



1) Date: Oct. 16, 19 84
 2) Operator's Well No. James S. Wells Hrs. #62
 3) API Well No. 47 - 073 - 1930
 State County Permit

RECEIVED

OCT 30 1984

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

APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 641' Watershed: Bens Run
 District: Union County: Pleasants Quadrangle: Bens Run 7.5'
- 6) WELL OPERATOR Bens Run Oil Co. 7) DESIGNATED AGENT John A. Smith
 Address 509-C Locust Ave. Address Star Route Box 105
Charlottesville, Va. 22901 Bens Run, W.V. 26135
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name John A. Smith
 Address General Delivery Address See above
Middlebourne, W.V. 26149
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale
- 12) Estimated depth of completed well, 3625' feet
- 13) Approximate trata depths: Fresh, 100' feet; salt, 400' feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No

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		
Conductor	16"				X		100'	CTS
Fresh water	11 3/4"			X	X		250'	CTS by rule 15.05
Coal								Sizes
Intermediate	8 5/8"			X			1700'	CTS
Production								Depths set
Tubing	4 1/2"			X			3625'	CTS Or by Rule 15-01
Liners								Perforations:
								Top Bottom

NOTE: **UNDEGROUND PIPELINES MUST BE LOCATED PRIOR TO GRADING OR DRILLING.**

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1930 Date January 3, 19 85

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 January 3, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>210</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>135</u>

Margaret J. Bass
Administrator, Office of Oil and Gas

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



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JAN 1 1987

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: Division: Union; County: Putnam; District: Bens Run; Well No.: 15-01

2) WELL OPERATOR: Bens Run Oil Co.; Address: 509-G Woodst. Ave., Charleston, W.V. 25301

3) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Robert Lowder; Address: General Delivery, Middlebourne, W.V. 26041

4) PROPOSED WELL WORK: Drill X; Plug off old formation; Other physical change in well (specify): Brown shale

5) GEOLOGICAL TARGET FORMATION: Brown shale

6) APPROXIMATE COAL SEAM DEPTH: 100'

7) ESTIMATED DEPTH OF COMPLETED WELL: 100'

8) APPROXIMATE STRATA DEPTHS: Test 100', Salt 400'

9) APPROXIMATE COAL SEAM DEPTHS: Yes No X

Casing or Tubing Type	Size	Grade	Weight		Use	Footage Intervals		Packers
			lb/ft	lb/ft		Start	End	
Generator	10"				X		100'	
Flow water	11 1/2"				X		20'	
Production	6 3/8"				X		1700'	

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

810	1/4	1/4	1/4	1/4	1/4
-----	-----	-----	-----	-----	-----

12/01/2023

RECEIVED

IV-8
(REV 8-81) OCT 30 1984



DATE 10 SEPTEMBER, 1984
WELL NO. JAMES S. WELLS #62
API NO. 47 - 073 - 1930

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BENS RUN OIL COMPANY
Address 509-C LOCUST AVENUE
CHARLOTTESVILLE, VA. 22901
Telephone (804) 971-6631

DESIGNATED AGENT JOHN A. SMITH
Address STAR ROUTE Box 105
BENS RUN, W.VA. 26135
Telephone (304) 684-7159

LANDOWNER FMC CORPORATION

SOIL CONS. DISTRICT UPPER OHIO

Revegetation to be carried out by JOHN A. SMITH (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan: 9-14-84 (Date)

Philip R. Brooks
SCD Agent

ACCESS ROAD

LOCATION

Structure CROSS DRAIN (A)
Spacing 45' To 400' (AS NEEDED)

Structure DIVERSION DITCH (1)
Material SOIL

Page Ref. Manual 2:1 2:2, 2:3, 2:4

Page Ref. Manual 2:12, 2:13

(HAY BALES &/ LOGS)
Structure SEDIMENT BARRIER (B)

Structure SEDIMENT BARRIER (2)

Spacing SAME AS CROSS DRAIN

Material HAY BALES &/ LOGS

Page Ref. Manual 2:9 2:16, 2:18, 2:19, 2:20

Page Ref. Manual 2:9 2:16, 2:18, 2:19, 2:20

Structure DRAINAGE DITCH (C)

Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual 2:12, 2:14

Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch HAY OR STRAW 2 Tons/acre
Seed* ORCHARD GRASS 12 lbs/acre
LADINO CLOVER 5 lbs/acre
TIMOTHY 6 lbs/acre

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch HAY OR STRAW 2 Tons/acre
Seed* ORCHARD GRASS 12 lbs/acre
LADINO CLOVER 5 lbs/acre
TIMOTHY 6 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.


PLAN PREPARED BY WILLIAM R. MOSSOR L.L.S.
ADDRESS 106 NORTH SPRING STREET
HARRISVILLE, W. VA. 26362
PHONE NO. (304) 643-4572


12/01/2023

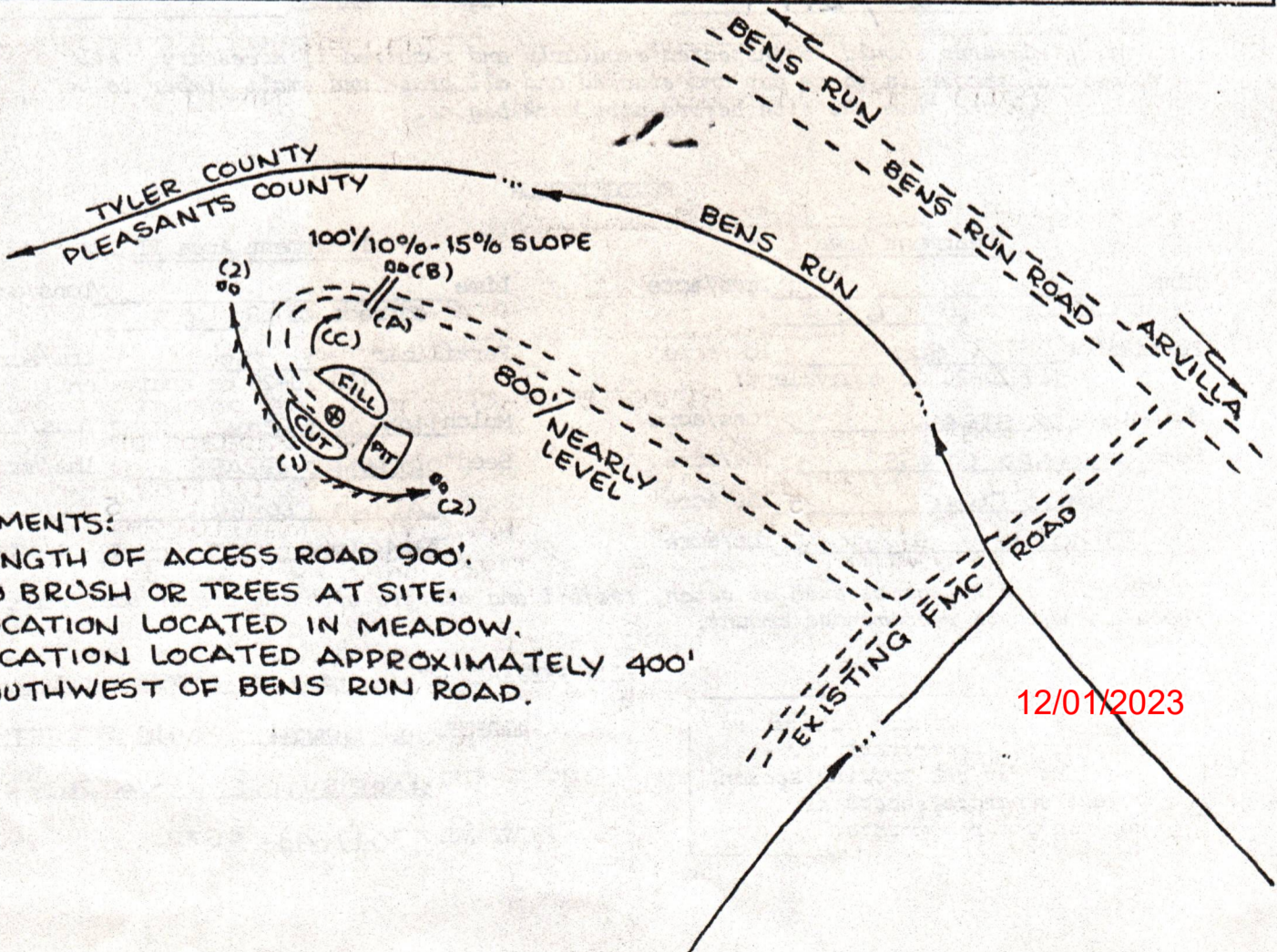
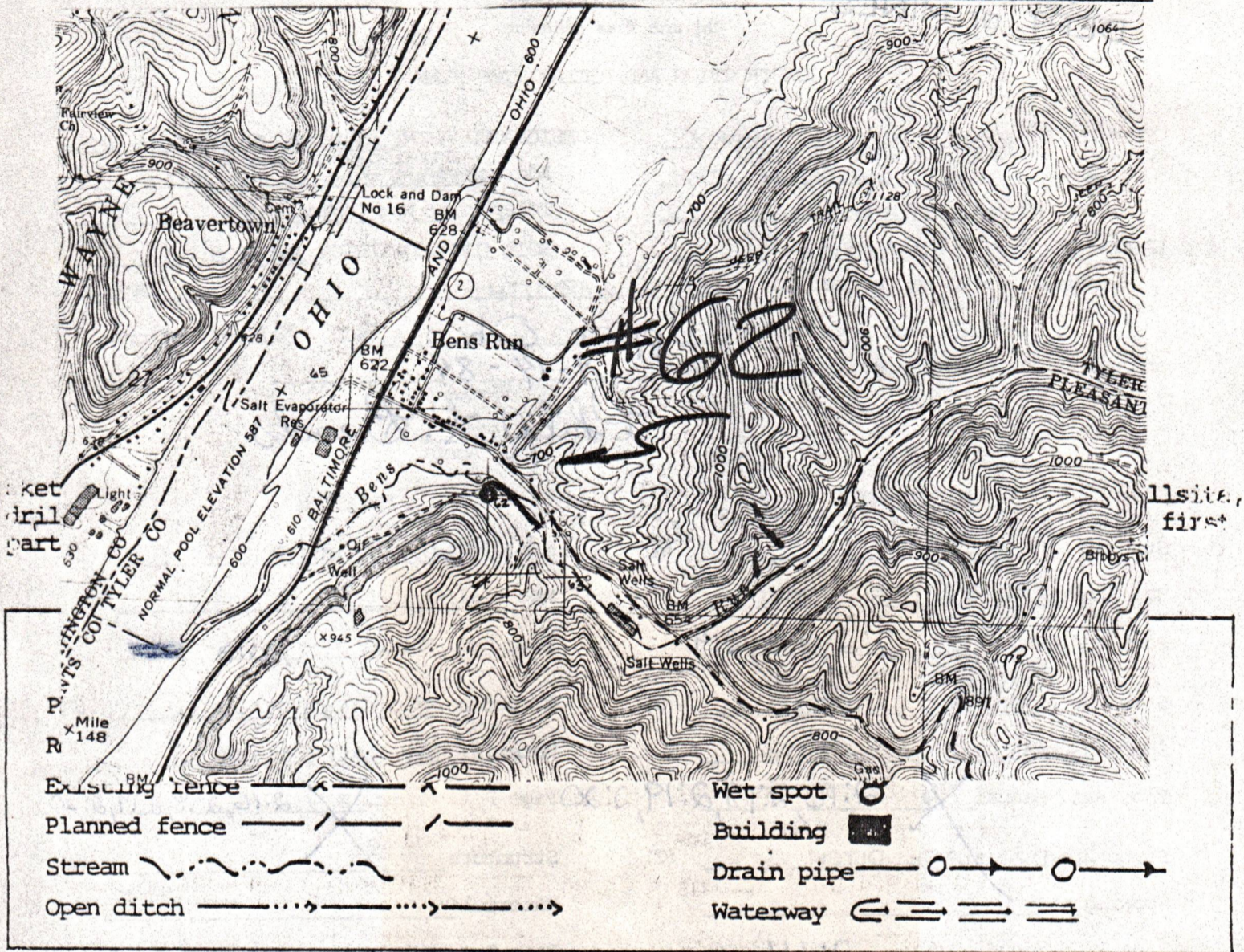
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE BENS RUN

LEGEND

Well Site 

Access Road 



1) Date: Oct. 16, 1984
2) Operator's Well No. James S. Wells Hrs.#62
3) API Well No. 47 - 073 - 1930
State County Permi

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name FMC Corporation
Address Rhodes & MacCorkle Ave Box 8127
South Charlestown, W.V. 25303
(ii) Name ATTENTION Walter Gerke
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR _____
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name _____
Address _____

TO THE PERSON(S)

- (1) The App to be and des
- (2) The pl
- (3) The Co plug a recla

THE REASON WHICH ARE SUMMA (FORM IV-2(B) OF ACTION AT ALL.

Take notice erator proposes for a Well Work Department of M and depicted on Construction an by hand to the before the day

- 6) EXTRACTION R Check and pr Included: I hold The requi
- 7) ROYALTY PROV Is the right or other com for compensat to the volum

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
2. Restricted Delivery.

3. Article Addressed to:
FMC CORP.
RHODES & MACCORKLE AVE
SOUTH CHARLESTOWN, W.V.
25303

4. Type of Service: Registered Insured Certified COD Express Mail
Article Number P588 654 579

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X Walter Gerke

6. Signature - Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

WITH DECLARATION ON RECORD:

Following documents:

if the well is or other work, cased casing and work is only to and for

ING THE APPLICATION THE APPLICATION TO TAKE ANY

igned well op- rying documents West Virginia ched Application the plat, and the i mail or delivered ices) on or

ts by which

or specifics.)

use or leases lar provision rently related to

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by James E. Dock Wood Co., W.V., this 16 day of October, 1984. My commission expires June 3, 1991.

WELL OPERATOR Bens Run Oil Co.
By John A. Smith John A. Smith
Its Designated Agent
Address Star Route Box 105 12/01/2023
Bens Run, W.V. 26135
Telephone 1-684-7159

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
Lew W. Wells (Ownership granted from James S. Wells by Will as his only son)	George C. Schoonmaker	full royalty	98-189	
George C. Schoonmaker	John A. Smith	Full Royalty	Pleasants 115-252	Tyler 169-398
John A. Smith	Bens Run Oil Co.	Full Royalty	Pleasants 197-423	

ORM IV-50
6-82)

RECEIVED
OCT 30 1984



DATE: October 16, 1984
OPERATOR'S
WELL NO.: James S. Wells Hrs.#62
API NO: 47 073
State County Permit

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
OFFICE OF OIL AND GAS
DEPARTMENT OF MINES

A F F I D A V I T

State of West Virginia
County of Pleasants

I, John A. Smith John A. Smith (the designated owner or operator, or authorized representative thereof), after being duly sworn, do depose and say that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached do state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-4-11(c) (1982).

Signed: John A. Smith
John A. Smith

Taken, subscribed, and sworn to before me this 16th day of October, 1984.

Notary: Bruce E. Doak
Bruce E. Doak

My Commission Expires: June 3, 1991

- (3) FMC has concern that, as stated in 22-4-10-No. 4, "the proposed well work fails to protect fresh water sources or supplies". In Section 22-4-8a, - Installation of Fresh Water Casings, it states, "operator shall run and permanently cement a string of casing in the hole through the fresh water bearing strata . . ." Chapter 22-4, Series V, Part I, Administrative Regulations, Sect. 15, Par. 15.03, states, "Fresh Water Casing. The fresh water protective string of casing required by Code 22-4-8a shall extend 30 feet below the deepest fresh water horizon . . ." The permit applications indicate that the 16" conductor casings are not cemented. FMC requests that the Oil and Gas Permit Section review this carefully. Uncemented conductor casing will allow surface water to migrate into the shallow fresh water zones. Most water wells in the Bens Run area are in the shallow fresh water strata.

Further, the 11-3/4" fresh water casing only shows 250' left in well, per the permit. This should be adequate; however, there are fresh water sources at the Bens Run area deeper than 250'. The 8-5/8" intermediate casing, per the permit, is not shown cemented. FMC always cements this casing, which undoubtedly cements off all potable water zones. FMC strongly advises cementing the three above-mentioned casings to the surface.

- (4) Chapter 22-4, Series V, Part I, Section II, Par. 10, states, "all wells within scope of the plat, whether active, drilling or abandoned shall be shown. The scope of every plat shall be sufficient to show all wells within 1,200 feet of the well which is the subject of the application; . . ."

Well plats with permit applications James S. Wells No. 62 and James S. Wells No. 63 are 1" = 400' scale and are adequate to show wells within 1,200'. The James S. Wells No. 65 plat is only 1" = 100' scale; therefore, not adequate to show wells within 1,200' of the proposed well.

None of the plats show all of the wells within 1,200' of the proposed wells. Our records show (FMC Drawing No. 46856, Plat of George C. Schoonmaker Property) that there are numerous wells that should show on each permit application well plat. Most of the wells are abandoned; however, John Smith does operate some of the wells. FMC does not know the status of the existing wells.

Ms. Margaret Hasse

November 9, 1984

(4) Continued

Included in this memo are marked (in red) copies of permit plats showing approximate locations of existing wells, and a copy of FMC Drawing 46856.

(5) Numerous underground pipelines serving FMC solution mining wells to the southeast (and one well to the west) are in the general area of proposed Well No. 62 and the access road to it. These lines run between FMC's river facilities, pumping station and to the wells. Of particular concern is a plastic river water line; damage to it could shut down the South Charleston Plant. These lines should be located before grading and drilling activities begin.

(6) The three plats refer to a 372.76-acre lease. According to our information, the leases under which the Bens Run Oil Company is proposing to drill are those recorded in Tyler County in:

- (a) Deed Book 29, Page 492, for a 150-acre property
- (b) Deed Book 53, Page 42, for a 250-acre property

These four-hundred acres include, to our knowledge, the 372.76 acres shown on the plats of the three applications.

Your consideration of these matters in reviewing the permit applications is appreciated.

Sincerely,



Victor G. Carroll
Materials Manager

wes

Enclosures

INFORMATION
MEMO

STATE OF WEST VIRGINIA

WV-20

TO <i>John Sims / Stan Wilcox</i>		Date <i>11/30/84</i>	Time
FROM <i>Margaret Kesse</i>		Of <i>W. V. Dept of Mines</i>	
TELEPHONE	Number: <i>(304) 348-0138</i>	Ext. <i>Office</i>	Received By <i>D. J. [unclear]</i>
<input type="checkbox"/> PLEASE CALL		<input type="checkbox"/> RETURNING YOUR CALL	
<input type="checkbox"/> WILL CALL AGAIN		<input type="checkbox"/> CALLED TO SEE YOU	
APPOINTMENT	With	Time	

- PLEASE:
- COMMENT
 - NOTE
 - SEE ME
 - INVESTIGATE
 - TAKE NECESSARY ACTION
 - EXPLAIN
 - APPROVE
 - SIGN
 - REVISE
 - PREPARE REPLY FOR MY SIGNATURE
 - REPLY DIRECTLY
 - ROUTE TO

FOR YOUR INFORMATION

- AND:
- FILE
 - RETURN

REMARKS/MESSAGES:

Enclosed copy of FMC Comments for your info. I have returned slats to Bill Mossor to have existing wells added.

We will require that you cement the 8 5/8" string of casing to protect these existing old wells and the fresh water strata that might otherwise be affected by migration of high pressure gas. Also please note comment (5) on page 3. Thank you.

MJK

509 C Locust Ave.

22901

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



WR-35

MAR 3 1986

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date February 15, 1986
Operator's
Well No. # 62
Farm James Wells Heirs
API No. 47 - 073 - 1930

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

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

LOCATION: Elevation: 651 KB Watershed Bens Run
District: Union County Pleasants Quadrangle Bens Run 7.5 min.

COMPANY Bens Run Oil Company
ADDRESS 509-C Locust Ave. Charlottesville, Va 22901
DESIGNATED AGENT John Smith
ADDRESS Box 105 Star Rt. Bens Run, W.V. 26135
SURFACE OWNER FMC Corporation
ADDRESS P.O.Box 8127 Charleston, W.V. 25303
MINERAL RIGHTS OWNER James S. Wells Hrs.
ADDRESS c/o Mary Karlson Kingston, Pa.
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Middlebourne, W.V. 26149
PERMIT ISSUED 1/ 3/85
DRILLING COMMENCED 1/28/85
DRILLING COMPLETED 2/ 3/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond. (16")	63'	63'	Driven
13-10" 113/4	271	271	170 sks(class A)
9 5/8			
8 5/8	1651	1651	420 sks (500 ft ³)
7			
5 1/2			
4 1/2	3583	3583	250 sks ₃ (450 ft ³)
3			
2			
Liners used			

200 ft.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3625' feet
Depth of completed well 3651 feet Rotary / Cable Tools ___
Water strata depth: Fresh 100' ± feet; Salt 750' ± feet
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonain Shale Pay zone depth 3327' - 3406' feet
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow trace Bbl/d
Final open flow 30 Mcf/d Final open flow 1 Bbl/d
Time of open flow between initial and final tests 30 hours days
Static rock pressure 400 psig (surface measurement) after 24 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

(Continue on reverse side)

PLEAS
1930

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

Perforations: 3327, 28, 56, 57, 71, 72, 73, 3404, 05, 06
10 holes .39 diameter select-fire

Stimulation: 1 MM s.c.f. nitrogen
250 gals. treated 15 % HCL.
No perf balls used
Average treating rate 48 MSCF/ min.

ISIP = 2030 psi
10 min. SIP = 1870 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
Surface Hole			0	300	Not logged
Siltstone & Shale			300	750	
First Salt Sand			750	840	
Siltstone, shale, tr. coal			840	971	
Second Salt Sand			971	995	
Siltstone & shale			995	1071	
Third Salt Sand			1071	1108	
Siltstone & shale			1108	1217	
Maxton Sandstone			1217	1241	
Shale, tr. Ss			1241	1287	
Greenbriar Limestone			1287	1340	
Keener Sandstone			1340	1364	show of gas, good show of oil
Siltstone & shale			1364	1393	
Big Injun Sandstone			1393	1550	Trace oil in well cuttings
Siltstone & shale			1550	1879	
Organic shale (coffee Sh.)			1879	1899	Berea absent; Est. top 1899' (-1250)
Siltstone & shale			1899	2292	
Gordon Siltstone			2292	2336	No shows
Siltstone & shale			2336	3055	
Organic shale			3056	3102	Top Lower Huron Shale
Siltstone & shale			3102	T.D.	Sli show gas - 3300' - 3465'
					Driller's T.D. 3657'
					Logger's T.D. 3651'

(Attach separate sheets as necessary)

Boris Run Oil Co.
Well Operator
By: John B. Lewis Manag. Part. 12/01/2023
Date: 2/26/86

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 ... encountered in the drilling of a well."

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

RECEIVED

FEB 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1930

Oil or Gas Well _____
(KIND)

Company Bens Run oil co
 Address Charlottesville VA
 Farm James wells
 Well No. 62
 District union County pleasant
 Drilling commenced Jan 29, 1985
 Drilling completed _____ Total depth 263
 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			Kind of Packer _____
16			
13			
10	<u>11 3/4</u>	<u>234</u>	Size of _____
8 1/4			
6 1/2			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 11 3/4 SIZE 234 No. FT-1-30-85 Date
 NAME OF SERVICE COMPANY Halliburton
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____
overjohn inc contractor
 Remarks: _____

Jan 30, 1985
DATE

R.A. Lowther
12/01/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
FEB 13 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1930

Oil or Gas Well _____
(KIND)

Company Beas Run oil co
Address Charlottesville w. Va.
Farm James C wells Hrs
Well No. 62

District union County pleasant

Drilling commenced _____

Drilling completed Feb 5, 1985 Total depth 3651

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	<u>16 1/4</u>	<u>16 1/4</u>	
6 3/8			Depth set _____
5 3/16	<u>4 1/2</u>	<u>3583</u>	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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: Cemented with 255 SKS cement

Feb 5, 1985
DATE

R. A. Lowth
12/01/2023
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 12/01/2023

INSPECTOR'S PERMIT SUMMARY FORM

1-3-85

WELL TYPE oil & gas
ELEVATION _____
DISTRICT union
QUADRANGLE Bens Run
COUNTY pleasant

API# 47-073-1930
OPERATOR Bens Run oil Co
TELEPHONE _____
FARM FMC Corp
WELL # J.S. well 62

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

APR 15 1986

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
TD _____ feet on _____

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released Apr 10, 1986

R. A. Lowther 12/01/2023
Inspector's signature

API# 47 _____ - _____

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

Violation No. V ²⁰⁶⁰ 86-2056

VI-27

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
NOTICE OF VIOLATION

Date: Mar 21 1986
Well No: 62
API NO: 47-073 1930
State County Permit

MAR 25 1986

Well TYPE: Oil / Gas Liquid Injection / Waste Disposal
Of "Gas" - Production / Storage / Deep / Shallow

LOCATION: Elevation: _____ Watershed: Bears Run
4585 District: Union County: Pleasants Quadrangle: Bears Run

WELL OPERATOR Bears Run oil CO DESIGNATED AGENT James Renner
Address B.O. Box 140 Address Box 106 Bears Run W. Va
Bears Run west Va 26135

The above well is being posted this 21 day of Mar, 1986, for a violation of Code 22B-1 16D and/or Regulation 2, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to File well Recod (Form 10 35) within 90 Days after completion of drilling

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until Mar 28, 1986, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22B, Article 1.

Robert A. Lowther
Oil and Gas Inspector

Address Middlebourne
W. Va. 26149

Telephone: 758-4764

Violation No. V ²⁰⁶⁹ ~~86-2057~~

VI-27

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



Date: Mar 24 1986
Well No: 62
API NO: 47 - 073 1930
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
NOTICE OF VIOLATION

MAR 25 1986

Well TYPE: Oil / Gas Liquid Injection / Waste Disposal
Of "Gas" - Production / Storage / Deep / Shallow

LOCATION: Elevation: _____ Watershed: Bens Run
District: union County: pleasant Quadrangle: Bens Run

WELL OPERATOR Bens Run oil co DESIGNATED AGENT James Renner
Address 509-G Locust Lane Address P.O. Box 106
Charlottesville VA. 22901 Bens Run W. Va.

The above well is being posted this 21 day of Mar, 1986, for a violation of Code 22B-1 7.05 and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to identify well by A. P. I number

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until Mar 28, 1986, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22B, Article 1.

Robert A. Lowther
Oil and Gas Inspector

Address Middlebourne
W. Va. 26149

Telephone: 304-758-4764

Date: Mar 28, 1986
Operator's Well Number 62
API Well No.: 47 - 073 - 1930
State County Permit
V 86-2057
2061

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

NOTICE OF ABATEMENT

WELL TYPE: Oil Gas Liquid Injection _____ / Waste disposal _____
If "Gas" - Production Storage _____ / Underground _____ / Deep _____ / Shallow
LOCATION: Elevation: _____ Watershed: Bens Run
District: union County: pleasants Quadrangle: Bens Run
WELL OPERATOR Bens Run oil co DESIGNATED AGENT James Renner
Address 577 C Locust Ave Address Bens Run W. Va
Charlottesville VA

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on Mar 28, 19 86.
The violation of Code § 22B-1-7.05 heretofore found to exist on Mar 21, 19 86, by Form IV-27, "Notice of Violation" / Form IV-28, "Imminent Danger Order" _____ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS
well is identified by API number

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

APR 1 1986

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Robert A. Lowther
Oil and Gas Inspector
Address Middlebourne
W. Va
Telephone 758-4764

Date: March 28, 1982
Operator's WJ
Well Number 1730
API Well No.: 47 - 013
State VA County Stafford Permit 1730

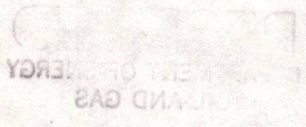
180-5057
800

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

WELL TYPE: Oil Gas Liquid injection Waste disposal
LOCATION: Production Storage Deep Shallow
Elevation: _____
District: Ward
County: Stafford
DESIGNATED AGENT: James R. Jones
Address: James R. Jones

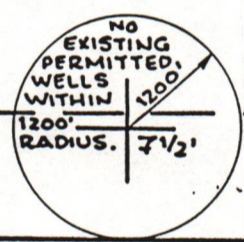
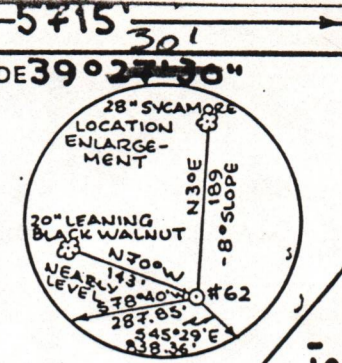
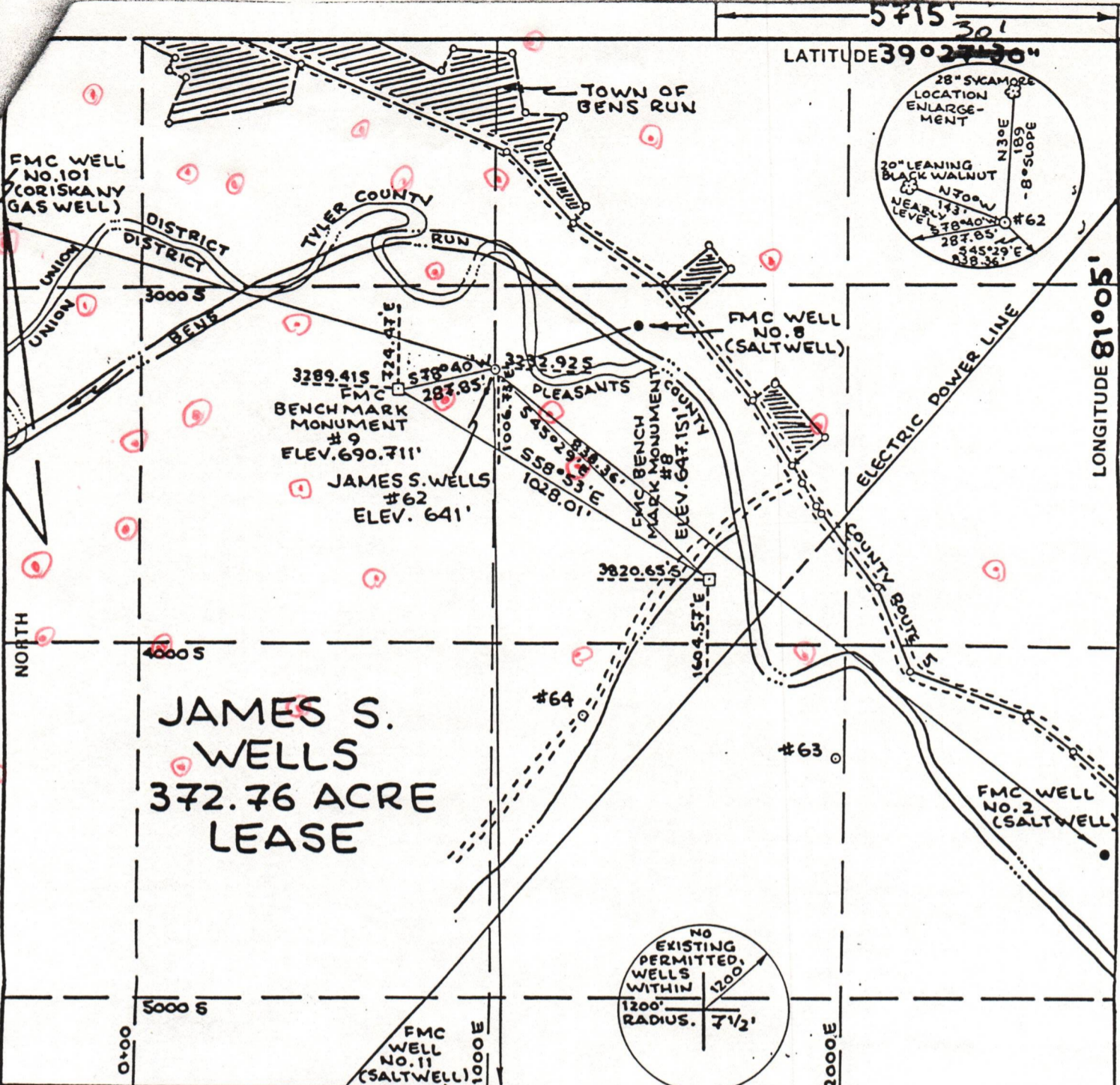
Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on March 28, 1982.
The violation of Code 25B-1-702 heretofore found to exist on March 28, 1982 by Form IV-27 "Notice of Violation" Form IV 28 "Imminent Danger Order" of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS: Well is identified by API number



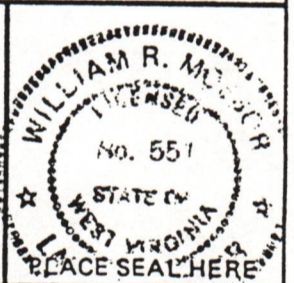
APR 1 1982

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.
Off and Gas Inspector: Robert A. Jones
Address: 1000
Telephone: 180-4544



FILE NO. _____
 DRAWING NO. _____
 SCALE **1"=400'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **FMC BM MONUMENT #8 ELEV. 647.151'**

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 R. Mosser*
 R.P.E. _____ L.L.S. **551**



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



DATE **10 SEPTEMBER 1984**
 OPERATOR'S WELL NO. **JAMES S. WELLS**
 API WELL NO. **#62**
47 - **073** - _____
 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 **641'** WATER SHED **BENS RUN**
 DISTRICT **UNION** COUNTY **PLEASANTS**
 QUADRANGLE **BENS RUN 7 1/2' QUAD.**
 SURFACE OWNER **FMC CORPORATION** ACREAGE **372.76**
 OIL & GAS ROYALTY OWNER **JAMES S. WELLS HRS** LEASE ACREAGE **372.76**
 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 **BROWN SHALE** ESTIMATED DEPTH **3625'**
 WELL OPERATOR **BENS RUN OIL CO.** DESIGNATED AGENT **JOHN A. SMITH**
 ADDRESS **509-C LOCUST AVENUE** ADDRESS **STAR ROUTE BOX 105**
CHARLOTTESVILLE, VA. 22901 **BENS RUN, W.VA. 26135**

12/01/2023

FMC Corporation

Industrial Chemical Group
Box 8127
South Charleston West Virginia 25303
304 744 1581

RECEIVED
NOV 9 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

FMC

November 9, 1984

Ms. Margaret Hasse
Oil and Gas Division
WV Department of Mines
1615 Washington Street, East
Charleston, WV 25311

Dear Ms. Hasse:

On October 25 and October 26, 1984, the South Charleston Plant of FMC Corporation was the recipient of three "Notice of Application for a Well Work Permit" from the Bens Run Oil Company, John A. Smith, Designated Agent. They were for:

- | | | |
|-----|-------------------------|----|
| (1) | James S. Wells Well No. | 62 |
| (2) | " " " " " | 63 |
| (3) | " " " " " | 65 |

All three wells are proposed on a 372.76-acre tract, two in Union District of Pleasants County and one in Union District of Tyler County.

FMC solution mines rock salt at its 1300-acre Bens facility to provide a vital raw material for a large percentage of its South Charleston Plant and, accordingly, is vitally interested in ensuring an uninterrupted supply. Improper drilling techniques could temporarily, or for an extended period, eliminate our source of this raw material.

The following comments and requests on the aforementioned proposed wells are submitted per Code 22-4-1n of the West Virginia Department of Mines Oil and Gas Laws and Administrative Regulations:

- (1) All three plats have a major error of latitude. The latitude 39°27'30" shown on the plats places the wells approximately 2.86 miles south of their correct locations. The correct latitude is 39°30'0".
- (2) Per 22-4-1m 2c, FMC Corporation hereby requests notice of the permit decision and a list of persons qualified to test water as provided in the section.

12/01/2023