

AS 10/28/86

3830'

LATITUDE 39°25'00"

LONGITUDE 80°51'00"

NORTH

E. R. WHITE
22.24 AC

J. PASTORIAL HEIRS
86.46 AC

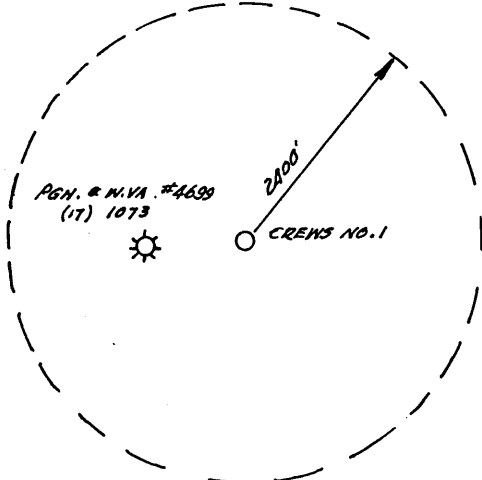
W. HAMMOND
27.81 AC

PGH. & M.V.A. #4639
(17) 1073'
(R. STUTTLER - SURF.)
34 ACRES

L. CHRISTINA
51.60 AC

(A = POST - CREWS NO. 1 N80°25E - 384'
 B = POST - CREWS NO. 1 N 34°54E - 274'
 C = POST - POST N54°00W - 274')

WELL REF.
 N8°15E - 125' 20" OAK
 S83°45E - 105' S/W SIDE ABANDONED PRIVY

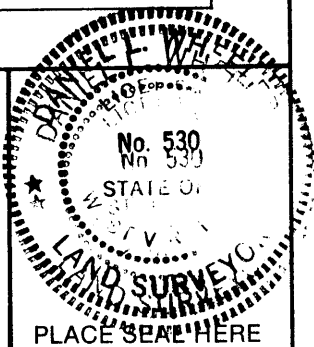


D.L. WHEELER & ASSOCIATES, INC.
 RT. 1, BOX 346
 CLARKSBURG, WV. 26301
 PHONE: 304 623 5215

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION U.E. RT. 19 1/2
ELEV. 1009'

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) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530
DANIEL L. WHEELER



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE SEPTEMBER 30, 1985
 OPERATOR'S WELL NO. CREWS NO. 1
 API WELL NO. 47-033-3364
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1050' WATERSHED LAUREL RUN
 DISTRICT CLAY 2 COUNTY HARRISON
 QUADRANGLE SHINNSTON 7.5' 606 027 6 Clarksburg EC
 SURFACE OWNER RONALD J. STUTTLER ACREAGE 6 AC.
 OIL & GAS ROYALTY OWNER MARGARET J. CREWS LEASE ACREAGE 40 AC.
 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 SPEECHLEY / FIFTH ESTIMATED DEPTH 3500'
 WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANN
 ADDRESS SUITE 319 PROFESSIONAL BLDG. ADDRESS SUITE 319 PROFESSIONAL BLDG.
CLARKSBURG, WV. 26301 CLARKSBURG, WV. 26301

NOV 03 1986

FORM IV-6 (8-78)

H.T. HALL

COUNTY NAME

PERMIT

IV-35
(Rev 8-81)

RECEIVED

DEC 01 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 26, 1986
Operator's
Well No. Crews #1 Well
Farm _____
API No. 47 - 033 - 3364

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1050' Watershed Laurel Run
District: Clay County Harrison Quadrangle Shinnston 7.5'

COMPANY Chesterfield Energy Corporation
ADDRESS 203 West Main St., Clarksburg, WV 26301
DESIGNATED AGENT Samuel J. Cann
ADDRESS 203 West Main St., Clarksburg, WV 26301
SURFACE OWNER Ronald J. Stutler
ADDRESS P.O. Box 356, Shinnston, WV 26431
MINERAL RIGHTS OWNER Margaret J. Crews
ADDRESS 1343 Shepherd St., South Boston, VA 24592
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Rt. #2, Box 232-D Jane Lew, WV 26378
PERMIT ISSUED October 28, 1986
DRILLING COMMENCED November 15, 1986
DRILLING COMPLETED November 21, 1986
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.			
11 3/4 13 x 10		124'	100 sks
9 5/8			
8 5/8	955'	955'	200 sks
7			
5 1/2			
4 1/2	3333'	3257'	260 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Speechley Depth _____ feet
Depth of completed well 3333' feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 375' feet; Salt _____ feet
Coal seam depths: 54'-64', 130'-134', 375'-378' Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Speechley Pay zone depth 3215'-3225' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 250 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 585 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Fifth Sand Pay zone depth 2520'-2550' feet
"COMMINGLED WITH FIRST STAGE"
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

DEC 8 1986
(Continue on reverse side)

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

Speechley 5,000# 80/100; 20,000# 20/40
 385 BBLs Water

Fifth Sand 10,000# 80/100; 50,000# 20/40
 630 BBLs Water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	10	
Sand & Shale			10	54	
Coal			54	64	
Sand & Shale			64	130	
Coal			130	134	
Sand			134	375	
Coal			375	378	1/2" stream water
Sand			378	770	3' coal
Sand & Shale			770	1120	
Shale & Sand			1120	1205	
Red Rock			1205	1447	
Big Lime			1447	1525	Gas ck @ 1641' No Show
Injun			1525	1642	Gas Ck @ 2068' No Show
Shale			1642	2010	Gas Ck @ 2798' No Show
50' Sand			2010	2082	
Sand & Shale			2082	2386	
Fourth Sand			2386	2445	
Shale			2445	2520	
Fifth Sand			2520	2550	
Shale			2550	3215	
Speechley			3215	3225	
Shale			3225	3333	
TD			<u>3333</u>		

(Attach separate sheets as necessary)

Chesterfield Energy Corporation

Well Operator

By:

Date:

November 26, 1986

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."

Handwritten mark

1) Date: October 8, 1986
 2) Operator's Crews #1 Well
 Well No. _____
 3) API Well No. 47 033 - 3364
 State County Permit



FORM WW-2(B) FILE COPY
 (Obverse)
 7/85

RECEIVED
 OCT 24 1986

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

APPLICATION FOR A WELL WORK PERMIT

- DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY
- 4) WELL TYPE: A Oil _____ Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1050' Watershed: Laurel Run
 District: Clay County: Harrison Quadrangle: Shinnston 7.5' 605
- 6) WELL OPERATOR Chesterfield Energy CODE: 9550 7) DESIGNATED AGENT Samuel J. Cann
 Address 320 Professional Building Address 320 Professional Building
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Route #2, Box 232-D
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:
 Name _____
 Address Unknown
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Speechley
- 12) Estimated depth of completed well, 3500' feet
 13) Approximate strata depths: Fresh, 30' feet; salt, _____ feet.
 14) Approximate coal seam depths: 70', 320' Is coal being mined in the area? Yes _____ / No X /

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		16'	16'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	23	X		900'	900'	Circulate to surface <u>Per Rule 15.05</u> <u>340 SKS OR</u> <u>AS REQUIRED BY RULE 15.01</u>	Depths set
Production	4 1/2	J-55	10.5	X			3450'		
Tubing									Perforations:
Lin...									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3364 Date October 28 19 86

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 October 28, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>KS</u>	Plat: <u>KS</u>	Casing: <u>KS</u>	Fee: <u>66.35</u> <u>15-1</u>	WPCP: <u>KS</u>	S&E: <u>KS</u>	Other: _____
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John W. Johnston
 Director, Division of Oil and Gas
 by Samuel J. Cann

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