



(Revised)  
Well No. Lock No. 3 - 1  
Farm Lock No. 3 Oil, Coal and Dock Co.  
API # 47 - 083 - 520  
Date 21 August 1981

(Refer 47-083-0443)

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil    / Gas X /

(If "Gas", Production X / Underground storage    / Deep    / Shallow X /

LOCATION: Elevation: 2251' Watershed: Big Laurel Run  
District: Roaring Creek County: Randolph Quadrangle: Elkmore (7 1/2 min)

WELL OPERATOR FMF Oil and Gas Properties, Inc. DESIGNATED AGENT Paul Bowles  
Address 537 Spring Vale Road Address P.O. Box 1386  
Great Falls, Va. 22066 Charleston, W. Va. 25325

OIL AND GAS ROYALTY OWNER Lock No. 3 Oil, Coal and Dock Co. COAL OPERATOR     
Address 200 Union Carbide Bldg. Address     
Pittsburgh, Pa. 15220  
Acreage 137.5

SURFACE OWNER Lock No. 3 Oil, Coal and Dock Co. COAL OWNER(S) WITH DECLARATION ON RECORD:  
Address - Same - NAME Lock No. 3 Oil, Coal and Dock Co.  
Acreage 137.5 Address - Same -

FIELD SALE (IF MADE) TO:  
NAME    NAME     
Address    Address     
COAL LESSEE WITH DECLARATION ON RECORD:  
NAME     
Address   

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Robert Stewart  
Address P.O. Box 345  
Jane Lew W. Va. 26378  
Telephone 304-884-7782

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed    / lease X / other contract    / dated 27 Feb, 1981, to the undersigned well operator from Lock No 3 Oil, Coal and Dock Co.

(If said deed, lease, or other contract has been recorded:)

Recorded on 13 March, 1981, in the office of the Clerk of County Commission of Randolph County, West Virginia, in 336 Book at page 315. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper    / Redrill    / Fracture or stimulate    / Plug off old formation    / Perforate new formation    / Other physical change in well (specify)   

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

10/20/2023

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

RECEIVED

AUG 28 1981 FMF Oil and Gas Properties, Inc  
Well Operator

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

Alvin Soren

Its: Petroleum Engr.

BLANKET BOND

8

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Fox  
Estimated depth of completed well 5400 feet. Rotary  / Cable tools \_\_\_ /  
Approximate water strata depths: Fresh, ? feet; salt, ? feet.  
Approximate coal seam depths: ?  
Is coal being mined in this area: Yes \_\_\_ / No  /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor	11 3/4"			X		20'	20'	Kinds
Fresh water								
Coal								Sizes
Intermed.	8 5/8"		20#	X		900	900	To Surface
Production Tubing	4 1/2"		10 1/2#	X		5400	5400	400 SKS Depths set
Liners								Perforations: Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

**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 5-3-82.

  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator \_\_\_ / owner \_\_\_ / lessee \_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

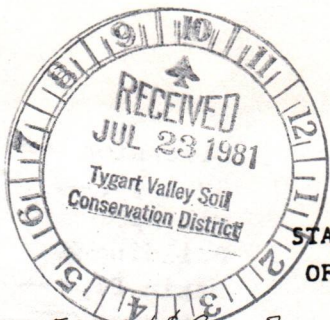
Date: \_\_\_\_\_, 19\_\_\_\_.

By: \_\_\_\_\_

Its: \_\_\_\_\_

10/20/2023

BLANKET BOND



Date 1 July 19 81  
Well No. Lock No 3 #1  
API No. 47 - State            - County            - Permit           

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name EME Oil & Gas Properties, Inc. Designated Agent Paul Bowles  
Address 337 Springdale Road Address PO Box 1786  
Great Falls, Virginia 22066 Charleston, W. Va. 25325  
Telephone 703-752-4545 Telephone 344-9621  
Landowner Lock No 3. Oil & Dock Co. Soil Cons. District Tygart Valley

Revegetation to be carried out by Operator (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan. 7-23-81 (Date) Jenkins, Duvek (SCD Agent)

Access Road	Location
Structure <u>Culvert</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>As Needed (12" Dia. Min)</u>	Material <u>Soil</u>
Page Ref. Manual <u>1-8</u>	Page Ref. Manual <u>1-9</u>
Structure <u>Open Ditch</u> (B)	Structure <u>Drilling Pit</u> (2)
Spacing <u>As Needed</u>	Material <u>Soil</u>
Page Ref. Manual <u>1-18</u>	Page Ref. Manual <u>          </u>
Structure <u>          </u> (C)	Structure <u>Silt Trap</u> (3)
Spacing <u>          </u>	Material <u>Soil</u>
Page Ref. Manual <u>          </u>	Page Ref. Manual <u>          </u>

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I	Treatment Area II
Lime <u>3</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>3</u> Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay</u> <u>2</u> Tons/Acre	Mulch <u>Hay</u> <u>2</u> Tons/Acre
Seed* <u>Kv31 Tall Fescue</u> <u>30</u> lbs/acre <u>Birdsfoot trefoil</u> <u>10</u> lbs/acre <u>Domestic Ryegrass</u> <u>10</u> lbs/acre	Seed* <u>Kv31 Tall Fescue</u> <u>30</u> lbs/acre <u>Birdsfoot trefoil</u> <u>10</u> lbs/acre <u>Domestic Ryegrass</u> <u>10</u> lbs/acre

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

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AUG 20 1981

OIL AND GAS DIVISION

Attach or photocopy section of involved Topographic map.

Quadrangle           

Legend:

⊕ Well Site

— Access Road



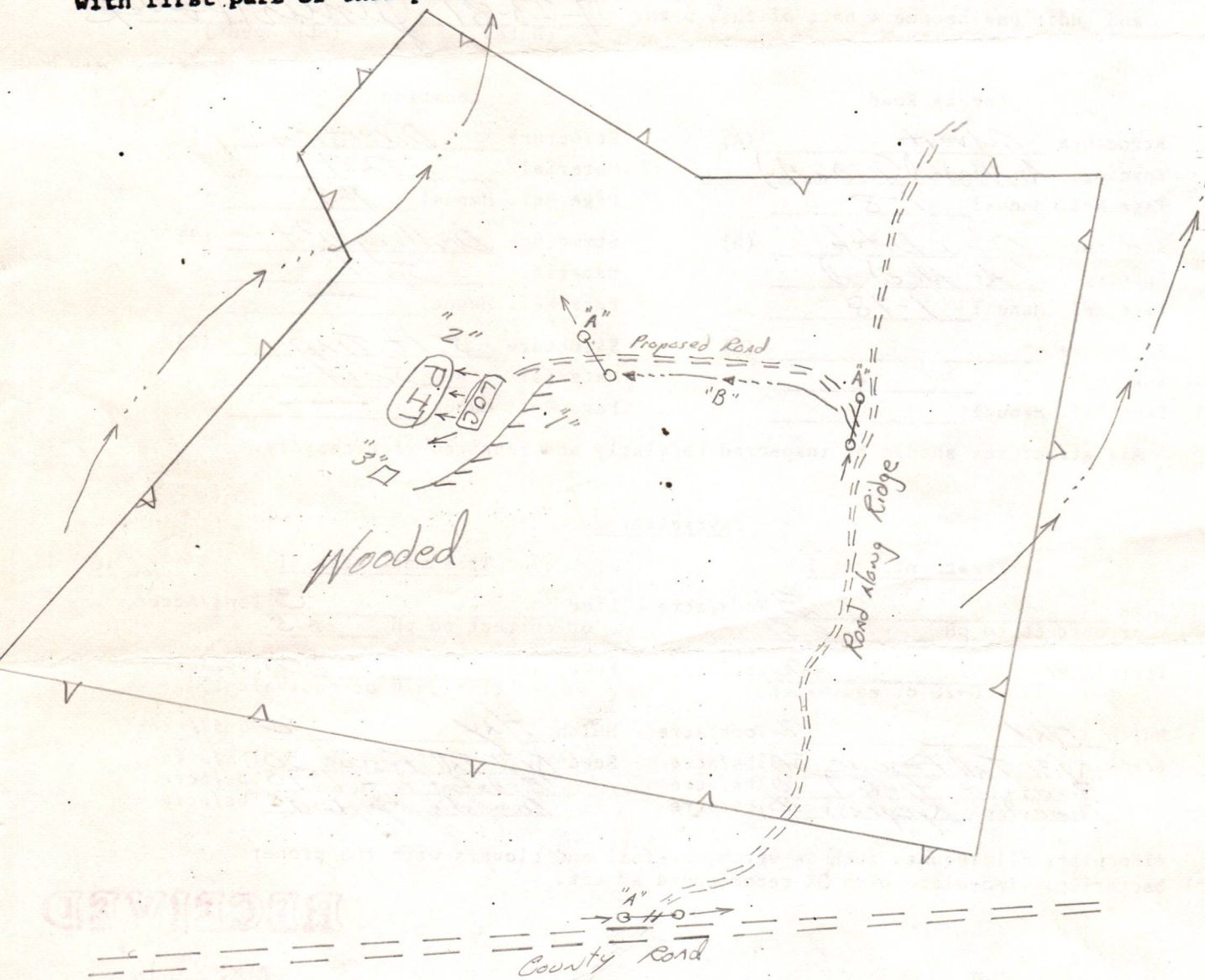
Well Site Plan

Legend:

- Property Boundry
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

Sketch to include well location, existing access road, roads to be constructed wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



1. Well road to be constructed on a gentle slope along an existing road and through the woods.
  2. All marketable timber to be cut and stacked.
  3. All brush to be disposed of prior to starting excavation.
  4. Cuts to be on a 2:1 unless in rock.
  5. Drainage to be maintained after drilling is complete.
  6. Seeding to commence within three months after completion of well.
- Comments:

Signature:

*Alvin Sasser*  
Agent

Rt. 4, Box 444, Buckhannon, W. Va.  
Address

10/20/2023  
Phone Number  
472-0007

Please request landowners cooperation to protect new seeding for one growing season.

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IV-35 (Rev 8-81)

SEP 28 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date 11-10-81 Operator's Well No. Lock 3-1 Farm Lock 3 API No. 47-083-0520 47-083-0520 CORRECTED PERMIT NUMBER

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

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

LOCATION: Elevation: 2378 Watershed LITTLE LAUREL RUN District: ROARING CREEK County RANDOLPH Quadrangle ELLAMORE

COMPANY FMF OIL & GAS PROPERTIES ADDRESS 537 Springvale Rd. Great Falls, Va. 22066 DESIGNATED AGENT Paul Bowles ADDRESS P.O. Box 1386, Chas. W.Va. 25325 SURFACE OWNER Lock 3, Oil, Coal & Dock Co. ADDRESS 200 Union Carbide Bldg, Pittsburgh, Pa. MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK ROBERT STEWART ADDRESS JANE LEW W.V. PERMIT ISSUED DRILLING COMMENCED 9-22-81 DRILLING COMPLETED 9-28-81

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 and Liners used.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION ELKS Depth 4950 feet Depth of completed well 5496 feet Rotary X / Cable Tools Water strata depth: Fresh 40 feet; Salt 180 feet Coal seam depths: 85, 460 Is coal being mined in the area? X

OPEN FLOW DATA Producing formation BENSON Pay zone depth 3824-3829 feet Gas: Initial open flow SHOW 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 measurement) after 10/20/2028 in (If applicable due to multiple completion--)

Perm. - 0520

(Continue on reverse side)

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

ELK - PERFS. (4417 - 4984) 15 holes .41 10-15-81  
 BREAKDOWN 2200\* AVE. PSI 3550\* AV. RATE 22.7 BPM  
 TOTAL BBS 459 TOTAL PROP 46000\*

BENSON - PERFS. (3656 - 3829) 15 .41 10-15-81  
 BREAKDOWN 2000\* AV. PSI 2050\* AV. RATE 34.1 BPM  
 TOT BBS: 478 Tot PROP: 60000\* ISIP: 1000

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free gas and salt water, coal, oil and g
SHALE	G	S	1200	1240	
H. + LIME	G	M	1240	1290	
BIG LIME	G	H	1290	1380	
BIG INSULIN	W	H	1380	1590	
SAND	W	H	1590	1630	
SHALE + SAND	G	S	1630	1890	
SANDY SHALE	BR	M	1890	2420	SHOW GAS @ 2400
SHALE	G	S	2420	3650	
SILT SHALE	BR	S	3650	3700	
SHALE	G	S	3700	3790	
BENSON	BR	M	3790	3870	SHOW GAS
SHALE + SILT	BR	S	3870	4930	
IN SILT	BR	M	4930	5025	GAS @ 4975
SHALE	G	S	5025	5496	
ID			5496		

(Attach separate sheets as necessary)

Well Operator

10/20/2023

By: \_\_\_\_\_

Date: \_\_\_\_\_

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."

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

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SEP 28 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0520

Oil or Gas Well GAS  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
<u>EMF Oil &amp; Gas</u>	Size			
<u>BUCKHANNON</u>	16			Kind of Packer
<u>LOCK 3 OIL &amp; GAS</u>	13			
<u># 1</u>	10			Size of
<u>POARW6 Creek County RANDOLPH</u>	<u>8 7/8</u>		<u>1148</u>	<u>275 SKS</u>
<u>9-21-81</u>	6 3/4			Depth set
	5 3/16			
	3			Perf. top
	2			Perf. bottom
	Liners Used			Perf. top
				Perf. bottom
	CASING CEMENTED <u>8 7/8</u> SIZE <u>1148</u> No. FT. <u>9-24-81</u> Date			
	NAME OF SERVICE COMPANY <u>HALLIBURTON</u>			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names UNION RIG - 9

Remarks:  
Cement To SURFACE

9-24-81  
DATE

Robert Steward 511  
10/20/2023  
DISTRICT WELL INSPECTOR

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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: \_\_\_\_\_

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

10/20/2023  
DISTRICT WELL INSPECTOR



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

INSPECTOR'S WELL REPORT

Permit No. 083-0520

Oil or Gas Well GAS  
(KIND)

Company <u>FNF oil &amp; GAS</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>BELINGTON</u>	Size			
Farm <u>LOCK 3 oil &amp; GAS</u>	16			Kind of Packer
Well No. <u>3-1</u>	13			
District <u>TEARUG CREEK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>9-3-82</u>	8 1/4			Depth set
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

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

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Remarks:

*OK To Release*  
~~*and well record*~~

SEP - 7 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

9-3-82

DATE

*Robert Stewart* 51  
10/20/2023  
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: \_\_\_\_\_

RECEIVED

OIL AND GAS DIVISION  
 DEPARTMENT OF MINES

JAMES W. WOODRUFF  
 DISTRICT WELL INSPECTOR

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

DATE

10/20/2023

DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

November 11, 1982

FMF Oil & Gas Properties  
P. O. Box 458  
Belington, W. Va. 26250

IN RE: PERMIT NO. 47-083-0520  
FARM Lock 3 Oil, Coal & Dock  
WELL NO. Lock 3-1  
DISTRICT Roaring Creek  
COUNTY Randolph

Gentlemen:

The final inspection report for the above described 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 your records.

XXXXX 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

MS:rl

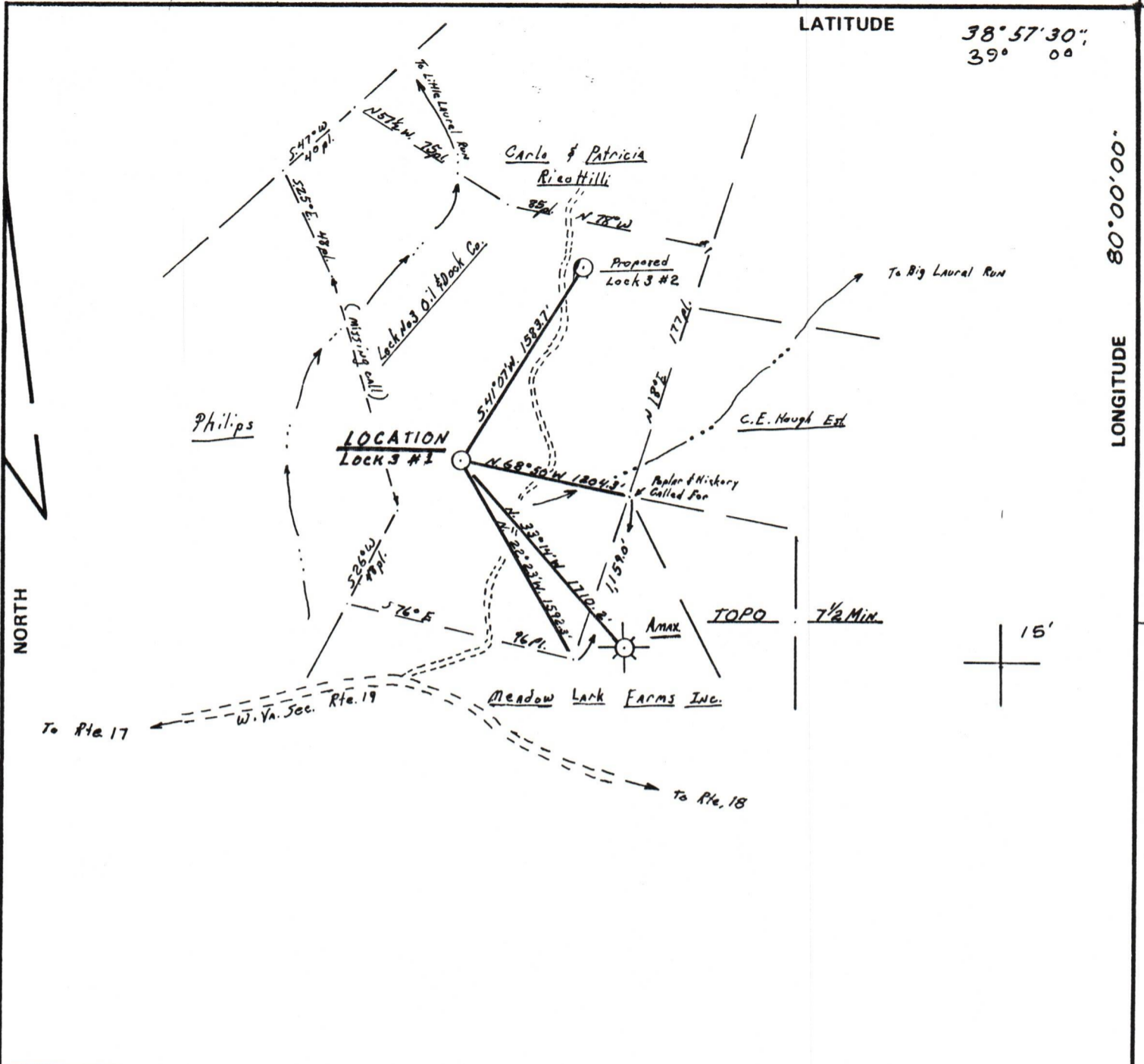
10/20/2023

CL 8/81

4,700'

LATITUDE 38° 57' 30"  
39° 00'

LONGITUDE 80° 00' 00"  
8550'



FILE NO. 289.01  
 DRAWING NO. 81-5A  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Spot Elevation 2321 SW of Location

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) Richard S. Osterlander  
 R.P.E. \_\_\_\_\_ L.L.S. 555

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE 1 July, 19 81  
 OPERATOR'S WELL NO. Lock No. 3 #1  
 API WELL NO. \_\_\_\_\_  
47 - 083 - 520  
 STATE COUNTY PERMIT  
 (Formerly: Ran-443)

WELL TYPE: OIL \_\_\_ GAS XX LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION XX STORAGE \_\_\_ DEEP \_\_\_ SHALLOW XX  
 LOCATION: ELEVATION 2251 WATER SHED Little Laurel Run  
 DISTRICT Rearing Creek COUNTY Randolph  
 QUADRANGLE Ellamore  
 SURFACE OWNER Lock No. 3 Oil & Dock Co. ACREAGE 137.5  
 OIL & GAS ROYALTY OWNER Lock No. 3 Oil & Dock Co. LEASE ACREAGE 137.5  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL XX 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 Fox ESTIMATED DEPTH 5400  
 WELL OPERATOR RAF Oil & Gas Properties Inc. DESIGNATED AGENT Paul Bowler  
 ADDRESS 537 Springvale Road ADDRESS P.O. Box 1386  
Great Falls, Virginia 22066 Charleston, W.Va. 25325

10/20/2023