



1) Date: March 13, 1984  
 2) Operator's Well No. Tacy No. 2  
 3) API Well No. 47 - 001 - 2046  
 State County Permit

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: 1569.10' Watershed: Laurel Creek  
 District: Cove County: Barbour Quadrangle: Nestorville 7.5' (1976)  
 6) WELL OPERATOR Chesterfield Energy Corporation 7) DESIGNATED AGENT Stanley N. Pickens  
 Address 319-320 Professional Building Address 319-320 Professional Building  
Clarksburg, WV 26301 Clarksburg, WV 26301  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Phillip Tacy 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, 4350 feet  
 13) Approximate trata depths: Fresh, -- feet; salt, -- feet.  
 14) Approximate coal seam depths: 70, 390 Is coal being mined in the area? Yes \_\_\_\_\_ / No  /

**RECEIVED**  
 APR 6 - 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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		1100	1100	Circulate to surface NEAT by rule 1501	Depths set
Production	4-1/2"	J-55	10.5	X			4300		
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-001-2046 Date May 3, 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. 8) 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 May 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

<b>BLANKET</b>	Agent: <u>LS</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>3573</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.





OFFICE USE ONLY

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

RECEIVED

APR 6 - 1984

DEPT. OF MINES OIL & GAS DIVISION

Casing or Tubing Type	Specifications			Footage Intervals		Cement Bullets (Casing Only)	Factors
	Use	Class	Weight	From Well	To Surface		
Conductor	2 1/2"	8-60	42	20'	20'		
Intermediate	4 1/2"	13-55	103	1100'	1100'		
Production	4 1/2"	13-55	103	1300'	1300'		

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

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

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

Agent	Plan	Casing	Ice
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1) Date: March 13, 1984  
 2) Operator's Well No. Tacy No. 2  
 3) API Well No. 47-001  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**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: 1569.10' Watershed: Laurel Creek  
 District: Cove County: Barbour Quadrangle: Heaterville 7.5' (1976)
- 6) WELL OPERATOR Chesterfield Energy Corporation 7) DESIGNATED AGENT Stanley H. Pickens  
 Address 319-320 Professional Building Address 319-320 Professional Building  
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Phillip Tacy Name Unknown  
 Address General Delivery Address \_\_\_\_\_  
Ellamore, WV 26247
- 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, 4350 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 70, 390 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	8-3/4"	H-40	42		<input checked="" type="checkbox"/>	20	20		
Fresh water									
Coal									
Intermediate	6-5/8"	J-55	23	<input checked="" type="checkbox"/>		1100	1100		
Production	4-1/2"	J-55	10.5	<input checked="" type="checkbox"/>			4300		
Tubing									
Liners									

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

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.  
 I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)  
 NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

(For execution by natural persons)  
 Marvin White Jr. Date: 4/12/84  
 (Signature)  
 Gloria D White Date: 4/12/84  
 (Signature)



**INSTRUCTIONS TO SURFACE OWNERS  
AND  
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT  
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

**NOTE: You are not required to file any comment at all.**

**Where to file comments and obtain additional information:**

Administrator of the Office of Oil and Gas  
West Virginia Department of Mines  
1615 Washington Street East  
Charleston, West Virginia 25311  
(304) 348-2057

**Who may file comments?** If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

**Time limits for comments.** The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

**Methods for filing comments.** Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- “(1) The proposed well work will constitute a hazard to the safety of persons; or
- “(2) The plan for soil erosion and sediment control is not adequate or effective; or
- “(3) Damage would occur to publicly owned lands or resources; or
- “(4) The proposed well work fails to protect fresh water sources or supplies.”

**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**List of Water Testing Laboratories.** The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



1) Date: April 5, 19 84  
 2) Operator's Well No. Tacy #2  
 3) API Well No. 47 - 001 - 2046  
 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 Marvin White, Jr.  
 Address Rt. #2, Box 631  
Bell, FL 32619  
 (ii) Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 (iii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5(i) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_

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

Name \_\_\_\_\_  
 Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:

Tacy #1 & #2  
 No. 479855  
 RECEIPT FOR CERTIFIED MAIL  
 NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

SENT TO <u>Marvin White</u>	CERTIFIED FEE	\$
STREET AND NO. <u>Rt. #2 Box 631</u>	SPECIAL DELIVERY	
P.O. STATE AND ZIP CODE <u>Bell, FL 32619</u>	RESTRICTED DELIVERY	
POSTAGE	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	
	RETURN RECEIPT SERVICE	
	OPTIONAL SERVICES	
	CONSULT POSTMASTER FOR FEES	
	TOTAL POSTAGE AND FEES	\$
	POSTMARK OR PAID	

PS Form 3800, Apr. 1976

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.

OIL & GAS DIVISION  
 DEPT. OF MINES

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 5th day of April, 19 84.  
 My commission expires 12/21, 19 87.

Linda M. Subman  
 Notary Public, Harrison County,  
 State of W. Va.

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



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:

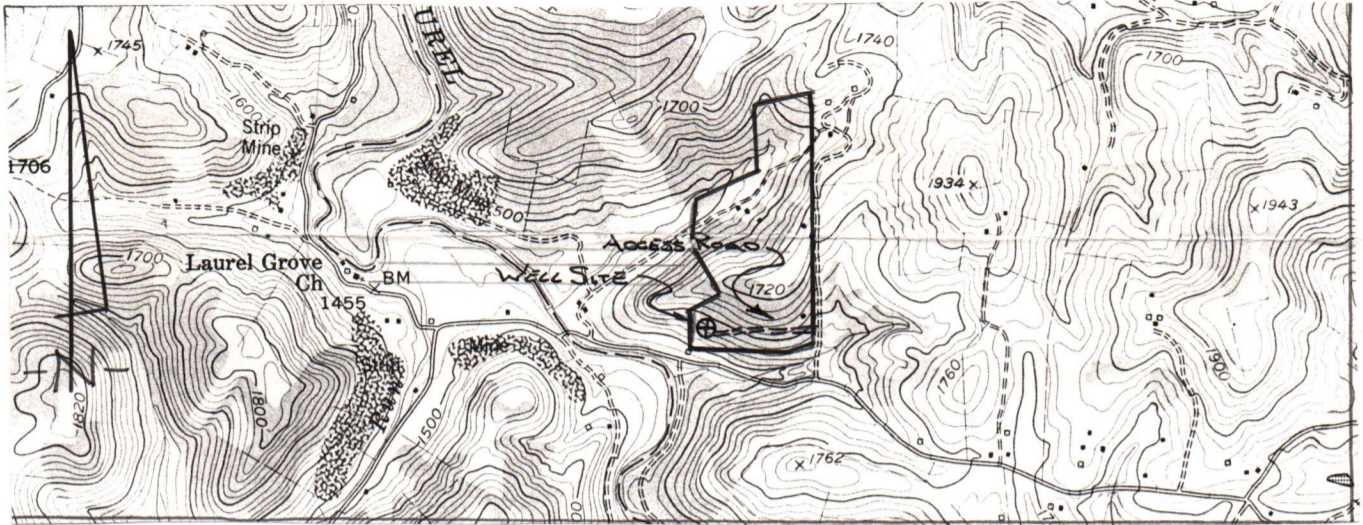
Grantor, lessor, etc.      Grantee, lessee, etc.      Royalty      Book Page



LEGEND

Well Site ⊕

Access Road ———

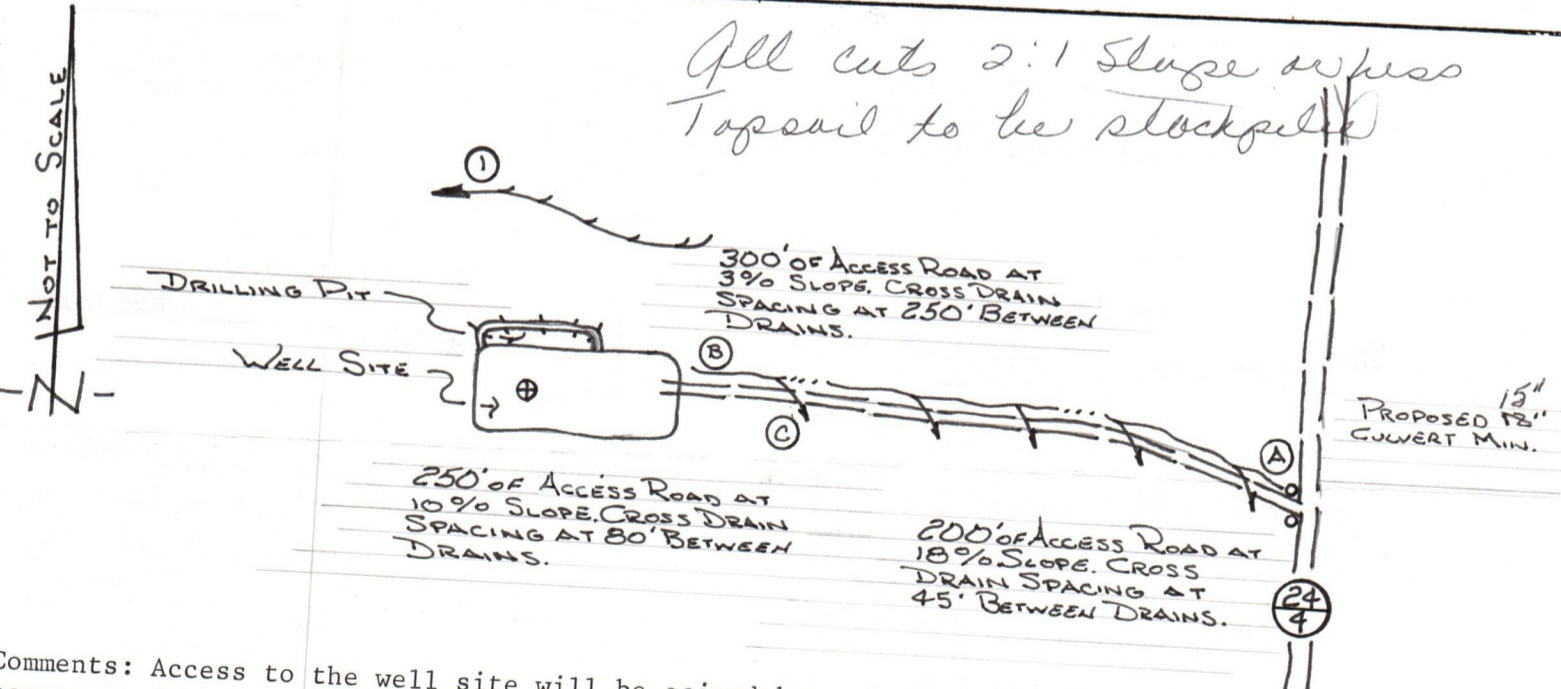


WELL SITE PLAN

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

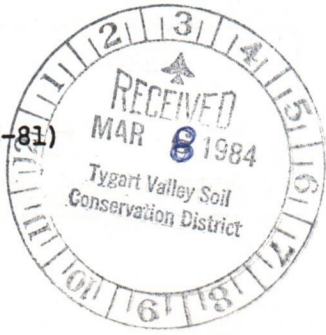
Property boundary ————	Diversion ————
Road = = = = =	Spring ⊙ →
Existing fence — x — x —	Wet spot ☹
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ — →
Open ditch — ···· →	Waterway ⇄ = = = =



Comments: Access to the well site will be gained by constructing approximately 750 feet of new access road beginning at a junction point in the Barbour County Route 24/4. 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. Natural vegetation (filter strip) will remain undisturbed in areas between construction and natural water courses. 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. *AND A REVISED PLAN WILL BE SUBMITTED*



IV-9  
(Rev 8-81)



DATE March 7, 1984  
WELL NO. Tacy No. 2  
API NO. 47 - 001 - 2046

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Chesterfield Energy Corp.  
Address 319-320 Professional Bldg.  
Clarksburg, WV 26301  
Telephone 304/623-5467

DESIGNATED AGENT Stanley N. Pickens  
Address 319-320 Professional Bldg.  
Clarksburg, WV 26301  
Telephone 304/623-5467

LANDOWNER Marvin White, Jr.  
Revegetation to be carried out by Stanley N. Pickens (Agent)

SOIL CONS. DISTRICT Tygart Valley

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan:

3/11/84  
(Date)  
Jean Freeman  
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>15" min steel road</u>	Material <u>Earth</u>
Page Ref. Manual _____	Page Ref. Manual <u>2-12 to 2-13</u>
Structure <u>Drainage Ditch</u> (B)	Structure _____ (2)
Spacing <u>Along access road</u>	Material _____
Page Ref. Manual <u>2-12 to 2-14</u>	Page Ref. Manual _____
Structure <u>Cross Drains</u> (C)	Structure _____ (3)
Spacing <u>As noted on sketch</u>	Material <u>OIL &amp; GAS DIVISION</u>
Page Ref. Manual <u>2-1 to 2-4</u>	Material <u>DEPT. OF MINES</u>
	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	<u>3.0</u> Tons/acre
or correct to pH	<u>6.5</u>
Fertilizer	<u>600</u> lbs/acre
	(10-20-20 or equivalent)
Mulch	<u>Hay or straw</u> 2.0 Tons/acre
Seed*	<u>Ky 31 Tall Fescue</u> 40 lbs/acre
	<u>Birdsfoot Trefoil</u> 10 lbs/acre
	<u>Dom Rye Grass</u> 10 lbs/acre

Treatment Area II

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



FARM C. Tacy

DISTRICT Cove

COUNTY Barbour

Barbour

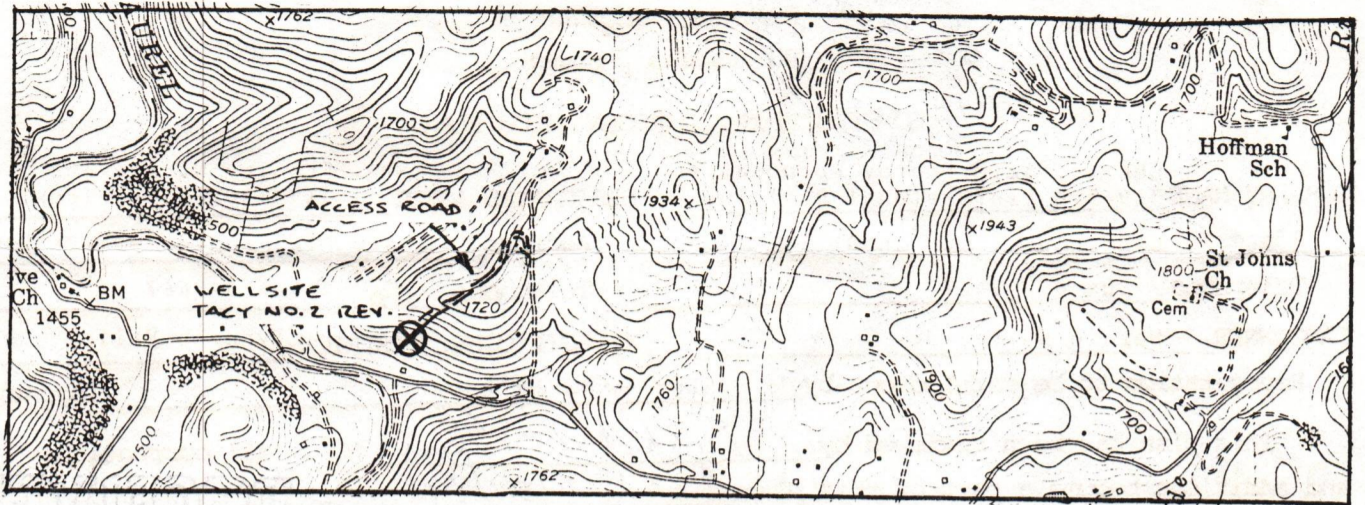
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE Nestorville 7.5'

LEGEND

Well Site ⊕

Access Road ===



WELL SITE PLAN

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

LEGEND

Property boundary ————

Road ===

Existing fence — x — x —

Planned fence — / — / —

Stream ~ ~ ~ ~

Open ditch — ···· — ···· — ···· —

Diversion // // // //

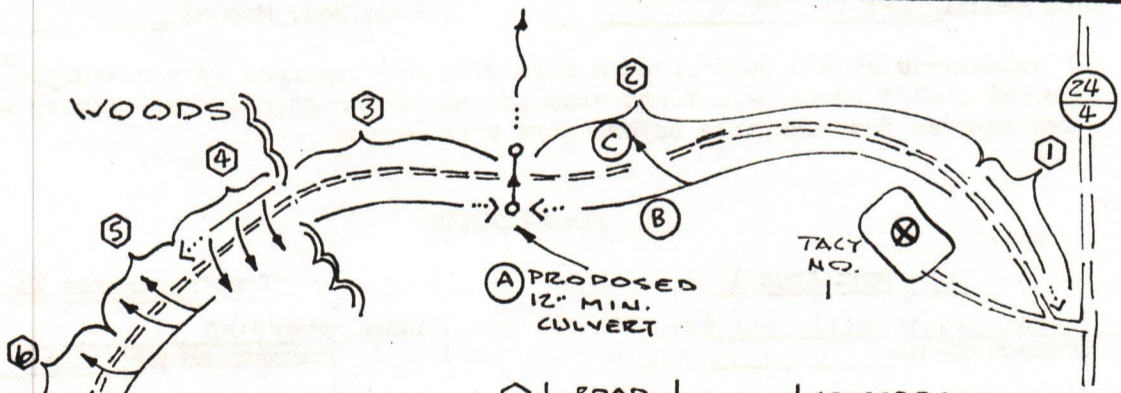
Spring ○ →

Wet spot ☹

Building ■

Drain pipe — ○ — ○ — ○ —

Waterway ⊂ ⊃ ⊃ ⊃



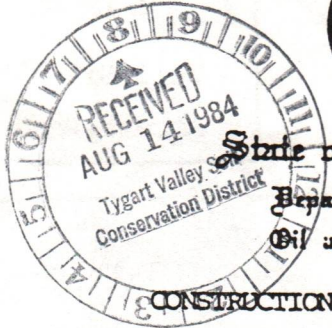
Comments: Access to the well site will be gained by upgrading approx. 1100' of existing new drive and from that point constructing approx. 775' of new access road (making a total of 1875' access road). Access road begins at an intersection point in proposed access road to Tacy No. 1 as shown in the sketch above.

○	ROAD LENGTH	GRADE	CROSSDRAIN SPACING
1	50'	+1.0%	AS NEEDED
2	650'	-1.0%	400'
3	400'	+1.0%	400' (AS NEEDED)
4	275'	-10.0%	80'
5	200'	-18.0%	45'
6	300'	-15.0%	60'
1875' TOTAL ACCESS ROAD			

The access road will be sloped 2-3% towards the open ditch. All outlets of drainage structures and ditches will be in a stable area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. Topsoil will be stockpiled for use in reclaiming. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. All cuts will be 2:1 slope or less.



IV-9  
(Rev 8-81)



DATE August 14, 1984  
WELL NO. Tacy No. 2 Rev.  
API NO. 47 - 001 - 2046

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Chesterfield Energy Corporation 319-320 Professional Building  
DESIGNATED AGENT Stanley N. Pickens 319-320 Professional Bldg.  
Address Clarksburg, WV 26301 Address Clarksburg, WV 26301  
Telephone 304-623-5467 Telephone 304-623-5467  
LANDOWNER Marvin White, Jr. SOIL CONS. DISTRICT Tygarts Valley  
Revegetation to be carried out by Stanley N. Pickens (Agent)

This plan has been reviewed by Tygarts Valley SCD. All corrections and additions become a part of this plan:  
8/21/84 (Date)  
Jean Freeman (SCD Agent)  
RECEIVED SEP 7 - 1984

ACCESS ROAD

LOCATION OIL & GAS DIVISION  
DEPT. OF MINES

Structure Steel road culvert (A)  
At natural drain  
Spacing As shown on sketch  
Page Ref. Manual 2-7 to 2-11  
Structure Drainage ditch (B)  
Along access road  
Spacing Inside road cuts  
Page Ref. Manual 2-12 to 2-15  
Structure Cross drains (C)  
Spacing As shown on sketch  
Page Ref. Manual 2-1 to 2-4

Structure Sediment barrier (1)  
Material Hay or straw bales  
Page Ref. Manual 2-16 to 2-20  
Structure \_\_\_\_\_ (2)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
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

Treatment Area II

Lime according to soil test to 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

Lime according to soil test to 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.

Philip A. Taylor SCD

PLAN PREPARED BY MSES Consultants, Inc.

ADDRESS 609 West Main Street  
Clarksburg, WV 26301

PHONE NO. 304-624-9700 or  
304-842-3325 (24-hour)

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



#1567

126 N 11 W 35

BOOK 89 PAGE 536 OIL & GAS LEASE

Lease No. 1567

THIS AGREEMENT, made this 16th day of February, 1982, by and between Cleo Tacy and Ruth Tacy his wife

Lessors and parties of the first part, hereinafter called "LESSOR" and UNION DRILLING, INC., a corporation, P. O. Drawer 40, Buckhannon, West Virginia, 26201, party of the second part, hereinafter called "LESSEE",

WITNESSETH: For and in consideration of the sum of One Dollar (\$1.00), paid by the Lessee to the Lessor, the receipt of which is hereby acknowledged and of the covenants and agreements herein contained, Lessor does hereby grant, lease, demise and let unto the Lessee, for its exclusive possession and use, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents and related by-products, by methods now known or hereafter discovered, all of that certain tract or parcel of land and/or oil and gas situate in

Cove District, Barbour County, West Virginia, bounded substantially as follows:

- On the North by J.A. Moats; On the East by H.L. Hotman; On the South by W.D. Humphrey; On the West by J.D. Dugman

containing 126 acres, more or less, and being the same land and/or oil and gas acquired by the Lessor by

This lease is made upon the following terms, rents, covenants and conditions, all of which are agreed to by the parties hereto:

1. RIGHTS OF LESSEE: Lessee shall have all rights, privileges and rights of way possessed by the Lessor which are necessary or convenient for the purposes of this lease, including, but not being limited to, the right to inject gas, air, water and other fluids into the sands and formations in said land for recovering and producing the minerals referred to; drilling, reconditioning, redrilling, completing and operating wells; and grading, constructing, maintaining and using access roads, pipelines, power lines, drips, tanks, stations, cathodic protection devices, houses for gates, meters, and regulators for use in connection with operations upon the demised premises or upon other lands owned or leased by the Lessee or its assigns.

2. TERM: This lease shall remain in force for a term of Two (2) years from date hereof and as long thereafter as the leased premises or any portion thereof, or any land pooled or unitized with the whole or any part thereof, is operated in the search for or production of oil or gas or oil or gas is found in paying quantities thereon. After termination of this lease, Lessee or its assigns may continue to use roads, pipelines and other facilities, being used in connection with operations on other premises, for as long as the other operations are being conducted. Lessee shall have right to remove its equipment and property after termination of lease.

3. RENTALS AND ROYALTIES:

The Lessee covenants and agrees as follows:

(a) Production Royalty:

(i) Oil:

To pay to Lessor, as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells.

(ii) Gas:

To pay Lessor as royalty for all gas and the constituents thereof, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8) of the price received by the Lessee from the sale of such gas and the constituents thereof at the well-head.

(b) Delay Rental Payment:

(i) To pay or tender to Lessor as delay rental at the rate of Six Hundred and Thirty Dollars (\$630.00)

annually, in advance, beginning on the date of this lease, and continue thereafter until a well capable of yielding production royalty to Lessor as provided above is drilled on the leased premises or on any unit or pool involving the leased premises. Any delay rental paid for time beyond the date that a well capable of yielding production royalty to Lessor is drilled on the leased premises shall be credited on production royalty due from the well. If any producing well subsequently ceases to produce or is determined by the Lessee unprofitable to operate for the production of oil or gas, the Lessee may continue to hold said land under the terms hereof for the remainder of the primary term of the lease by resuming payment of delay rental, with said rental to commence ninety (90) days after completion of the plugging of the well or ninety (90) days after termination of production from the same, whichever first occurs. In no event shall this lease terminate or become void for non-payment of delay rentals. However, the Lessor shall have the right of action against the Lessee for the amount of the delay rental and interest thereon.

Paid in full C.B.H. (10)



EXTENSION OF LEASE

BOOK 97 PAGE 533

WHEREAS, the undersigned did on the 16th day of February, 1982, by Oil and Gas Lease of record in the Office of the Clerk of the County Commission of Barbour County, West Virginia, recorded in Oil and Gas Lease Book 89, at Page 536, lease unto Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201, a tract of land containing 126 acres situate in Cove District of Barbour County, West Virginia, which tract is more particularly described therein; and,

WHEREAS it is the expressed desire of the undersigned to extend the primary term of said lease,

NOW, THEREFORE, WITNESSETH THIS AGREEMENT: That for and in consideration of the sum of One Dollar (\$1.00), cash in hand paid, and other good and valuable considerations, the receipt and sufficiency of all of which is hereby acknowledged, the undersigned hereby extend the term of the aforementioned and described lease for a period of <sup>6 months,</sup> ~~one year,~~ and do provide that the primary term of the lease shall expire on the 16th day of <sup>August</sup> ~~February~~, 1984. C.W. R.E.I. R.G.C.

Given under our hands this 28 day of November, 1983.

Cleo Tacy  
Cleo Tacy  
Ruth Tacy  
Ruth Tacy

STATE OF WEST VIRGINIA,  
COUNTY OF RANDOLPH, to-wit:

The foregoing instrument was acknowledged before me this 28 day of November, 1983, by Cleo Tacy and Ruth Tacy, his wife.

R.A. Canterbury  
Notary Public

My commission expires: March 10, 1992

This instrument was prepared by James A. Bibby, III, Union Drilling, Inc., Post Office Drawer 40, Buckhannon, West Virginia, 26201.

24-64-28  
BARBOUR COUNTY, W.V.  
FILED OR RECORDED

NOV 30 11 10:46  
97 PAGE 533  
GLENN G. PROPST, CLERK

FEE PAID \$2.00  
GLENN G. PROPST  
CLERK BARBOUR COUNTY COURT

STATE OF WEST VIRGINIA, County of Barbour, To-wit:

I, Glenna G. Propst, Clerk of the County Commission of said County, do hereby certify that the foregoing writing, with Certificate thereto annexed, was this day produced to me in my office and duly admitted to record.

Witness my hand. Glenna G. Propst CLERK.

DAYTON LEGAL BANK

Oil Lease No. 1000

# 1567



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

2nd Elk 7,500# 80/100; 30,000# 20/40  
505 BBLs Sand Laden Fluid

Benson 7,500# 80/100; 30,000# 20/40  
450 BBLs Sand Laden Fluid

Speechley & Balltown 30,000# 20/40  
495 BBLs Sand Laden Fluid

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DEC 3 - 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

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	46	
Sand			46	79	
Shale			79	117	
Coal			117	121	
Sand			121	195	Hole Damp @ 150'
Coal			195	198	
Sand			198	473	
Red Rock & Shale			473	792	
Sand & Shale			792	945	
Little Lime			945	972	
Sand & Shale			972	1012	
Big Lime			1012	1156	Gas Ck @ 1186' Odor
Big Injun			1156	1225	Gas Ck @ 1249' 6/10-7" w/w
Sand & Shale			1225	2065	Gas Ck @ 1280' 130/10-2" w/w
5th Sand			2065	2140	Gas Ck @ 1342' 110/10-2" w/w
Sand & Shale			2140	2325	Gas Ck @ 1405' 4/10-7" w/w
Elizabeth			2325	2370	Gas Ck @ 1436' 6/10-7" w/w
Sand & Shale			2370	2688	Gas Ck @ 1527' 6/10-7" w/w
Speechley			2688	2750	Gas Ck @ 1620' 6/10-7" w/w
Sand & Shale			2750	2865	Gas Ck @ 1713' 6/10-7" w/w
Balltown			2865	2908	
Sand & Shale			2908	3802	Hole Damp @ 1540'
Benson			3802	3815	1/2"-3/4" Salt Water @ 1620'
Sand & Shale			3815	4040	
Alexander			4040	4070	Gas Ck @ 1807' 6/10-7" w/w
Sand & Shale			4070	4485	Gas Ck @ 4472' 60/10-2" w/w
2nd Elk			4485	4504	Gas Ck @ 4801' 70/10-2" w/w
Sand & Shale			4504	5030	Gas Ck @ 5363' 30/10-2" w/w
4th Elk			5030	5098	Gas Ck @
Sand & Shale			5098	5210	
Haverty			5210	5306	
Sand & Shale			5306	5441	
TD			5441		

(Attach separate sheets as necessary)

Chesterfield Energy Corporation  
Well Operator  
By: Stanley N. Pickens  
Date: November 30, 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 those encountered in the drilling of a well."





IV-35  
(Rev 8-81)

Date November 30, 1984  
Operator's  
Well No. Tacy #2 Well  
Farm \_\_\_\_\_  
API No. 47 - 001 - 2046

**RECEIVED**  
DEC 3 - 1984

State of West Virginia  
Department of Mines  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL OPERATOR'S REPORT  
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: 1569.10' Watershed Laurel Creek  
District: Cove County Barbour Quadrangle Nestorville 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 Marvin White, Jr.  
ADDRESS Rt. #2, Box 631, Bell, FL 32619  
MINERAL RIGHTS OWNER Cleo & Ruth Tacy  
ADDRESS P. O. Box 109, Elkins, WV 26241  
OIL AND GAS INSPECTOR FOR THIS WORK Donald Ellis ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554  
PERMIT ISSUED May 3, 1984  
DRILLING COMMENCED November 12, 1984  
DRILLING COMPLETED November 18, 1984

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	1071'	1071'	250 sks
7			
5 1/2			
4 1/2	5441'	4535'	440 sks
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION 2nd Elk, Benson, Speechley & Balltown Depth \_\_\_\_\_ feet  
Depth of completed well 5441 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 150', 154' feet; Salt 1620' feet  
Coal seam depths: 117'-121', 195'-198' Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA  
Producing formation 2nd Elk Pay zone depth 4488'-4492' feet  
Gas: Initial open flow 327 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 527 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1100 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Benson Pay zone depth 3807'-3811' 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. Formation Speechley & Balltown Total Depth 2738'-2892'  
(Continue on reverse side)

BAR 2046













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JUL 16 1985

OIL & GAS DIVISION  
DEPT. OF MINES

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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
December 7, 1984

COMPANY Chesterfield Energy Corporation

PERMIT NO 001-2046 (5-03-84)

320 Professional Building

FARM & WELL NO Marvin White, Jr., Tacy 2

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 *Randall B. 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. ...*  
Administrator-Oil & Gas Division

August 1, 1985  
DATE



1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2046												
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.)	5441 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 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.)	Tacy #2 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.)	Tacy #2 Well 47-001-2046												
(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.	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;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.933</td> <td style="text-align: center;">.293</td> <td style="text-align: center;">---</td> <td style="text-align: center;">3.226</td> </tr> <tr> <td style="text-align: center;">2.933</td> <td style="text-align: center;">.293</td> <td style="text-align: center;">---</td> <td style="text-align: center;">3.226</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.933	.293	---	3.226	2.933	.293	---	3.226
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.933	.293	---	3.226										
2.933	.293	---	3.226										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2.933</td> <td style="text-align: center;">.293</td> <td style="text-align: center;">---</td> <td style="text-align: center;">3.226</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	2.933	.293	---	3.226				
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
2.933	.293	---	3.226										
9.0 Person responsible for this application:	Chesterfield Energy Corporation Samuel J. Cann V.P. Land & Contracts Name Title Signature Nov. 28, 1984 (304) 623-5467 Date Application is Completed Phone Number												

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DEC - 3 1984

OIL & GAS DIV  
DEPT. OF MINES

Agency Use Only
Date Received by Juris. Agency
DEC - 3 1984
Date Received by FERC



DEC 27 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 11/28, 19 84

Applicant's Name: Chesterfield Energy Corporation

Address: 320 Professional Building

Clarksburg, WV 26301

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(Month, day and year)

First Purchaser: Tenneco Atn: Kathy Schooley

Address: P. O. Box 2511  
(Street or P.O. Box)

Houston, TX 77001

(City) (State) (Zip Code)

FERC Seller Code 003449

AGENCY USE ONLY  
WELL DETERMINATION FILE NUMBER  
841203 -103 -001 - 2046  
Use Above File Number on all  
Communications Relating to This Well

Designated Agent: Samuel J. Cann

Address: 320 Professional Building

Clarksburg, WV 26301

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

- 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 Buildu

AGENCY USE ONLY  
**QUALIFIED**

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DEC - 31 1984

OIL & GAS DIV.  
DEPT. OF MINES



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

Operator's Well No Tacy #2 Well

API Well No 47 - 001 - 2046  
State County Format

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 1569.10'  
Watershed Laurel Creek  
Dist Cove County Barbour Quad Nestorville

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

Gas Purchase Contract No \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: November 12, 1984

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

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

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

$$\begin{aligned} P_1 &= 1100 & X &= \text{GL}/53.34T \\ G &= .68 & \text{BHP} &= 1183.02' \\ T &= 570 \end{aligned}$$

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 28 day of November, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 28 day of November, 1984. My term of office expires on the 14th day of June, 1994.

[NOTARIAL SEAL]

  
Notary Public





Chesterfield Energy Corporation

SUITE 319-320 PROFESSIONAL BUILDING  
SOUTH THIRD STREET  
CLARKSBURG, WEST VIRGINIA 26301

PHONE (304) 623-5467

### CERTIFICATE OF SERVICE

I, Stanley N. Pickens, hereby certify that I have this 3rd  
day of December, 19 84 served the foregoing  
document upon the following named party of record in this proceeding by  
mailing a copy thereof properly addressed as follows:

Tenneco  
P. O. Box 2511  
Houston, TX 77001

Certified Receipt #P 406 692 859

CHESTERFIELD ENERGY CORPORATION

BY Stanley N. Pickens  
Stanley N. Pickens, President



1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2046												
2.0 Type of determination being sought. (Use the codes found on the front of this form!)	107 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5441 feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<p style="text-align: right;"><b>RECEIVED</b> DEC - 3 1984 OIL &amp; GAS DIV DEPT. OF MINES Seller Code</p> 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.)	Tacy #2 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.)	Tacy #2 Well 47-001-2046												
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(b) Date of the contract:	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;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5.866</td> <td style="text-align: center;">.586</td> <td style="text-align: center;">---</td> <td style="text-align: center;">6.452</td> </tr> <tr> <td style="text-align: center;">5.866</td> <td style="text-align: center;">.586</td> <td style="text-align: center;">---</td> <td style="text-align: center;">6.452</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	5.866	.586	---	6.452	5.866	.586	---	6.452
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5.866	.586	---	6.452										
5.866	.586	---	6.452										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5.866</td> <td style="text-align: center;">.586</td> <td style="text-align: center;">---</td> <td style="text-align: center;">6.452</td> </tr> <tr> <td style="text-align: center;">5.866</td> <td style="text-align: center;">.586</td> <td style="text-align: center;">---</td> <td style="text-align: center;">6.452</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	5.866	.586	---	6.452	5.866	.586	---	6.452
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5.866	.586	---	6.452										
5.866	.586	---	6.452										
9.0 Person responsible for this application:	Chesterfield Energy Corporation Samuel J. Cann V.P. Land & Contracts Name Title Signature November 28, 1984 (304) 623-5467 Date Application is Completed Phone Number												

Agency Use Only
Date Received by Juris. Agency
DEC - 3 1984
Date Received by FERC



DEC 27 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 11/28, 19 84

AGENCY USE ONLY

*Dev*

Applicant's Name: Chesterfield Energy Corporation

WELL DETERMINATION FILE NUMBER

Address: 320 Professional Building

841203 -107-001-2046

Clarksburg, WV 26301

Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(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 & Contract (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
  - X 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 Buildu

AGENCY USE ONLY

QUALIFIED

RECEIVED

DEC - 31984

OIL & GAS DIV.  
DEPT. OF MINES



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 1569.10'

Watershed Laurel Creek

Dist. Cove County Barbour Quad. Nestorville

Gas Purchase  
Contract No. \_\_\_\_\_

Meter Chart Code \_\_\_\_\_

Date of Contract \_\_\_\_\_

WELL OPERATOR Chesterfield Energy Corp.

ADDRESS 320 Professional Building  
Clarksburg, WV 26301

GAS PURCHASER Tenneco Attn: Kathy Shcooley

ADDRESS P. O. Box 2511  
Houston, TX 77001

\* \* \* \* \*

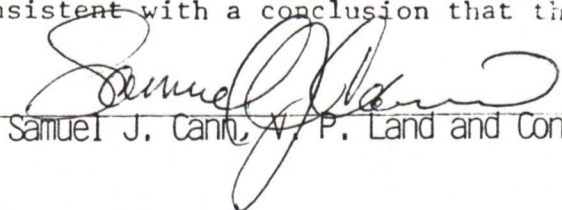
Date surface drilling began: November 12, 1984

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

$$\begin{aligned}
 \text{BHP} &= P_1 + P_1 (e^X - 1) \\
 P_1 &= 1100 \\
 G &= .68 \\
 T &= 570 \\
 X &= GL/53.34T \\
 \text{BHP} &= 1183.02'
 \end{aligned}$$

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 28th day of November, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28 day of November, 19 84.  
My term of office expires on the 14th day of June, 19 94.

  
Brenda Drummond  
Notary Public



DEVONIAN SHALE GAMMA RAY LOG ANALYSIS  
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Chesterfield Energy Corporation Agent: Samuel J. Cann, V.P. Land and Contra

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-001-2046 Well Name: Tacy #2 Well

West Virginia Office of Oil and Gas County: Barbour  
 References: SJA File No.

Vol. \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 140 \*API Units
2. Remarks:

**FLUID LEVEL AT 5324'**

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 140 \*API Units
2. Calculation:  $0.7 \text{ (GR Value at Base Line)}$   
 $0.7 \text{ ( } \underline{140} \text{ * )} = \underline{98}$  API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
1442	2000	558	52
2000	3000	1000	79
3000	4000	1000	0
4000	5000	1000	3
5000	5441	441	0

Total Devonian Interval 3999

Total Less Than 0.7 (Shale Base) 134

% Less Than 0.7 (Shale Base Line) =  $\frac{134}{3999} \times 100 = \underline{3.35} \%$

\*Marked on log included with analysis.  
 \*\*Top of Devonian Section Recorded on First Interval in this Column.  
 \*\*\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.



M71 4/30/84

LATITUDE 39°12'30"  
39°15'

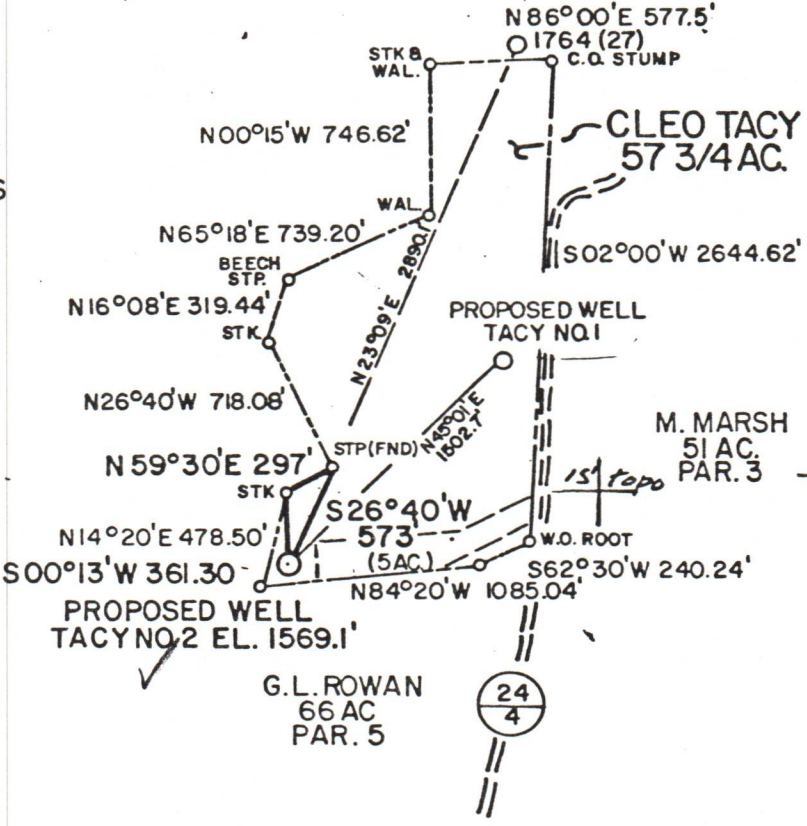
3325'

LONGITUDE 79°57'30"  
79°55'

NORTH

B.L. MOATS  
118.27 AC.  
PAR. II

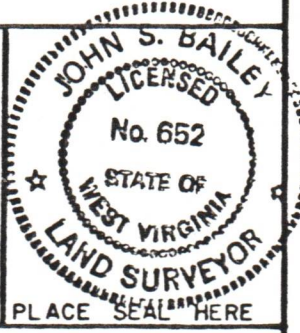
M. WHITE JR.  
12 AC.  
PAR. 13



PREPARED BY MSES CONSULTANTS

FILE NO. MSES84-325  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION BM EL. 1455' 3400' NW OF LOCATION

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) John S. Bailey  
 R. P. E. \_\_\_\_\_ L. L. S. 652



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



Department of Mines  
 Oil & Gas Division

DATE MARCH 13, 19 84  
 OPERATOR'S WELL NO. TACY NO. 2  
 API WELL NO. \_\_\_\_\_  
47 - 001 - 2046  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1569.10' WATER SHED LAUREL CREEK  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE NESTORVILLE 7.5' (1976)  
 SURFACE OWNER MARVIN WHITE JR ACREAGE 42  
 OIL & GAS ROYALTY OWNER CLEO TACY LEASE ACREAGE 111  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X 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 4350  
 WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT STANLEY N. PICKENS  
 ADDRESS 319-320 PROFESSIONAL BLDG CLARKSBURG, W.V. 26301 ADDRESS 319-320 PROFESSIONAL BLDG CLARKSBURG, W.V. 26301