

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 Clay Resources

Address Marietta, OH 45750

Farm GEORGE A. ANDERSON

Tract _____ Acres 78 Lease No. _____

Well (Farm) No. ANDERSON #1 Serial No. _____

Elevation (Spirit Level) 1319 509 091 ECg

Quadrangle NEW MARTINSVILLE (1:2400) 7 1/2 15'

County WETZEL District MAGNOLIA 6

SURVEYOR HENRY M. PARSONS

Engineer's Registration No. 98

File No. 74-81 Drawing No. _____

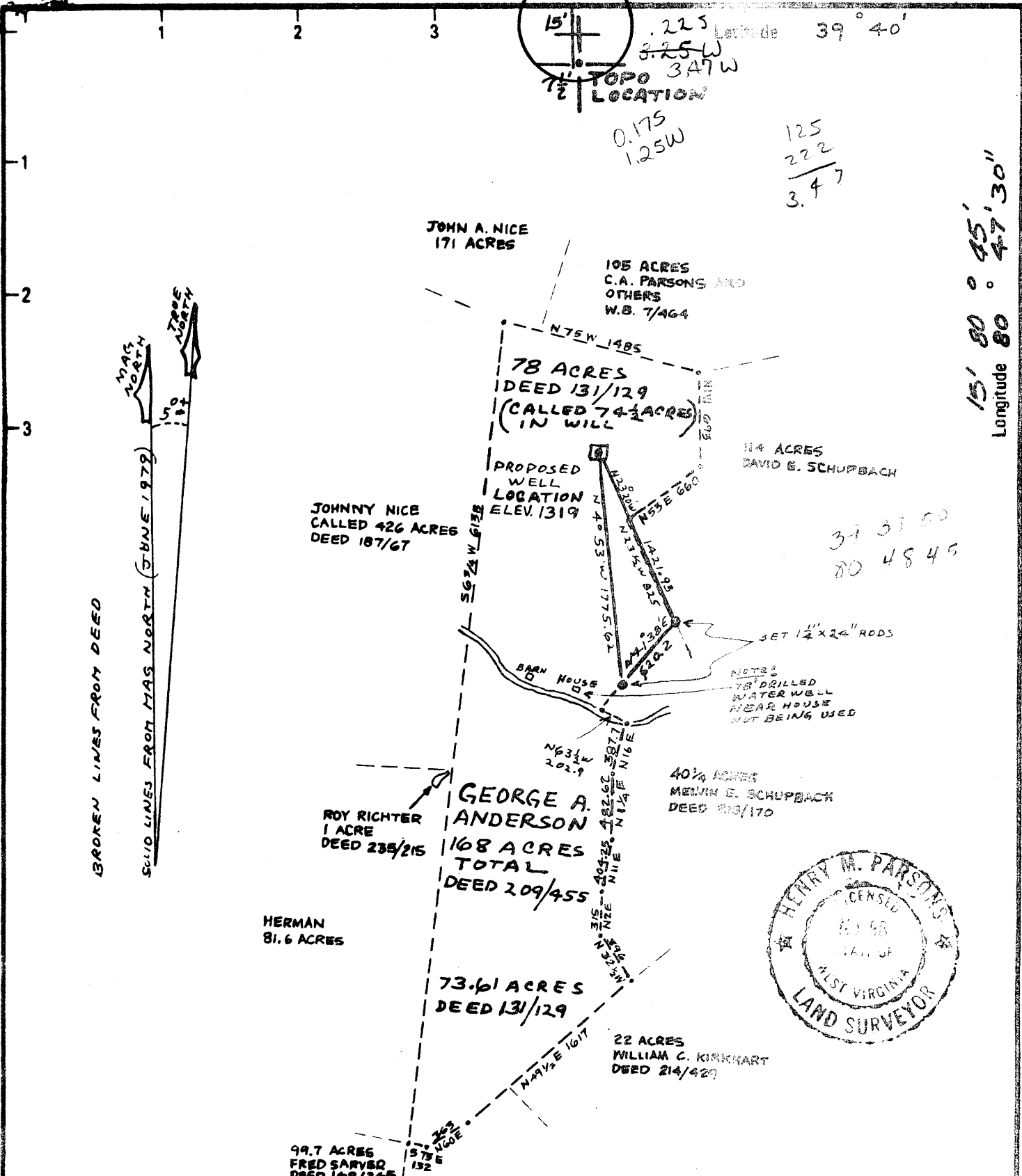
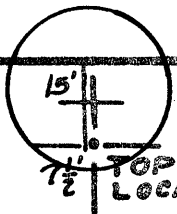
Date JUNE 11, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. 47-103-1155-Frac

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~25,000~~ ^{25,000} latitude and longitude lines being represented by border lines as shown.

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



Longitude 80° 45' 30"



<p>New Location <input checked="" type="checkbox"/></p> <p>Drill Deeper <input type="checkbox"/></p> <p>Abandonment <input type="checkbox"/></p>	<p>Minimum Error of Closure METHODS USED SHOULD PROVIDE 1 IN 2500</p> <p>Source of Elevation U.S.G.S. TRIANGULATION STATION (MCCRAY ECCENTRIC 1957)</p> <p>WITH AN ELEVATION OF 1344</p> <p>"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.</p> <p style="text-align: right;"><i>Henry M. Parsons</i></p>
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Company <u>MOBAY CHEMICAL CORPORATION</u>	
Address <u>NEW MARTINSVILLE, W. VA.</u>	
Farm <u>GEORGE A. ANDERSON</u>	
Tract _____	Acres <u>78</u> Lease No. _____
Well (Farm) No. <u>ANDERSON #1</u>	Serial No. _____
Elevation (Spirit Level) <u>1319</u>	
Quadrangle <u>NEW MARTINSVILLE (1:2400) 7 1/2, 15'</u>	
County <u>WETZEL</u>	District <u>MAGNOLIA</u>
SURVEYOR <u>HENRY M. PARSONS</u>	
SURVEYOR'S Registration No. <u>98</u>	
File No. <u>74-81</u>	Drawing No. _____
Date <u>JUNE 11, 1979</u>	Scale <u>1" = 1000'</u>

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

WELL LOCATION MAP
FILE NO. 47-103-1135

† 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 spots on border line of original tracing.

JUL 17 1979



WR-35

RECEIVED
FEB 28 1989

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date January 26, 1988
Operator's
Well No. Anderson #1
Farm George Anderson
API No. 47 - 103 - 1155 F

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1319 Watershed Haynes Run
District: Magnolia County Wetzel Quadrangle New Martinsville 1:240

COMPANY Clay Resources Inc.

ADDRESS P.O. Box 953, Marietta, Ohio 45750

DESIGNATED AGENT Andrew C. Brown, Jr.

ADDRESS Box 32, Reader, W. Va. 26167

SURFACE OWNER George & Genevieve Anderson

ADDRESS Rt. 1, Box 21, New Martinsville, W.Va.

MINERAL RIGHTS OWNER George & Genevieve Anderson

ADDRESS Rt. 1, Box 21, New Martinsville, W.Va.

OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt.2, Box 135, Salem, West Virginia

PERMIT ISSUED 10/22/85

DRILLING COMMENCED No drilling. Ran casing
DRILLING COMPLETED & Fraced well previously produced open hole.

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	No drilling	3150'	CTS
3	Ran casing and fraced well which was previously produced	open hole.	
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3300 feet

Depth of completed well 3300' feet Rotary N/A / Cable Tools

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: N/ Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2976'-2986' feet

Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 1 Bbl/d

Final open flow 25 Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 275 psig (surface measurement) after 48 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)

MAR 03 1989

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

Perforated with 20 holes from 2976' 2985' 3½ diameter .49

Foam Frac 340 SKS 20/40 sand, Broke @ 2000, ISP: 2200, N₂- 450,000 SCF:

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Do drilling. Fraced old well previously produced open hole.					

RECEIVED
FEB 28 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Clay Resources, Inc.
Well Operator

By: Sandra L. Schafer

Date: 1/26/88

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."
4421

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

Date November 28, 1979

FORM IV-35
(Reverse)

Operator's
Well No. George Anderson #1

[08-78]

WELL OPERATOR'S REPORT
OF

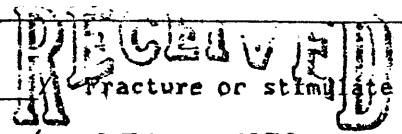
API Well No. 47 - 103 - 1155
State County Permi

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: 1314' Watershed: Haynes Run
District: Magnolia County: Wetzel Quadrangle: New Martinsville

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



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

OIL & GAS DIVISION

DEPT. OF MINES

PERMIT ISSUED ON June 19, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Phillip Tracy
Address Middlebourn, WV

GEOLOGICAL TARGET FORMATION: Alexander Depth 5400 feet
Depth of completed well, 3793 feet Rotary / Cable Tools
Water strata depth: Fresh, NA feet; salt, 1855 feet.
Coal seam depths: 1038-48' Pgh. Coal Is coal being mined in the area? No
Work was commenced June 29, 1979, and completed July 15, 1979

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	Left in well		
Conductor	11 3/4"		42	X		200'	200'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8"		24	X		1948'	1948'	75 sx Neat 4% CaCl + 7%	Gel to surf.
Production	None - Natural Production								Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 2260-70 feet
Gas: Natural Initial open flow, 438 Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 261 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, NA hours
Static rock pressure, 600 psig (surface measurement) after 4 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 Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

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

Natural completion

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
SH, SS	Gy-Red	S-H	0	1038	
Coal	Bl	S	1038	1048	
SS, SH	Lt. Gy-Gy	S-H	1048	2124	
LS	Tan	H	2124	2219	Greenbriar
SS	Wh-Gy	S-H	2219	2355	Big Injun - Gas
SH	Gy	S	2355	2510	
SS, SLST	Wh-Gy	H	2510	2616	Weir
SH, SLST	By	S	2616	2748	
SS	Lt. Gy-L. Br	H	2748	2764	Berea
SH	L. Br-Gy	S	2764	2998	
	Wh-Gy	H	2998	3006	Gordon Show Gas
SH, SLST, SS	Gy-Lt. Gy	S-H	3006	3682	
SS, SLST	Wh-Gy	H	3682	3716	Warren
SH, SLST	Gy	S-H	3716	3793	
T.D.				3793	

3793
3006

787 EXPL FT

CHEMUNG

(Attach separate sheets to complete as necessary)

Mobay Chemical Corporation
Well Operator

By Michael Carter Geologist

Its Agent, Haddad and Brooks, Inc.

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."

RECEIVED
OCT - 4 1985



1) Date: September 24, 1985

2) Operator's Well No. Anderson #1

3) API Well No. 47 103 1155-Frac
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil X / Gas X /
B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow _____)
5) LOCATION: Elevation: 1319' Watershed: Haynes Run
District: Magnolia County: Wetzell Quadrangle: New Martinsville 1:2400
6) WELL OPERATOR Clay Resources 172 CODE: 10025 7) DESIGNATED AGENT Andy Brown
Address 204 Union Square Address Box 32
Marietta, OH 45750 Reader, WV 26167

8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther Address General Delivery Middlebourne, WV 26149
9) DRILLING CONTRACTOR: Name B & B Drilling Address 412 Third Street Marietta, OH 45750

10) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate X /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) Run 4 1/2" casing

11) GEOLOGICAL TARGET FORMATION, 21
12) Estimated depth of completed well, 3100 feet
13) Approximate strata depths: Fresh, N/A feet; salt, 1855 feet.
14) Approximate coal seam depths: 1038 - 1048' Pgh. Coal Is coal being mined in the area? Yes _____ / No X /

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	Left in well		
Conductor	11 3/4"		42	X		200'	200'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8"		24	X		1948'	1948'	7 1/2% ex neat	Gel to Surface
Production	4 1/2"			X			3100'	500 + SKS	
Tubing									Depths set Per rule 15.01
Lin...									Perforations:
									Top Bottom

EXISTING

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-1155-Frac

October 22 19 85
Date

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 October 22, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>FTB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1030</u>	WPCP: <u>MU</u>	S&E: <u>MU</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

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

Date: June 18, 19 79

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. No. 1 G. Anderson

API Well No. 47 - 103 - 1155
State County Permit

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1319 Watershed: Haynes Run
District: Magnolia County: Wetzel Quadrangle: New Martinsville

WELL OPERATOR Mobay Chemical Corp.
Address Penn Lincoln Pkwy. West
Pittsburgh, PA 15205

DESIGNATED AGENT Mobay Chemical Corp.
Address New Martinsville, WV 26155

OIL & GAS ROYALTY OWNER George A. Anderson
Address Rt. 1, Box 21
New Martinsville, WV 26155

COAL OPERATOR None
Address _____

ACREAGE 78 Acres
SURFACE OWNER George A. Anderson
Address Same
ACREAGE 78 Acres

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name George A. Anderson
Address Rt. 1, Box 21
New Martinsville, WV 26155

FIELD SALE (IF MADE) TO:
Name Mobay Chemical Corp.
Address New Martinsville, WV 26155

Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address 1800 No. Washington Rd.
Pittsburgh, PA 15241

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Tracy
Address Middlebourne, WV 26149
304 758-4573

RECEIVED
JUN 19 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated June 15, 1979, to the undersigned well operator from _____
[If said deed, lease, or other contract has been recorded:]

Recorded on June 21, 19 79, in the office of the Clerk of the County Commission of Wetzel County, West Virginia, in 58A Clocked 6/15/79 to be recorded 6/21/79. A permit is requested as follows:

PROPOSED WORK: Drill / 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 the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
5 WASHINGTON STREET EAST
CHARLESTON, WV 25311
PHONE: (204) 248-2002

MOBAY CHEMICAL CORPORATION
Well Operator
By S. L. Brooks
Its HADDAD and BROOKS, INC. agent for
MOBAY CHEMICAL CORPORATION

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Co.
Address 43 S. Ninth Street
Indiana, PA 15701

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary / Cable tools
Approximate water strata depths: Fresh, 75 feet; salt, 1700 & 2200 feet.
Approximate coal seam depths: 1025' (Pgh) Is coal being mined in the area? Yes / No

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	Left in well		
Conductor									
Fresh water	11 3/4		42#	X		225'	225'	to surface	Kinds
Coal									
Intermediate	8 5/8		24#	X		2050'	2050'	100 sx cement & gel to surface	Sizes
Production	4 1/2		10.5#	X		5200'	5200'	cemented as needed	Depths set
Tubing									
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 drilling within 200 feet of the proposed well.

A separate Form IV-8 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 included 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 2-19-80.

[Signature]
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 regulations.

Date: , 19

By
Its