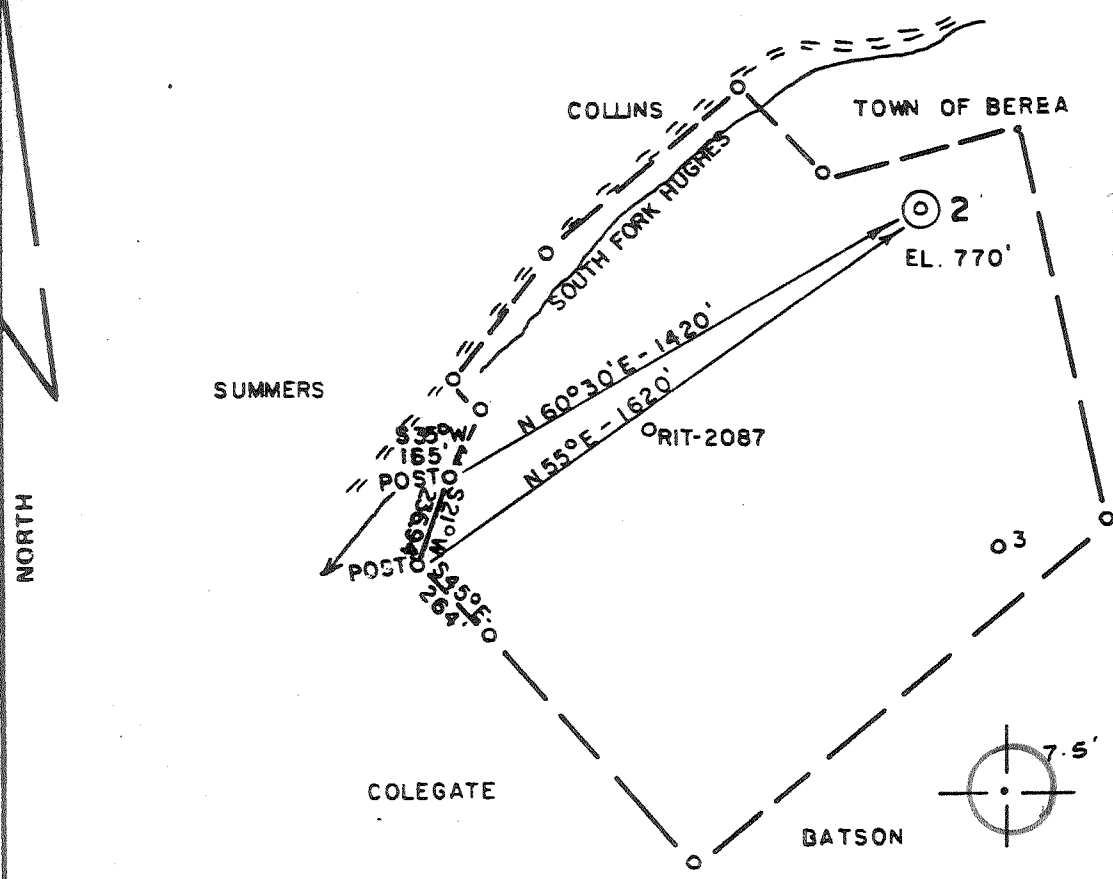


LATITUDE 39° 10' 00"

LONGITUDE 80° 55' 00"



FILE NO. 81-292
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION NOB (941')

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) Chet Waterman
 R.P.E. 3788 L.L.S. _____

PLACE SEAL HERE

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



DATE 6/4 1981
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-085-5203
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 770 WATER SHED SOUTH FORK HUGHES
 DISTRICT UNION COUNTY RITCHIE
 QUADRANGLE PULLMAN 7.5' Holbrook 15' WC
 SURFACE OWNER R. HIGGINBOTHAM ACREAGE 55
 OIL & GAS ROYALTY OWNER R. H. BEE LEASE ACREAGE 55
 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 BEREA ESTIMATED DEPTH 2500'
 WELL OPERATOR J. F. DEEM DESIGNATED AGENT SAME
 ADDRESS 5518 - 2ND AVENUE ADDRESS _____
VIENNA, WV

JUL 09 1981



IV-35
(Rev 8-81)

Date September 16, 1981
Operator's Well No. Bee #2
Farm R. Higginbotham
API No. 47 - 085 - 5203

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 770' Watershed South Fork Hughes
District: Union County Ritchie Quadrangle Pullman

COMPANY J. F. Deem
ADDRESS Vienna, WV 26105
DESIGNATED AGENT _____
ADDRESS _____
SURFACE OWNER R. Higginbotham
ADDRESS Harrisville, WV
MINERAL RIGHTS OWNER R. H. Bee
ADDRESS Harrisville, WV
OIL AND GAS INSPECTOR FOR THIS WORKK. Paul Goodnight ADDRESS Smithville, WV
PERMIT ISSUED 6-22-81
DRILLING COMMENCED 7-31-81
DRILLING COMPLETED 8-5-81
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.			
13-10"	25'	25'	
9 5/8			
8 5/8	919'	919'	
7			
5 1/2			
4 1/2	2733'	2733'	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well 3000' feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA
Producing formation up Dev. undi ff. Pay zone depth ? feet
Gas: Initial open flow 100M 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 300# psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ 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

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

Natural ? 100 mcf?

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	15	
Red Rock			15	30	
Slate			30	40	
Sand			40	110	
Red Rock			110	200	
Slate			200	255	
Red Rock			255	295	
Sand			295	320	
Slate			320	400	
Lime			400	520	
Red Rock			520	550	
Sand			550	590	
Slate			590	620	
Red Rock			620	655	
Lime			655	720	
Sand			720	760	
Slate			760	840	
Red Rock			840	900	
Slate & shells			900	945	
Slate			945	1100	
Sand			100	1135	
Slate & Shells			1135	1200	
Lime ;			1200	1225	
Slate			1225	1275	
Lime			1275	1350	
Sand			1350	1420	
Slate			1420	1600	
Sand			1600	1720	
Lime ^{big}			1720	1750	
Sand ^{B.I.}			1750	1825	
Slate			1825	1900	
Sand			1900	2050	
Slate Shells			2050	2200	
Sand ^{Berea +}			2200	2450	
Red Rock ^{Hampshire}			2450	2800	
Slate			2800	2940	
Sand ^{pay?}			2940	2960	
Slate			2960	3000	
Total Depth			3000'		

2733' of 4 1/2" in hole

(Attach separate sheets as necessary)

Well Operator

By: J. Frank Deemer

Date: 09-16-81

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."



5203

RECEIVED

JUN 23 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE June 17, 1981

Surface Owner R. Higginbotham

Company J. Frank Deem

Address Harrisville, WV

Address 5518-2nd Ave. Vienna, WV

Mineral Owner R. H. Bee

Form R. Higginbotham Acres 55

Address Harrisville, WV

Location (waters) South Fork Hughes

Coal Owner _____

Well No. 2 Elevation 770'

Address _____

District Union County Ritchie

Coal Operator _____

Quadrangle Pullman

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 2-26-82.

INSPECTOR

TO BE NOTIFIED K. Paul Goodnight

ADDRESS Smithville, WV 26178

PHONE 477-3660

J. F. Deem
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 20, 1959 1959 by Romeo H. Bee made to J. F. Deem and recorded on the 15th day of June 1959, in Ritchie County, Book 490 Page 71

NEW WELL DRILL DEEPER. REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1959.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours,

(Sign Name)

J. F. Deem
Well Operator

5518 Second Avenue
Street

Vienna, WV 26105
City or Town

State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-085-5203 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

BOND DRILL

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Carl Smith _____ NAME J. Frank Deem _____
 ADDRESS Smithville, WV _____ ADDRESS 5518 Second Avenue, Vienna, WV _____
 TELEPHONE _____ TELEPHONE 485-0506 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea _____
 TYPE OF WELL: OIL _____ GAS _____ COMB. X _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	200'	200'	70 sks.
7			
5 1/2			230
4 1/2		2300'	150 sks or three
3			Perf. Top <i>salt sand</i>
2			Perf. Bottom
LINES			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 75 FEET SALT WATER _____ FEET

APPROXIMATE COAL DEPTHS _____

IS COAL BEING MINED IN THE AREA? _____ BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title