

(15') 80° 45' Longitude 80° 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 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 GEORGE A. ANDERSON
 Tract _____ Acres 78 Lease No. _____
 Well (Farm) No. ANDERSON #2 Serial No. _____
 Elevation (Spirit Level) 1343
 Quadrangle NEW MARTINSVILLE (1:2400), 15', 7 1/2'
 County WETZEL District MAGNOLIA
 SURVEYOR HENRY M. PARSONS
 SURVEYOR'S 98
 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. 47-103-1156

+ 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.

JUL 17 1979

FORM IV-35 (Obverse)

Operator's Well No. George Anderson #2

[08-78]

WELL OPERATOR'S REPORT

API Well No. 47 - 103 - 115 State County Permi

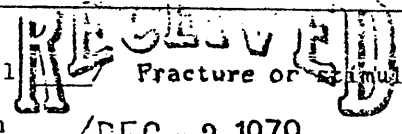
OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

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

WELL OPERATOR Mobay Chemical Corp DESIGNATED AGENT Mobay Chemical Corp. Address Penn Lincoln Pkwy. West Pittsburgh, PA 15205 Address New Martinsville W VA 26155

PERMITTED WORK: Drill X / 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 July 19, 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 W VA

GEOLOGICAL TARGET FORMATION: Alexander Depth 5400 feet

Depth of completed well, 3824 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, NA feet; salt, None feet.

Coal seam depths: 1075'-1080' Driller Is coal being mined in the area? NO

Work was commenced July 16, 19 79, and completed August 30, 19 79

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, Perforations: Top, Bottom). Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, and Liners.

OPEN FLOW DATA

Producing formation Weir SS/ Gordon SS Pay zone depth 2550-2650/3028 feet

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, - Bbl/d Weir Final open flow, 184 Mcf/d Final open flow, - Bbl/d Gordon Warren Time of open flow between initial and final tests, NA hours

Static rock pressure, 800 psig (surface measurement) after 67 hours shut in

[If applicable due to multiple completion--]

Second producing formation Warren SS Pay zone depth 3713-47 feet

Gas: 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, NA psig (surface measurement) after NA hours shut in

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

Perforations Warren: 3724-3740.5, 17 holes Frac: Hcl acid 500 gal. Breakdown Pressure, 1500 psi total sand- 10,000 #80/100 mesh sand, 27,000 #20/40 mesh sand 26,000 cubic feet N2, 675 bbls water

Perforations Gordon: 3029-3039.5, 13 holes Frac: Mod 202 500 gal, Breakdown Pressure 30,000 psi total sand- 15,000 #80/100 mesh sand, 45,000 #20/40 mesh sand, 925 bbls water 15 tons Co2

Perforations- Weir: 2589.5-2537, 28 holes Frac: Mod 202 500 gal, Breakdown Pressure 2150 psi total sand- 20,000 #80/100 mesh sand, 26000 # 20/40 mesh sand, 880 bbls water 20 tons Co2

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-RD | S-H | 0 | 1075 | |
| Coal | BL | S | 1075 | 1080 | Drillers Footage |
| SS, SH | GY-LTGY | S-H | 1080 | 2160 | |
| LS | Tan | H | 2160 | 2245 | Greenbriar |
| SS | WHGY | S-H | 2245 | 2383 | Big Injun |
| SH | GY | S | 2383 | 2549 | |
| SS, SLST | WHGY | H | 2549 | 2650 | Weir |
| SH | GY | S | 2650 | 2778 | |
| SS | LBR-LGY | H | 2778 | 2794 | Berea |
| SH, SLST | BR-GY | S | 2794 | 3028 | |
| SH, SLST, SS | GY-LTGY | S-H | 3032 | 3713 | |
| SS, SLST | WH-GY | H | 3713 | 3747 | Warren |
| SH, SLST | GY | S-H | 3747 | 3824 | |
| TD | | | 3824 | | CHEMUNE |

3824
3039

785 EXPL FT.

(Attach separate sheets to complete as necessary)

Mobay Chemical Corp.

Well Operator

By Michael L. Laker 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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. No. 2 G. Anderson

API Well No. 47-103-1156
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 _____

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 Corporation
Address New Martinsville, WV 26155

Name _____
Address _____

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

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

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 DEPT. OF MINES to the undersigned well operator from _____

If said deed, lease, or other contract has been recorded:]
Recorded on June 21, 1979, in the office of the Clerk of the County Commission of Wetzel County, West Virginia, in 58A Book _____ at page _____. 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 PHOTOGRAPHIC LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
115 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (204) 348-2000

MOBAY CHEMICAL CORPORATION
Well Operator
By [Signature]
Its HADDAD and BROOKS, INC. agent for
MOBAY CHEMICAL CORPORATION

[08-78]

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 1725 / Cable tools
Approximate water strata depths: Fresh, 75 feet; salt, 2225 feet.
Approximate coal seam depths: 1050' (Pgh) Is coal being mined in the area: Yes / No X

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 | | | | | | | | | Kinds |
| Fresh water | 11 3/4 | | 42# | X | | 225' | 225' | to surface | |
| Coal | | | | | | | | | Sizes |
| Intermediate | 8 5/8 | | 24# | X | | | | 100 SX cement & gel to surface | |
| Production | 4 1/2 | | 10.5# | X | | | | cemented as needed | Depths set |
| Tubing | | | | | | | | | |
| Liners | | | | | | | | | Perforations: |
| | | | | | | | | | Top Bottom |

NOTE: Regulation 2.02 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-2 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 noted as such 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.

Robert H. [Signature]
Deputy Director, Oil & Gas Division 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 X / 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