

Amie 3/5/90

COLLINS LEASE

WELL NO.2

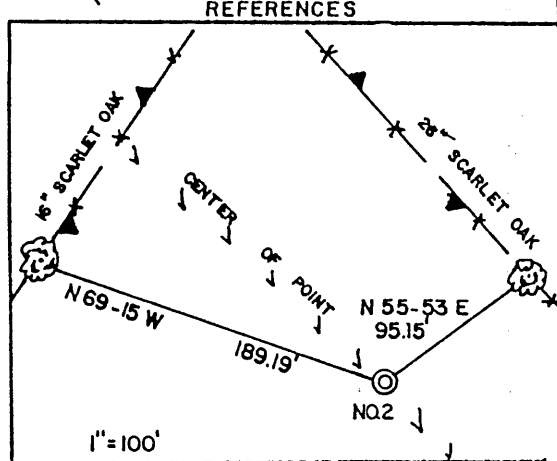
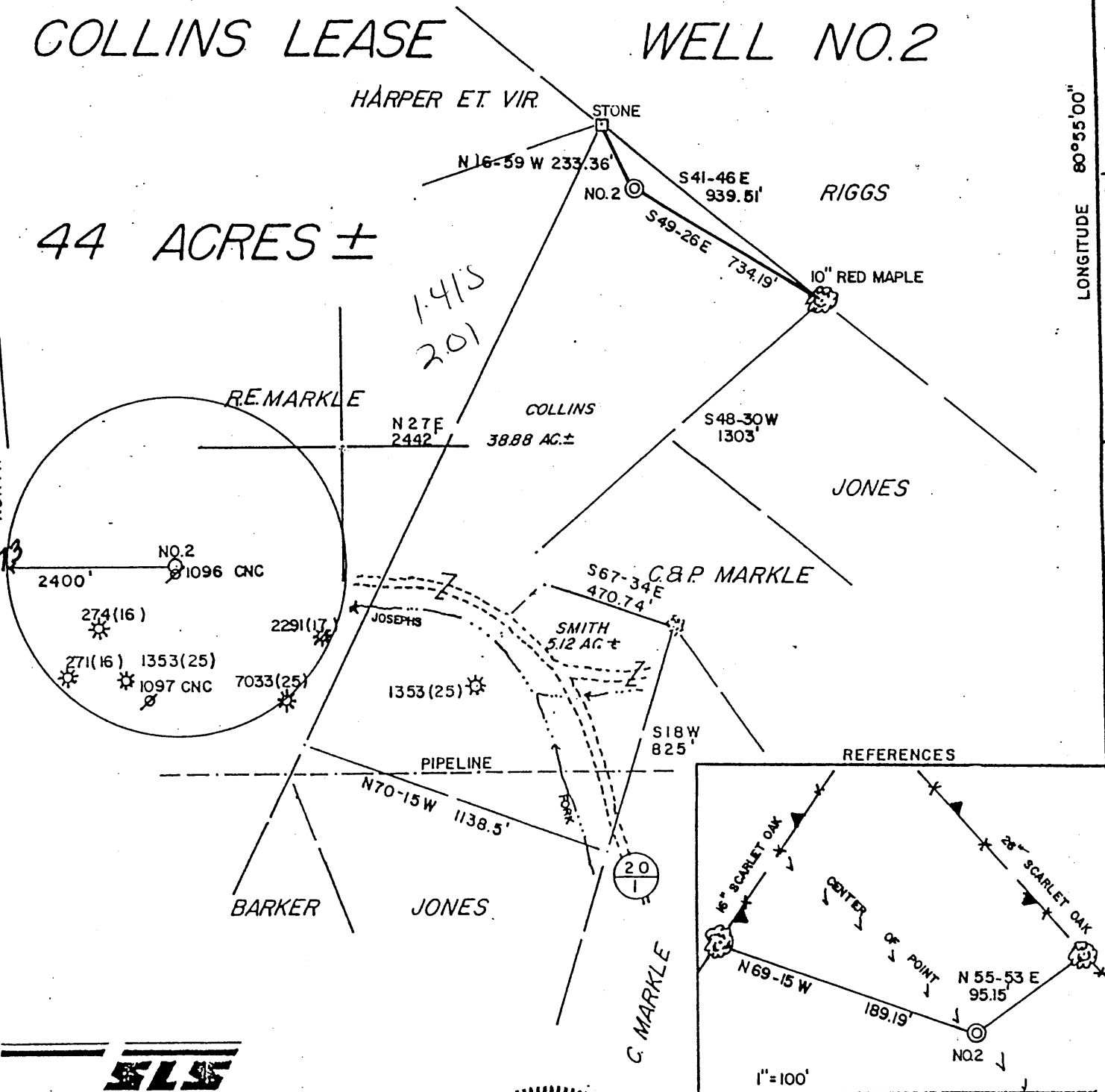
HARPER ET VIR.

44 ACRES ±

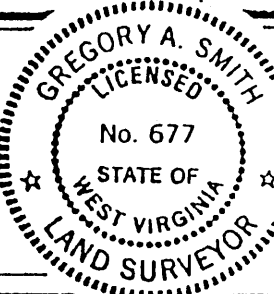
1.415
201

NORTH

313



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.




L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JANUARY 29, 19 90
 OPERATORS WELL NO. COLLINS NO.2
 API WELL NO. 47 - 095 - 1372F
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2173 (30-27)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. = 945' SCALE 1" = 500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1166' WATERSHED JOSEPHS FORK
 DISTRICT MEADE COUNTY TYLER QUADRANGLE PENNSBORO 7.5'
 SURFACE OWNER NEAL A. & LILA COLLINS ACREAGE 38.88
 ROYALTY OWNER NEAL A. COLLINS ET. AL. LEASE ACREAGE 44
 PROPOSED WORK: LEASE NO. _____
 DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON
 ESTIMATED DEPTH 5000'

WELL OPERATOR DOMINION APPALACHIAN DEVELOPMENT, INC. NATED AGENT JOHN HASKINS
 ADDRESS PO BOX 1248 JANE LEW, WV 26378 ADDRESS PO BOX 1248 JANE LEW, WV 26378

575

COUNTY NAME TYLER 1372 F

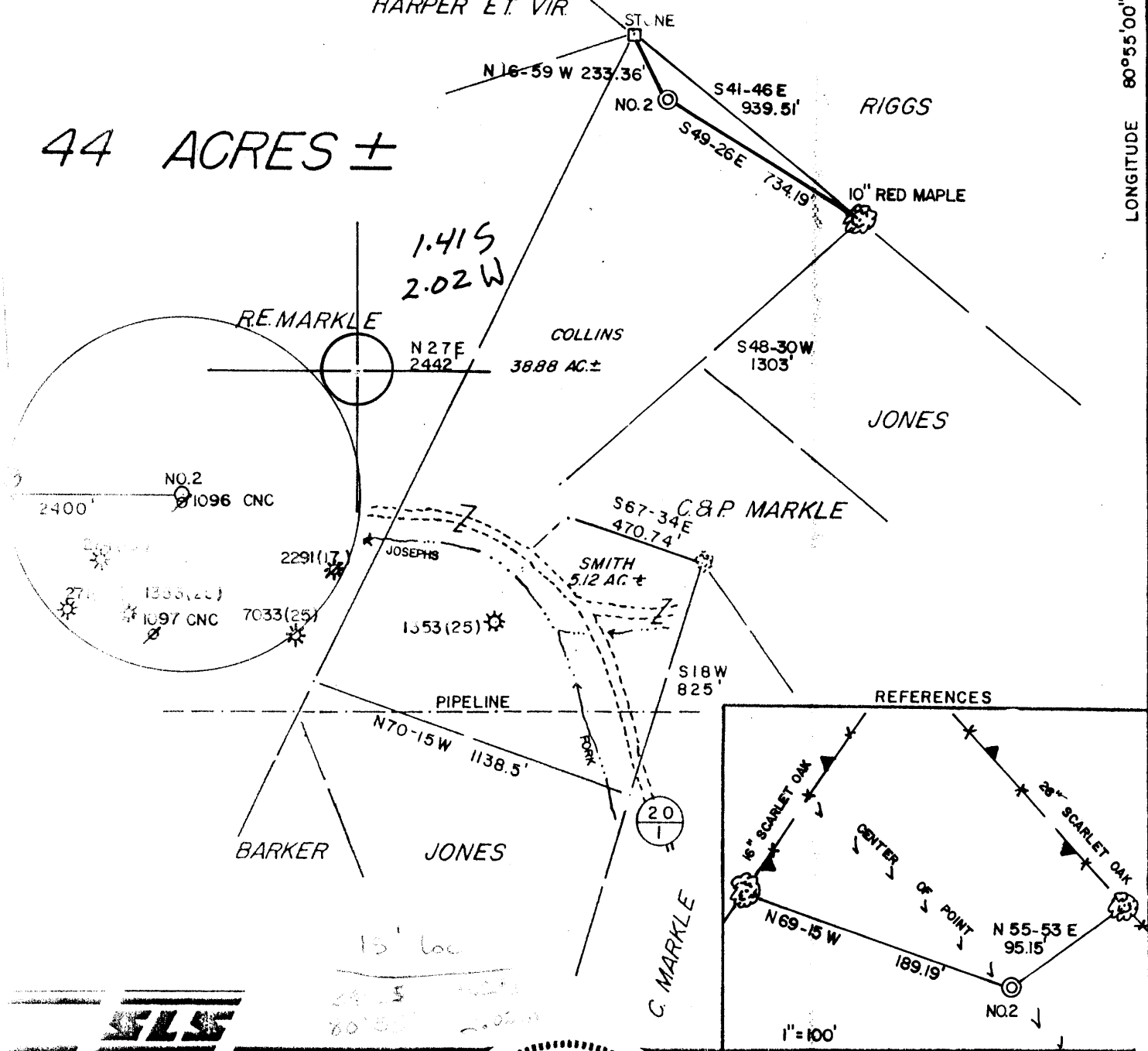
June 3/5/90

COLLINS LEASE

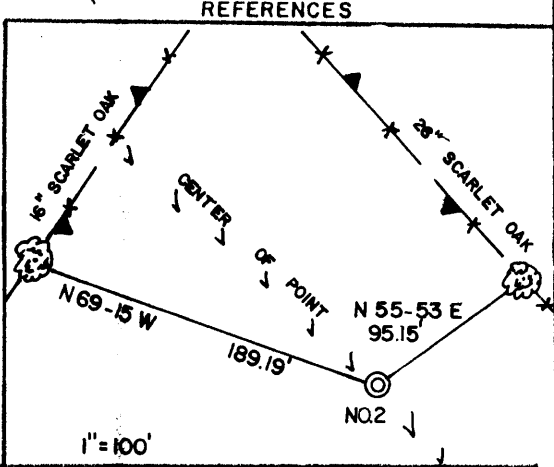
WELL NO.2

HARPER ET VIR.

44 ACRES ±

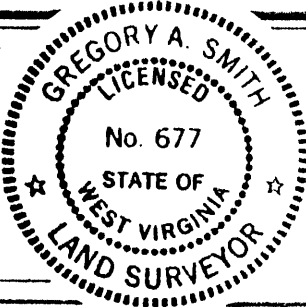


1.41 S
2.02 W



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

L.S. 17 Gregory A. Smith



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

DATE JANUARY 29, 19 90

OPERATORS WELL NO. COLLINS NO.2

API WELL NO. 47 - 095 - 1372

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2173 (30-27)

PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. = 945' SCALE 1" = 500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1166' WATERSHED JOSEPHS FORK

DISTRICT MEADE 4 COUNTY TYLER QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER NEAL A. & LILA COLLINS ACREAGE 38.88

ROYALTY OWNER NEAL A. COLLINS ET AL. LEASE ACREAGE 44

PROPOSED WORK: LEASE NO. _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON

ESTIMATED DEPTH 5000'

WELL OPERATOR CHESTERFIELD ENERGY CORP. DESIGNATED AGENT SAMUEL J. CANN

ADDRESS 203 WEST MAIN STREET CLARKSBURG, WV 26301 ADDRESS 203 WEST MAIN STREET CLARKSBURG, WV 26301

COUNTY NAME PERMIT

163

6-6 unnamed (b)

MAR 12 1990

RECEIVED
 Office of Oil & Gas
 WR-35 Permitting
JAN 03 2000
 WV Division of
 Environmental Protection

21-Oct-99
 API # 47- 95-01372 F

State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas
 Well Operator's Report of Well Work
 Reviewed K

Farm name: COLLINS, NEAL A. & LILA Operator Well No.: 2
 LOCATION: Elevation: 1,166.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER
 Latitude: 7490 Feet South of 39 Deg. 22Min. 30 Sec.
 Longitude 10650 Feet West of 80 Deg. 55 Min. 0 Sec.

Company: DOMINION APPALACHIAN DEVE
 P. O. BOX 1248
 JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD
 Permit Issued: 10/22/99
 Well work Commenced: 11/9/99
 Well work Completed: 11/18/99
 Verbal Plugging
 Permission granted on: _____
 Rotary Cable Rig
 Total Depth (feet) _____
 Fresh water depths (ft) _____
 Salt water depths (ft) _____
 Is coal being mined in area (Y/N)? _____
 Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
NO Change			
* See Original		WR-35	

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2182-2188'
 Gas: Initial open flow TSTM MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 157 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 50 psig (surface pressure) after 168 Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Larry J. Cavallo
 For: DOMINION APPALACHIAN DEVELOPMENT, INC.
 By: Larry J. Cavallo; Manager of Engineering
 Date: 12/30/99

FEB 18 2000

TYL 1372 F

STAGE(S)	75Q Foam	FRAC	DATE	11/9/99
PERFS	HOLES	BBL	BP	ISIP
1				
Big Injun	2182-2188	16	319	1388 1604

MATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
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No Change - see original WR-35



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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Well Operator's Report of Well Work

APR 06 90

Farm name: COLLINS, NEAL A. & LILA Operator Well No.: COLLINS #2

LOCATION: Elevation: 1166.00 Quadrangle: PENNSBORO

District: MEADE County: TYLER
Latitude: 7490 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10650 Feet West of 80 Deg. 55 Min. 0 Sec.

Company: CHESTERFIELD ENERGY CORP.
203 WEST MAIN STREET
CLARKSBURG, WV 26301-0000

Agent: SAMUEL J. CANN

Inspector: GLEN P. ROBINSON
Permit Issued: 03/06/90
Well work Commenced: 3/17/90
Well work Completed: 3/21/90

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5157'
Fresh water depths (ft) 98'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	38'	38'	
8 5/8		1211'	300 sks
4 1/2		5111'	200 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5040'-5050
Gas: Initial open flow 72 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 215 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1410 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Samuel J. Cann
For: CHESTERFIELD ENERGY CORP.

By:
Date: April 5, 1990

APR 16 1990

Frac Info:

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



Drilling Info:

Sand & Shale	0	73
Red Rock	73	92
Shale	92	533
Red Rock	533	1060
Shale	1060	1850
Sand	1850	2020
Big Lime	2020	2110
Injun	2110	2230
Sand & Shale	2230	2468
Weir	2468	2520
Shale	2520	3022
Gordon	3022	3034
Sand & Shale	3034	3586
Balltown	3586	3638
Shale	3638	4680
Riley	4680	4710
Shale	4710	5040
Benson	5040	5050
Shale	5050	5157
TD	5157	

1/4" stream water @ 98'

Gas Ck @ 2226' 14/10-2" w/mercury
Gas Ck @ 2726' 8/10-2" w/mercury

Gas Ck @ 4662' 2/10-2" w/mercury

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APR 09 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

- 1) Well Operator: ¹⁶³ CHESTERFIELD ENERGY CORPORATION 9550 (4) 535
- 2) Operator's Well Number: COLLINS WELL NO. 2 3) Elevation: 1166'
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
 435
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 5000 feet
- 7) Approximate fresh water strata depths: 125' 590' 330'-363'
- 8) Approximate salt water depths: N/A ^R 1458' 3rd sub 1651'
- 9) Approximate coal seam depths: Possible coal ^{Blossom} N/A 823'-824'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill & Stimulate *New Well*
- 12)

CASING AND TUBING PROGRAM

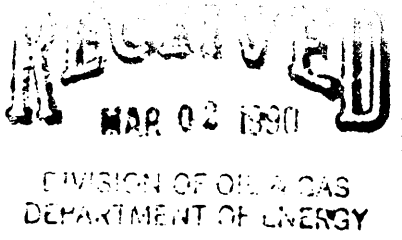
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
MA 2/28/90 Conductor	11-3/4"			30'	0'	0 Sacks
Fresh Water	8-5/8"			1324'	1324'	CTS by 38 CSR 18-11.3
Coal						38CS18-11.2.2
Intermediate						
Production	4-1/2"			5000'	5000'	CTS or by 38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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 MAR 02 1990

For Division of Oil and Gas Use Only
 DEPARTMENT OF ENERGY

9150
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket one Agent
 (Type)



1) Date: February 7th, 1990
2) Operator's well number
COLLINS WELL NO. 2
3) API Well No: 47 - 095 - 1372
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Neal A. & Lila Collins
Address Rt. 1, Box 1A
Pennsboro, WV 26415
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Glen P. Robinson
Address Rt.1, #6Mt. Pleasant Est.
Mineralwells, WV 26150
Telephone (304)- 489 - 2736

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
XXX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 7 on the above named parties, by:

- ____ Personal Service (Affidavit attached)
- ____ Certified Mail (Postmarked postal receipt attached)
- ____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Chesterfield Energy Corporation
By: [Signature]
Its: _____
Address 203 West Main Street
Clarksburg, WV 26301
Telephone 623 - 5467

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

[Signature]
My commission expires July 21, 1994 Notary Public