

*Jamie 1/6/89*  
**REED LEASE UNKNOWN**

LATITUDE 39°22'30"

KILTHAU  
1749'

*DOTSON et ux.*

SANDY

S 77 W

54 ACRES ± SUR.

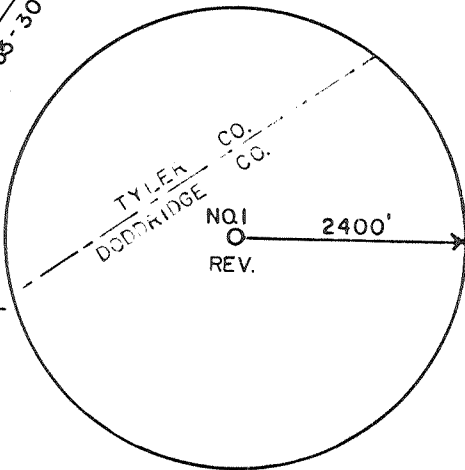
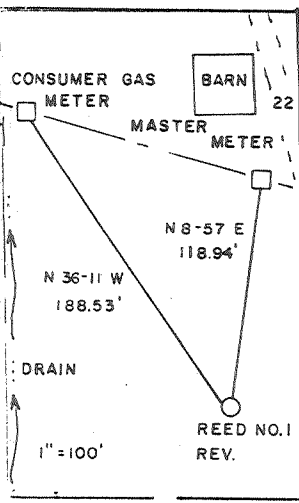
**104 AC ± SURFACE**

**158 AC ± TOTAL PITTS**

**WELL NO. 1 REV.**

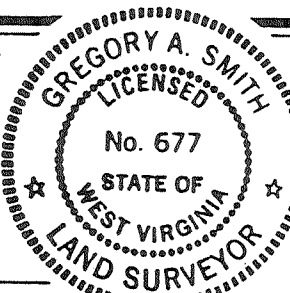
NORTH

LONGITUDE 80°45'00"



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 DECEMBER 21, 19 88  
OPERATORS WELL NO. REED NO. 1 REV.  
API WELL NO. 47-017-3688  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1936(27-6)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. = 812' SCALE 1" = 500'

**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 799' WATERSHED SANDY RUN  
DISTRICT GRANT 5 COUNTY DODDRIDGE

SURFACE OWNER BRADFORD D. REED et ux. QUADRANGLE WEST UNION 7.5' 671  
ROYALTY OWNER BRADFORD D. REED et ux. ACREAGE 104 OF 158 LEASE ACREAGE 104 OF 158

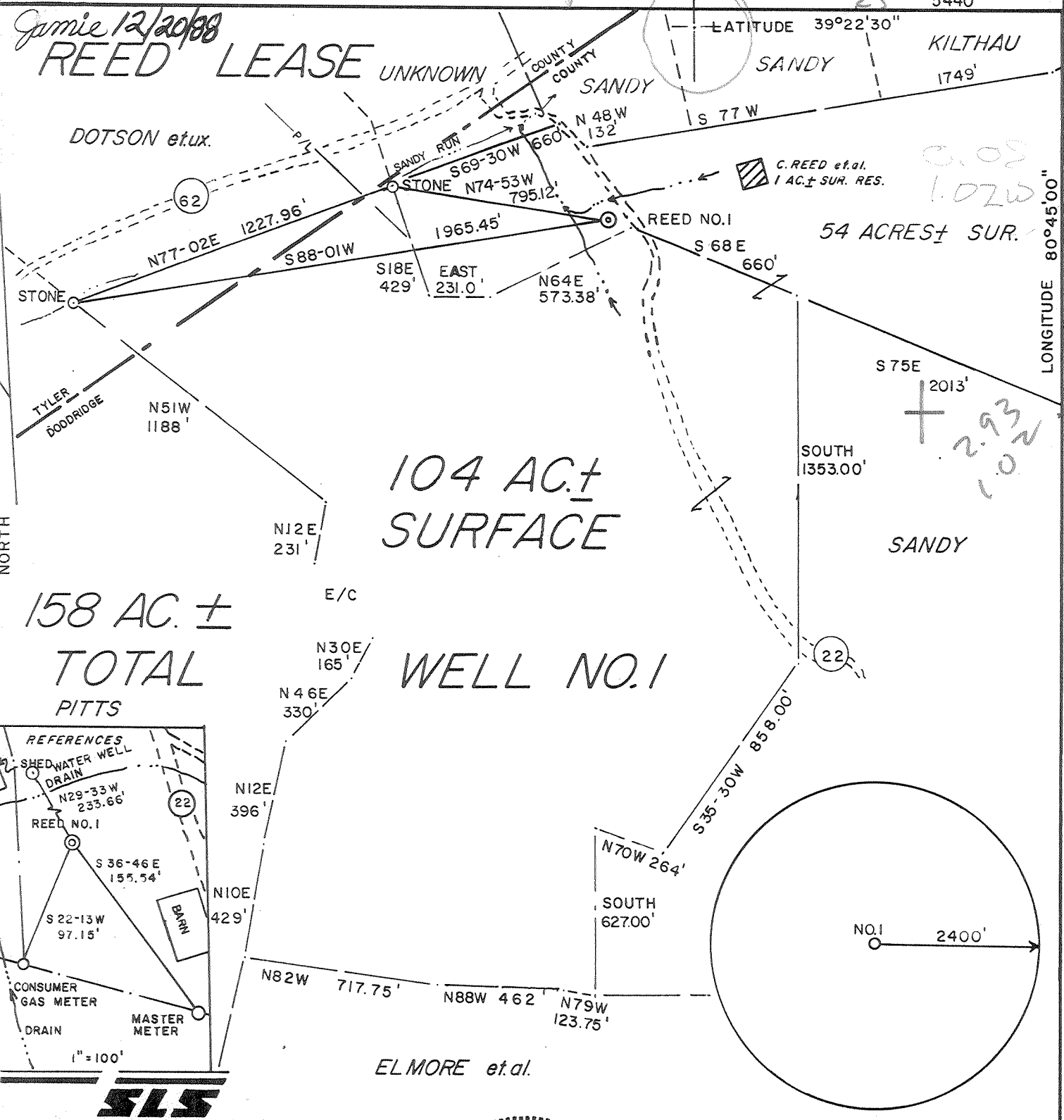
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON-ALEXANDER  
ESTIMATED DEPTH 5100'

WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANNIAN 06 1988  
ADDRESS 203 WEST MAIN STREET ADDRESS 203 WEST MAIN STREET  
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY NAME PERMIT

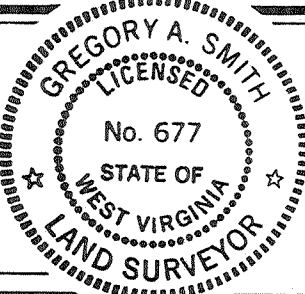
575

Janie 12/20/88  
**REED LEASE**



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 DECEMBER 15, 19 88  
 OPERATORS WELL NO. REED NO. 1  
 API WELL NO. 47-017-3688  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1936(27-6)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. = 812' SCALE 1" = 500'

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 798' WATERSHED SANDY RUN  
 DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5' 67

SURFACE OWNER BRADFORD D. REED et. ux. ACREAGE 54 OF 158  
 ROYALTY OWNER BRADFORD D. REED et. ux. LEASE ACREAGE 54 OF 158

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-ALEXANDER  
 ESTIMATED DEPTH 5100'

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

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

Well Operator's Report of Well Work

Farm name: REED, BRADFORD & SARAH Operator Well No.: REED 2

LOCATION: Elevation: 798.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE  
Latitude: 280 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 5440 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: SAMUEL J. CANN

Inspector: MIKE UNDERWOOD  
Permit Issued: 12/20/88  
Well work Commenced: 12/29/88  
Well work Completed: 1/05/89  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig  
Total Depth (feet) 4902  
Fresh water depths (ft) 18', 480'

Salt water depths (ft) \_\_\_\_\_

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.
8 5/8		1052'	225 sks
4 1/2		4885'	215 sks
<b>RECEIVED</b> JAN 24 1989			

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4795  
Gas: Initial open flow 267 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 832 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 48 Hours  
Static rock Pressure 1610 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: CHESTERFIELD ENERGY CORP.

By: \_\_\_\_\_  
Date: December 23, 1989

FEB 3 1989

Benson 4795' - 4800' (15 Holes)  
10,000# 80/100 Sand  
58,000# 20/40 Sand  
705 BBLs Water

Ground Level	0	12
Gravel & Clay	12	322
Sand & Shale	322	624
Red Rock	624	706
Shale	706	1000
Sand	1000	1710
Big Lime	1710	1766
Injun	1766	1922
Shale	1922	2070
Weir	2070	2155
Sand & Shale	2155	2558
Sand & Shale	2558	4350
Riley	4350	4360
Shale	4360	4792
Benson	4792	4802
Shale	4802	4905
TD	4905	

**RECEIVED**  
JAN 24 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

- 1) Well Operator: Chesterfield Energy Corporation **9550, 3, G70**
- 2) Operator's Well Number: Reed No. 1 3) Elevation: 793'
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson - Alexander
- 6) Proposed Total Depth: 5100 feet
- 7) Approximate fresh water strata depths: 50', 250'
- 8) Approximate salt water depths: 1543 N/A 1228', 1041'
- 9) Approximate coal seam depths: Assaulty @ 426' - 431' N/A
- 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.)
Conductor	11 3/4"			15'	0'	0 Sks.
Fresh Water	3 5/8"			1000'	1000'	CTS 33 CSR 13-11.3
Coal						38CSR18-11.22
Intermediate						
Production	4 1/2"			5050'	5050'	CTS or 33 CSR 13-11.1
Tubing						
Liners						

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 DEC 19 1988

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

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 50 Blanket  Agent  
 (Type)

8144

*Handwritten signatures and initials*

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DEC 19 1988

Page 1 of 7  
Form WW2-A  
(09/87)  
File Copy

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: December 14, 1988  
2) Operator's well number REED NO. 1  
3) API Well No: 47 - ~~XXXX~~ 017 3688  
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>Bradford &amp; Sarah Reed</u><br/>Address <u>Box 134</u><br/><u>Shirley, WV 26434</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>W/A</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration<br/>Name <u>W/A</u><br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration<br/>Name <u>N/A</u><br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Route 2, Box 135</u><br/><u>Salem, WV 26426</u><br/>Telephone (304)-<u>782-1043</u></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 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 Corp.  
By: [Signature]  
Its: Vice President Land and Contracts  
Address 203 West Main St.  
Clarksburg, WV 26301  
Telephone 304-623-5467

Subscribed and sworn before me this 14th day of December, 1988

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