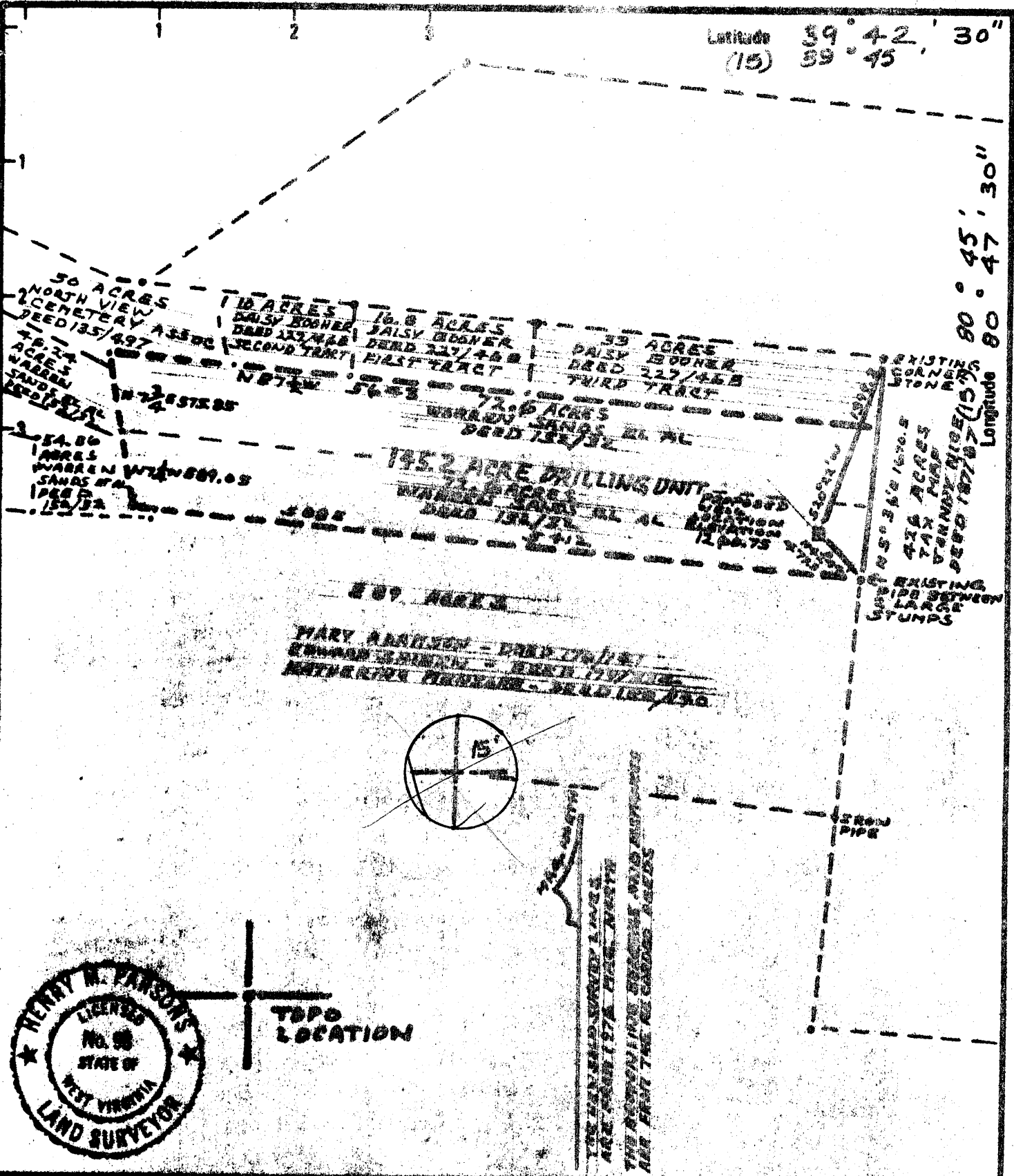




Latitude 39° 42' 30"  
(15) 39° 45'

Longitude 80° 47' 30"  
(15) 80° 45'



MARY ANNISON - DEED 135/497  
EMMA SHIRLEY - DEED 135/497  
MATHIEVA HUBBARD - DEED 135/497

New Location   
Drill Depth   
Abandonment

Minimum Error of Closure NETTED USED SHOULD PRODUCE 1 IN 2500  
Source of Elevation U.S. G.S. TRIANGULATION STATION (MC CRAW GREENYR 1957) WITH AN ELEVATION OF 1364.  
"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 8 of the rules and regulations of the oil and gas section of the mining laws of West Virginia. *Henry M. Parsons*

Company EDBAY CHEMICAL CORPORATION  
Address NEW MARTINSVILLE, W.VA.  
Farm SANDS NO. 3  
Tract PEE TANK DRILLING UNIT  
Well (Farm) No. WARREN SANDS NO. 3  
Elevation (Spirit Level) 1268.75 NE  
Outcrops NEW MARTINSVILLE  
County WETZEL  
Surveyor HENRY M. PARSONS  
Engineer's Registration No. 98  
File No. 74-81 Drawing No. \_\_\_\_\_  
Date MARCH 12, 1979 Scale 1" = 1000'

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

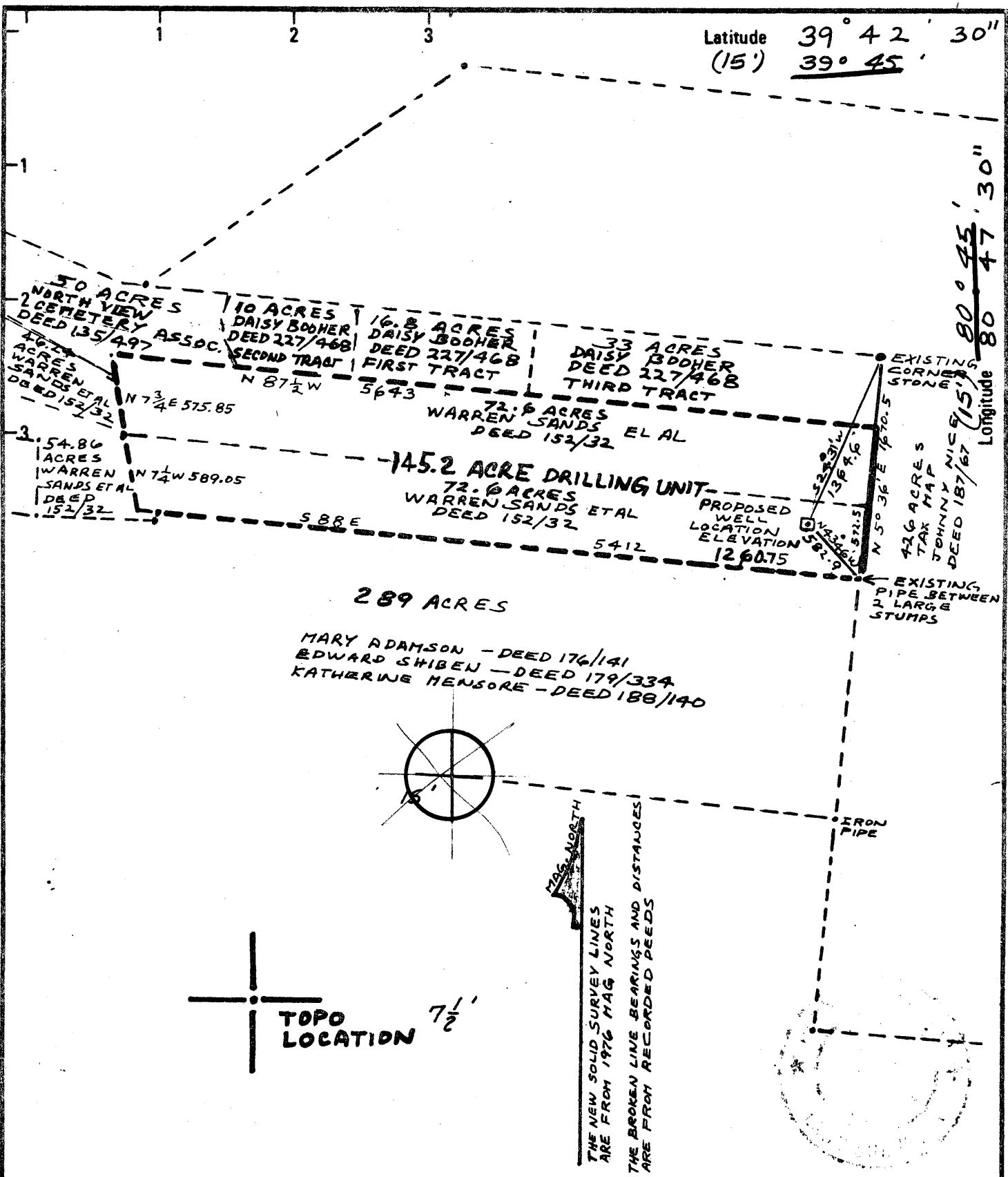
WELL LOCATION MAP  
FILE NO. 47-103-0644-DD-  
REV

+ Denotes location of well on United States Topographic Maps, scale 1:50,000 latitude and longitude lines being represented by border lines as shown.  
- Denotes one inch spaces on border line of original tracing.

APR 27 1979



Latitude 39° 42' 30"  
(15') 39° 45'



289 ACRES  
MARY ADAMSON - DEED 176/141  
EDWARD SHIBEN - DEED 179/334  
KATHERINE MENSORE - DEED 188/140

TOPO LOCATION 7 1/2'

THE NEW SOLID SURVEY LINES ARE FROM 1976 MAG NORTH  
THE BROKEN LINE BEARINGS AND DISTANCES ARE FROM RECORDED DEEDS

New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure <u>METHODS USED SHOULD PRODUCE 1 IN 2500</u> Source of Elevation <u>U. S. G. S. TRIANGULATION STATION (Mc CRAY ECCENTRIC 1957) WITH AN ELEVATION OF 1344</u> "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." <i>Henry M. Parsons</i>
---	--

Company	<u>MOBAY CHEMICAL CORPORATION</u>
Address	<u>NEW MARTINSVILLE, W.VA.</u>
Farm	<u>SANDS No. 1</u>
Tract	<u>145.2 ACRE DRILLING UNIT</u>
Well (Farm) No.	<u>WARREN SANDS EL AL</u>
Elevation (Spirit Level)	<u>1260.75 NE</u>
Quadrangle	<u>NEW MARTINSVILLE (1:24000), 15'</u>
County	<u>WETZEL</u> District <u>MAGNOLIA</u>
Surveyor	<u>HENRY M. PARSONS</u>
Engineer's Registration No.	<u>98</u>
File No.	<u>74-81</u> Drawing No. _____
Date	<u>JAN. 2, 1978</u> Scale <u>1" = 1000'</u>

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

WELL LOCATION MAP  
FILE NO. WET-644

+ 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.

47-103 MAR 20 1978

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

Date January 8, 1979

FORM IV-35  
(Obverse)

Operator's  
Well No. W. Sands Unit #1

[08-78]

WELL OPERATOR'S REPORT  
OF

API Well No. 47 - 103 0644  
State County Perm

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: 1270' Watershed: Williams 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  JAN 14 1980

Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON May 24, 1979

OIL & GAS INSPECTOR FOR THIS WORK: DEPT. OF MINES

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

Name Phillip Tracy

Address Middlebourne, WV 26149

\_\_\_\_\_, 19\_\_\_\_

GEOLOGICAL TARGET FORMATION: Oriskany Depth 7200 feet

Depth of completed well, 6947 feet Rotary  / Cable Tools

Water strata depth: Fresh, NA feet; salt, NA feet.

Coal seam depths: NA Is coal being mined in the area? No

Work was commenced June 11, 1979, and completed July 9, 1979

LOGGING AND TUBING PROGRAM

LOGGING 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		305'	305'	150 sks Neat 4% CaCl	Kinds
Fresh water									
Gal									Sizes
Intermediate	8 5/8		24	X		2050'	2050'	95 sks Neat 4% CaCl	
Production	4 1/2		11 1/2	X		6914'	6914'	200 sks RFC	Depths set
Tubing	1 1/2			X		6670'	6670'		
Runners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 6763'-6814' feet

Gas: Initial open flow, --- Mcf/d Oil: Initial open flow, --- Bbl/d

Final open flow, 480 Mcf/d Final open flow, --- Bbl/d

Time of open flow between initial and final tests, --- hours

Static rock pressure, 1625 psig (surface measurement) after 14 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

FEB 23 1980

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

Perforations Oriskany: Frac Notch 6771'-6773'. Frac: 1000 gal Hcl. Breakdown Pressure: 2600 psi. Total Sand: 40,000# 80/100 mesh sand, 80,000# 20/40 mesh sand. 900 bbl gelled 10% acid, 100 bbl gelled water.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
SD, SH, Slst	Gy.	S-H	0	947	
Coal	Blk.	S	947	956	Pittsburgh Coal
SD, SH, Slst	Gy.-Brn.	S-H	956	2004	Pennsylvanian, Mississippian
LS	Brn.	H	2004	2064	Greenbriar fossiliferous
SS	Wh.-Gy.	S-H	2064	2262	Big Injun
SH, Slst	Gy.	S	2262	2437	
SS, Slst	Gy.	H	2437	2508	Weir
SH, Slst	Gy.-Brn.	S-H	2508	2631	
Slst, SS	Brn.-Rd.	S-H	2631	2644	Berea
Slst, SH	Brn-rd-gy	S-H	2644	2882	
SS, Slst	Gy.	H	2882	2896	Gordon
Slst, SH, SS	Gy.	S-H	2896	3571	
Slst, SS	Gy.	H	3571	3602	Warren
Slst, SH	Brn.-Gy.	S-H	3602	6420	
Argil LS	Gy-Gy Blk	H	6420	6473	Tully Equivalent
SH	Blk.	S	6473	6531	Marcellus
LS, Chert	Brn,Wh,Gy.	H	6531	6763	Onondaga
SS (Limy)	Wh.-Gy.	H	6763	6814	Oriskany
LS, Cht	Wh-Brn-Gy	H	6814	T.D.6977 (P.I.)	Helderberg ✓

6814  
3210  
3604      Exploratory footage

(Attach separate sheets to complete as necessary)

Mobay Chemical Corporation  
Well Operator

By Michael S. Carlson Geologist

Its \_\_\_\_\_

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

RECEIVED  
MAY 24 1979

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 May 18, 1979

Surface Owner Warren Sands et al

Company Mobay Chemical Corporation

Address Rt. 2, New Martinsville, W.V. 26155

Address Penn Lincoln Parkway West

Mineral Owner W. Sands et al, J. Nice Hrs,

Farm Warren Sands et al Unit Acres 100

Address Adamson-Shiben-Mensore

Location (waters) Williams Run

Address Rt. 2 New Martinsville, WV 26155

Well No. 1 Elevation 1260.75

Coal Owner Warren Sands et al

District Magnolia County Wetzel

Address Rt. 2, New Martinsville, WV 26155

Coal Operator None

Quadrangle New Martinsville (1:24000)

Address \_\_\_\_\_

**THIS PERMIT MUST BE POSTED AT THE WELL SITE**

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling deeper. This permit shall expire if operations have not commenced by 2-11-80.

INSPECTOR  
TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, W. Va.

PHONE \_\_\_\_\_

*John T. [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 May 1 19 76 by Warren C. Sands, et al made to John Richmond and recorded on the 3rd day of May 19 76 in Wetzel County, Book 56A Page 503

\_\_\_\_\_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 \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

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

Address  
of  
Well Operator

Very truly yours, MOBAY CHEMICAL CORPORATION

(Sign Name) *[Signature]*  
Well Operator  
By Haddad and Brooks, Inc.  
Penn Lincoln Pkwy. 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.

BLANKET BOND

47-103-0644-DD 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 S. W. Jack Drilling NAME Mobay Chemical Corp.  
 ADDRESS Indiana, Penna. 15701 ADDRESS New Martinsville, WV 26155  
 TELEPHONE 412-463-9191 TELEPHONE 304-455-4400  
 ESTIMATED DEPTH OF COMPLETED WELL: 7200' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 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 11 3/4"	305'	305'	150 sx Neat (to surface)
9 - 5/8			
8 - 5/8	2050'	2050'	95 sx Neat
7			
5 1/2 Production	7200'	7200'	Cemented as needed
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 70' FEET SALT WATER 1740' FEET 2225'  
 APPROXIMATE COAL DEPTHS 950' Pgh 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.

\_\_\_\_\_ on file with original permit  
For Coal Company

\_\_\_\_\_  
Official Title





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAR 10 1978

OIL & GAS DIVISION  
DEPT. OF MINES

RECEIVED

OIL AND GAS WELL PERMIT APPLICATION

FEB 22 1979

OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE March 6, 1978

Surface Owner Warren Sands, et al

Company Mobay Chemical Corporation

Address Rt. 2, New Martinsville, WV 26155

Address Penn Lincoln Pkwy, West, Pittsburgh, PA

Mineral Owner same

Farm Warren Sands, et al Acres 145.2 15205

Address same

Location (waters) Williams Run

Coal Owner same

Well No. 1 Elevation 1260.75

Address \_\_\_\_\_

District Magnolia County Wetzel

Coal Operator \_\_\_\_\_

Quadrangle New Martinsville

Address \_\_\_\_\_

**THIS PERMIT MUST BE POSTED AT THE WELL SITE**

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for deepening ~~drilling~~. This permit shall expire if operations have not commenced by 10-27-79 ~~3-10-78~~.

*Phil Tracy*  
4-5-78

INSPECTOR

TO BE NOTIFIED Phil Tracy

ADDRESS Middlebourn, WV

PHONE 758-4573

*Robert L. Haddad*  
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 May 1 1976 by Warren C. Sands, et al made to John Richmond and recorded on the 3rd day of May 1976, in Wetzel County, Book 56A Page 503

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 \_\_\_\_\_ ~~day~~ ~~before~~ ~~or~~ on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, Mobay Chemical Corporation

(Sign Name) *SL Brooks*

Well Operator  
by Haddad and Brooks, Inc.

Penn Lincoln Pkwy, West  
Street

Pittsburgh  
City or Town

Pennsylvania 15205  
State

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

**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 *SL Brooks*

47-103-0644

~~47-103-0644~~ 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 Indiana, PA 15701 ADDRESS New Martinsville, WV 26155  
 TELEPHONE 465-5657 TELEPHONE 304-455-4400  
 ESTIMATED DEPTH OF COMPLETED WELL: 5200 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.
20 - 16			
13 - 10 11 3/4"	350'	350'	cement to surface
9 - 5/8			
8 - 5/8	2090'	2090'	cement w/75 sx & gel to surface
7			
5 1/2			
4 1/2 production	as needed		cement as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER 1100 FEET 2200'  
 APPROXIMATE COAL DEPTHS 975' 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.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAR 10 1978

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 March 6, 1978

Surface Owner Warren Sands, et al  
Address Rt. 2, New Martinsville, WV 26155  
Mineral Owner same  
Address same  
Coal Owner same  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Mobay Chemical Corporation  
New Martinsville, WV  
Address Penn Lincoln Pkwy. West, Pittsburgh, PA 15205  
Farm Warren Sands, et al Acres 145.2  
Location (waters) Williams Run  
Well No. 1 Elevation 1260.75  
District Magnolia County Wetzel  
Quadrangle New Martinsville

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 7-10-78.

INSPECTOR  
TO BE NOTIFIED Phil Tracy  
ADDRESS Middle bourn, WV  
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 May 1 1976 by Warren C. Sands, et al made to John Richmond and recorded on the 3rd day of May 1976, in Wetzel County, Book 56A Page 503  
 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 day ~~before~~ ~~or~~ on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

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

Address  
of  
Well Operator

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

BLANKET BOND

WET-644 PERMIT NUMBER

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

47103

Signed by [Signature]

**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 Indiana, PA 15701 ADDRESS New Martinsville, WV 26155  
 TELEPHONE 465-5657 TELEPHONE 304-455-4400  
 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.
20 - 16			
13 - 10 11 3/4"	350'	350'	cement to surface
9 - 5/8			
8 - 5/8	2090'	2090'	cement w/75 sx & gel to surface
7			
5 1/2			
4 1/2 production	as needed		cement as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET \_\_\_\_\_ SALT WATER 1100 FEET 2200'  
 APPROXIMATE COAL DEPTHS 975' 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.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title