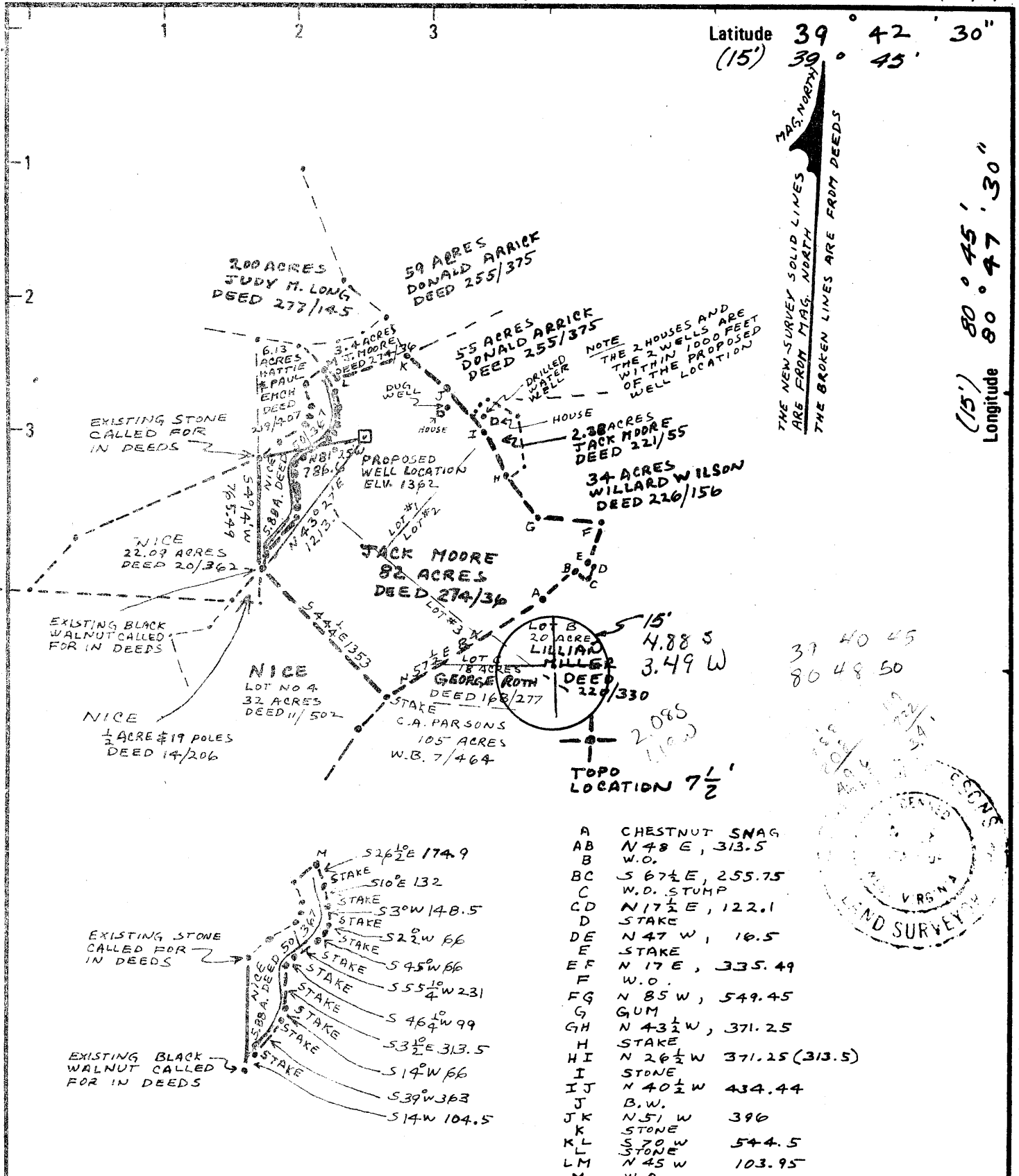


10/3/77



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 NE

Quadrangle NEW MARTINSVILLE (1:24000) 15'

County WETZEL District PROCTOR

SURVEYOR HENRY M. PARSONS

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

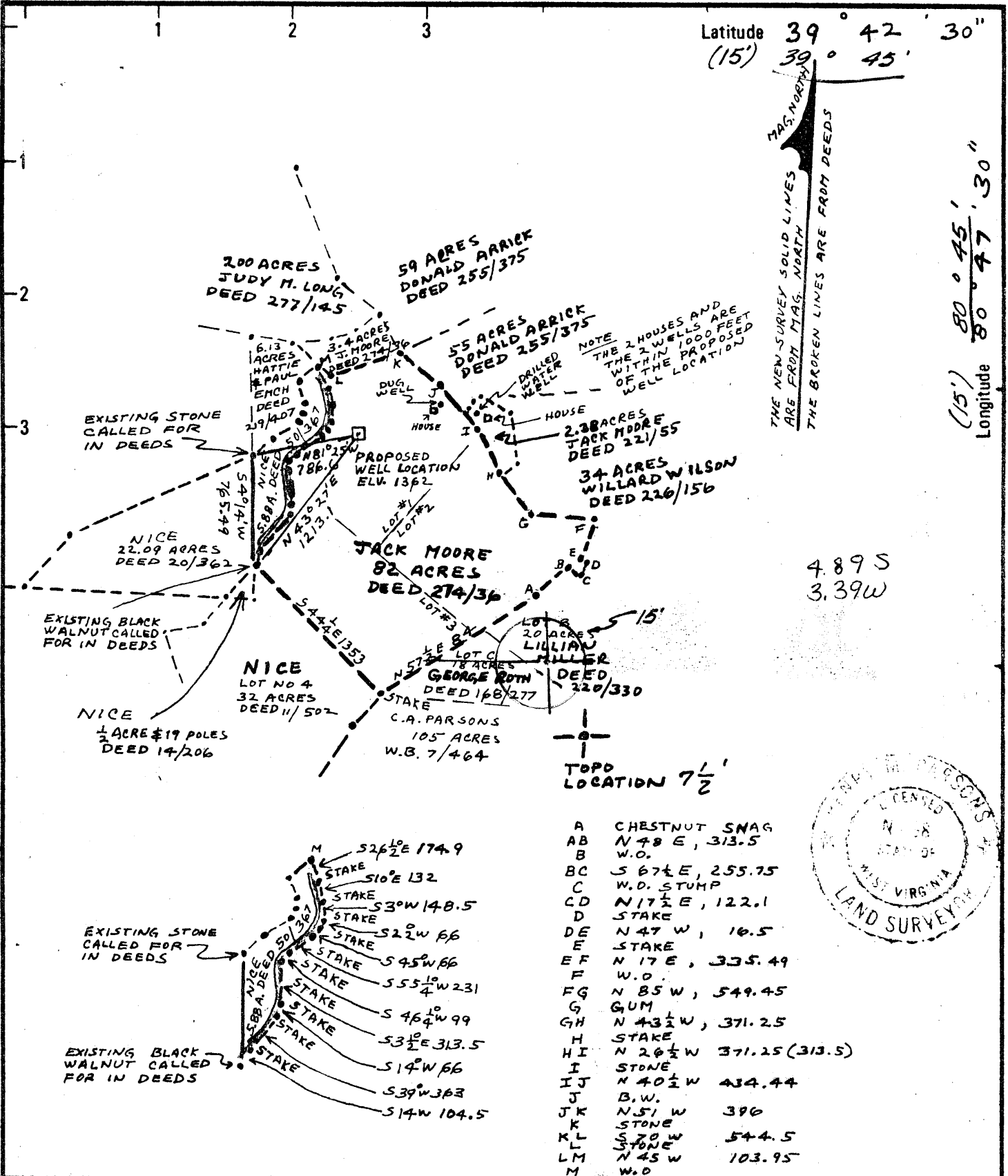
WELL LOCATION MAP  
 FILE NO. 47-103-1154  
 FORMERLY -WET-638

+ 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.

APR 10 1979

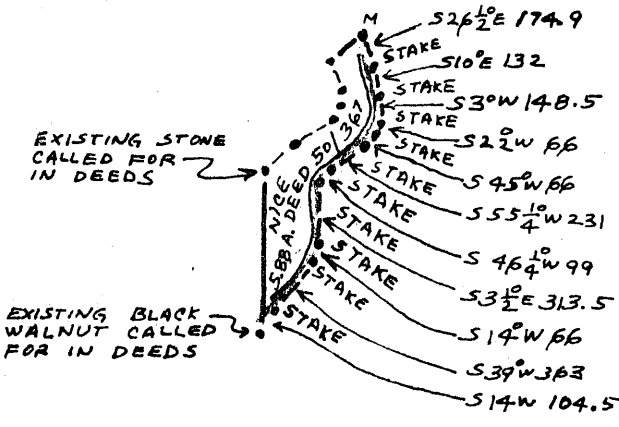
10/3/77



Latitude 39° 42' 30"  
(15') 39° 45'

Longitude 80° 45' 30"  
(15') 80° 47' 30"

A	CHESTNUT SNAG	
AB	N 48° E, 313.5	
B	W.O.	
BC	S 67 1/2° E, 255.75	
C	W.D. 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.	



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 NE  
 Quadrangle NEW MARTINSVILLE (1:24000) 15'  
 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. WET-638  
 now: Wet-1154

+ 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 OCT 25 1977

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

Date: November 29, 19 79

FORM MV-35  
(Obverse)

Operator's  
Well No. Jack Moore #1

[08-78]

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

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

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

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 Address New Martinsville, WV 26155  
Pittsburgh, PA 15205

**RECEIVED**

PERMITTED WORK: Drill  / Convert  / Drill deepen  / Redrill  Fracture or stimulate   
Plug off old formation  / Perforate new formation  **DEC - 3 1979**  
Other physical change in well (specify) \_\_\_\_\_

OIL & GAS DIVISION  
DEPT. OF MINES

PERMIT ISSUED ON March 15, 19 79

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 5100 feet

Depth of completed well, 3792' feet Rotary  / 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, 19 79, and completed August 9, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11 3/4"		42	X		250	250	Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8"		24	X		2087	2087	75 sx Neat + 4% CaCl-4% gel to surf.
Production	4 1/2"		10.5	X		3792	3792	200 sx 50-50 poz 150 sx-Thixo Depths set
Tubing	1 1/2"		2.5	X		3650	3650	
Liners								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

[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

[08-78]

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

Perforations - Warren: 3674-92.5, 18 holes Frac: HF acid 500 gal., CO<sub>2</sub> 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 CO<sub>2</sub>  
 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 CO<sub>2</sub>.  
 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 CO<sub>2</sub>

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	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	

5107  
2997  
2110 EXPL FT

DEV Jh

(Attach separate sheets to complete as necessary)

Mobay Chemical Corporation  
Well Operator  
By Michael Lubon 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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

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

Company Mobay Chemical Corporation  
Address Penn Lincoln Parkway West  
Pittsburgh, PA 15205

Mineral Owner Jack Moore  
Address Same

Farm Jack Moore Acres 82

Coal Owner Consolidation Coal  
Address Library, PA

Location (waters) Haynes Run

Coal Operator Same

Well No. 1 Elevation 1362

District Proctor County Wetzel

Address \_\_\_\_\_

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 2-18-78.

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

Address of Well Operator

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

\*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 [Signature]

was: WET-638 PERMIT NUMBER

47-103

now: Wet-1154

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  
 ESTIMATED DEPTH OF COMPLETED WELL: 3400' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Gordon  
 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.

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

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAR 15 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

*PK*

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

Company Mobay Chemical Corporation  
Penn Lincoln Parkway West  
Address Pittsburgh, PA 15205

Mineral Owner Jack Moore  
Address Same

Farm Jack Moore Acres 82

Coal Owner Consolidation Coal  
Address Library, PA

Location (waters) Haynes Run

Well No. 1 Elevation 1362

Coal Operator Same  
Address \_\_\_\_\_

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.

*Robert L. Haddad*  
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

Very truly yours, Mobay Chemical Corporation

(Sign Name) *S. Brooks*

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

Address of Well Operator

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

REISSUED AS : 47-103-1154

WET-638 (Expired) 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."

Signed by *S. Brooks*

47-103

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 (412) 465-5657 TELEPHONE (304) 455-4400  
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Gorden Warren  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. X STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT 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.

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OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

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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