



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle RAVEN ROCK  
Permit No. 47 073 0819

Rotary  Oil   
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company J. F. DEEM  
Address 5518 2ND AVE VIENNA, WV  
Farm ROBERT OTTRILL Acres 19.63  
Location (waters) OHIO RIVER  
Well No. I Elev. 615  
District WASHINGTON County PLEASANTS  
The surface of tract is owned in fee by ABOVE  
Address ST. MARYS, W. VA.  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced 7-1-80  
Drilling Completed 7-15-80  
Initial open flow 0 cu. ft. 0 bbls.  
Final production 180M cu. ft. per day 40 bbls.  
Well open \_\_\_\_\_ hrs. before test 650 RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	60	60	
9 5/8	75	75	
8 5/8	312	312	
7	1447	1447	
5 1/2			
4 1/2	3371	3371	
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 60 Feet \_\_\_\_\_ Salt Water 1090 Feet \_\_\_\_\_  
Producing Sand SHALE Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand	Grey	Soft	0	10		
Gravel	Grey	Soft	10	60		
Shale	Grey	Soft	60	64		
Sand	Grey	Soft	64	80		
Coal	Black	Soft	80	84		
R R	Red	Soft	84	106		
Shale	Grey	Soft	106	135		
R R	Red	Soft	135	150		
Shale	Grey	Soft	150	210		
R R	Red	Soft	210	240		
Shale	Grey	Soft	240	310		
R R	Red	Soft	310	330		
Shale	Grey	Soft	310	415		
R R	RED	Soft	415	438		
Shale	Grey	Soft	438	500		
R R	Red	Soft	500	515		
Shale	Grey	Soft	515	1200		
Shale	Grey	Soft	1200	1210		
Sand	Grey	Soft	1220	1230		
Sand	Grey	Soft	1290	1300		
Shale	Grey	Soft	1608	1618		
Shake	Grey	Soft	1618	1628		
Shale	Grey	Soft	1628	1765		
Shale	Grey	Soft	1765	1810		

(over)

\* Indicates Electric Log tops in the remarks section.

PLATS 879

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Grey	Soft	1810	2310		
Shale	Grey	Soft	2310	2320		
Sand	Grey	Soft	2320	2500		
Shale	Grey	Soft	2500	2550		
Sand	Grey	Soft	2550	2560		
Shale	Grey	Soft	2560	3419		Total Depth

Date 10-27, 1980

APPROVED J. F. Deam, Owner

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

RECEIVED

JUL 22 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES  
Oil or Gas Well (KIND)

Permit No. B-879

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>J. Kent Dean</u>	Size			
<u>Parkersburg W. Va.</u>	16			Kind of Packer
<u>Robert Colwell</u>	13			
Well No. <u>1</u>	10	<u>300</u>	<u>300</u>	Size of
District <u>Washington</u> County <u>Plasent</u>	8 1/4			
Drilling commenced	6%			Depth set
Drilling completed	5 3/16			
Total depth <u>300</u>	3			Perf. top
Date shot	2			Perf. bottom
Depth of shot	Liners Used			Perf. top
Initial open flow				Perf. bottom
/10ths Water in				
Inch				
Open flow after tubing				
/10ths Merc. in				
Inch				
Volume	CASING CEMENTED <u>10 3/4</u>	SIZE <u>300</u>	No. FT. <u>7-18-80</u>	Date
Cu. Ft.	NAME OF SERVICE COMPANY <u>Daught</u>			
Rock pressure	COAL WAS ENCOUNTERED AT			
lbs.	FEET			
hrs.	INCHES			
Oil	FEET			
bbls., 1st 24 hrs.	INCHES			
Fresh water	FEET			
feet	INCHES			
feet	FEET			
Salt water	INCHES			
feet	FEET			
feet	INCHES			

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

Remarks:

July 15, 80  
DATE

Phil Gray 512  
DISTRICT WELL INSPECTOR





State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

00G-034

WALTER N. MILLER  
DIRECTOR

August 29, 1980

Mr. J. F. Deem  
4541 Emerson  
Parkersburg, WV

Re: Venting or Flaring Gas - St. Marys Field

Dear Sir:

The Office of Oil and Gas has received Gas/Oil Ratio tests for four (4) wells in the St. Marys Field.

The Office is in receipt today, August 29, 1980, of a plan to prevent waste of gas in the St. Marys Field from the L & B Oil Company, Inc. The plan states that the proposal is sponsored by L & B Oil Company, Inc., Haught, Inc., Carbonit Exploration, Inc., Big Injun Drilling Company, Lauderman Oil & Gas Drilling Company, and C. W. Riggs, Inc.

The plan calls for pipeline completion and presumable connection of all wells by September 30, 1980.

The Office finds that even restricted production of oil for a period of thirty (30) days would result in an unconscionable waste of gas. Therefore, production of oil by the wasting of gas shall cease until a plan of operation is received and approved.

Very truly yours,

Thomas E. Huzzey  
Administrator

TEH/rf

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

INSPECTOR'S WELL REPORT

Permit No. 13-879

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

Company J. Frank Dumei  
 Address Parkersburg W. Va.  
 Farm Robert Coltrill  
 Well No. 1  
 District Washington County Plum  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	Left in well	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

RECEIVED

AUG 18 1980

OIL & GAS DIVISION  
DEPT. OF MINES

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

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

Remarks: Met with the well tender about shutting well in

Aug 12, 80  
DATE

Phil Gray 512  
DISTRICT WELL INSPECTOR

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

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

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

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

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

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

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

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

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

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

DATE

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

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

INSPECTOR'S WELL REPORT

Permit No. 73-879

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

Company J Frank Dan  
 Address Herbersburg W Va  
 Farm Robert Coltrill  
 Well No. 1  
 District Washington County Summit  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

RECEIVED

AUG 27 1980

OIL & GAS DIVISION  
DEPT. OF MINES

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

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

Remarks: Well was blowing off out of separator called out the well tender got him to shut well in

Aug 23, 80  
DATE

Phil Gray 372  
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

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

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

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

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

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

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

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

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

*[Faint handwritten notes and signatures are visible in this section.]*

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

DATE

\_\_\_\_\_

\_\_\_\_\_

DISTRICT WELL INSPECTOR



**RECEIVED**  
MAY 23 1984  
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  
January 17, 1984

COMPANY J. F. Deem  
5518 Second Avenue  
Vienna, West Virginia 26105

PERMIT NO 073-0879  
FARM & WELL NO R. Cottrill #1  
DIST. & COUNTY Washington/Pleasants

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

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

SIGNED R.A. Lowther  
DATE May 25, 1984

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.

\_\_\_\_\_  
Administrator-Oil & Gas Division  
\_\_\_\_\_  
DATE

RECEIVED  
DEPT. OF MINES  
OIL & GAS DIVISION



State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

COMPANY \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PERMIT NO \_\_\_\_\_  
FARM & WELL NO \_\_\_\_\_  
DIST. & COUNTY \_\_\_\_\_

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to Starting Work	_____	_____
16.01	Required Permits at Wellsite	_____	_____
17.02	Method of Plugging	_____	_____
18.01	Materials used in Plugging	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
17.06	Statutory Affidavit	_____	_____
7.06	Parties Responsible	_____	_____
7.05	Identification Markings	_____	_____

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

SIGNED \_\_\_\_\_

DATE \_\_\_\_\_

Your Affidavit of Plugging was received and reclamation requirements approved.  
The well designated by the above permit number has been released under your bond.

\_\_\_\_\_  
Administrator-Oil & Gas Division

\_\_\_\_\_  
DATE



State of West Virginia  
 Department of Mines  
 Oil and Gas Division  
 Charleston 25305  
 May 30, 1984

WALTER N. MILLER  
 DIRECTOR

THEODORE M. STREIT  
 ADMINISTRATOR

J. Frank Deem  
 4541 Emerson Avenue  
 Parkersburg, W.Va. 26101

In Re: PERMIT NO: 073-0879  
 FARM: Robert Cottrill  
 WELL NO: One  
 DISTRICT: Washington  
 COUNTY: Pleasants  
 ISSUED: 6-26-80

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. Only the column checked below applies:

         The well designated by the above permit number has been released under your Blanket Bond.

         Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

Very truly yours,

Theodore M. Streit, Administrator  
 Office of Oil & Gas - Dept. Mines

1.0 API well number: (If not available, leave blank. 14 digits.)	47 PLES 47 073 0				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 / Section of NGPA		RECEIVED OCT 27 1980 Category		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3418 feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	J. F. DEEM Name		OIL & GAS DIVISION DEPT. OF MINES Seller Code		
	5518 20 AVE Street		WV 26105 State Zip Code		
	VIENNA City		WV 26105 State Zip Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name) (b) For OCS wells:	ST. MARYS Field Name		W. V. State		
	PLEASANTS County		W. V. State		
	Area Name		Block Number		
	Date of Lease: _____ Mo. Day Yr.				
	OCS Lease Number		_____		
(c) Name and code number of this well: (35 letters and digits maximum.)	COTTRILL #1				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	COLUMBIA GAS TRANSMISSION Name		004030 Buyer Code		
(b) Date of the contract:	11, 5, 1980 Mo. Day Yr.				
(c) Estimated annual production:	6 MMcf.				
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		---	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		---	---	---	---
9.0 Person responsible for this application:	J. F. DEEM Name				
Agency Use Only Date Received by Juris. Agency OCT 27 1980 Date Received by FERC	J. F. Deem Signature		OWNER Title		
	10-27-80 Date Application is Completed		304 295 8836 Phone Number		

PARTICIPANTS:

DATE: MAR 30 1981

BUYER-SELLER CODE

WELL OPERATOR:

J.F. Deem

004973

FIRST PURCHASER:

Columbia Gas Transmission Corp.

004030

OTHER: \_\_\_\_\_

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
801027.103.073:0879  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

*OK map OK*  
~~PH P Productions NOT shown~~  
~~Deposited for hearing 4/5/81~~  
**QUALIFIED** *J. H. Haggerty*

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. \_\_\_\_\_
- 2. IV-1 Agent \_\_\_\_\_ in state operator, J.F. Deem
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening \_\_\_\_\_
- 6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?  Affidavit Signed
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: 7-1-80 Date completed 7-15-80 Deepened \_\_\_\_\_
- (5) Production Depth: Not show 2560 - 3419 T.D.
- (5) Production Formation: shale
- (5) Final Open Flow: 180 M.C.F
- (5) After Frac. R. P. 650
- (6) Other Gas Test: \_\_\_\_\_
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_
- (5) Oil Production: yes From Completion Report 4066 PSIG from Daily Re: \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done \_\_\_\_\_
- 10-17. Is affidavit signed?  Notarized?
- Does official well record with the Department confirm the submitted information?
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? SB

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

Date 10-27 1980

Operator's  
Well No. 1

API Well  
No. 47 State WV County PLEASANTS Permit 470730879

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT J. F. DEEM  
ADDRESS 5518 2ND AVE  
VIENNA, W. VA. 26105

WELL OPERATOR J. F. DEEM  
ADDRESS 5518 2ND AVE  
VIENNA, WV 26105  
GAS PURCHASER COLUMBIA GAS  
ADDRESS CHARLESTON, W VA

LOCATION: Elevation 615  
Watershed OHIO RIVER  
Dist. WASH County PLEASANTS Quad. RAVEN ROCK  
Gas Purchase  
Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: 7-1-80

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

$$BHP = \text{Wellhead pressure} + .25 \left( \frac{\text{press.}}{100} + \frac{\text{midpoint}}{100} \right)$$
$$650 + .25 \left( \frac{650}{100} + \frac{1710}{100} \right) = 655.9 + 14.7 \text{ atm} = 670.6 \text{ psia}$$

AFFIDAVIT

I, J. F. Deem, 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.

J. F. Deem

STATE OF WEST VIRGINIA,  
COUNTY OF Kanawha, TO WIT:

I, Judith M. Schultz, a Notary Public in and for the state and county aforesaid, do certify that J. F. Deem, whose name is signed to the writing above, bearing date the 27 day of October, 1980, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 27 day of October, 1980.  
My term of office expires on the 21 day of February, 1982.

[NOTARIAL SEAL]

Judith M. Schultz  
Notary Public



State of West Virginia

Department of Mines  
Oil and Gas Division

Charleston 25305

WALTER N. MILLER  
DIRECTOR

00G-031

August 29, 1980

Mr. Bill Covell, City Manager  
City of St. Marys  
418 Second Street  
St. Marys, West Virginia 26170

Re: Enclosed shut-in orders

Dear Mr. Covell:

The enclosed orders were issued by the Office of Oil and Gas to prevent waste. They obviously cannot supercede any safety ordinances that the City of St. Marys may impose.

Very truly yours,

A handwritten signature in cursive script that reads "Thomas E. Huzzey".

Thomas E. Huzzey, Administrator  
Office of Oil and Gas

TEH/1s

Encls. as stated (5)



*J. F. DEEM*



*Oil & Gas*

4541 EMERSON AVENUE  
PARKERSBURG, WV 26101  
PHONE 422-5422

September 3, 1980

**RECEIVED**

SEP - 4 1980

Department of Mines  
Oil and Gas Division  
Charleston, WV

Re: Your letter dated 8-29-80

OIL & GAS DIVISION  
DEPT. OF MINES

Dear Mr. Huzzy:

I have the gas from my shale production returning through the annulus between my 4½" and 7" casing to another producing formation. I cannot tell which formation is taking my gas but we got oil shows in the Berea and Gordon sections.

When my well is shut in the 4½" casing we get 450# pressure over night. When the well is open to the annulus we get 350#. It is my opinion that our gas is going into the Berea formation. As you know, the Berea is still a producing horizon in the St. Marys area.

I believe feeding our gas into the oil bearing Berea formation is a good conservation practice. (I recall your telling me it takes 1,000 cubic feet of gas to produce one barrel of oil.) I further believe the long run will result in more total production of oil and gas than selling gas through the pipeline mentioned in your recent letter.

To my knowledge no other producer in the St. Marys field is injecting gas into a more shallow horizon. This is not to say the practice is not a reasonable one.

Sincerely yours,

*Frank OK*

J. F. Deem

JFD/dk

*Lois -  
File on Deem's  
well please*



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER  
DIRECTOR

Thomas E. Huzzey  
Administrator

00G-0281

May 7, 1981

J. F. Deem Oil and Gas  
4541 Emerson Avenue  
Parkersburg, WV 26101

Dear Mr. Deem:

The Office of Oil and Gas finds its files do not show a Gas-Oil ratio test for your well No. 47-073-0879.

In accord with Section 22-4-14 ".....in no case shall such gas from any well be wasted in the process of producing oil therefrom until the owner or operator of such well shall have filed with the department a plan of operation for said well showing among other things the gas-oil production ratio involved in such operation which plan shall govern the operation of said well unless the department shall, within ten (10) days from the date on which such plan is submitted to the department, make a finding that such plan fails, under all the facts and circumstances, to propose the exercise of all reasonable diligence to conserve and save from waste so much of such gas as it is reasonably possible to save, in which event production of oil at such well by the wasting of gas shall cease and desist until a plan of operation is approved by the department. Successive plans of operation may be filed by the owner or operator of any such well with the department."

So that the state may be aware of the potential waste in the event of a market failure for your well I ask that you complete the attached form from a 24 hour flow period.

Thank you,

Thomas E. Huzzey, Administrator  
Office of Oil and Gas

TEH/ls

Encl. as stated

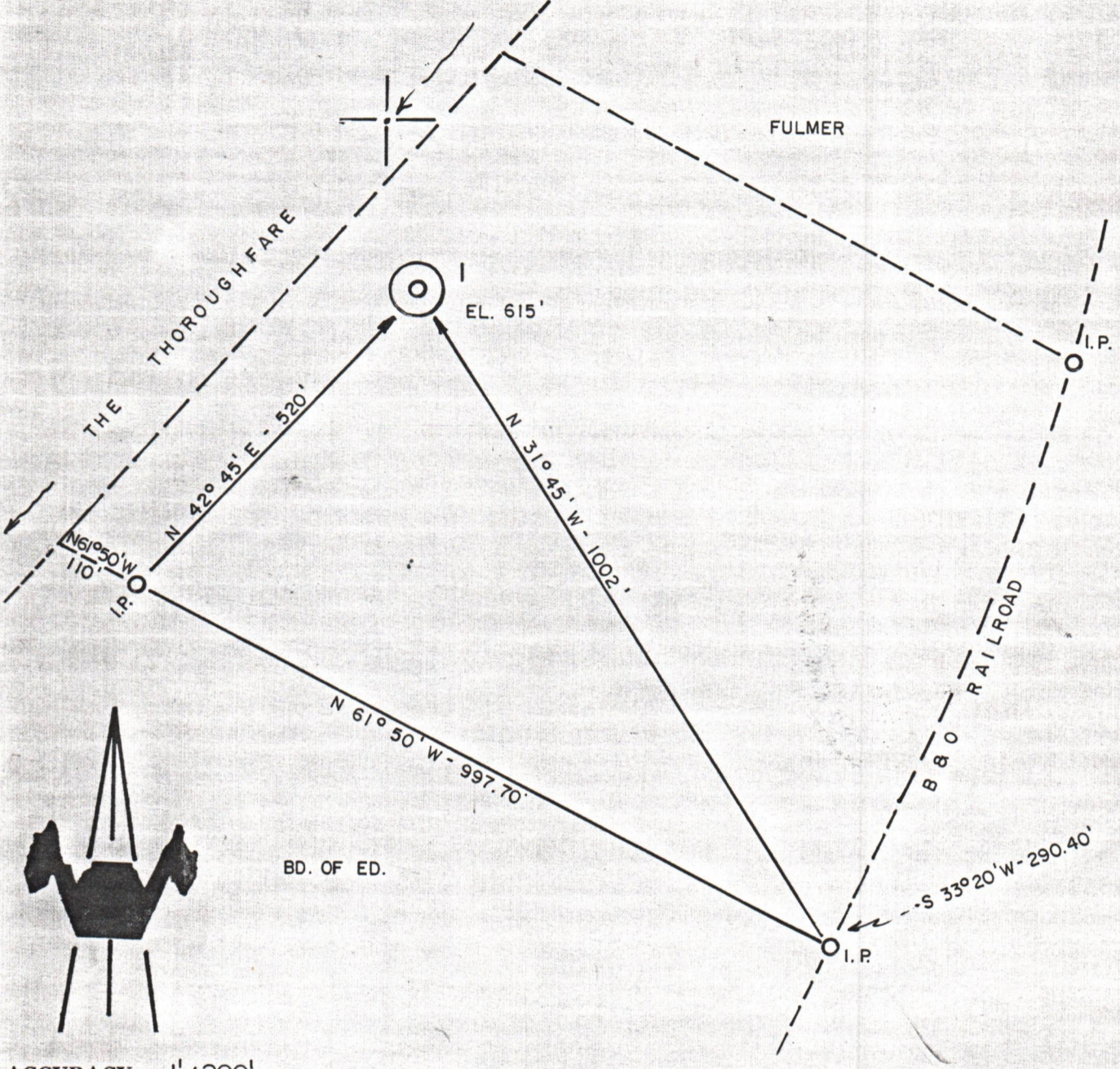
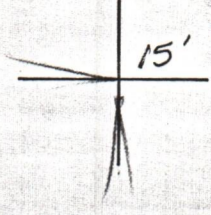
4-3

NO. 6-26-80

Latitude 39° 25' 00"

5790' SOUTH  
10,400' WEST

Longitude 81° 10' 00"



ACCURACY: 1' / 200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation SHALE Oil   
 Est. Depth 2900' Gas   
 Other

Source of Elevation B.M. ON RR (620')  
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraphs of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

*Chet Waterman*



Company J. FRANK DEEM  
 Address VIENNA, WV  
 Surface Owner ROBERT COTTRILL  
 Mineral Owner " "

Well No. 1 Acres 19.33  
 Elevation 615' ST MARY 15'  
 Quadrangle RAVEN ROCK Series 7.5'  
 County PLEASANTS District WASHINGTON  
 Date 6/10/80 Scale 1" = 200'

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

**WELL LOCATION MAP**  
47 - 073 - 0879  
 STATE COUNTY PERMIT X

+ Denotes location of well on United States Topographic Maps.  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788 File No. 80-345

3500 SHALE