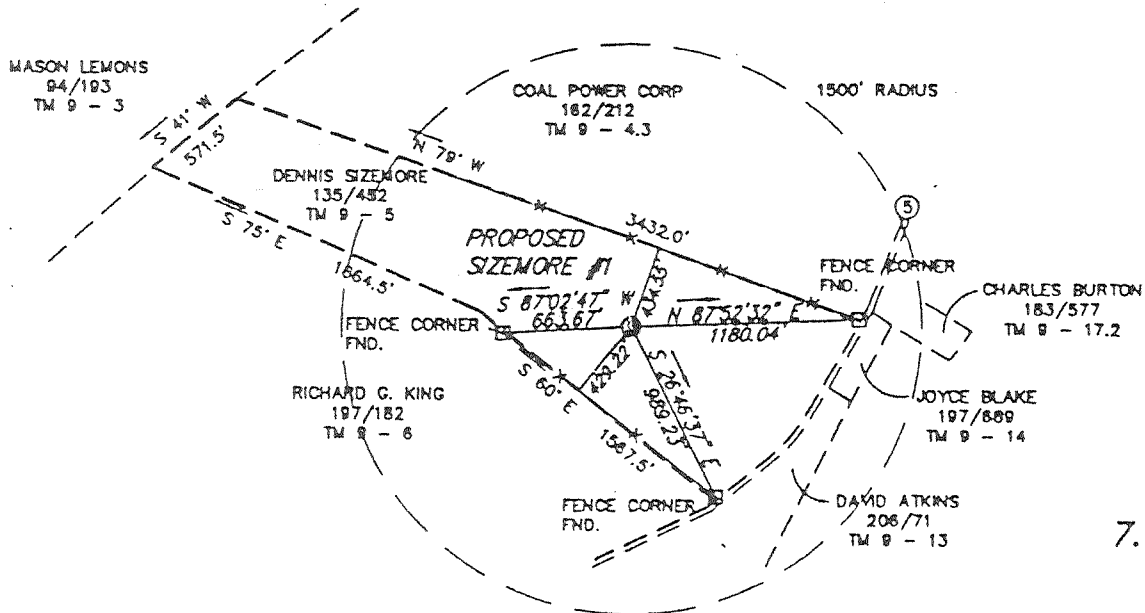


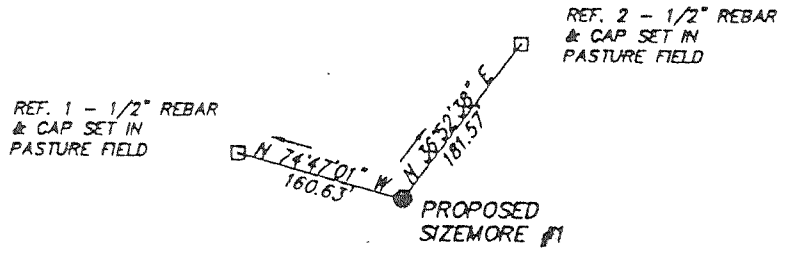
LATITUDE 37° 42' 30"

LONGITUDE 80° 32' 30"



7.5' LOC.

REFERENCES N.T.S.

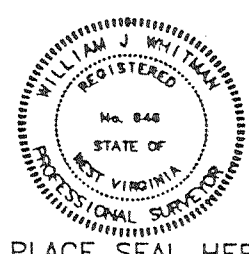


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 8723-522  
 DRAWING No. SIZEMORE #1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION USGS BM 17RAP 1969  
 ELEV. 2129

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) William J. Whitman R.P.S.  
 R.P.E. \_\_\_\_\_ R.P.S. 646



PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV

DATE NOVEMBER 7 19 96  
 OPERATOR'S WELL No. SIZEMORE #1  
 API WELL No. 47 063 - 00012F

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 2317.04 WATER SHED SECOND CREEK OF GREENBRIER RIVER  
 DISTRICT SECOND CREEK COUNTY MONROE  
 QUADRANGLE FORT SPRING, W. VA

SURFACE OWNER DENNIS SIZEMORE ACREAGE 57.13  
 OIL & GAS ROYALTY OWNER FRANCES SIZEMORE LEASE ACREAGE 57.13  
 LEASE No. \_\_\_\_\_

PROPOSED WORK: DRILL  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 \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_

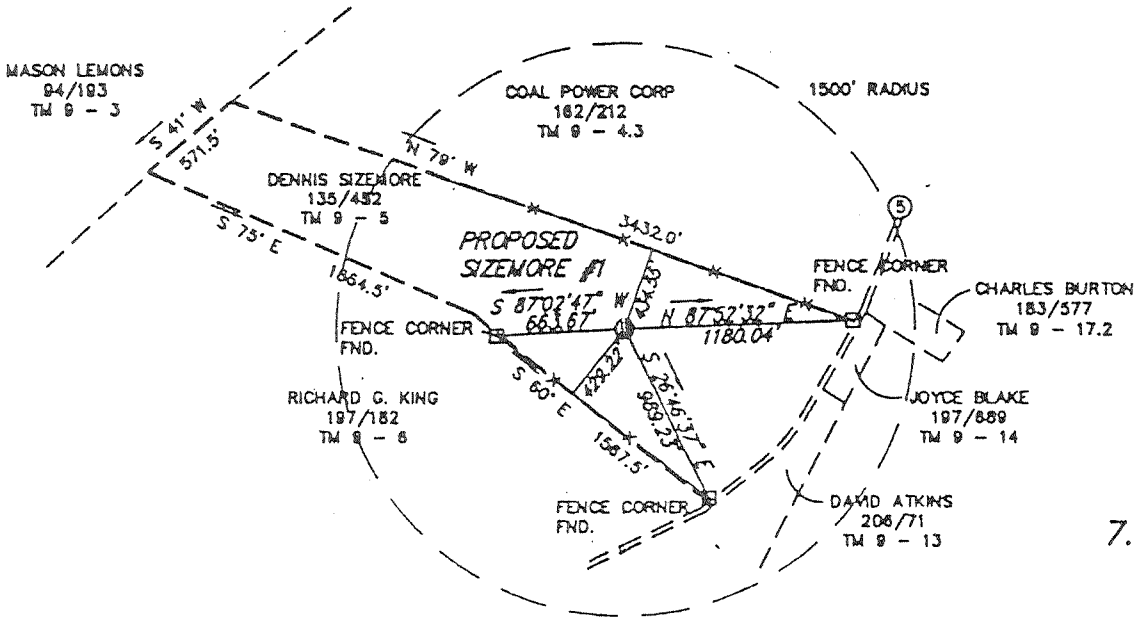
WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID McCLUSKEY  
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473  
CHARLESTON, W. VA. CHARLESTON, W. VA.

APR 21 2000

MON 0012F

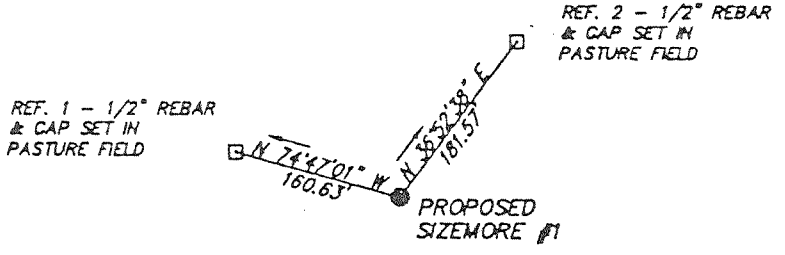
LATITUDE 37° 42' 30"

LONGITUDE 80° 32' 30"




0.185  
0.082

REFERENCES N.T.S.



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

FILE No <u>8723-522</u> DRAWING No. <u>SIZEMORE #1</u> SCALE <u>1" = 1000'</u> MINIMUM DEGREE OF ACCURACY <u>1 : 2500</u> PROVEN SOURCE OF ELEVATION <u>USGS BM 17RAP 1969</u> <u>ELEV. 2129</u>	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) <u><i>William J. Whitman</i></u> R.P.E. _____ R.P.S. <u>646</u>	 PLACE SEAL HERE
---	--	--

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV

DATE NOVEMBER 7 19 96  
 OPERATOR'S WELL No. SIZEMORE #1  
 API WELL No. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 063 00012F  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  STATE COUNTY PERMIT

LOCATION: ELEVATION 2317.04 WATER SHED SECOND CREEK OF GREENBRIER RIVER  
 DISTRICT SECOND CREEK COUNTY MONROE  
 QUADRANGLE FORT SPRING, W. VA

SURFACE OWNER DENNIS SIZEMORE ACREAGE 57.13  
 OIL & GAS ROYALTY OWNER FRANCES SIZEMORE LEASE ACREAGE 57.13  
 LEASE No. \_\_\_\_\_

PROPOSED WORK: DRILL  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 \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_ MAR 3 2000

WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID McCLUSKEY  
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473  
CHARLESTON, W. VA. CHARLESTON, W. VA.

FORM IV-6 (8-78)

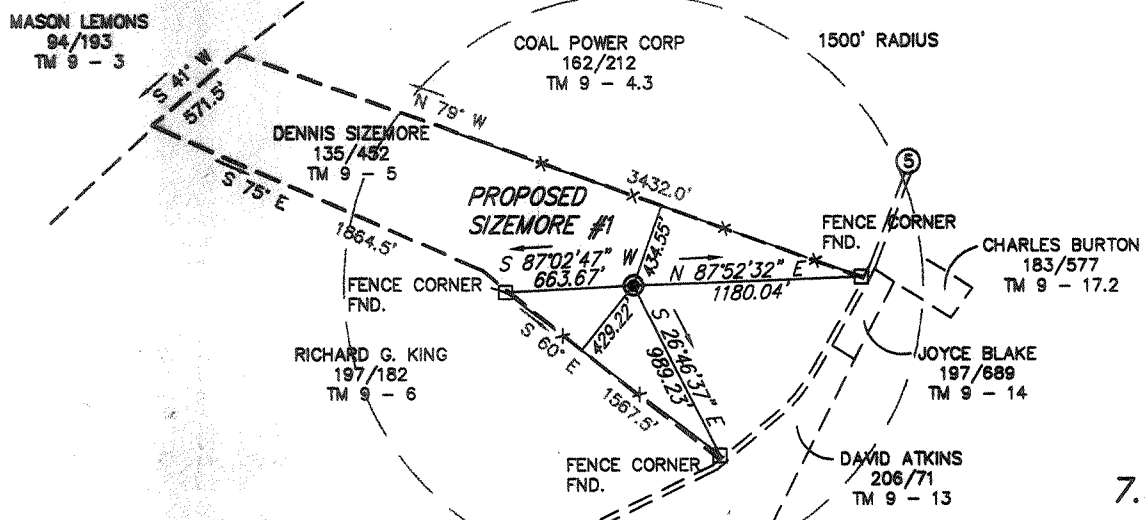
MON 0012 F

*Jamie  
12/3/96*

LATITUDE 37° 42' 30"

*Greenbrier Co  
Monroe Co.*

LONGITUDE 80° 32' 30"

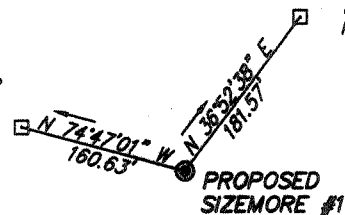


7.5' LOC.

REFERENCES N.T.S.

REF. 1 - 1/2" REBAR & CAP SET IN PASTURE FIELD

REF. 2 - 1/2" REBAR & CAP SET IN PASTURE FIELD



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

FILE No 8723-522  
 DRAWING No. SIZEMORE #1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION USGS BM 17RAP 1969  
 ELEV. 2129

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(SIGNED) *William J. Whitman*  
 R.P.E. R.P.S. 646



PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV



DATE NOVEMBER 7 19 96  
 OPERATOR'S WELL No. SIZEMORE #1  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 063 PERMIT 00012  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 2317.04 WATER SHED SECOND CREEK OF GREENBRIER RIVER  
 DISTRICT SECOND CREEK COUNTY MONROE  
 QUADRANGLE FORT SPRING, W. VA

SURFACE OWNER DENNIS SIZEMORE ACREAGE 57.13  
 OIL & GAS ROYALTY OWNER FRANCES SIZEMORE LEASE ACREAGE 57.13  
 LEASE No. \_\_\_\_\_

PROPOSED WORK: DRILL  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 Tuscarora ESTIMATED DEPTH 9000'  
 WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT DAVID McCLUSKEY  
 ADDRESS P.O. BOX 1473 ADDRESS P.O. BOX 1473  
 CHARLESTON, W. VA. CHARLESTON, W. VA.

DEEP WELL

1-1 000

FORM IV-6 (8-78)

WR-38  
20-Apr-00

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
SECTION OF OIL AND GAS  
AFFIDAVIT OF PLUGGING AND FILLING WELL

47-063-00012

AFFIDAVIT SHOULD BE IN TRIPLICATED, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Sizemore, Frances Gaye R. Operator Well No.: F. Sizemore #1  
LOCATION: Elevation: 2317.04' Quadrangle: Fort Spring  
District: Second Creek County: Monroe  
Latitude: 9,100 feet South of 37 DEG. 42 MIN. 30 SEC.  
Longitude: 450 feet West of 80 DEG. 32 MIN. 30 SEC.

Well Type: OIL      GAS   X  

Company: Cabot Oil & Gas Corp.  
400 Fairway Drive Ste. 400  
Coraopolis, PA 15108

Coal Operator Frances Gaye R. Sizemore  
or Owner Route 1, Box 334  
Ronceverte, WV 24970

Agent: John W. Abshire

Coal Operator  
or Owner

RECEIVED  
Office of Oil & Gas  
Permitting  
MAY 01 2000  
WV Division of  
Environmental Protection

Permit Issued: 4/20/00

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Allegheny

ss:

Mike Brogan

And

Doug Gosnell

first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Rodney Dillon Oil and Gas Inspector representing the Director, say that said work was commenced on the 20<sup>th</sup> day of March, 20 00, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED		LEFT
CIBP	7061'	7060'	4-1/2"	6087'	1918'
Cement	7060'	6447'	7"	4830'	1455'
Cement retainer	6447'	6446'	9-5/8"	0'	1687'
Cement	6446'	6166'	13-3/8"	0'	655'
Gel	6166'	6087'	20"	0'	72'
Cement	6087'	5973'			
Gel	5973'	4830'			
Cement	4830'	4730'			
Gel	4730'	1774'			
Cement	1774'	1574'			
Gel	1574'	100'			
Cement	100'	Surface			

Description of monument: 3' x 7" casing marker with identifying plaque  
and that the work of plugging and filling said well was completed on the 13<sup>th</sup> day of April, 20 00

And further deponents saith not.

*Michael Brogan*  
*Doug Gosnell*

Sworn and subscribe before me this 27<sup>th</sup> day of April, 20 00

My commission expires: April 30, 2001

*Susan K. Hayden*  
Notary Public

Oil and Gas Inspector: \_\_\_\_\_

Notarial Seal  
Susan K. Hayden, Notary Public  
Moon Township, Allegheny County  
My Commission Expires: \_\_\_\_\_  
Mentioned in the State of West Virginia

MAY 19 2000

47-063-00012

063-00012

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

22910

- 1) Well Operator: Cabot Oil & Gas Corporation <sup>149</sup> 8145 (2) 353
- 2) Operator's Well Number: F. Sizemore #1 3) Elevation: 2317.04
- 4) Well Type: a) Oil      / or Gas X / issued 12/02/96  
                   b) If Gas: Production X / Underground Storage      /  
                                   Deep X / Shallow      / Expires 12/02/98
- 5) Proposed Target Formation(s): Tuscarora 5'5
- 6) Proposed Total Depth: 9000 feet
- 7) Approximate fresh water strata depths: 184', 585'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes      / No X /
- 11) Proposed Well Work: Drill and complete a gas well. *New Well*
- 12) Based on Monroe 0009

RECEIVED  
WV Division of  
Environmental Protection  
NOV 15 1996  
Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

.TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	20"	L.S.	94#	30'	30'	30 sks (GFS)
Fresh Water	13-3/8"	L.S.	54.5#	650'	650'	500 sks (CTS)
Coal	9-5/8"	J-55	36#	1650'	1650'	580 sks (CTS)
Intermediate	7"	J-55	26#	3300'	3300'	160 sks
			23#	3400'	3400'	
Production	4-1/2"	N-80	11.6#	8950'	8950'	70 sks
Tubing						
Liners						

*38CSR18113*  
*38CSR1811.2.2*  
*38CSR1811.1*

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

For Office of Oil and Gas Use Only

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

*1/20/03*  
*33*

*12*

RECEIVED  
NOV 15 1996

1) Date: November 14, 1996  
2) Operator's well number  
F. Sizemore #1  
3) API Well No: 47 - 063 - 00012  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
(a) Name Frances Gaye R. Sizemore Name Not Operated  
Address Rt. 1 Box 334 Address  
Ronceverte, WV 24970  
(b) Name (b) Coal Owner(s) with Declaration  
Address Name Frances Gaye R. Sizemore  
Address Rt. 1 Box 334  
Ronceverte, WV 24970  
(c) Name  
Address  
6) Inspector Rodney A. Dillon (c) Coal Lessee with Declaration  
Address P.O. Box 131 Name  
Bradley, WV 25818-0131 Address  
Telephone (304)- 465-1911

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

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

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

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

I have read and understand Chapter 22-6 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 Cabot Oil & Gas Corporation  
By: John W. ...  
Its: Geologist  
Address 400 Fairway Drive Suite 400  
Coraopolis, PA 15108  
Telephone (412) 299-7000

Subscribed and sworn before me this 14th day of NOVEMBER, 1996  
Cynthia M. Stegenga Notary Public  
My commission expires JUNE 17, 2000

Notarial Seal  
Cynthia M. Stegenga, Notary Public  
West Bethlehem Twp., Washington County  
My Commission Expires June 17, 2000  
Member, Pennsylvania Association of Notaries

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

Farm name: Sizemore, Frances Gaye R. Operator Well No.: F. Sizemore #1

LOCATION: Elevation: 2,317.04 Quadrangle: Fort Spring  
District: Second Creek County: Monroe  
Latitude: 9,100 Feet South of 37 Deg. 42 Min. 30 Sec.  
Longitude: 450 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Cabot Oil & Gas Corporation  
400 Fairway Drive: Suite 400  
Coraopolis, PA 15108-4308

Agent: John Abshire  
Inspector: Rodney Dillon  
Permit Issued: 12/2/96  
Well Work Commenced: 1/15/97  
Well Work Completed: Testing  
Verbal Plugging  
Permission granted on:  
Rotary X Cable      Rig       
Total Depth (feet) 8044'  
Fresh Water Depths (ft) 457', 550', 700'  
Salt Water Depths (ft) 5395' (damp)  
Is coal being mined in area (Y / N)?      N       
Coal Depths (ft)     

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
20"	72'	72'	30 sks (GFS)
13-3/8"	655'	655'	480 sks Class "A"
9-5/8"	1687'	1687'	550 sks Class "A"
7"	6285'	6285'	140 sks Class "A"
4-1/2"	8005'	8005'	180 sks Class "A"

OPEN FLOW DATA

Producing formation      Tuscarora      Pay zone depth (ft)      7885' - 7930'  
Gas: Initial open flow      --      MCF/d Oil: Initial open flow      N/A      Bbl/d  
Final open flow      testing      MCF/d Final open flow      N/A      Bbl/d  
Time of open flow between initial and final tests      --      Hours  
Static rock pressure      1580      psig (surface pressure after      48      Hours

Second producing formation      Heling Springs      Pay zone depth (ft)      6526' - 6558'  
Gas: Initial open flow      --      MCF/d Oil: Initial open flow      N/A      Bbl/d  
Final open flow      testing      MCF/d Final open flow      N/A      Bbl/d  
Time of open flow between initial and final tests      --      Hours  
Static rock pressure      1300      psig (surface pressure after      14      Hours

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

For: CABOT OIL & GAS CORPORATION

FEB 06 1998

By:      Ray Prudnick, Jr.       
Date:      1-23-98

**OPEN FLOW DATA**

Third Producing formation	<u>Rocky Gap/Hejling Springs</u>	Pay zone depth (ft)	<u>6462' - 6576'</u>
Gas: Initial open flow	<u>--</u>	MCF/d Oil:	Initial open flow <u>N/A</u> Bbl/d
Final open flow	<u>testing</u>	MCF/d	Final open flow <u>N/A</u> Bbl/d
Time of open flow between initial and final tests	<u>--</u>		Hours
Static rock pressure	<u>1290</u>	psig (surface pressure after	<u>90</u> Hours

Perf'd Tuscarora @ 7885'-7930'. Broke down with 750gals 28% HCl acid and 50 bbls of treated H<sub>2</sub>O. Breakdown pressure 2000 psi. ISIP: 2000 psi. Frac with 30# gel system, 10,000# 80/100 mesh sand and 32,800# 20/40 mesh sand. ATP: 4185 psi. MTP: 6260 psi. AIR: 20 bpm. ISIP: 3850 psi.

Perf'd Hejling Springs @ 6526'-6558'. Broke down with 3000 gals 28% matrix acid and treated fluid. No definite break was seen. ISIP: 540 psi. Treated with 6000 gals 15% HCl gelled acid, treated H<sub>2</sub>O and 244,500 scf N<sub>2</sub>. ATP: 2480 psi. MTP: 2530 psi. AIR: 20 bpm. ISIP: 900 psi.

Perf'd Rocky Gap/Hejling Springs @ 6462'-6576'. No pressure seen on breakdown. Well on vacuum. Frac with 25# x-link, 11,500# 80/100 mesh sand and 148,900# 20/40 mesh sand. 278,900 scf N<sub>2</sub>. ATP: 1480 psi. MTP: 2310 psi. AIR: 15 bpm. ISIP: 1885 psi.

FORMATION	TOP	BOTTOM	REMARKS
Sand/Shale	0	758	
Shale/Silt	758	1130	
Sand	1130	1212	
Shale	1212	1375	
RV	1375	1455	
Shale	1455	1488	
Avis	1488	1530	
Shale	1530	1970	
Maxton	1970	1988	
Shale	1988	2092	
Maxton	2092	2100	
Shale	2100	2234	
Maxton	2234	2242	
Shale	2242	3518 - TD	





STATE OF WEST VIRGINIA  
**OIL AND GAS CONSERVATION COMMISSION**  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

November 18, 1996

Division of Environmental Protection  
Office of Oil and Gas  
Nitro, West Virginia

Re: Application for Permit #47-063-00012 drill deep well.

COMPANY: Cabot Oil & Gas, Inc.

FARM: Sizemore #1

COUNTY: Monroe DISTRICT: Second Creek QUAD: Fort Spring

The application of the above company is Approved for Tuscarora.  
(Approved or Disapproved)

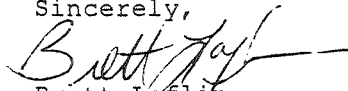
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; none

3.) Provided a plat showing that the proposed location is a distance of **429** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

  
Brett Loflin  
Engineer