENT SAMUEL J. CANN
ADDRESS 203 WEST MAIN ST. CLARKSBURG, WV. 26301 ADDRESS 203 WEST MAIN ST. CLARKSBURG, WV. 26301

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: HUNTERS, INC. Operator Well No.: McCULLOUGH #1

LOCATION: Elevation: 1121.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER
Latitude: 3880 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 30 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: CHESTERFIELD ENERGY CORP.
203 WEST MAIN STREET
CLARKSBURG, WV 26301-0000

Agent: SAMUEL J. CANN

Inspector: GLEN P. ROBINSON
Permit Issued: 03/16/90
Well work Commenced: 4/6/90
Well work Completed: 4/18/90
Verbal Plugging _____
Permission granted on: _____
Rotary XX Cable _____ Rig
Total Depth (feet) 5153'
Fresh water depths (ft) 105'
Salt water depths (ft) None

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		39'	
8 5/8		1147'	320 sks
4 1/2		5104'	200 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5010'-5018'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 298 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1300 psig (surface pressure) after 60 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: Samuel J. Cann
CHESTERFIELD ENERGY CORP.

MAY 16 90

By: Samuel J. Cann
Date: April 24, 1990

MAY 22 1990

Frac Information

Benson	8,000	80/100 Sand
	15,000	20/40 Sand
	744,000	75 Quality Foam
		SCF Nitrogen

Drilling Information

Dirt	0	75	
Red Rock	75	190	1/4" stream water @ 105'
Sand	190	214	
Red Rock	214	269	
Sand & Shale	269	910	Oil Damp @ 1620'
Red Rock	910	1054	
Sand & Shale	1054	1992	
Big Lime	1992	2070	Gas Ck @ 2064' No Show
Injun	2070	2218	Gas Ck @ 2997' No Show
Sand & Shale	2218	2438	Gas Ck @ 4934' No Show
Weir	2438	2520	
Sahle	2520	2990	
Gordon	2990	3005	
Shale	3005	3544	
Balltown	3544	3600	
Shale	3600	4645	
Riley	4645	4690	
Shale	4690	5010	
Benson	5010	5018	
Shale	5018	5153	
Logger TD	5153		

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

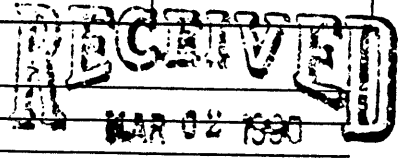
Issued 3/16/90
Expires 3/16/92

- 1) Well Operator: ¹⁶³ CHESTERFIELD ENERGY CORPORATION 9550 (4) 538
- 2) Operator's Well Number: McCULLOUGH WELL NO. 1 3) Elevation: 1121'
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5300' feet
- 7) Approximate fresh water strata depths: 150', 310'
- 8) Approximate salt water depths: N/A ², 1231', 1620' - 1631'
- 9) Approximate coal seam depths: N/A ¹ 16' - 17'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
11 1/2" 2/28/90						
Conductor	11-3/4"			30'	0'	0 Sacks
Fresh Water	8-5/8"			1150'	1150'	CTS or by 38 CSR 18-11.3
Coal						
Intermediate						
Production	4-1/2"			5300'	5300'	CTS or by 38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____



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

9150
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Security Agent
(Type)

RECEIVED
MAR 02 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: February 26, 1990
2) Operator's well number
McCULLOUGH WELL NO. 1
3) API Well No: 47 - 095 - 1376
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 Hunters Inc.
Address P.O. Box 368
New Martinsville, WV 26155
 - (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 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 XXX 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 7 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, Chesterfield Energy Corporation
By: [Signature]
Its: Vice President of Land & Contracts
Address 203 West Main Street
Clarksburg, WV 26301
Telephone 623 - 5467

Subscribed and sworn before me this 27th day of February, 1990

[Signature] Notary Public
My commission expires June 14, 1994