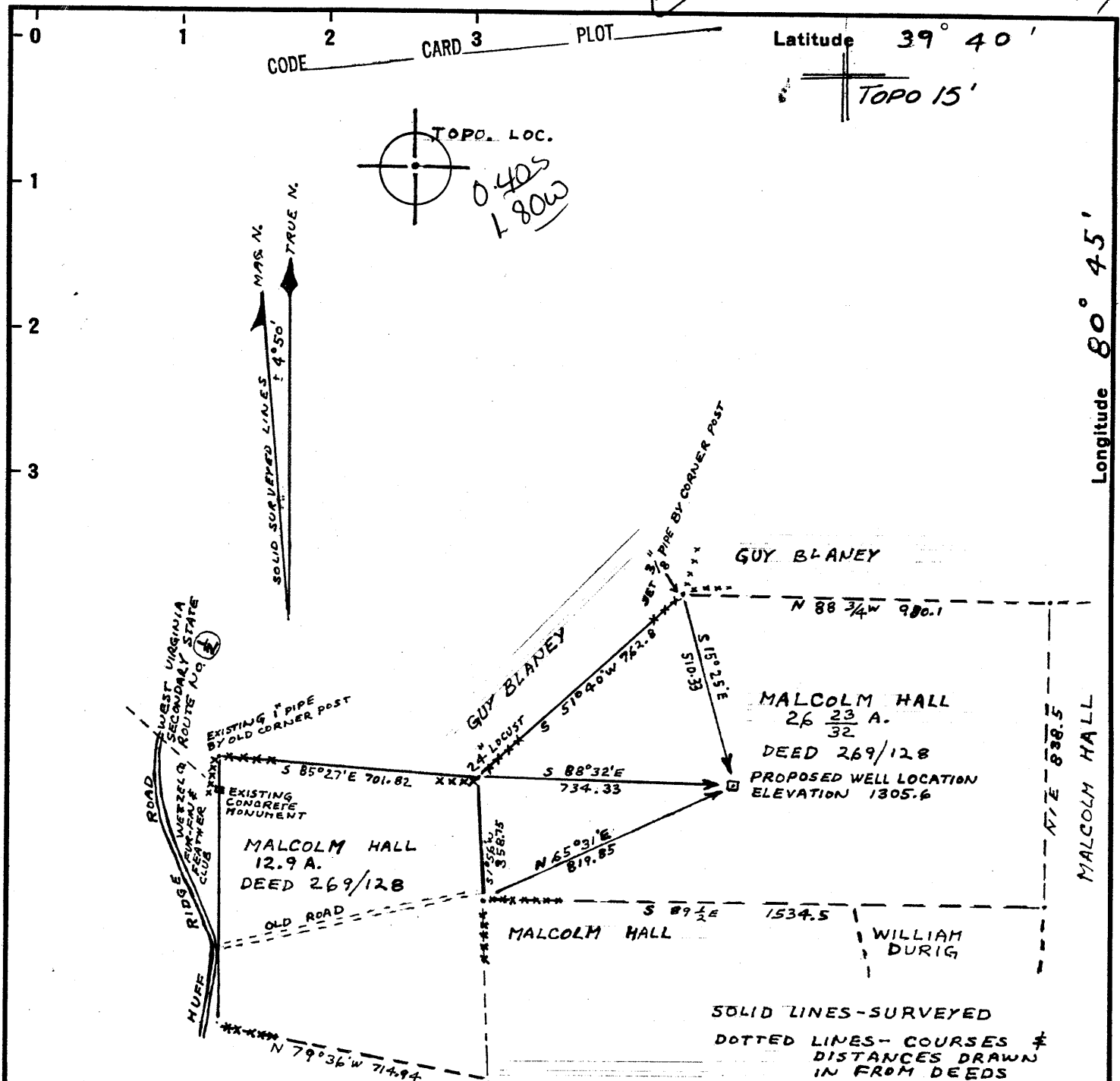


L-13 N-W
6,23,75 *R*



Minimum error of closure is 1 in 3750

Base elevation point is Coast and Geodetic Bench Mark no. F 130 at the head of Doolin Run with an elevation of 1229.994

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

New Location
 Drill Deeper = 10/1/25
 Abandonment

CLAY RESOURCES, INC.
 204 Union Square, Marietta, Ohio 45750
 Surface: Harold Spencer (Hall#1)

Tract 6 Acres 26 ²³/₃₂ Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1305.6 509 *091*
 Quadrangle New Martinsville(1:24000) *806*
 County Wetzel District Proctor 7
 Surveyor- Henry M. Parsons
 Engineer's Registration No. 98
 File No. _____ Drawing No. _____
 Date June 17 1975 Scale 1" = 400

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

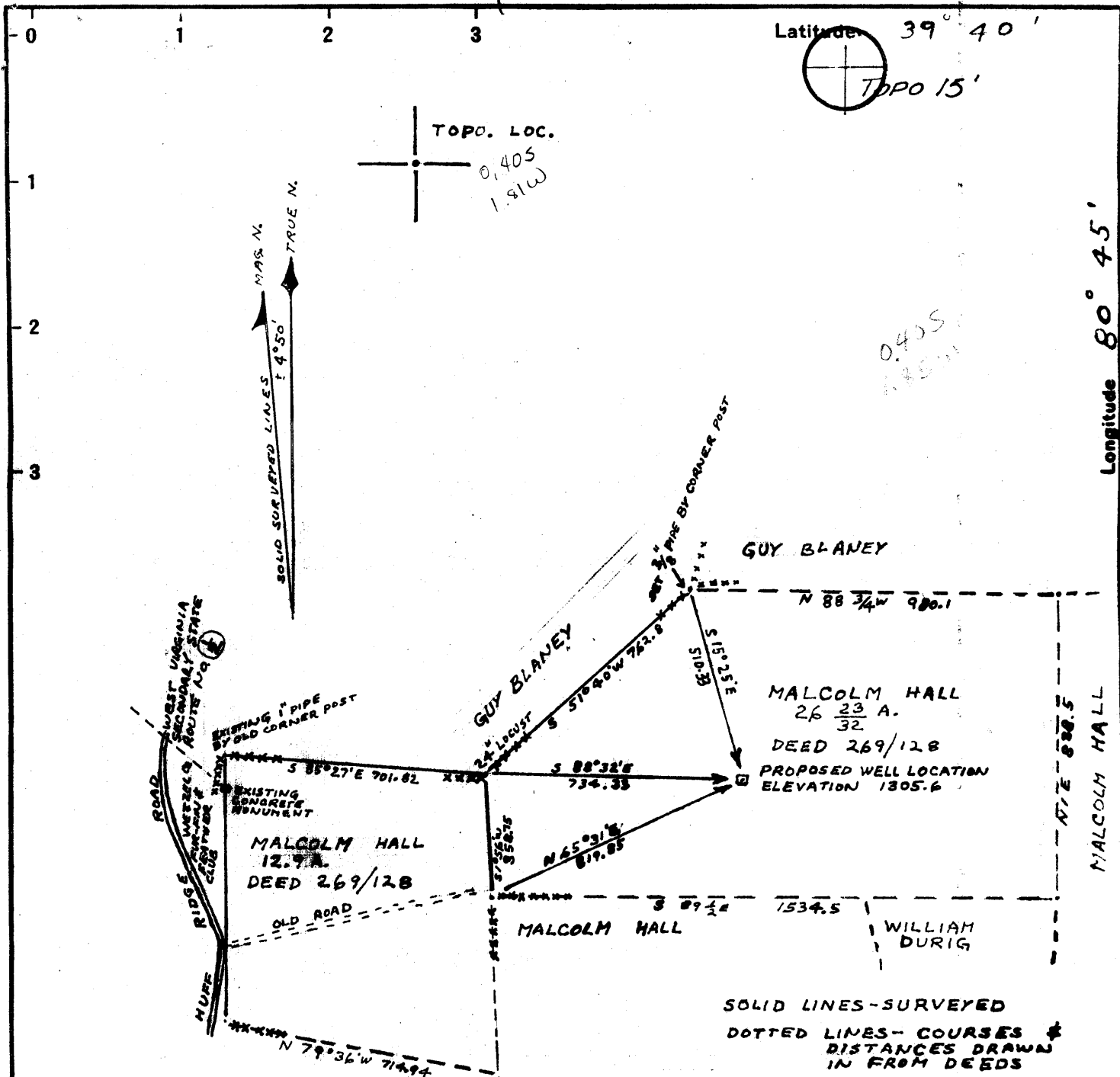
WELL LOCATION MAP
 FILE NO. WET-599-DD

+ 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.

OCT 15 1985
 47-103

3500 (border) 6-0 unnamed (10)



Minimum error of closure is 1 in 3750

Base elevation point is Coast and Geodetic Bench Mark no. F 130 at the head of Doolin Run with an elevation of 1229.994

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

New Location
 Drill Deeper
 Abandonment

Company Mobay Chemical Corporation

Address New Martinsville, West Va.

Farm Malcolm Hall

Tract 6 Acres 26 23/32 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1305.6 EC

Quadrangle New Martinsville (1:24000)

County Putzel District Inctor

Surveyor Henry M. Parsons

Engineer's Registration No. 98

File No. _____ Drawing No. _____

Date June 17 1975 Scale 1" = 400

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

WELL LOCATION MAP
 FILE NO. WET-599

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~25,000~~ latitude and longitude lines being represented by border lines as shown.

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

47-103 JUL 9 1975



Date January 26, 1987
 Operator's
 Well No. Hall #1
 Farm H. Spencer
 API No. 47 - 103 - 599-D

WR-35

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State of West Virginia
 DEPARTMENT OF ENERGY
 Oil and Gas Division

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1305.6 Watershed McCloud Run
 District: Magnolia County Wetzel Quadrangle New Martinsville 1:240

COMPANY Clay Resources, Inc.
 ADDRESS P.O. Box 953, Marietta, Ohio 45750
 DESIGNATED AGENT Andrew C. Brown, Jr.
 ADDRESS Box 32, Reader, W. Va.
 SURFACE OWNER Harold Spencer
 ADDRESS American Ridge Rd, New Martinsville, WV
 MINERAL RIGHTS OWNER George Stickler et al
 ADDRESS American Rdige Rd. N. Martinsville, WV
 OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Rt. 2, Box 135 Salem, WV
 PERMIT ISSUED 10/1/85
 DRILLING COMMENCED 10/9/85
 DRILLING COMPLETED 11/15/85
 IF APPLICABLE: PLUGGING OF DRY HOLE ON
 CONTINUOUS PROGRESSION FROM DRILLING OR
 REWORKING. VERBAL PERMISSION OBTAINED
 ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	3210'	3210'	CTS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 3400 feet
 Depth of completed well 3266 feet Rotary / Cable Tools XX
 Water strata depth: Fresh N/A feet; Salt N/A feet
 Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA

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
 (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 Oil: 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

(Continue on reverse side)

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

Not applicable.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			2260'	2400'	NO GORDON FORMATION FOUND
Sand			2400'	2500'	
Sand & Shale			2500'	2650'	
Shale			2650'	2900'	
Sand & Shale			2900'	3050'	
Shale			3050'	3266'	
TOTAL DEPTH				3266'	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

3266 new TD
2270 - old TD
996 - new Ctg

(Attach separate sheets as necessary)

Clay Resources, Inc.

Well Operator

By: Sandra L. Schafer

Date: January 26, 1988

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."

3646



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

DEPT. OF MINES
OIL
DEPT. OF MINES

WELL RECORD 4

Quadrangle New Martinsville

Permit No. WET - 599

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

Company <u>Mobay 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>Malcolm Hall</u> Acres <u>26.72</u>	20-16			
Location (waters) <u>McCloud Run</u>	Cond.			
Well No. <u>1</u> Elev. <u>1305.6</u>	13-10"	362' 5"	362' 5"	150 sx. - to surface
District <u>Proctor</u> County <u>Wetzel</u>	9 5/8			
The surface of tract is owned in fee by <u>Malcolm and Bonnie Hall</u>	8 5/8	1592'	1592'	gel
Address <u>Rte 1, Proctor, W. Va.</u>	7			
Mineral rights are owned by <u>Malcolm Hall & W.E. Durig</u> Address <u>Proctor, W. Va.</u>	5 1/2	2200'	2200'	packer
Drilling Commenced <u>July 15, 1975</u>	4 1/2			
Drilling Completed <u>March 11, 1976</u>	3			
Initial open flow <u>346 M</u> cu. ft. _____ bbls.	2	2261	2261	
Final production <u>50 M</u> cu. ft. per day <u>9</u> bbls.	Liners Used			
Well open <u>4</u> hrs. before test <u>498</u> RP.				

Well treatment details:

Attach copy of cementing record.

Natural; well plugged back from 2270' to 2266' with rock and lead wool.

Coal was encountered at 1075 - 1080 Feet _____ Inches _____
Fresh water 79 - 96 Feet _____ Salt Water 2268 Feet _____
Producing Sand Big Injun Depth 2261 - 66'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay	gray	S	0	25		
Sand	gray	S	25	30		
Clay	gray	S	30	79		
Sand	white	S	79	96	FW 1/2 blr./hr.	
Slate	gray	S	96	122		
Sand	white	h	122	187		
redrock	red	S	187	192		
Lime	gray	h	192	215		1306
Slate & redrock		S	215	230		
Sand	white	S	230	235		
Slate & redrock		S	235	392		
Lime	gray	h	392	409		
Slate & redrock		S	409	518	Show of coal @ 430', 510'	
Sand	gray	h	518	528		
Slate	gray	h	528	535		
Sand	gray	h	535	562		
Slate	gray	h	562	720	Show of coal @ 630', 700'	
Slate & lime	gray	h	720	805		
Redrock		S	805	810		
Slate	gray	h	810	815		
Sand	gray	h	815	850		
Lime	gray	h	850	1020		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	* Remarks
Sand	gray	h	1020	1047		
Slate & lime	gray	h	1047	1075		
Coal	black	S	1075	1080		Pittsburgh
Lime	gray	h	1080	1090		
Sand	gray	h	1090	1100		
Slate & lime	gray	h	1100	1180		
Slate & redrock		S	1180	1205		
Sand	gray	h	1205	1218		
Slate & lime	gray	h	1218	1250		
Slate	gray	h	1250	1285		
Sand	gray	h	1285	1300		
Slate & lime	gray	h	1300	1340		
Sand	gray	h	1340	1363		
Slate	gray	h	1363	1373		
Slate & redrock		S	1373	1380		
Lime	gray	h	1380	1390		
Redrock		S	1390	1423		caving
Sand	gray	h	1423	1450		
Slate & lime	gray	h	1450	1605		
Sand	gray	h	1605	1622		
Slate	gray	h	1622	1630		
Sand	gray	h	1630	1650		
Slate & lime	gray	h	1650	1696		
Sand	gray	h	1696	1713		
Slate & lime	gray	h	1713	1755		
Sand	gray	h	1755	1786		
Sand & lime	gray	h	1786	1811		
Sand	gray	h	1811	1820		
Slate & lime	gray	h	1820	1925		
Sand	gray	h	1925	1976		
Slate & lime	gray	h	1976	2065		
Sand	gray	h	2065	2086	Max on	
Slate	gray & green	h	2086	2166		
Lime	tan	h	2166	2230		Big Lime
Sand	white	h	2230	2270	Gas & oil & Water	Big Injun
				T.D. 2270		

2166
1306
860

1306
1075
231

extends prod. in wet-471
Catskill sd. not drilled here.

Date March 12, 1976

APPROVED Mobay Chemical Corporation Owner

By S.L. Dyer
(Title)
Haddad and Brooks, Inc.

(Observed)
7/85

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SEP 26 1985



1) Date: September 16, 19 85
 2) Operator's Well No. Hall #1 Drill Down
 3) API Well No. 47 103 599-D
 State County Permit

STATE OF WEST VIRGINIA
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1305.6 Watershed: McCloud Run
 District: Proctor County: Wetzel Quadrange: New Martinsville 1:240
- 6) WELL OPERATOR Clay Resources CODE: 10025 7) DESIGNATED AGENT Andy Brown
 Address 204 Union Square Address Box 32
Marietta, OH 45750 Reader, WV 26167
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery
Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name B & B Drilling
 Address 412 Third Street
Marietta, OH 45750
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Gordon 419
- 12) Estimated depth of completed well, 3500 feet
 13) Approximate strata depths: Fresh, 79 - 96 feet; salt, 2268 feet.
 14) Approximate coal seam depths: 1075 - 1080 Is coal being mined in the area? Yes / No
- 15) 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									
Coal	<u>8 5/8</u>					<u>1592'</u>	<u>1592'</u>	<u>Gel - See attached well record</u>	<u>See attached well record</u>
Intermediate	<u>5 1/2</u>					<u>2200'</u>	<u>2200'</u>	<u>Packer - See attached well record</u>	<u>See attached well record</u>
Production	<u>4 1/2</u>						<u>3100'</u>	<u>Cement to surface</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-0599-D October 1 19 85
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires October 1, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>983</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input type="checkbox"/>	Other: <input type="checkbox"/>
---	-------------------	-----------------	-------------------	-----------------	---	-------------------------------	---------------------------------

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN 23 1975

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 June 20, 1975

Surface Owner Malcolm & Bonnie Hall
Address Rte #1, Proctor, W. Va.

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

Mineral Owner Malcolm Hall (1/2) W.E. Durig (1/2)
Address Hall, As ab; Durig: 6th & Duerr Sts. New Martinsville, W. Va.

Farm Malcolm Hall Acres 26.72
Location (waters) McCloud Run

Coal Owner Atlantic Richfield Co.
Address 1500 Security Life Bldg., Denver, Colo.

Well No. 1 Elevation 1305.6
District Proctor County Wetzel

Coal Operator None
Address _____

Quadrangle New Martinsville (1:24,000)

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 10-27-75.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Richard Morris
PH: 354-7259 ADDRESS Grantville, 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 June 9, 19 75 by Malcolm Hall et ux & W.E. Durig et ux made to Mobay Chemical Corp. and recorded on the 21st day of June 1975, in Wetzel County, Book _____ Page _____

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, W. Va. 26505
AC 304-296-4461

Very truly yours, Mobay Chemical Corporation

(Sign Name) by: [Signature]

Address
of
Well Operator

Well Operator
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.

BOND DRILL

Wet-599 PERMIT NUMBER
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 Union Drilling Company NAME Mobay Chemical Corporation
 ADDRESS Buckhannon, West Virginia ADDRESS New Martinsville, W. Va.
 TELEPHONE 304-472-4610 TELEPHONE 304-455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 3200' ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS X 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	350'	350'	cement to surface
9 - 5/8			
8 - 5/8	1600'	1600'	gel to surface
7			
5 1/2			
4 1/2	3200'	3200'	100 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 125 FEET _____ SALT WATER 1475 FEET _____
 APPROXIMATE COAL DEPTHS 1000 - 1002' _____, 1097 - 1101' (Pittsburgh)
 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