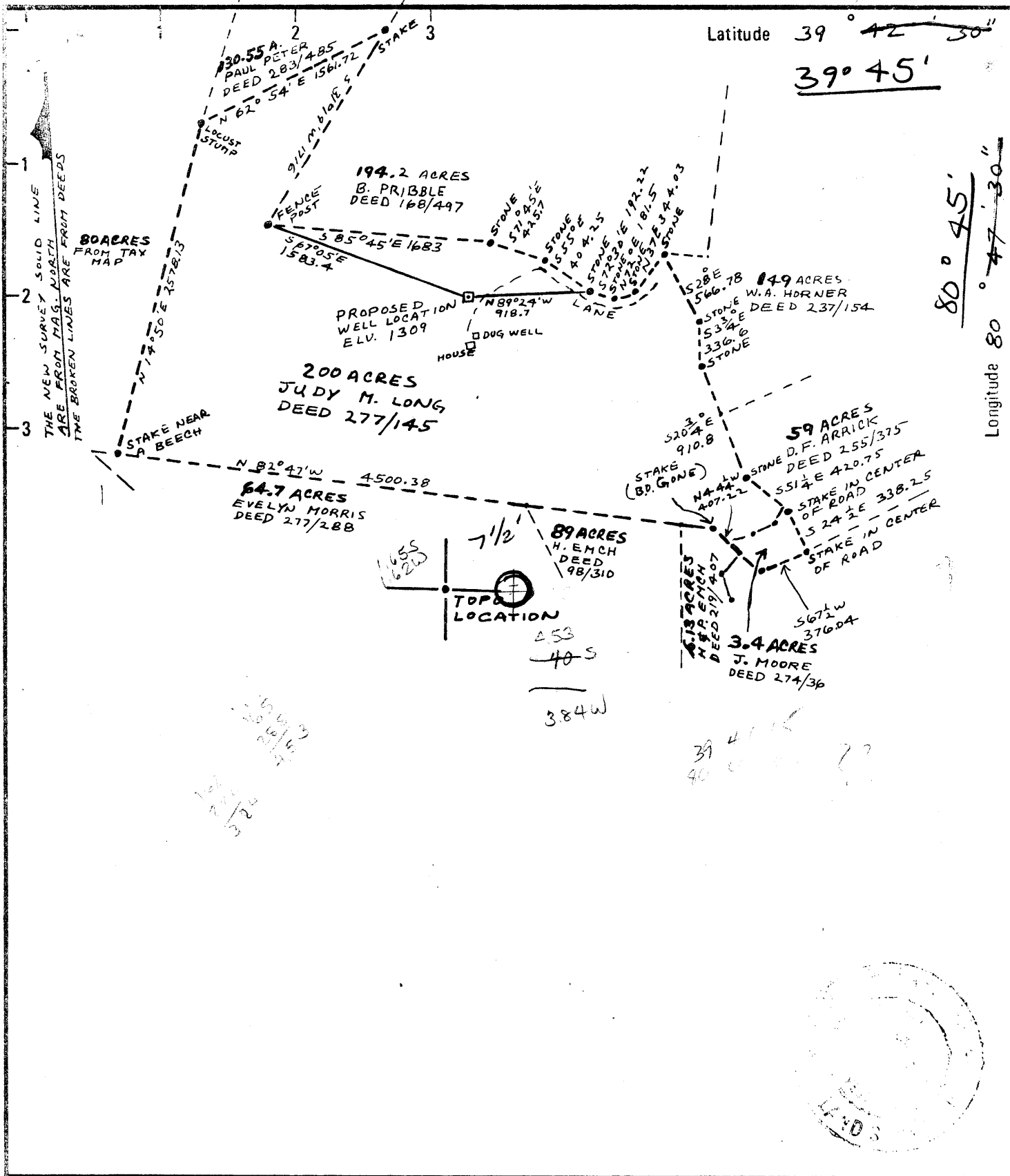


Latitude $39^{\circ} 42' 30''$

$39^{\circ} 45'$

Longitude $80^{\circ} 45'$
 $80^{\circ} 47' 30''$



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 1952) 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 JUDY M. LONG
Tract _____ Acres 200 Lease No. _____
Well (Farm) No. HARRY NICE #2 Serial No. _____
Elevation (Spirit Level) 1309
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 JUNE 17, 1977 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. WET-632

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~62,500~~ ^{24,000} latitude and longitude lines being represented by border lines as shown.

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

47-103 OCT 5 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED
SEP 13 1978
OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle New Martinsville

Permit No. Wet-632

Rotary X Oil _____
Cable _____ Gas ⊗
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

| | | | | |
|--|-------------------|------------------|--------------|------------------------------------|
| Company <u>Mohay Chemical Corporation</u> | Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
| Address <u>Penn Lincoln Pkwy W., Pittsburgh, PA</u> | Size | | | |
| Farm <u>Harry Nice</u> Acres <u>200</u> | 20-16 | | | |
| Location (waters) <u>Haynes Run</u> | Cond. | | | |
| Well No. <u>2</u> Elev. <u>1309</u> | 13-10" 11 3/4 | 392 | 392 | 175 sx Neat + 3% CaCl |
| District <u>Proctor</u> County <u>Wetzel</u> | 9 5/8 | | | |
| The surface of tract is owned in fee by <u>Judy M. Long</u> | 8 5/8 | 2227 | 2227 | 120 sx Neat + 4% Ca gel to surface |
| Address <u>Box 2B-Barker Road, Pine Grove, WV</u> | 7 | | | |
| Mineral rights are owned by <u>Harry Nice</u> 26155 | 5 1/2 | | | |
| Address <u>912 Highland Ave, N. Martinsville, WV</u> | 4 1/2 | 3001 | 3001 | 180 sx RFC |
| Drilling Commenced <u>1/2/78</u> | 3 | | | |
| Drilling Completed <u>2/1/78</u> | 2 | | | |
| Initial open flow <u>100M</u> cu. ft. -- bbls. | Liners Used | | | |
| Final production <u>884M</u> cu. ft. per day <u>50</u> bbls. | | | | |
| Well open <u>3</u> hrs. before test <u>725</u> RP. | | | | |

Well treatment details: Attach copy of cementing record.
Frac Gordon (Notch 2914'), 432 BW, 73,500# sand, 74M SCF N₂, ATP 2535# @ 14.9 BPM.
Frac Berea (perf. 2662-74, 10 holes) 700 BW, 60,000# sand, 131M SCF N₂, ATP 2400# @ 19 BPM
Frac Weir (perf. 2469-2520, 23 holes) 815 BW, 101,000# sand, 21 tons CO₂, ATP 2575# @ 24 BPM

Coal was encountered at 1042-48 Pgh. Coal Feet _____ Inches _____
 Fresh water 107 Feet _____ Salt Water 1730 Feet _____
 Producing Sand Gordon, Berea, Weir Depth _____

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-----------|-----------|--------------|----------|-------------|-------------------|-----------|
| KB -- GL | Top Soil | | 0 | 45 | | |
| Sdy SH | gy | S | 45 | 85 | | |
| SD | gy | H | 85 | 105 | | |
| SH & RR | gy-red | S | 105 | 340 | | |
| SD & SH | gy | S | 340 | 430 | | |
| Sdy. SH | gy | S | 430 | 520 | | |
| SD | lt. gy | H-S | 520 | 575 | | |
| Sdy. SH | med. gy | S | 575 | 595 | | |
| SD | lt. gy | H | 595 | 615 | | |
| Sdy. SH | gy | S | 615 | 675 | | |
| SD | lt. gy | H | 675 | 820 | | |
| Sdy. SH | gy | S-H | 820 | 990 | | |
| SD | lt. gy | H | 990 | 1020 | | |
| Sdy SH | gy | S | 1020 | 1095 | | |
| Coal | blk. | S | 1042 | 1048 | | |
| SD | gy-wh | H | 1095 | 1190 | | |
| SH | gy | S | 1190 | 1300 | | |
| Sdy SH | lt.-m. gy | S | 1300 | 1370 | | |

(over)

* Indicates Electric Log tops in the remarks section.

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------|-------------|--------------|---------------------|-------------|-------------------|-----------|
| SH | gy | S | 1370 | 1450 | | |
| Sdy. SH | gy & maroon | S | 1450 | 1495 | | |
| SD | gy | H | 1495 | 1525 | | |
| Sdy SH, SD | lt-m. gy | S | 1525 | 1615 | | |
| SH | gy | S | 1615 | 1700 | | |
| SD | lt. gy-gy | H | 1700 | 1755 | | |
| Coal Shows | blk. | S | 1700, 1758, 1774 | | | |
| Sdy. SH | gy | S | 1755 | 1815 | | |
| SD | gy | H | 1815 | 1840 | | |
| SH, Sdy. SH | gy | S | 1840 | 1925 | | |
| SD | gy | H | 1925 | 2005 | | |
| SH, Sdy SH | lt-m. gy | S | 2005 | 2065 | | |
| LS | tan | H | 2065 | 2128 | Greenbriar | |
| SS | wh-gy | H | 2128 | 2280 | Big Injun* | |
| SH, SLST | gy | S | 2280 | 2424 | | |
| Slty SS | gy | H | 2424 | 2538 | Weir* | SSG |
| SH | gy | S | 2538 | 2660 | | |
| SS | Red gy | H | 2660 | 2678 | Berea* | Odor |
| SH, SLST | Maroon-brn | S | 2678 | 2894 | | |
| SS, SLST | gy | H | 2894 | 2965 | Gordon* | 100M |
| SLST, SH | gy | H | 2964 | 3029 | | |
| | | TD | 3029 | | | |

2065
1309
-733

Date September 11, 1978

APPROVED Mobay Chemical Corporation, Owner

By Michael F. Yarusso Geologist
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 26 1977

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 August 24, 1977

Surface Owner Judy M. Long
Address Box 2B - Barker Rt Pine Grove, WV 26419
Mineral Owner Harry Nice
Address 912 Highland Avenue New Martinsville, WV 26155
Coal Owner Consolidated Coal
Address Library, PA
Coal Operator same
Address _____

Company Mobay Chemical Corporation
Address Penn Lincoln Parkway Pittsburgh, PA 15205
Farm Harry Nice Acres 200
Location (waters) Haynes Run
Well No. 2 Elevation 1309
District Proctor 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 12-30-77

INSPECTOR TO BE NOTIFIED Phillip Tracy
ADDRESS P.O. Box 173, 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 April 4 19 73 by Harry Lee Nice made to Eastern Gas & Oil and recorded on the 5th day of June 19 73 in Wetzel County, Book 54A Page 399

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]
by Haddad and Brooks, Inc.
Penn Lincoln Parkway West
Street
Pittsburgh
City or Town
PA 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.

WET-632 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 [Signature]

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 S. W. Jack Drilling Company NAME Mobay Chemical Corporation
 ADDRESS Indiana, PA 15701 ADDRESS New Martinsville, WV
 TELEPHONE 412-463-9191 TELEPHONE 304-455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 3200' 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 <u>11 3/4"</u> | <u>375'</u> | <u>375'</u> | <u>cement to surface</u> |
| 9 - 5/8 | | | |
| 8 - 5/8 | <u>2275'</u> | <u>2275'</u> | <u>cement w/75 sx and gel to surface</u> |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 <u>production casing</u> | <u>as needed</u> | | <u>cement as needed</u> |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 100' FEET _____ SALT WATER 1025', 1675'
 APPROXIMATE COAL DEPTHS 950' - Pittsburgh Coal FEET 2175'
 COAL BEING MINED IN THE AREA? No BY WHOM? _____

O 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