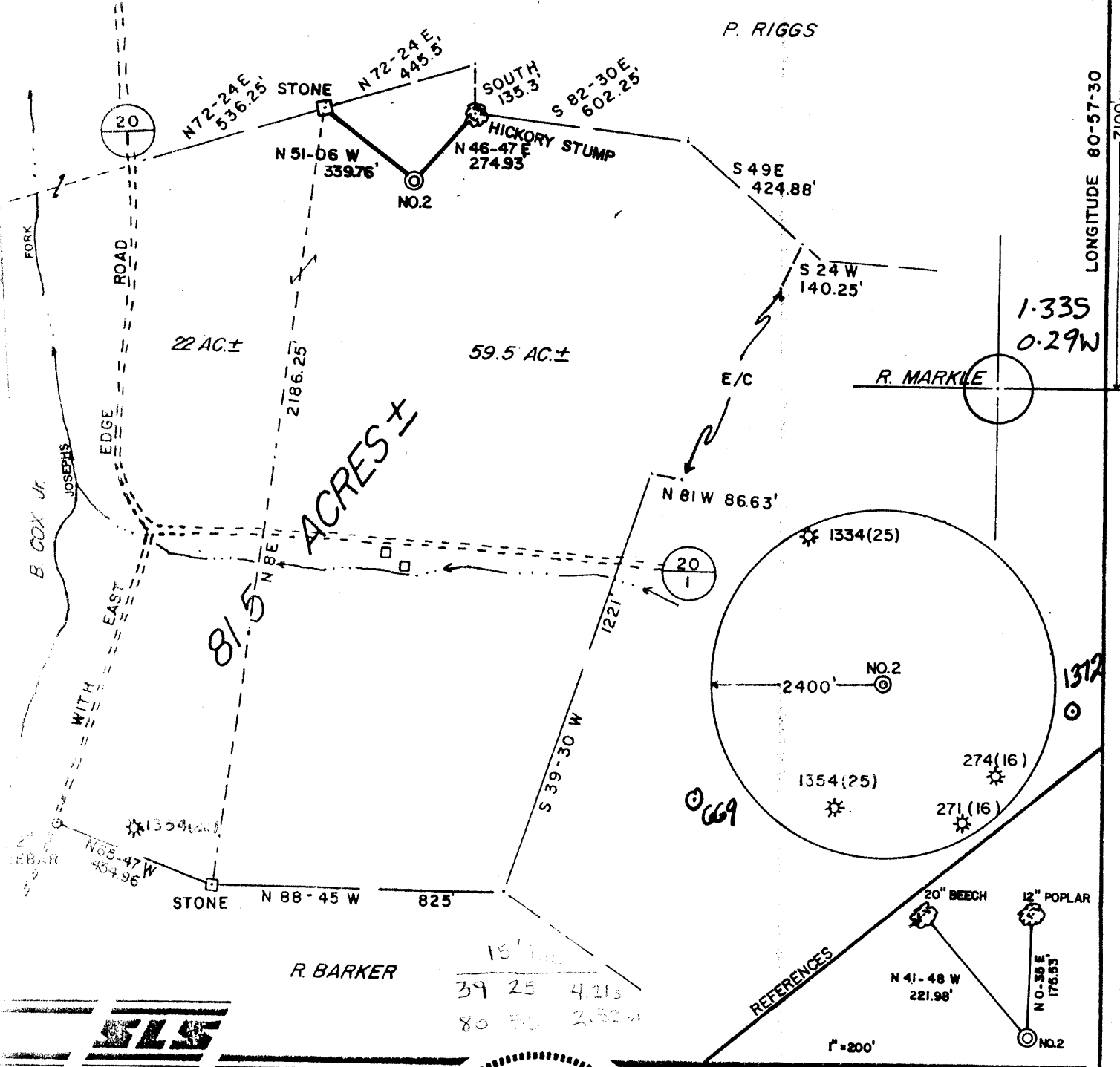


DATE 2/5/90

# RICHARDS LEASE WELL NO. 2

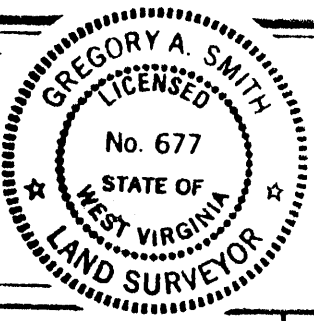
LATITUDE 39-22-30

1500'



LONGITUDE 80-57-30

1.335  
0.29W



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.

S. Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JANUARY 29, 19 90

OPERATORS WELL NO. RICHARDS NO. 2

API WELL NO. 47 - 095 - 1373  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2174 (30-26)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 837' SCALE 1" = 400'

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

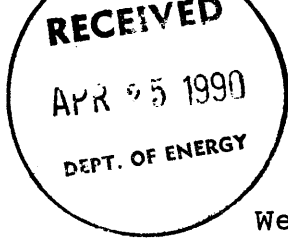
LOCATION: ELEVATION 1010' WATERSHED JOSEPHS FORK DISTRICT MEADE 4 COUNTY TYLER

SURFACE OWNER SYLVIA RICHARDS ACREAGE 81.5  
ROYALTY OWNER SYLVIA RICHARDS ET. AL. LEASE ACREAGE 81.5

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 5000'

WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANN  
ADDRESS 203 WEST MAIN ST., CLARKSBURG, WV ADDRESS 203 WEST MAIN ST. CLARKSBURG, WV  
6-6 Shilon-Wick (26301) 163 MAR 12 1990 26301

COUNTY NAME PERMIT



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

APR 23 90

Well Operator's Report of Well Work

Farm name: RICHARDS, SYLVIA

Operator Well No.: RICHARDS #2

LOCATION: Elevation: 1010.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER  
Latitude: 7100 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 1500 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: 03/06/90  
Well work Commenced: 3/22/90  
Well work Completed: 3/26/90  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary XX Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5036'  
Fresh water depths (ft) None  
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4		37'	
8 5/8		1107'	300 sks
4 1/2		4953'	200 sks

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 430' - 434'

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4874'-4881'  
Gas: Initial open flow 15 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 411 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1250 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.

Samuel J. Cann  
For: CHESTERFIELD ENERGY CORP.

By: \_\_\_\_\_  
Date: April 5, 1990

APR 27 1990

Frac Info:

Benson 75 Quality Foam  
45,000# 20/40 Sand  
8,000# 80/100 Sand  
530,000 SCF Nitrogen

-----  
Drilling Info:

Fill	0	77		
Sand & Shale	77	230		
Sand	230	430		
Coal	430	434		
Sand	434	980		
Red Rock	980	1495		
Sand	1495	1798		
Shale	1798	1860		
Big Lime	1860	1950		
Injun	1950	2020		
Sand & Shale	2020	2030		
Weir	2030	2363		
Sand & Shale	2363	2860	Gas Ck @ 2568'	4/10-2" w/w
Gordon	2860	2870	Gas Ck @ 4560'	2/10-2" w/w
Sand & Shale	2870	3428	Gas Ck @ TD	2/10-2" w/w
Balltown	3428	3452		
Shale	3452	4518		
Riley	4518	4552		
Shale	4552	4874		
Benson	4874	4881		
Shale	4881	5036		
TD	5036			

095 1373

Issued 3/6/90  
Expires 3/6/92

Page 3 of 7

FORM WW-2B

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

- 1) Well Operator: CHESTERFIELD ENERGY CORPORATION <sup>163</sup> 955° (4) 538
- 2) Operator's Well Number: RICHARDS WELL NO. 2 3) Elevation: 1010'
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson 43S
- 6) Proposed Total Depth: 5000 feet
- 7) Approximate fresh water strata depths: 105' , 192' , 207' , 434'
- 8) Approximate salt water depths: 1302' N/A? 1495' - 1527'
- 9) Approximate coal seam depths: Possible Coal Blossom N/A? 667' - 669'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

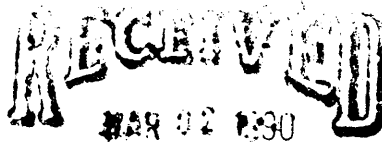
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<u>2 1/2" 1/20/90</u> Conductor	11-3/4"			30'	0'	0 Sacks
Fresh Water	8-5/8"			1160'	1160'	CTS <u>by 38</u> CSR 18-11.3
Coal						<u>38 CSR 18-11.3</u>
Intermediate						
Production	4-1/2"			5000'	5000'	CTS or by 38 CSR 18-11.1
Tubing						
Liners						

**RECEIVED**  
MAR 02 1990

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 Blanket sure  Agent  
 (Type)



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1)  
2)  
3)

Date: January 31st, 1990  
Operator's well number  
RICHARDS WELL NO. 2  
API Well No: 47 - 095 - 1373  
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 Sylvia Richards  
Address 107 West Penn Avenue  
Pennsboro, WV 26415  
(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 \_\_\_\_\_  
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  
XX 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: \_\_\_\_\_  
Address 203 West Main Street  
Clarksburg, WV 26301  
Telephone 623-5467

Subscribed and sworn before me this 19th day of February, 1990

[Signature]  
My commission expires

July 21, 1994

Notary Public