



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 15 1979

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 29, 1977

Surface Owner Jack Moore
R.D.#1, Box 34B
Address New Martinsville, WV 26155
Mineral Owner Jack Moore
Address Same
Coal Owner Consolidation Coal
Address Library, PA
Coal Operator Same
Address _____

Company Mobay Chemical Corporation
Penn Lincoln Parkway West
Address Pittsburgh, PA 15205
Farm Jack Moore Acres 82
Location (waters) Haynes Run
Well No. 1 Elevation 1362
District Proctor County Wetzel
Quadrangle New Martinsville (1:2400)

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 11-16-79.

INSPECTOR
TO BE NOTIFIED Phillip Tracy
ADDRESS Middlebourn, W. Va.
PHONE 758-4573

[Signature]
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 July 12 19 74 by Jack J. Moore made to Mobay Chemical Company and recorded on the 5th day of August 19 74, in Wetzel County, Book 55A Page 121
 NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

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 _____ 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

Very truly yours, Mobay Chemical Corporation
(Sign Name) [Signature]
Well Operator
by Haddad and Brooks, Inc.
Penn Lincoln Parkway West

Street
Pittsburgh

City or Town
Pennsylvania 15205

State

Address of Well Operator

*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.

BLANKET BOND

REISSUED AS : 47-103-1154
(WET-638 (Expired)) PERMIT NUMBER
47-103

"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 [Signature]

09/08/2023

file

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 Delta Drilling NAME Mobay Chemical Corporation
 ADDRESS 115 South 6th Street ADDRESS New Martinsville, WV 26155
Indiana, PA 15701 TELEPHONE (304) 455-4400
 TELEPHONE (412) 465-5657 TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon See OG-1 dated 3/15/79
 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	450	450	cemented to surface
9 - 5/8			
8 - 5/8	2450	2450	cemented w/75 sx and gel to surface
7			
5 1/2			
4 1/2 production	as needed		cemented as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET 1200, 1900 SALT WATER 2290 FEET
 APPROXIMATE COAL DEPTHS 1125' Pittsburgh Coal
 IS COAL BEING MINED IN THE AREA? No 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. 09/08/2023

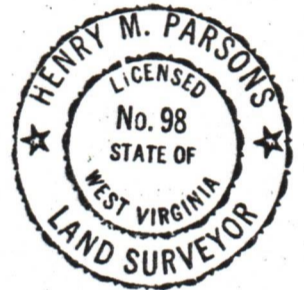
For Coal Company

Official Title

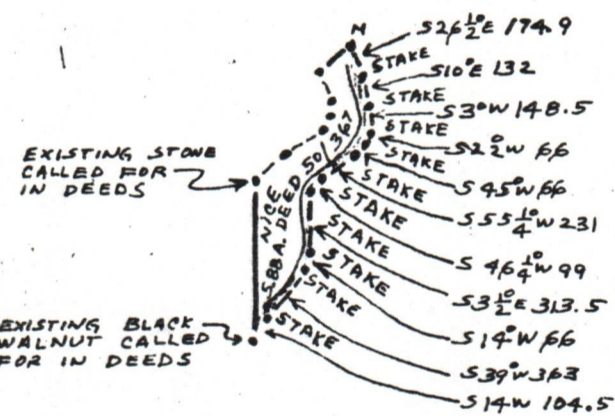
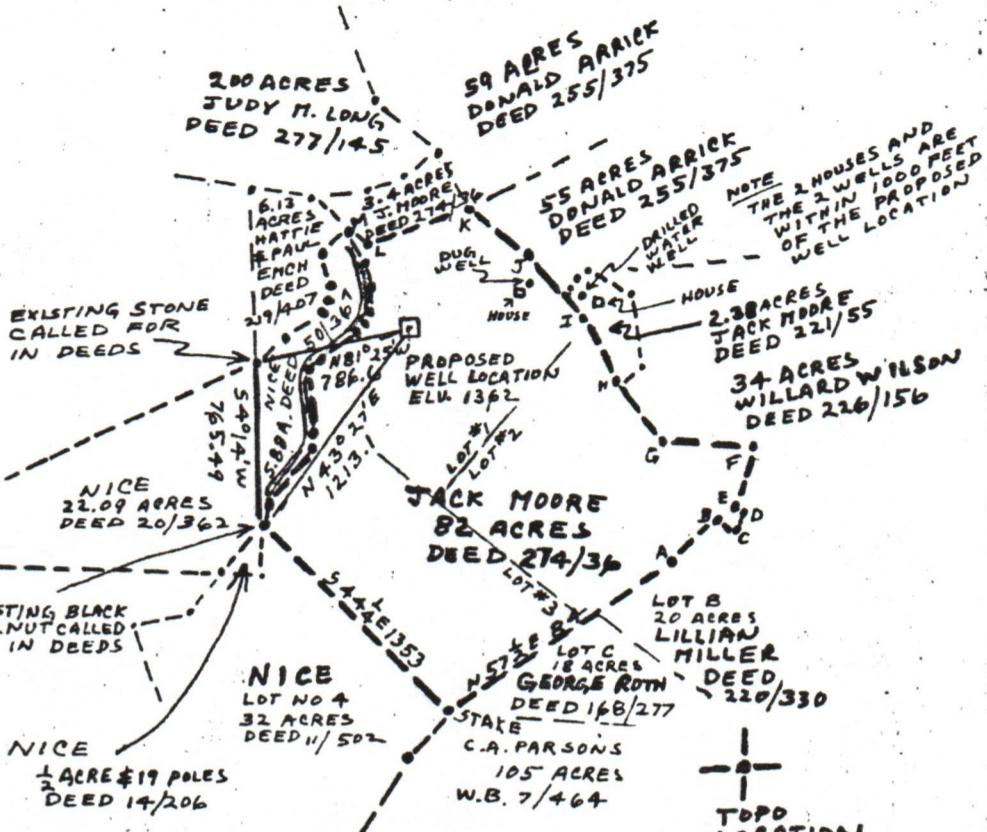
Latitude 39° 42' 30"

Longitude 80° 47' 30"

THE NEW SURVEY SOLID LINES ARE FROM MAG. NORTH
THE BROKEN LINES ARE FROM DEEDS



- A CHESTNUT SNAG
- AB N 48 E, 313.5
- B W.O.
- BC S 67 1/2 E, 255.75
- C W.O. STUMP
- CD N 17 1/2 E, 122.1
- D STAKE
- DE N 47 W, 16.5
- E STAKE
- EF N 17 E, 335.49
- F W.O.
- FG N 85 W, 549.45
- G GUM
- GH N 43 1/2 W, 371.25
- H STAKE
- HI N 26 1/2 W 371.25 (313.5)
- I STONE
- IJ N 40 1/2 W 434.44
- J B.W.
- JK N 51 W 396
- K STONE
- KL S 70 W 544.5
- LM N 45 W 103.95
- M W.O.



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500
 Source of Elevation U.S.G.S. TRIANGULATION STATION (MCCRAY ECCENTRIC
 (957) WITH AN ELEVATION OF 1344

"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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia. *Henry M. Parsons*

Company MOBAY CHEMICAL CORPORATION
 Address NEW MARTINSVILLE, W.VA.
 Farm JACK MOORE
 Tract _____ Acres 82 Lease No. _____
 Well (Farm) No. JACK MOORE #1 Serial No. _____
 Elevation (Spirit Level) 1362
 Quadrangle NEW MARTINSVILLE (1:24000)
 County WETZEL District PROCTOR
 SURVEYOR
 Engineer HENRY M. PARSONS
 SURVEYOR
 Engineer's Registration No. 98
 File No. 74-81 Drawing No. _____
 Date AUGUST 30, 1977 Scale 1" = 1000

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

WELL LOCATION MAP
 FILE NO. 103-1154

09/08/2023

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

A-4

RECEIVED
MAR 15 1979

RECEIVED

STATE OF WEST VIRGINIA
OIL & GAS DIVISION
DEPARTMENT OF MINES

OCT - 3 1977

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 September 29, 1977

Surface Owner Jack Moore
R.D.#1, Box 34B
Address New Martinsville, WV 26155
Mineral Owner Jack Moore
Address Same
Coal Owner Consolidation Coal
Address Library, PA
Coal Operator Same
Address _____

Company Mobay Chemical Corporation
Penn Lincoln Parkway West
Address Pittsburgh, PA 15205
Farm Jack Moore Acres 82
Location (waters) Haynes Run
Well No. 1 Elevation 1362
District Proctor County Wetzel
Quadrangle New Martinsville (1:2400)

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

INSPECTOR

for drilling. This permit shall expire if TO BE NOTIFIED Phillip Tracy

operations have not commenced by 2-18-78 ADDRESS Middlebourn, W. Va.

Robert H. ...
Deputy Director - Oil & Gas Division

PHONE 758-4573

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 July 12 19 74 by Jack J. Moore made to Mobay Chemical Company and recorded on the 5th day of August 19 74, in Wetzel County, Book 55A Page 121

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

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 _____ 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, Mobay Chemical Corporation
(Sign Name) S. Brooks
Well Operator
by Haddad and Brooks, Inc.
Penn Lincoln Parkway West

Street
Pittsburgh

City or Town
Pennsylvania 15205

State

09/08/2023

*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.

BLANKET BOND

"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 S. Brooks

WET-638

PERMIT NUMBER

47-103

Ke ...
as
47-103-1154

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Delta Drilling NAME Mobay Chemical Corporation
 ADDRESS 115 South 6th Street ADDRESS New Martinsville, WV 26155
Indiana, PA 15701 TELEPHONE (412) 465-5657 TELEPHONE (304) 455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 3400' 4000' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon Warren
 TYPE OF WELL: OIL _____ GAS _____ COMB. 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	450	450	cemented to surface
9 - 5/8			
8 - 5/8	2450	2450	cemented w/75 sx and gel to surface
7			
5 1/2			
4 1/2 production	as needed		cemented as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET 1200, 1900 SALT WATER 2290 FEET
 APPROXIMATE COAL DEPTHS 1125' Pittsburgh Coal
 IS COAL BEING MINED IN THE AREA? No 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 09/08/2023, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

REP-TW
EOL-SH

For Coal Company

Official Title



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 31 1977

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 September 29, 1977

Surface Owner Jack Moore
R.D.#1, Box 34B
Address New Martinsville, WV 26155
Mineral Owner Jack Moore
Address Same
Coal Owner Consolidation Coal
Address Library, PA
Coal Operator Same
Address _____

Company Mobay Chemical Corporation
Address Penn Lincoln Parkway West
Pittsburgh, PA 15205
Farm Jack Moore Acres 82
Location (waters) Haynes Run
Well No. 1 Elevation 1362
District Proctor County Wetzel
Quadrangle New Martinsville (1:2400)

INSPECTOR
TO BE NOTIFIED _____
ADDRESS _____
PHONE _____

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 July 12 19 74 by Jack J. Moore made to Mobay Chemical Company and recorded on the 5th day of August 19 74, in Wetzel County, Book 55A Page 121

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

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 _____ 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, Mobay Chemical Corporation
(Sign Name) S. Brooks

Well Operator
by Haddad and Brooks, Inc.
Penn Lincoln Parkway West

Street
Pittsburgh
City or Town
Pennsylvania 15205
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.

09/08/2023

BLANKET BOND

"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 _____

WET-638 PERMIT NUMBER

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Delta Drilling NAME Mobay Chemical Corporation
 ADDRESS 115 South 6th Street ADDRESS New Martinsville, WV 26155
Indiana, PA 15701 TELEPHONE (304) 455-4400
 TELEPHONE (412) 465-5657 ESTIMATED DEPTH OF COMPLETED WELL: 3400' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. 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.
70 - 16			
3 - 10	450	450	cemented to surface
- 5/8			
8 - 5/8	2450	2450	cemented w/75 sx and gel to surface
7			
5 1/2			
4 1/2 production	as needed		cemented as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET 1200, 1900 SALT WATER 2290 FEET
 APPROXIMATE COAL DEPTHS 1125' Pittsburgh Coal
 IS COAL BEING MINED IN THE AREA? No 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.

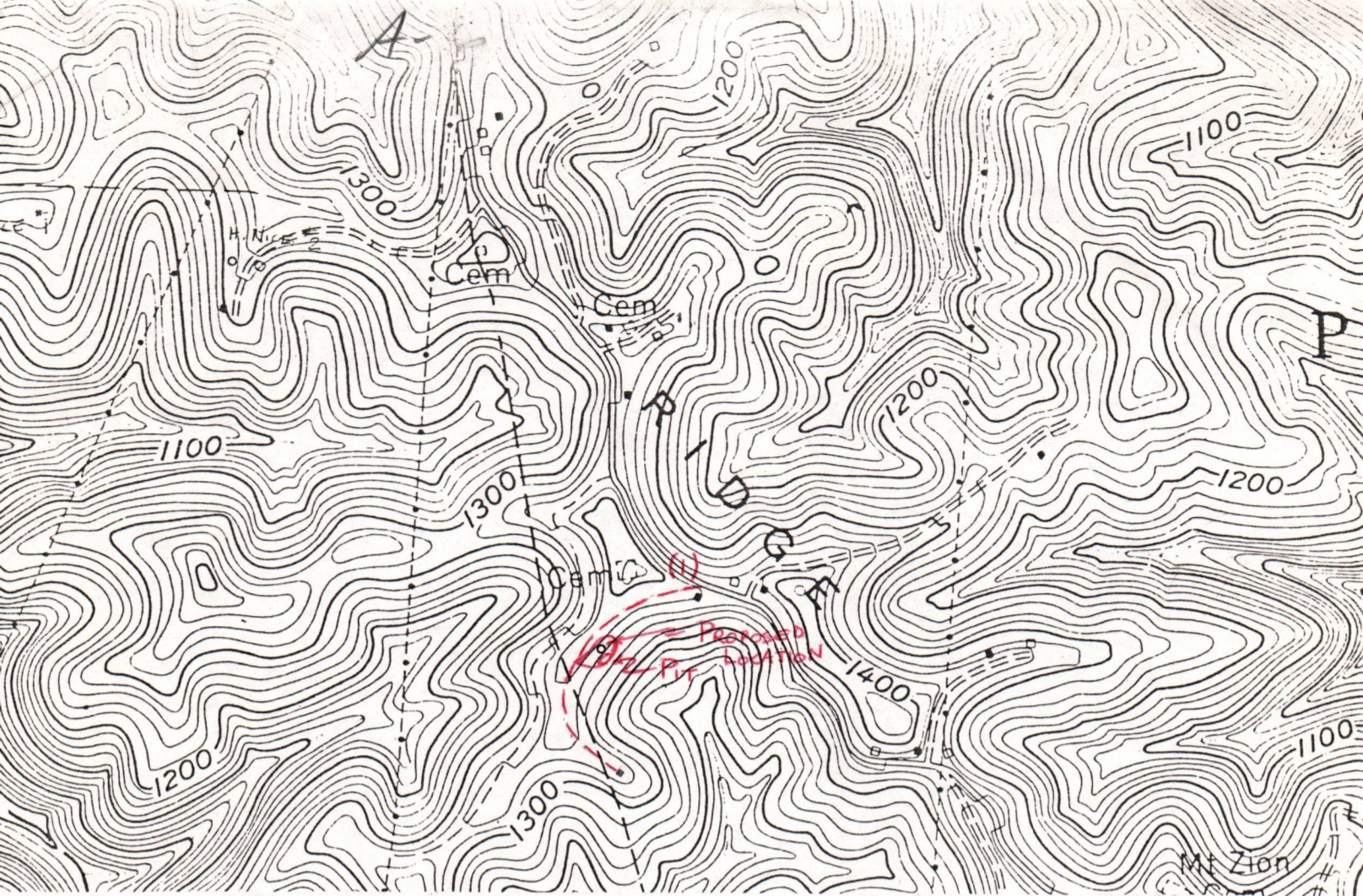
WAIVER: I the undersigned, Agent for CONSOLIDATION Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Consolidation 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.

[Signature]
For Coal Company

Vice President
Official Title

09/08/2023



Company : Mobay Chemical Corporation
Farm : Jack Moore No. 1
County : Wetzel
District: Proctor

The access road is an existing farm road leaving Huff Ridge Road at the point of the red dotted line (1). The road follows the ridge to allow for maximum natural drainage. However, culverts will be added if needed.

The location itself will be cut using the fill to widen the area of the location. There are no trees to be cleared. The pit will be on the south side of the location, as shown. The pit will be cut, using the fill to build up the sides, and will be designed to prevent leakage.

Upon completion, the drilling pit and location will be reclaimed allowing only the necessary area to operate the well. The cut area and all unused disturbed areas will be seeded as needed.

This plan was observed and agreed upon by the well operator, contractor, and district oil and gas inspector, Phil Tracy.

I certify that all requirements of Chapter 22, Article 4, Section 12B of the West Virginia Code of 1931, as amended, will be carried out.

S. L. Brooks

Vice President
Haddad and Brooks, Inc.
37 McMurray Road
Pittsburgh, PA 15241

09/08/2023

Agent For: Mobay Chemical Corporation

RECEIVED

OCT - 3 1977

OIL & GAS DIVISION
DEPT. OF MINES

47-103-1154

B-1

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

Date November 29, 1979

FORM IV-35 (Obverse)

Operator's Well No. Jack Moore #1

[08-78]

WELL OPERATOR'S REPORT 45 OF

API Well No. 47 - 103 - 1154 State County Permit

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 X /)

LOCATION: Elevation: 1362' Watershed: Haynes Run District: Proctor County: Wetzel Quadrangle: New Martinsville

WELL OPERATOR Mobay Chemical Corporation DESIGNATED AGENT Mobay Chemical Corporation Address Penn Lincoln Parkway West Pittsburgh, PA 15205 Address New Martinsville, WV 26155

RECEIVED Fracture or stimulate DEC - 3 1979

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Plug off old formation / Perforate new formation / Other physical change in well (specify)

OIL & GAS DIVISION DEPT. OF MINES

PERMIT ISSUED ON March 15, 1979 OIL & GAS INSPECTOR FOR THIS WORK: Name Phillip Tracy Address Middlebourn, WV

GEOLOGICAL TARGET FORMATION: Alexander Depth 5100 feet Depth of completed well, 3792' feet Rotary X / Cable Tools Water strata depth: Fresh, NA feet; salt, NA feet. Coal seam depths: 1047-1052' Pgs. Coals coal being mined in the area? No Work was commenced June 19, 1979, and completed August 9, 1979

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OPEN FLOW DATA

Producing formation Weir SS/Gordon SS Pay zone depth 2535-46/2979-96 feet Gas: Natural initial open flow, 0/400 Mcf/d Oil: Initial open flow, Bbl/d Weir Final open flow, 579 Mcf/d Final open flow, Bbl/d Gordon Warren Time of open flow between initial and final tests, NA hours Static rock pressure, NA psig (surface measurement) after hours shut in

09/08/2023

[If applicable due to multiple completion--] Second producing formation Warren SS Pay zone depth 3667-98 feet Gas: Natural initial open flow, 0 Mcf/d Oil: Initial open flow, Bbl/d Final open flow, NA Mcf/d Final open flow, Bbl/d Time of open flow between initial and final tests, NA hours Static rock pressure, 100 psig (surface measurement) after 14 hours shut in

B-2

[08-78]

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

Perforations - Warren: 3674-92.5, 18 holes Frac: HF acid 500 gal., CO₂ Frac, Breakdown pressure, 3,200 psi
 Total Sand - 10,000# 80/100 mesh sand, 40,000# 20/40 mesh sand, 1,050 bbls. water, 20 tons CO₂
 Perforations-Gordon: 2985.5-95.5, 12 holes Frac: Mod 202 acid 500 gal. Water frac, breakdown pressure 1,200 psi
 Total Sand - 16,000# 80/100 mesh sand, 37,500# 20/40 mesh sand, 935 bbls. water, 10 tons CO₂.
 Perforations-Weir: 2543-48, 11 holes & 2580-88, 10 holes Frac: Mod 202 500 gal. Water frac, Breakdown pressure 1800 psi
 Total Sand - 20,000# 80/100 mesh sand, 46,000# 20/40 mesh sand 1100 bbls. water, 30 tons CO₂

WELL LOG

FORMATION	Color	Hard or Soft	45 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
SH, SS	Gy-Red	S-H	0	1047	
Coal	Bl	S	1047	1052	
SS, SH	Lt. Gy-Gy	S-H	1052	2091	
LS	Tan	H	2091	2197	Greenbriar
SS	Wh-Gy	S-H	2197	2362	Big Injun
SH	Gy	S	2362	2504	
SS, SLST	Wh-Gy	H	2504	2596	Weir
SH, SLST	Gy	S	2596	2731	
SS	L. Gy-L. Br	H	2731	2746	Berea
SH	L. Br-Gy	S	2746	2979	
SS, SLST	Wh-Gy	H	2979	2997	Gordon Gas
SH, SLST, SS	Gy-Lt. Gy	S-H	2997	3667	
SS, SLST	Wh-Gy	H	3667	5107	Warren
T.D.				5107	

(Attach separate sheets to complete as necessary)

Mobay Chemical Corporation
 Well Operator
 By Michael Larson Geologist
 Its Agent, Haddad and Brooks, Inc. 09/08/2023

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."

OG-11 *B-3*

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

RECEIVED

JUN 22 1979

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. *WV 1154*

Oil or Gas Well _____
(KIND)

Company *Mobay Chemical Co.*
 Address *New Martinsville, W. Va.*
 Farm *Jack Moore*
 Well No. *1*
 District *Proctor* County *Wayne*
 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 5/8			Depth set _____
5 3/16			
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 *Paul Risher Lawrence Stroud*

Remarks: *Cont. S.W. Jack. Moving rig in.*

June 19, 79
DATE

Ph. Gray 512
DISTRICT *09/08/2023*

B-4

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

RECEIVED

INSPECTOR'S WELL REPORT

JUN 28 1979

Permit No. West 1134

Oil or Gas Well
OIL & GAS DIVISION

Company Mobray Chemical Co.
 Address Post Martinsburg W. Va.
 Farm Jack Moore
 Well No. 1
 District Putnam County Mingo
 Drilling commenced _____
 Drilling completed _____ Total depth 3900
 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	DEPT. OF MINES	
		LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
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 Paul Parker Lawrence Stewart

Remarks: out S.W. Jack

June 25, 79
DATE

Paul Perry 572
DISTRICT 09/08/2023

B-11

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

RECEIVED

SEP 11 1980

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 103-1154

Oil or Gas Well _____
(KIND)

Company <u>Mobay Chemical Co</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>New Martinsville W. Va</u>	Size			
Farm <u>Jack Moore</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			Size of _____
District <u>Proctor</u> County <u>Meigs</u>	10			Depth set _____
Drilling commenced _____	8 1/4			Perf. top _____
Drilling completed _____ Total depth _____	6 3/8			Perf. bottom _____
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			Liners Used _____
Volume _____ Cu. Ft.				
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

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: can be released

Sept 9, 80
DATE

Phil Dwyer 512
INSPECTOR
09/08/2023



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

September 17, 1980

Mobay Chemical Corporation
Penn Lincoln Parkway West
Pittsburgh, PA 15205

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

- 103-0644-DD - Warren Sands Farm - Well No. 1 - Magnolia District - Wetzel
- 103-1152 - Johnny Nice Farm - Well No. 4 - Magnolia District - Wetzel
- 103-1154 - Jack Moore Farm - Well No. 1 - Proctor District - Wetzel
- 103-1156 - George A. Anderson Farm - Well No. 2 - Magnolia District - Wetzel
- 103-1159 - C. A. Parsons Heirs Farm - Well No. 2 - Proctor District - Wetzel
- 103-1161 - C. A. Parsons Heirs Farm - Well No. 1 - Procter District - Wetzel

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved.....

Very truly yours,

Fred Burdette

09/08/2023

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	047 - 103 - 1154			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	108		Section of NGPA	Category Code
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	_____ feet			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	Wetzel Resources Corporation		Seller Code	
	Name 204 Union Square			
	Street Marietta,		Ohio	45750
	City		State	Zip Code
5.0 Location of this well: (Complete (a) or (b).)	Mobay Chemical Field			
(a) For onshore wells (35 letters maximum for field name)	Field Name Wetzel		W. Va.	
	County		State	
(b) For OCS wells:	Area Name		Block Number	
	Date of Lease:		OCS Lease Number	
	Mo.	Day	Yr.	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Jack Moore #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.)	Mobay Chemical Company		N/A	
	Name		Buyer Code	
(b) Date of the contract:	01 21 1984			
	Mo.		Day Yr.	
(c) Estimated total annual production from the well:	_____ Million Cubic Feet			
	(a) Base Price	(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.)	S/MMBTU 3.440	_____	_____	3.440
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 3.942	5.91	6.80	5.213
9.0 Person responsible for this application:	Sandra L. Schafer		Manager	
Agency Use Only	Name		Title	
Date Received by Agency MAY 23 1984	Signature <i>Sandra L. Schafer</i>			
Date Received by FERC	May 18, 1984		(614) 373-8686	
	Date Application is Completed		Phone Number	

PARTICIPANTS:

DATE: JUN 15 1984

BUYER-SELLER C

WELL OPERATOR:

Wetzel Resources Corporation

FIRST PURCHASER:

Mobay Chemical Company

OTHER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

840523 - 108 - 103 : 1154

Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 _____ Items not completed - Line No. _____
- 2. IV-1 Agent _____
- 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: _____ Date completed _____ Deepened _____
- (5) Production Depth: _____
- (5) Production Formation: _____
- (5) Final Open Flow: _____
- (5) After Frac. R. P. _____
- (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: _____ PSIG from Daily _____
- (8) Oil Production: _____ From Completion Report _____
- 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 there another Objection to _____ By Whom? _____

09/08/2023

Date May 18, 1984

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

Operator's Well No. #1
API Well No. 47 - 103 - 1154
State County Permit

WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGPA Section 108

DESIGNATED AGENT Steve Kuhl

ADDRESS 1004 41st Street

Vienna, W. Va. 26105

WELL OPERATOR Clay Resources, Inc. for Wetzel Resources Corp. LOCATION: Elevation 1362'

ADDRESS 204 Union Square

Watershed Haynes Run

Marietta, Ohio 45750

Dist Proctor County Wetzel Quad New Martinsville

GAS PURCHASER Mobay Chemical Corp.

Gas Purchase Contract No. N/A

ADDRESS _____

Meter Chart Code N/A

New Martinsville, W. Va. 26155

Date of Contract February 2, 1984

.....
Provide a complete inventory of the lease and production equipment used for the well for the previous 24 months or, if less than 24 months, the period the well has been in production. Include a complete list of equipment or processes used in connection with recognized enhanced recovery technique during completion or production. (Attach separate sheets, if necessary.)

Standard well equipment, i.e. Casing, casing head equipment, gas line, gas meter tubing, plunger, etc.

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

Production records, B&O tax records, royalty payment records - Located in office. Completion data, location and history of the well are on file with the State of West Virginia, Office of Oil and Gas, Charleston, W. Va.

09/08/2023

Describe the search made of any records listed above:

I hereby certify that I have made a complete search of all records pertaining to this well that are in my possession.

Are you aware of any other information which would tend to be inconsistent with the information specified above? Yes _____ No XX. If yes, indicate the type and source of the information.

AFFIDAVIT

I, Sandra L. Schafer, having been first sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate and that on the basis of the records and examinations hereinbefore described, and to the best of my information, knowledge and belief, the well for which this certification is sought qualifies as a stripper well.

Sandra L. Schafer

STATE OF WEST VIRGINIA,

COUNTY OF Wood, TO WIT:

I, Janis Y. Cline, a Notary Public in and for the state and county aforesaid, do certify that Sandra L. Schafer, whose name is signed to the writing above, bearing date the 18th day of May, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 18th day of May, 19 84.

My term of office expires on the 21 day of March, 19 88.

Janis Y. Cline
Notary Public

[NOTARIAL SEAL]

09/08/2023

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

Date May 18, 1984

Operator's Well No. #1

API Well No. 47-103

API Well No. 47-103 of 1154
State West Virginia County Putnam Permit 1154

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

WELL OPERATOR Clay Resources, Inc. for Wetzel Resources Corporation
ADDRESS 204 Union Square
Marietta, Ohio 45750

DESIGNATED AGENT Steve Kuhl
ADDRESS 1004 41st Street
Vienna, W. Va. 26105

Gas Purchase Contract No. N/A and Date February 2, 1984
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Mobay Chemical Company
(Street or P. O. Box)
New Martinsville, W. Va. 26155
(City) (State) (Zip Code)

FERC Seller Code N/A FERC Buyer Code N/A

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 108 Category Code _____
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Sandra L. Schafer Manager
Name (Print) Title
Sandra L. Schafer
Signature
204 Union Square
Street or P. O. Box
Marietta, Ohio 45750
City State (Zip Code)
(614) 373-8686
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

CERTIFIED MAIL

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1975 (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAY 23 1984

Director 09/08/2023
By [Signature]
Title _____

Not received by Jurisdictional Agency

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

REPORT DATE May 18, 1984

REPORT OF MONTHLY PRODUCTION
GAS VOLUMES IN MCF @ 14.73
OIL IN BARRELS @ 60 DEGREES

09/08/2023

OPERATOR Clay Resources, Inc. for Wetzel Resources Corporation

YEAR 19 83

API	FARM	COUNTY	AVG. FLOW PRESSURE												SHUT-IN PRESSURE												TOTALS
47-103-1154	Moore #1	Wetzel	68	135	185	281	306	320	261	199	208	30	31	30	31	30	31	30	31	1963							
GAS MCF																				4.10							
OIL BBL																				275							
DAYS ON LINE																											

YEAR 19 84

API	FARM	COUNTY	AVG. FLOW PRESSURE												SHUT-IN PRESSURE												TOTALS
47-103-1154	Moore #1	Wetzel	44	153	147	336															680						
GAS MCF																				1.23							
OIL BBL																				121							
DAYS ON LINE																											

YEAR 19 _____

API	FARM	COUNTY	AVG. FLOW PRESSURE												SHUT-IN PRESSURE												TOTALS
GAS MCF																											
OIL BBL																											
DAYS ON LINE																											

SUMMARIZATION SCHEDULE
Section 271.804 (b)

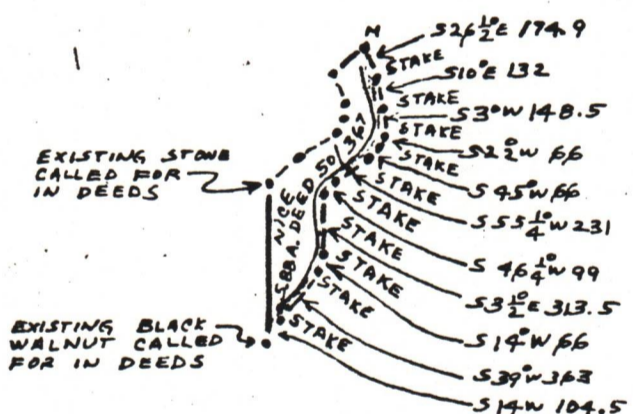
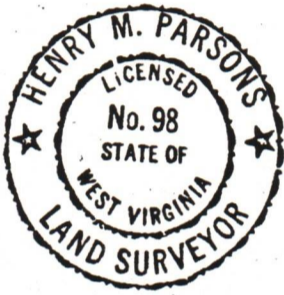
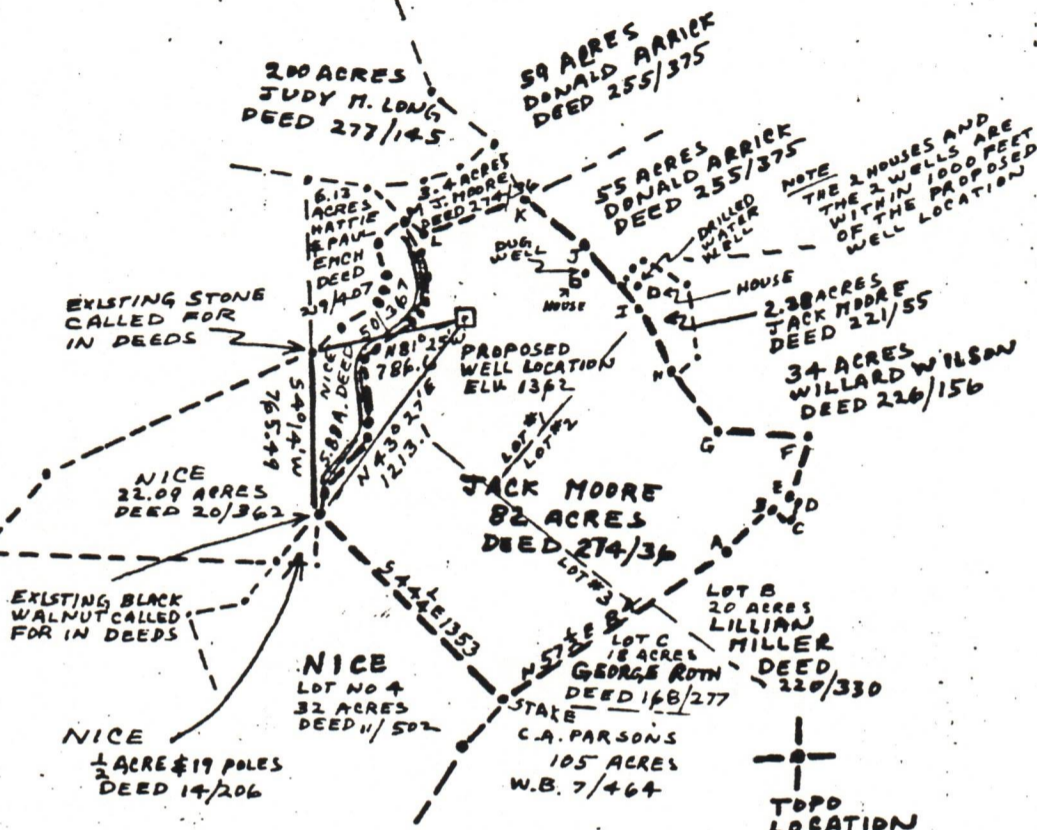
API NUMBERS

In accordance with Section 271.804 (b) please list all other wells which are to be used in determining this well classification under Part 271 Subpart H.

Latitude 39° 42' 30"

Longitude 80° 47' 30"

THE NEW SURVEY SOLID LINES ARE FROM MAG. NORTH
 THE BROKEN LINES ARE FROM DEEDS



A	CHESTNUT SNAG
AB	N 48 E, 313.5
B	W.O.
BC	S 67 1/2 E, 255.75
C	W.O. STUMP
CD	N 17 1/2 E, 122.1
D	STAKE
DE	N 47 W, 16.5
E	STAKE
EF	N 17 E, 335.49
F	W.O.
FG	N 85 W, 549.45
G	GUM
GH	N 43 1/2 W, 371.25
H	STAKE
HI	N 26 1/2 W 371.25 (313.5)
I	STONE
IJ	N 40 1/2 W 434.44
J	B.W.
JK	N 51 W 376
K	STONE
KL	S 70 W 544.5
LM	N 45 W 103.95
M	W.O.

New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure METHODS USED SHOULD PRODUCE 1 IN 2500
 Source of Elevation U.S.G.S. TRIANGULATION STATION (MCCRAY ECCENTRIC
 1957) WITH AN ELEVATION OF 1344

"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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia. *Henry M. Parsons*

Company MOBAY CHEMICAL CORPORATION
 Address NEW MARTINSVILLE, W.VA.
 Farm JACK MOORE
 Tract _____ Acres 82 Lease No. _____
 Well (Farm) No. JACK MOORE #1 Serial No. _____
 Elevation (Spirit Level) 1362
 Quadrangle NEW MARTINSVILLE (1:24000)
 County WETZEL District PROCTOR
 SURVEYOR
 Engineer HENRY M. PARSONS
 SURVEYOR
 Engineer's Registration No. 98
 File No. 74-81 Drawing No. _____
 Date AUGUST 30, 1977 Scale 1" = 1000

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

WELL LOCATION MAP
 FILE NO. 103-110 09/08/2023

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.