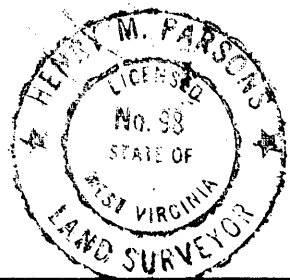


7 1/2'
 TOPO LOCATION

5.41 S
 3.71 W



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. 26155
 Farm NICE, Glorio & Potty Potts
 Tract _____ Acres 171.16 Lease No. _____
 Well (Farm) No. NICE-POTTS #1 Serial No. _____
 Elevation (Spirit Level) 1314 NE
 Quadrangle NEW MARTINSVILLE (1:2400), 15
 County WETZEL District PROCTOR
 SURVEYOR HENRY M. PARSONS
 SURVEYOR
 Engineer's Registration No. 98
 File No. 74-81 Drawing No. _____
 Date APRIL 16, 1977 Scale 1"=1000'

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

WELL LOCATION MAP
 FILE NO. WET-614

+ 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 JUN 8 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 33

RECEIVED

AUG 10 1978

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle New Martinsville

Permit No. Wet 614

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

Company <u>Mobay Chemical Corporation</u>	Casing and 15205 Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Penn Lincoln Pkwy. West, Pittsburgh, PA</u>				
Farm <u>Patty Potts-Gloria Nice</u> Acres <u>171.16</u>	Size			
Location (waters) <u>Haynes Run</u>	20-16			
Well No. <u>1</u> Elev. <u>1314</u>	Cond. <u>20"</u>	<u>28'</u>	<u>28'</u>	
District <u>Proctor</u> County <u>Wetzel</u>	<u>13-10" 11 3/4</u>	<u>415'</u>	<u>415'</u>	<u>200 sx Neat w/4% CaCl + 1/2#/sk flocc</u>
The surface of tract is owned in fee by <u>Patty Potts-Gloria Nice</u>	<u>9 5/8</u>			<u>75 sx Class A ceme w/4% CaCl & gel to surface</u>
Address <u>P.O. Box 435, New Martinsville, WV</u>	<u>8 5/8</u>	<u>2086'</u>	<u>2086'</u>	
Mineral rights are owned by <u>same</u>	<u>7</u>			
Address <u>same</u>	<u>5 1/2</u>			
Drilling Commenced <u>11/3/77</u>	<u>4 1/2</u>	<u>3231</u>	<u>3231</u>	<u>200 sx RFC</u>
Drilling Completed <u>11/16/77</u>	<u>3</u>			
Initial open flow <u>SSG</u> cu. ft. <u>--</u> bbls.	<u>2</u>			
Final production <u>400M</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>20</u> hrs. before test <u>550</u> RP.				

Well treatment details:

Attach copy of cementing record.

Frac 5th, Gordon, Berea (Perf. 3133-35, 4 holes: 2937-51, 11 holes; 2686-87, 4 holes) w/
1205 BW ; J160, 145,000# sand, 35 tons CO₂, ATP 20 BPM @ 1900#

Frac Weir (Perf. 2496-2545, 25 holes) w/960 BW, J160, 120,000# sand, 19 tons CO₂,
ATP 26 BPM @ 2500 psi

Coal was encountered at 995-1002, 1620, 1675 Feet _____ Inches
Fresh water 43 Feet _____ Salt Water 1765 Feet _____
Producing Sand 5th, Gordon, Berea, Weir Depth (3128-38)(2933-54)(2684-90)(2489-2560)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
KB-GL			0	10		
Top Soil	brn	S	10	28		
SD	gy	H	28	40		
SH & RR	gy-red	S	40	300		
SDy & SH	gy	S	300	360		
Sdy SH	gy	S	360	455		
SD	lt. gy	H	455	490		
Sdy SH	med. gy	S	490	505		
SD	lt. gy	H	505	560		
Sdy. SH	gy	S	560	640		
SD	lt. gy	H	640	770		
Sdy SH	gy	S-H	770	915		
SD	lt. gy	H	915	940		
Sdy SH	gy	S	940	1035		
Coal	blk.	S	995	1002		
SD	gy-wh	H	1035	1135		
SH	gy	S	1135	1375		
Sdy SH	gy & maroon	S	1375	1420		
SD	gy	H	1420	1450		
Sdy. SH	Lt.-m. gy	S	1450	1570		
SD	gy	H	1570	1620		
Coal Shows	blk.	S	1620, 1675			
SD	lt. gy	H	1625	1670		
Sdy SH	gy	S	1670	1725		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ³⁵	Bottom Feet	Oil, Gas or Water	Remarks
SD	gy	H	1725	1800		
Sdy SH	gy	S	1800	1830		
SD	gy	H	1830	1890		
SH, Sdy SH	lt.-m. gy	S	1890	1960		
SD	lt. gy	H	1960	2092		
LS	tan	H	2092	2141		Greenbriar*
SS	wh-gy	S & H	2141	2311		Big Injun*
SH	gy	S	2311	2451		
SS, SLST	gy-wh	H	2451	2562		Weir * SSG Cored interval 2452-2552
SH, SLST	gy	S	2562	2685		
SS, SLST	reddish brn	H	2685	2700		Berea* Cored interval 2672-2722
SH	reddish brn to S	S	2700	2924		
		gy				
SS	wh-gy	H	2924	2954		Gordon* SSG Cored interval 2915-2965
SH & SLST	gy	S-H	2954	3128		
SLST	gy	H	3128	3137		5th*
SH, SLST	!	H	3137	3260		
		TD	3260			

2092
1314
-778

Date August 7, 1978

APPROVED Mobay Chemical Corporation Owner

By Michael F. Yarussi
(Title)

Haddad and Brooks, Inc.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY - 8 1977

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 4/28/77

Surface Owner Gloria Nice - Patty Potts
P. O. Box 435 386 Great Road No. 7
Address New Martinsville, WV Action, MA 01720
26155
Mineral Owner J. Nice Heirs
Address same
Coal Owner Consolidation Coal Co.
Address Library, PA
Coal Operator same
Address _____

Company Mobay Chemical Corporation
Penn Lincoln Parkway West
Address Pittsburgh, PA 15205
Farm Nice - Potts Acres 171.16
Location (waters) Haynes Run
Well No. 1 Elevation 1314
District Proctor County Wetzel
Quadrangle New Martinsville

THIS PERMIT MUST BE POSTED AT THE WELL SITE

If 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 9-20-77.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phil Tracy
PH: 758-4573 ADDRESS Middlebourn, W. Va.

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 October 22 1976 by Gloria Nice & Patty Potts made to Mobay Chemical Corporation and recorded on the 29th day of October 1976, in Wetzel County, Book 57 Page 261

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 as the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

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

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505

Address
of
Well Operator

BLANKET BOND

*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.

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 Co. NAME Mobay Chemical Corporation
 ADDRESS Indiana, PA 15701 ADDRESS New Martinsville, WV 26155
 TELEPHONE (412) 463-9191 TELEPHONE (304) 455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 3200 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"	400'	400'	cement to surface
9 - 5/8			
8 - 5/8	2400'	2400'	cement w/75 sacks & 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 1150' SALT WATER 2250 FEET
 APPROXIMATE COAL DEPTHS Pgh. Coal 1100'
 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