

FORM IV-2(B)  
(Obverse)  
7-83

**RECEIVED**

FEB 8 - 1984



1) Date: January 4, 19 84  
 2) Operator's Criss No. 1  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 - 001 - 2032  
 State County Permit

**OIL & GAS DIVISION  
DEPT. OF MINES**

**STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas  /  
 B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow  /)
- 5) LOCATION: Elevation: 1746.6 Watershed: Barbour Stony Run  
 District: Cove County: Barbour Quadrangle: Colebank 7.5' (1976)
- 6) WELL OPERATOR Chesterfield Energy Corp. 7) DESIGNATED AGENT Stanley N. Pickens  
 Address 319-320 Professional Bldg. Address 319-320 Professional Bldg.  
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Phillip Tracy Name Unknown  
 Address General Delivery Address \_\_\_\_\_  
Ellamore, WV 26267
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 4550 feet
- 13) Approximate trata depths: Fresh, 250 feet; salt, 1700 feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No  /

**15) CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42		x	20	20		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	23	x		1150	1150	Circulate to surface NEAT 350 SX OR as req. by rule 15.01	Depths set
Production	4 1/2	J-55	10.5	x			4500		Perforations:
Tubing									Top Bottom
Liners									

**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-001-2032 Date February 28, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 87 Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 28, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B13</u>	Agent: <input checked="" type="checkbox"/> <u>MW</u>	Plat: <u>MW</u>	Casing <u>MW</u>	Fee <u>3300</u>
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*[Signature]*  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

2/24



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: \_\_\_\_\_  
 2) WELL OPERATOR: \_\_\_\_\_  
 3) DRILLING CONTRACTOR: \_\_\_\_\_  
 4) DESIGNATED AGENCY: \_\_\_\_\_  
 5) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_  
 6) APPROXIMATE DATE DEPTH REACHED: \_\_\_\_\_  
 7) APPROXIMATE HOUSING DEPTH: \_\_\_\_\_  
 8) CASING AND TUBING PROGRAM: \_\_\_\_\_

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	" "
Completion of the drilling process	" "
Well Record received	" "
Reclamation completed	" "

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

Board	Agent	Plan	County	Date
B/S	M/A	M/A	M/A	2/20/02

NOTE: Keep one copy of this permit posted at the drilling location

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code §§ 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

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INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
James W. Lohr, et al.	Explora Resources	1/8	97/283
Explora Resources	Chesterfield Energy Corp.		98/50

1) Date: February 6, 19 84  
2) Operator's Well No. Criss Well #1  
3) API Well No. 47 - 001.2032  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED  
(i) Name Marie Lohr Criss (1/2)  
Address Rt. #2, Box 179C  
Tunnelton, WV 26444  
(ii) Name James W. Lohr  
Address Box 365  
Smithfield, PA 15478  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_  
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name N/A  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

OIL & GAS DIVISION  
DEPT. OF MINES

FEB 8 - 1984

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by  
Stanley N. Pickens  
this 6th day of February, 19 84.  
My commission expires 12-21, 19 87.  
Linda M. Sendling  
Notary Public, Harrison County,  
State of W. Va.

WELL OPERATOR CHESTERFIELD ENERGY CORPORATION  
By Stanley N. Pickens  
Its President  
Address 320 Professional Bldg.  
Clarksburg, WV 26301  
Telephone (304) 623-5467

OIL & GAS DIVISION  
DEPT. OF MINES

RECEIVED  
FEB 8 - 1984

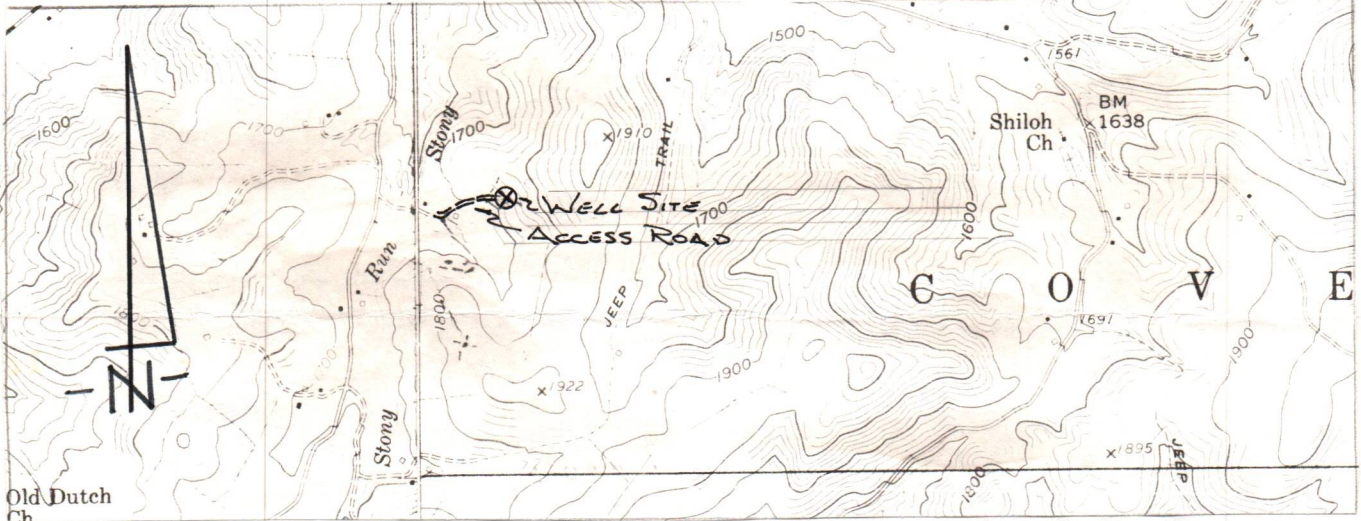
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE Nestorville 7.5' (1976)  
Colebank 7.5' (1976)

**LEGEND**

Well Site

Access Road

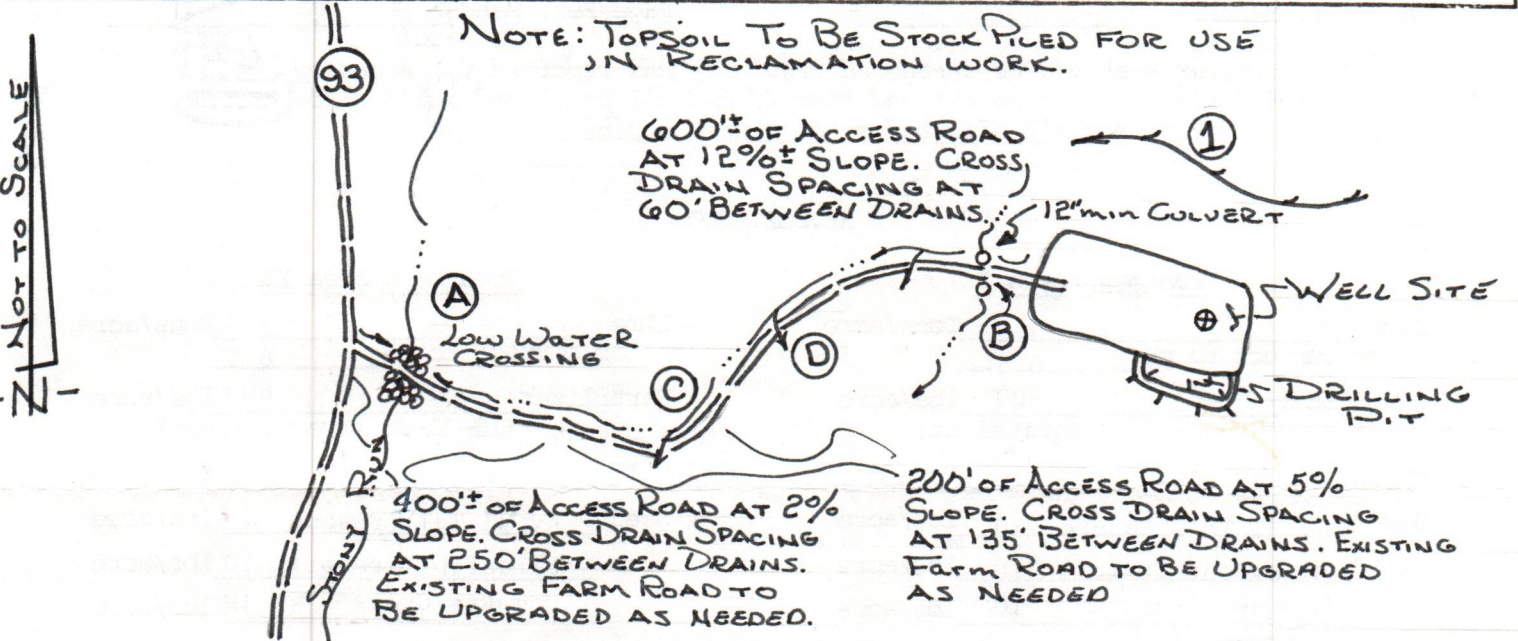


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

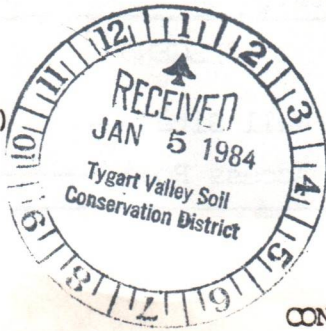
**LEGEND**

Property boundary	Diversion
Road	Spring
Existing fence	Wet spot
Planned fence	Building
Stream	Drain pipe
Open ditch	Waterway



Comments: Access to the well site will be gained by constructing approximately 600 feet of new access road and upgrading as needed 600 feet of existing farm road, beginning at a junction point in the Barbour County Route 93. The access road will be sloped at 2-3% towards the open ditch. All outlets of drainage structures and ditches will be to stable areas. The well location will be located in a flat cleared area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. Under most conditions, the preceding plan will be followed; however, due to lease restrictions, surface owner request and weather conditions, etc., the plan may be altered. Subsequently, the proper erosion and sediment control measures will be installed.

IV-9  
(Rev 8-81)



DATE January 4, 1984  
WELL NO. Criss No. 1  
API NO. 47 - 001 - 2032

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Chesterfield Energy Corp. DESIGNATED AGENT Stanley N. Pickens  
319-320 Professional Bldg. 319-320 Professional Bldg.  
Address Clarksburg, WV 26301 Address Clarksburg, WV 26301  
Telephone 623-5467 Telephone 623-5467  
LANDOWNER M. L. Criss et. al. SOIL CONS. DISTRICT Tygart Valley  
Revegetation to be carried out by Stanley N. Pickens (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 1/8/84 (Date)

Structure ACCESS ROAD  
Cross Drains  
Spacing As noted on sketch (D)  
Page Ref. Manual 2-20

Jean Freeman  
(SCD Agent)

LOCATION

Structure Low Water Crossing (A)  
Spacing Rock & Concrete  
Page Ref. Manual 2-20

Structure Diversion Ditch (1)  
Material Earth  
Page Ref. Manual 2-12 to 2-14

Structure Culvert (B)  
Spacing 12" Min. Steel  
Page Ref. Manual 2-7 to 2-8

Structure \_\_\_\_\_ (2)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure Drainage Ditch (C)  
Spacing Along access road  
Page Ref. Manual 2-12 to 2-15

Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime 3.0 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or straw 2.0 Tons/acre  
Seed\* Ky 31 Tall Fescue 40 lbs/acre  
Birdsfoot Trefoil 10 lbs/acre  
Dom Rye Grass 10 lbs/acre

Treatment Area II

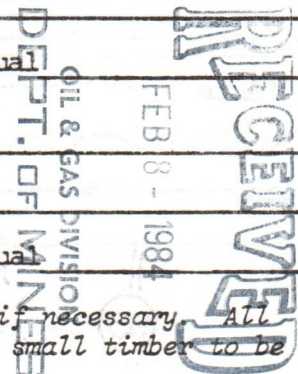
Lime 3.0 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or straw 2.0 Tons/acre  
Seed\* Ky 31 Tall Fescue 40 lbs/acre  
Birdsfoot Trefoil 10 lbs/acre  
Dom Rye Grass 10 lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY MSES Consultants

ADDRESS 609 West Main Street  
Clarksburg, WV 26301  
PHONE NO. 304-624-9700, 842-3325

NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.




RECEIVED  
FEB 8 - 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

No. 479846

RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

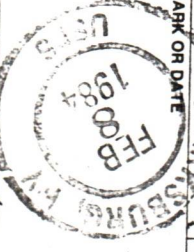
PS Form 3800, Apr. 1976

SENT TO Marie Lohr Criss STREET AND NO. Rt. #2, Box 179C P.O. STATE AND ZIP CODE Tunnelton, WV 26444		POSTAGE \$
CONSULT POSTMASTER FOR FEES		
OPTIONAL SERVICES		
CERTIFIED FEE		¢
SPECIAL DELIVERY		¢
RESTRICTED DELIVERY		¢
SHOW TO WHOM AND DATE DELIVERED		¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 1.89
POSTMARK OR DATE		

No. 479847

RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

PS Form 3800, Apr. 1976

SENT TO James W. Lohr STREET AND NO. Box 365 P.O. STATE AND ZIP CODE Smithfield, PA 15478		POSTAGE \$
CONSULT POSTMASTER FOR FEES		
OPTIONAL SERVICES		
CERTIFIED FEE		¢
SPECIAL DELIVERY		¢
RESTRICTED DELIVERY		¢
SHOW TO WHOM AND DATE DELIVERED		¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 1.89
POSTMARK OR DATE		



State of West Virginia

Department of Mines

Charleston 25305

May 2, 1984

JOHN D. ROCKEFELLER, IV.  
Governor

WALTER N. MILLER  
Director

Chesterfield Energy Corporation  
319-320 Professional Building  
Clarksburg, W.Va. 26301

In Re: Permit No.	<u>001-2032</u>
Farm:	<u>Marie Lohr Criss</u>
Well No:	<u>1</u>
District:	<u>Cove</u>
County:	<u>Barbour</u>
Issued	<u>2-28-84</u>

Gentlemen:

Please send an original and two copies of the completion drilling record for the above described well location. This record must be submitted before we can request the district inspector to make a "Final Inspection".

Administrative Regulations - Rule 16.02 Filing of Well Record and Related Forms.

(a) Within 90 days after the completion of permitted work, three copies of Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", containing the geological information required by Code 22-4-8b in the form specified . . . . . shall be filed with the Administrator, Office of Oil & Gas-Dept. Mines.

Sincerely,

Theodore M. Streit  
Administrator-Oil & Gas

TMS/chm

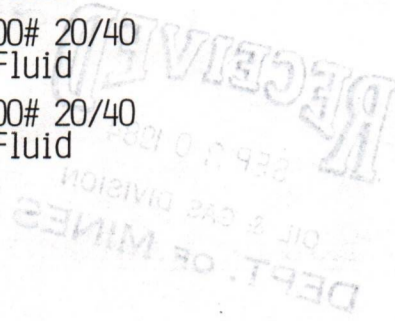


DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander & Benson 10,000# 80/100; 23,450# 20/40  
530 BBLs Sand Laden Fluid

Balltown & Speechley 10,000# 80/100; 35,000# 20/40  
718 BBLs Sand Laden Fluid

5th Sand 10,000# 80/100; 32,000# 20/40  
715 BBLs Sand Laden Fluid



WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	40	
Sand & Shale			40	60	
Coal			60	64	1/2" stream water @ 62'
Sand & Shale			64	536	
Coal			536	539	
Sand & Shale			539	972	
Shale			972	1013	
Sand & Shale & Red Rock			1013	1445	
Little Lime			1445	1465	
Sand & Shale			1465	1520	
Big Lime			1520	1632	
Big Injun			1632	1730	1 1/2" stream salt water @ 1760'
Sand & Shale			1730	1754	
Sand			1754	1780	
Sand & Shale			1780	2630	Gas Ck @ 1907' No Show-oil odor
Fifth Sand			2630	2660	Gas Ck @ 2593' No Show
Sand & Shale			2660	2796	stream oil @ 2662'
Elizabeth			2796	2822	stream oil @ 3365'
Sand & Shale			2822	3196	Gas Ck @ 3314' No Show
Speechley			3196	3254	Gas Ck @ 3717' No Show
Sand & Shale			3254	3380	Gas Ck @ 4338' 12/10-1/2" w/w
Balltown			3380	3410	Gas Ck @ 4526' 12/10-1/2" w/w
Sand & Shale			3410	4146	Gas Ck @ 4651' 10/10-1/2" w/w
Benson			4146	4168	Gas Ck @ 4806' 10/10-1/2" w/w
Sand & Shale			4168	4440	Gas Ck 20 jts, down off bottom
Alexander			4440	4480	12/10-1/2" w/w
Sand & Shale			4480	4653	
Second Elk			4653	4692	
Sand & Shale			4692	5448	
Haverty			5448	5502	
Sand & Shale			5502	5695	
TD			5695		

(Attach separate sheets as necessary)

Chesterfield Energy Corporation

Well Operator

By:

*Stanley N. Fickens*

Date: September 7, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



IV-35  
(Rev 8-81)

Date September 7, 1984  
Operator's  
Well No. Criss #1 Well  
Farm \_\_\_\_\_  
API No. 47 - 001 - 2032

**RECEIVED**  
SEP 20 1984

State of West Virginia  
Department of Mines  
Oil and Gas Division

**OIL & GAS DIVISION** WELL OPERATOR'S REPORT  
**DEPT. OF MINES** OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas XX / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production XX / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1746.6' Watershed Stony Run  
District: Cove County Barbour Quadrangle Colebank 7.5'

COMPANY Chesterfield Energy Corporation  
ADDRESS 320 Professional Building, Clarksburg, WV 26301  
DESIGNATED AGENT Stanley N. Pickens, President  
ADDRESS 320 Professional Building, Clarksburg, WV 26301  
SURFACE OWNER Marie Lohr Criss  
ADDRESS Rt. #2, Box 179-C, Tunnelton, WV 26444  
MINERAL RIGHTS OWNER Marie Lohr Criss  
ADDRESS Rt. #2, Box 179-C, Tunnelton, WV 26444  
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy ADDRESS Gen. Del., Ellamore, WV  
PERMIT ISSUED February 28, 1984  
DRILLING COMMENCED August 27, 1984  
DRILLING COMPLETED September 3, 1984  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
<del>11 3/4</del>	16'	pulled	
9 5/8			
8 5/8	1182.30'	1182.30'	290 sks
7			
5 1/2			
4 1/2		4540'	435 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander & Benson, Balltown & Speechley, 5th Sand Depth \_\_\_\_\_ feet  
Depth of completed well 5695 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 62', 1760' feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 60'-64', 536'-539' Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Alexander & Benson Pay zone depth 4264'-4465' feet  
Gas: Initial open flow 18.25 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 350 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 850 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Balltown & Speechley Pay zone depth 3102'-3231' feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
Third Pro. Form 5th Sand Pay Zone Depth 2653'-2657' (Continue on reverse side)

BAK 2032

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED  
AUG 23 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Chesterfield</u> Address _____ Farm <u>- Criss -</u> Well No. <u>#1</u> District _____ County <u>001</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____
	16			
	13			Size of _____
	10			
	8 1/4			Depth set _____
	6 5/8			
	5 3/16			Perf. top _____
	3			Perf. bottom _____
	2			Perf. top _____
Liners Used			Perf. bottom _____	
CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ NAME OF SERVICE COMPANY _____ COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES				

Drillers' Names \_\_\_\_\_

Remarks:

Start Road & location

8/21/84  
DATE

RG Beall - 501

DISTRICT WELL INSPECTOR

2/16/82

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF MINES**  
**OIL AND GAS WELLS DIVISION**  
**INSPECTOR'S PLUGGING REPORT**

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks:

\_\_\_\_\_ I hereby certify I visited the above well on this date.

DATE

\_\_\_\_\_ DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED  
AUG 29 1984

OIL & GAS DIVISION  
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Chertuficia</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>CAISS</u>	16			Kind of Packer _____
Well No. <u>#1</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced <u>8/27/84</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union #15

Remarks: Rig on - spud -

8/27/84  
DATE

RG Peall - 501  
DISTRICT WELL INSPECTOR

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AUG 3 9 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_ Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
DATE

\_\_\_\_\_ DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED  
SEP 4 - 1984

INSPECTOR'S WELL REPORT  
DEPT. OF MINES

Permit No. 001-2032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Chesterfield</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Cris</u>	13			
Well No. <u>#1</u>	10			Size of _____
District _____ County <u>001</u>	8 5/8	1185'	1185'	<u>2709AC</u>
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union Rig #15

Remarks: Hole - 1222' - Ran 1185' 8 5/8" set  
Shut down for cement to set

8/29/84  
DATE

RL Bruce 501  
DISTRICT WELL INSPECTOR

2/16/82

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
 DATE

\_\_\_\_\_  
 DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED  
SEP 4 - 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 001-2032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Chestnut</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Opri's</u>	13			
Well No. <u>#1</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union - Rig #15

Remarks: Dug @ 3394 - Carrying salt water from 1700

9/31/84  
DATE

RG Beane - 501 -  
DISTRICT WELL INSPECTOR

2/16/82

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SEP 4 - 1984

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION  
INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner		Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED				BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD		CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
DATE

\_\_\_\_\_  
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

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SEP 10 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2032

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Chesterfield</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Cross</u>	16			Kind of Packer _____
Well No. <u>#1</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>5/5 -</u> Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Union #15

Remarks: HAS TD - ~~INTEREST~~ RAW 4 1/2 -  
Rig still out -

9/6/84  
DATE

RG Reall  
DISTRICT WELL INSPECTOR

Form 26  
2/16/82

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks:

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
DATE

\_\_\_\_\_  
DISTRICT WELL INSPECTOR



State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
October 22, 1984

**RECEIVED**  
JUL 16 1985  
OIL & GAS DIVISION  
DEPT. OF MINES

COMPANY Chesterfield Energy Corp.

PERMIT NO 001-2032 (2-28-84)

320 Professional Building

FARM & WELL NO Marie Lohr Criss #1

Clarksburg, West Virginia 26301

DIST. & COUNTY Cove/Barbour

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

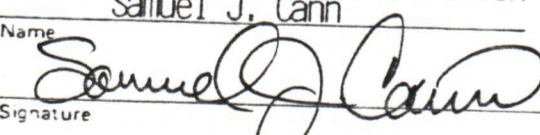
SIGNED Wadd R. Ellis

DATE 7-10-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. v. B.  
Administrator-Oil & Gas Division

August 1, 1985  
DATE

1.0 API well number (If not available, leave blank. 14 digits.)	47-001-2032												
2.0 Type of determination being sought: (Use the codes found on the front of this form!)	103 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5695 feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<div style="text-align: right; font-weight: bold; font-size: small;">OIL &amp; GAS DIV DEPT. OF MINES</div> Chesterfield Energy Corporation Name 320 Professional Building Street Clarksburg WV 26301 City State Zip Code												
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Criss #1 Well Field Name Barbour County WV County State												
(b) For OCS wells:	Not Applicable Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number												
(c) Name and identification number of this well: (35 letters and digits maximum.)	Criss #1 Well 47-001-2032												
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Not Applicable												
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tenneco Name Buyer Code												
(b) Date of the contract:	04, 19, 84 Mo. Day Yr.												
(c) Estimated annual production:	_____ MMcf.												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:35%;">(a) Base Price (\$/MMBTU)</th> <th style="width:15%;">(b) Tax</th> <th style="width:20%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:30%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td>2.925</td> <td>.292</td> <td>---</td> <td>3.217</td> </tr> <tr> <td>2.925</td> <td>.292</td> <td>---</td> <td>3.217</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.925	.292	---	3.217	2.925	.292	---	3.217
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.925	.292	---	3.217										
2.925	.292	---	3.217										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:35%;">(a) Base Price (\$/MMBTU)</th> <th style="width:15%;">(b) Tax</th> <th style="width:20%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:30%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td>2.925</td> <td>.292</td> <td>---</td> <td>3.217</td> </tr> <tr> <td>2.925</td> <td>.292</td> <td>---</td> <td>3.217</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.925	.292	---	3.217	2.925	.292	---	3.217
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.925	.292	---	3.217										
2.925	.292	---	3.217										
9.0 Person responsible for this application:	Chesterfield Energy Corporation Samuel J. Cann V.P. Land & Contracts Name Title  Signature September 19, 1984 (304) 623-5467 Date Application is Completed Phone Number												

RECEIVED

SEP 21 1984

OIL & GAS DIV  
DEPT. OF MINES

SEP 21 1984

OCT 15 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Sept. 19, 19 84

AGENCY USE ONLY

Applicant's Name: Chesterfield Energy Corporation

WELL DETERMINATION FILE NUMBER

Address: 320 Professional Building  
Clarksburg, WV 26301

840921 -103 -001 -2032

Gas Purchaser Contract No. 1481

Use Above File Number on all  
Communications Relating to This Well

Date of Contract April 19, 1984  
(Month, day and year)

First Purchaser: Tenneco Attn: Kathy Schooley

Designated Agent: Samuel J. Cann

Address: P. O. Box 2511  
(Street or P.O. Box)  
Houston, TX 77001  
(City) (State) (Zip Code)

Address: 320 Professional Building  
Clarksburg, WV 26301

FERC Seller Code 003449

FERC Buyer Code \_\_\_\_\_

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL  
BE ADDRESSED:

Name: Samuel J. Cann (Print) Vice President Land & Contracts (Title)

Signature: *Samuel J. Cann*

Address: 320 Professional Building  
(Street or P.O. Box)  
Clarksburg, WV 26301  
(City) (State) (Zip Code)

Telephone: (304) 623-5467  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
  - XX 103 New Onshore Production Well
- 107 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

**QUALIFIED**

RECEIVED

SEP 21 1984

OIL & GAS DIV.  
DEPT. OF MINES

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

Operator's Well No. Criss #1 Well  
API Well No. 47 - 001 - 2032  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
MGPA Section 103

DESIGNATED AGENT Samuel J. Cann  
ADDRESS 320 Professional Building  
Clarksburg, WV 26301

WELL OPERATOR Chesterfield Energy Corp.  
ADDRESS 320 Professional Building  
Clarksburg, WV 26301

LOCATION Elevation 1746.6'  
Watershed Stony Run  
Dist Cove County Barbour Quad Colebank

GAS PURCHASER Tenneco Attn: Kathy Schooley  
ADDRESS P. O. Box 2511  
Houston, TX 77001

Gas Purchase Contract No. 1481  
Meter Chart Code N/A  
Date of Contract April 19, 1984

Date surface drilling was begun: August 27, 1984

Indicate the bottom hole pressure of the well and explain how this was calculated

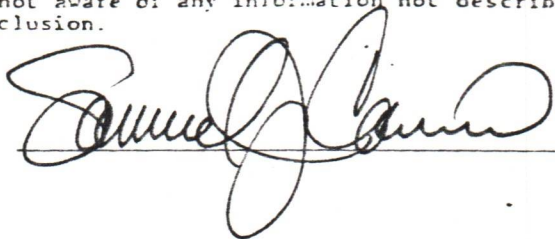
$$P_2 = \frac{P_1 T_2}{T_1} = \frac{(\text{Surface Pressure})(\text{Bottom Hole Pressure})}{(\text{Surface Temperature})} = \text{B.H.P.}$$

$$\text{BHP} = P_1 + P_1 (e^X - 1)$$

$$\begin{aligned} P_1 &= 850 & X &= \text{GL}/53.34T \\ G &= .65 & \text{BHP} &= \\ T &= & & \end{aligned}$$

AFFIDAVIT

I, Samuel J. Cann, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977, the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.



STATE OF WEST VIRGINIA,

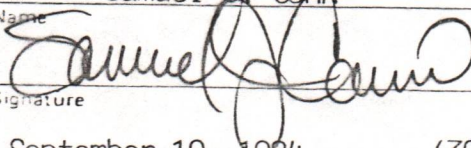
COUNTY OF Harrison TO WIT:

I, Brenda Drummond, a Notary Public in and for the state and county aforesaid, do certify that Samuel J. Cann whose name is signed to the writing above, bearing date the 19 day of September, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 19 day of September, 1984. My term of office expires on the 14th day of June, 1994.

[NOTARIAL SEAL]

Brenda Drummond  
Notary Public



1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2032			
2.0 Type of determination being sought: (Use the codes found on the front of this form!)	107 Section of NGPA		- Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5695 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Chesterfield Energy Corporation Name 320 Professional Building Street Clarksburg City		WV State	26301 Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Criss #1 Well Field Name Barbour County County		WV State	
(b) For OCS wells:	Not Applicable Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Criss #1 Well		47-001-2032	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Not Applicable			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tenneco Name		- Buyer Code	
(b) Date of the contract:	04, 19, 84 Mo. Day Yr.			
(c) Estimated annual production:	MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.850	.585	---	6.435
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.850	.585	---	6.435
9.0 Person responsible for this application:	Chesterfield Energy Corporation			
Agency Use Only	Samuel J. Carr Name		V.P. Land & Contracts Title	
Date Received by Juris. Agency	 Signature			
SEP 21 1984 Date Received by FERC	September 19, 1984 Date Application is Completed		(304) 623-5467 Phone Number	

OCT 15 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Sept. 19, 19 84

AGENCY USE ONLY

*Dev.*

Applicant's Name: Chesterfield Energy Corporation

WELL DETERMINATION FILE NUMBER

Address: 320 Professional Building  
Clarksburg, WV 26301

840921 -107 -001 -2032

Gas Purchaser Contract No. 1481

Use Above File Number on all  
Communications Relating to This Well

Date of Contract April 19, 1984  
(Month, day and year)

First Purchaser: Tenneco Attn: Kathy Schooley

Designated Agent: Samuel J. Cann

Address: P. O. Box 2511  
(Street or P.O. Box)  
Houston, TX 77001  
(City) (State) (Zip Code)

Address: 320 Professional Building  
Clarksburg, WV 26301

FERC Seller Code 003449

FERC Buyer Code \_\_\_\_\_

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL  
BE ADDRESSED:

Name: Samuel J. Cann (Principal) Vice President Land & Contracts (Title)

Signature: *Samuel J. Cann*

Address: 320 Professional Building  
(Street or P.O. Box)  
Clarksburg, WV 26301  
(City) (State) (Zip Code)

Telephone: (304) 623-5467  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
  - 103 New Onshore Production Well
- 107 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - XX 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

**QUALIFIED**

**RECEIVED**

SEP 21 1984

OIL & GAS DIV.  
DEPT. OF MINES

Operator's  
Well No. Criss #1 Well

API Well No.  
47 - 001 - 2032  
State County Permit

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE  
NGPA Section 107

DESIGNATED AGENT Samuel J. Cann, VP Land & Contr

ADDRESS 320 Professional Building  
Clarksburg, WV 26301

LOCATION Elevation 1746.6'

Watershed Stony Run

Dist. Cove County Barbour Quad. Colebank

Gas Purchase  
Contract No. 1481

Meter Chart Code N/A

Date of Contract April 19, 1984

WELL OPERATOR Chesterfield Energy Corp.

ADDRESS 320 Professional Building  
Clarksburg, WV 26301

GAS PURCHASER Tenneco Attn: Kathy Schooley

ADDRESS P. O. Box 2511  
Houston, TX 77001

\* \* \* \* \*

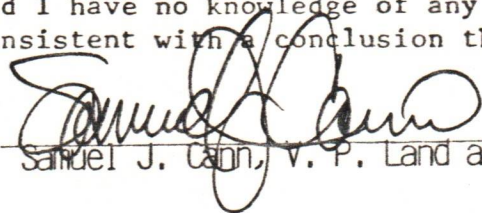
Date surface drilling began: August 27, 1984

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$\begin{aligned} \text{BHP} &= P_1 + P_1 (e_x - 1) \\ P_1 &= 850 \\ G &= .65 \\ T &= 527 \\ X &= GL/53.34T \\ \text{BHP} &= 1366.22' \end{aligned}$$

AFFIDAVIT

I, Samuel J. Cann, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

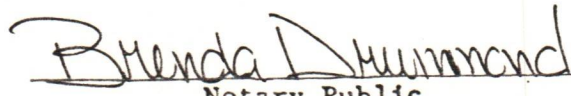
  
Samuel J. Cann, V. P. Land and Contracts

STATE OF WEST VIRGINIA

COUNTY OF Harrison, TO-WIT:

I, Brenda Drummond, a Notary Public in and for the state and county aforesaid, do certify that Samuel J. Cann, whose name is signed to the writing above, bearing date the 19th day of September, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 19th day of September, 19 84.  
My term of office expires on the 14th day of June, 19 94.

  
Notary Public

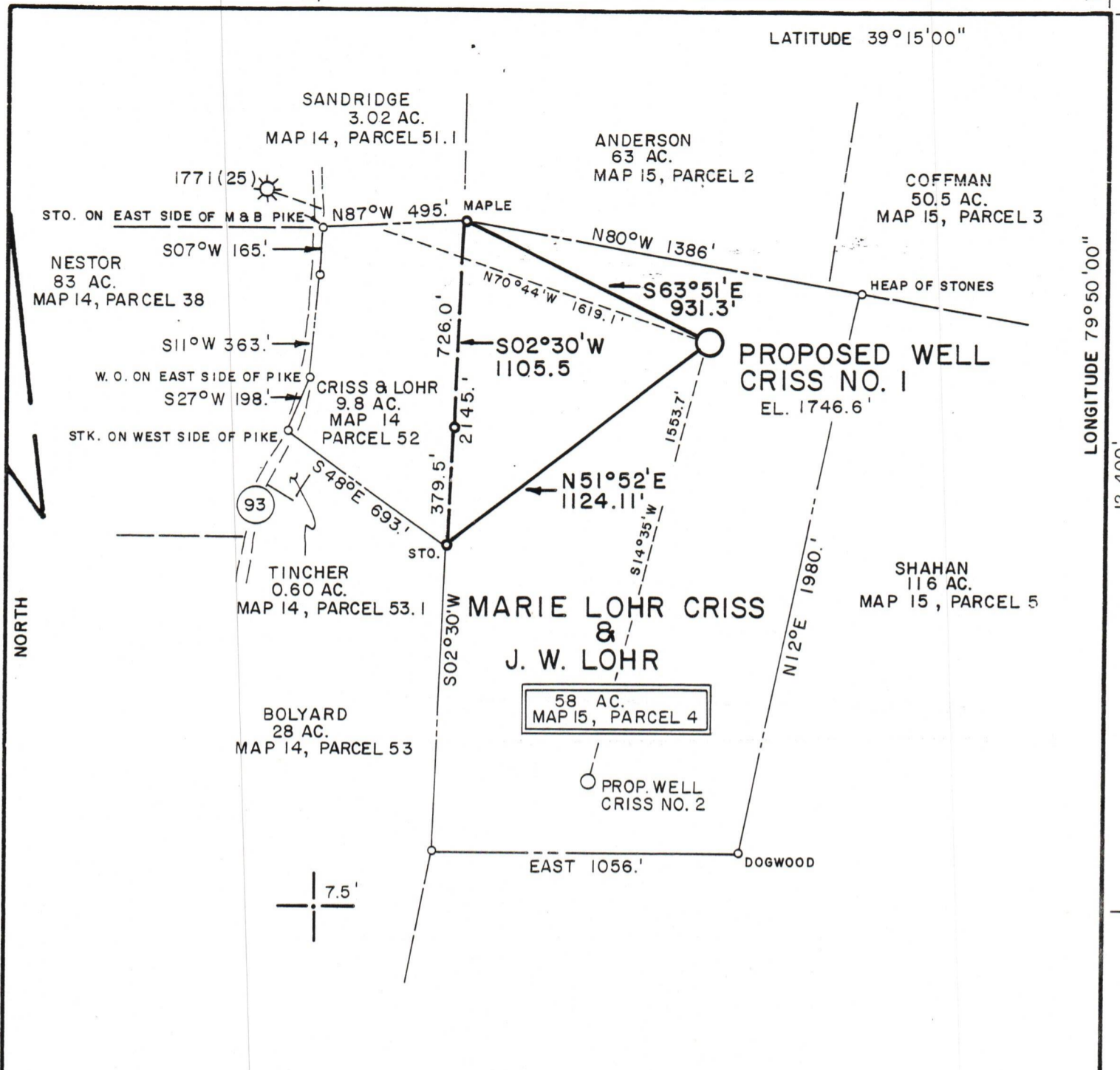
(NOTARIAL SEAL)



10,880'

LATITUDE 39°15'00"

LONGITUDE 79°50'00"



PREPARED BY MSES CONSULTANTS.

FILE NO. MSES-84-267  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION INT. CO. RTS. 3 & 3/2, 3,150' EAST OF KASSON, EL. 1507.

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) Loan J. Bailul  
 R. P. E. \_\_\_\_\_ L. L. S. 652

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE JANUARY 4, 19 84  
 OPERATOR'S WELL NO. CRISS NO. 1  
 API WELL NO. 47-001-2032  
 STATE COUNTY PERMIT

Department of Mines  
 Oil & Gas Division

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1746.6' WATER SHED STONY RUN  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE COLEBANK 7.5' (1976)  
 SURFACE OWNER MARIE LOHR CRISS & J. W. LOHR ACREAGE 58 AC.  
 OIL & GAS ROYALTY OWNER MARIE LOHR CRISS, ET AL LEASE ACREAGE 68  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X 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 ALEXANDER ESTIMATED DEPTH 4550.'  
 WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT STANLEY N. PICKENS  
 ADDRESS 319-320 PROFESSIONAL BLDG. CLARKSBURG, WV 26301 ADDRESS 319-320 PROFESSIONAL BLDG. CLARKSBURG, WV 26301