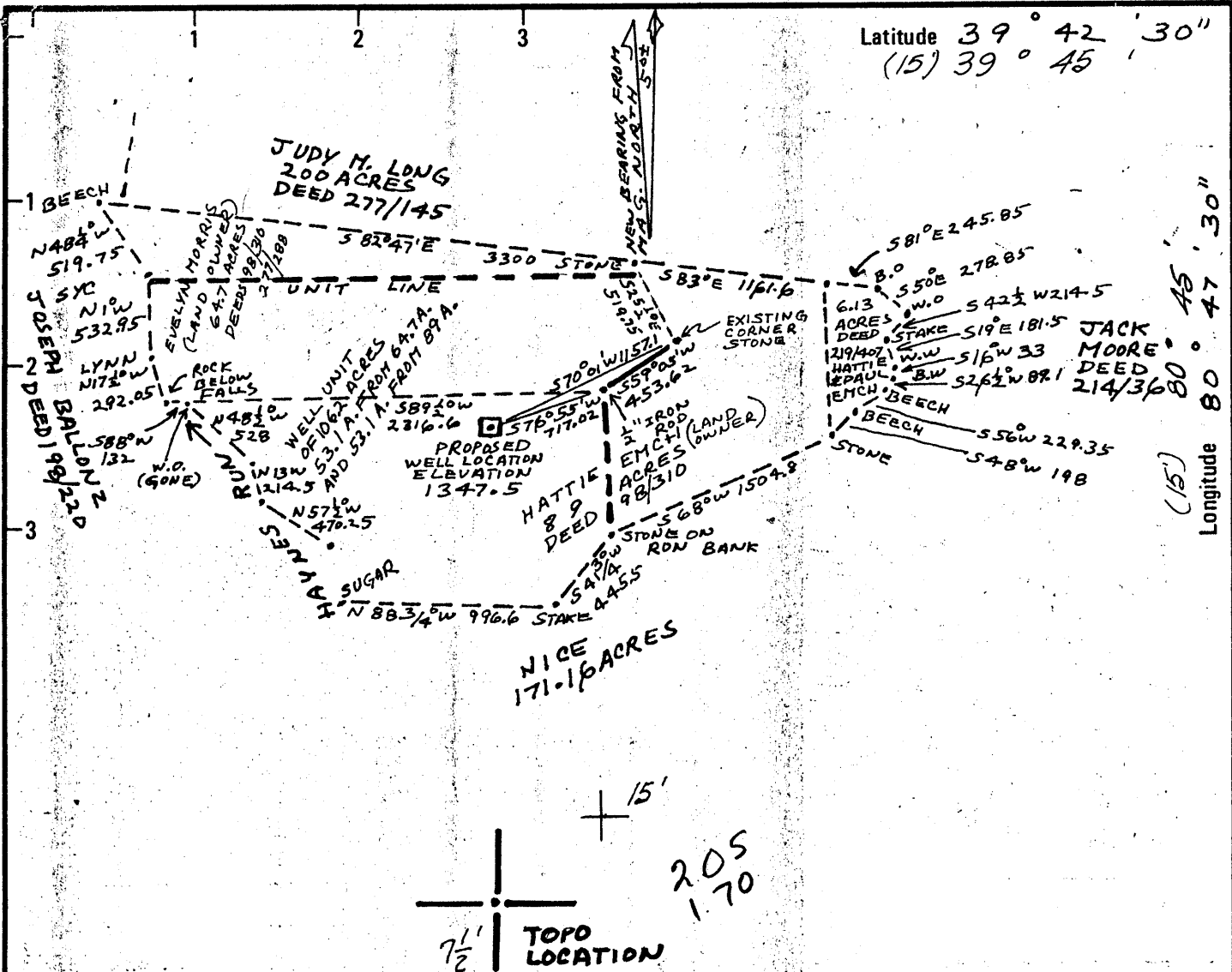


9,000

Latitude 39° 42' 30"
(15) 39° 45'



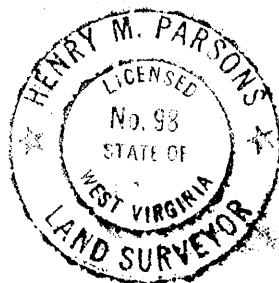
Longitude 80° 47' 30"
(15) 80° 45'

10,950

There are no other deep wells within one mile of this location. However, there is a deep well location (Mobay Chemical's John Nice No. 4 Wetzel 630) 3700 feet away.

S. L. Brooks

S. L. Brooks
HADDAD AND BROOKS, INC.
agents for Mobay Chemical Corp.



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 (MC CRAY 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 Clay Resources
 Address Marietta, OH 45750
 Farm EMCH AND DYLES
 Tract Acres 106.2 A UNIT Lease No. _____
 Well (Farm) No. EMCH-DYLES #1 Serial No. _____
 Elevation (Spirit Level) 1347.5
 Quadrangle NEW MARTINSVILLE (1:2400)
 County WETZEL District PROCTOR
 SURVEYOR HENRY M. PARSONS
 SURVEYOR HENRY M. PARSONS
 Engineer's Registration No. 98
 File No. _____ Drawing No. _____
 Date OCT. 8, 1977 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. WET-645-FRAC
FORMERLY WET-617 REV
FRAC CANCELLED

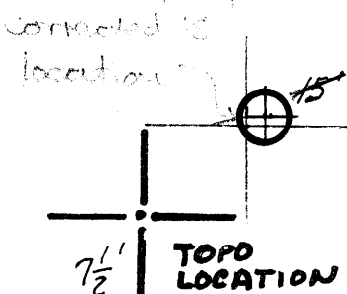
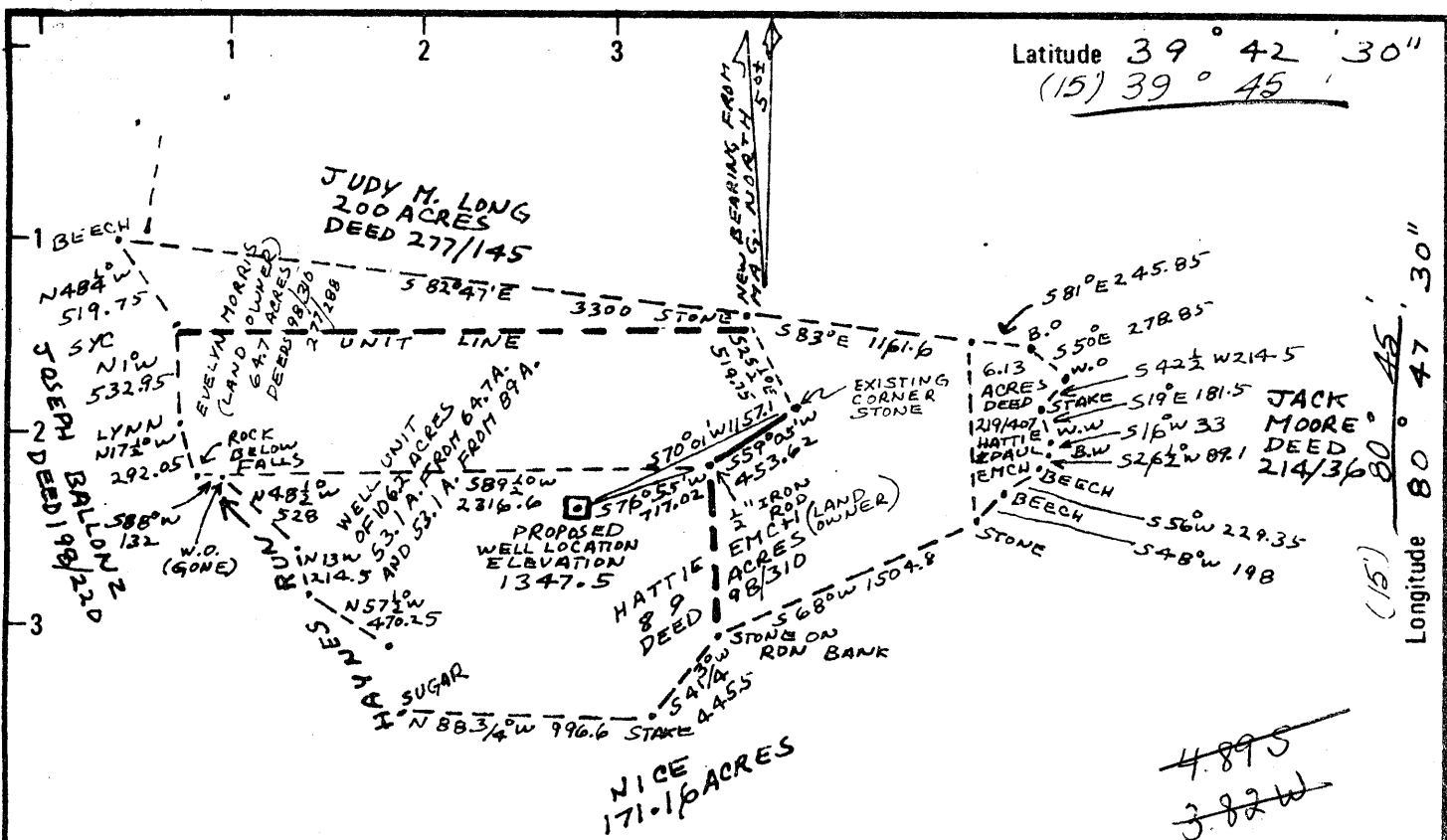
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

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

47-105 FEB 22 1988

7100' Displacement DEEP WELL

Latitude 39° 42' 30"
(15) 39° 45'



connected to location

Minimum Error of Closure **METHODS USED SHOULD PRODUCE 1 IN 2500**
Source of Elevation **U.S.G.S. TRIANGULATION STATION (MC CRAY 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



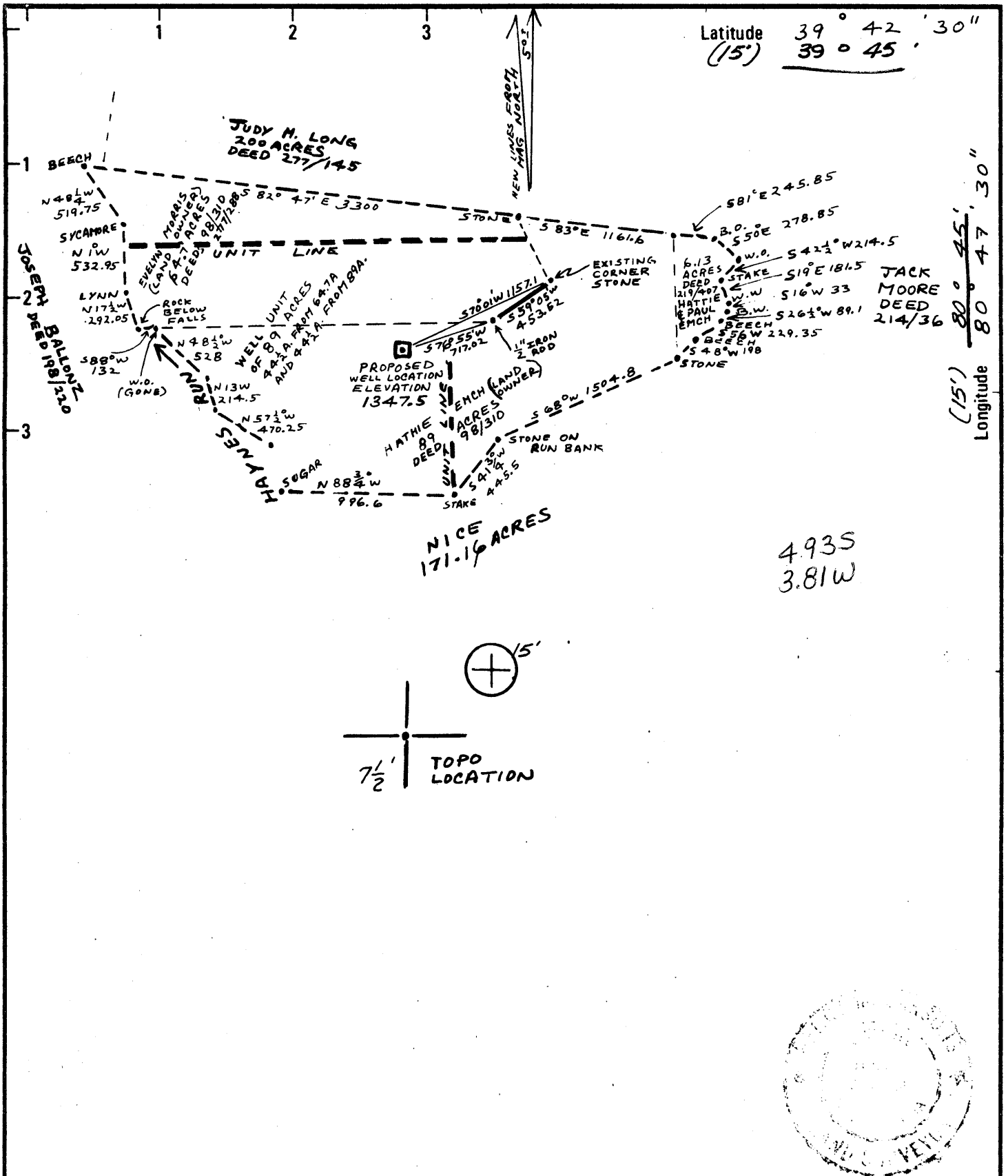
New Location
Drill Deeper
Abandonment

Minimum Error of Closure **METHODS USED SHOULD PRODUCE 1 IN 2500**
Source of Elevation **U.S.G.S. TRIANGULATION STATION (MC CRAY 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

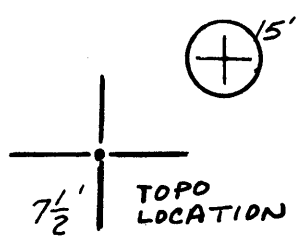
Company **MOBAY CHEMICAL CORPORATION**
Address **NEW MARTINSVILLE, W.VA. 26155**
Farm **EMCH AND MORRIS**
Tract _____ Acres **106.2 A** Unit _____ Lease No. _____
Well (Farm) No. **EMCH-PYLES #1** Serial No. _____
Elevation (Spirit Level) **1347.5** **NE**
Quadrangle **NEW MARTINSVILLE (1:2400) 15'**
County **WETZEL** District **PROCTOR**
SURVEYOR **HENRY M. PARSONS**
SURVEYOR
Engineer's Registration No. **98**
File No. _____ Drawing No. _____
Date **OCT. 8, 1977** Scale **1" = 1000'**

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. **WET-645 W**
FORMERLY WET-617 REV
+ 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 7 1978

(Owned) 7100 ... 3-3 CAMERON-GARNER 23. Deepwell



4.935
3.81W



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*

New Location
 Drill Deeper
 Abandonment

Company MOBAY CHEMICAL CORPORATION
 Address NEW MARTINSVILLE, W.VA. 26155
 Farm EMCH AND PYLES
 Tract _____ Acres 89A.UNIT Lease No. _____
 Well (Farm) No. EMCH-PYLES # 1 Serial No. _____
 Elevation (Spirit Level) 1347.5 15' NE
 Quadrangle NEW MARTINSVILLE (1:2400)
 County WETZEL District PROCTOR
 SURVEYOR HENRY M. PARSONS
 Engineer's Registration No. 98
 File No. _____ Drawing No. _____
 Date APRIL 16, 1977 Scale 1" = 1000'

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

WELL LOCATION MAP
 WQS
 FILE NO. WET-617
 now Wetzel 645 (deep)

+ 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 14 1977



110-2

Emch-Pyles #1

1930

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division DEPT. OF MINES WELL RECORD

Quadrangle New Martinsville

Permit No. Wet-645

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

Company Mohay Chemical Corporation
Address Penn Lincoln Pkwy. West, Pittsburgh, PA
Farm H. L. Emch & Amanda Pyles Acres 106.2
Location (waters) Haynes Run Hrs. _____
Well No. 1 Elev. 1347.5
District Proctor County Wetzel
The surface of tract is owned in fee by Amanda Pyles
Hrs. c/o Ernest Pyles

Address 55 E. Benjamin Dr., New Martinsville, WV
Mineral rights are owned by H. Emch & A. Pyles
Address New Martinsville, WV 26155

Drilling Commenced 8/16/78
Drilling Completed 10/21/78
Initial open flow -- cu. ft. -- bbls.
Final production 500M cu. ft. per day -- bbls.
Well open 3 hrs. before test 2000# RP.

Well treatment details:

Oriskany: perf. 6863-83; 27 shots
Trac w/500 bbls. gel, 45,000# sand, M-38. Began feeding @ 1700 psi (no BDP)
Refrac thru notch (6870-73) w/840 BW + 3% HCl, 43,000# sand, M-38, 150M SCF N₂

Attach copy of cementing record.

Coal was encountered at 1020-27 Feet _____ Inches
Fresh water -- Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Depth 6860-70

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
SD, SH, SLST	gy	S-H	0	1020		
Coal	blk	S	1020	1027		
SD, SH, SLST	gy, brn	S-H	1027	2107		Pgh. Coal
LS (fossil.)	brn	H	2107	2176		Pennsylvanian-ii!
SS	wh-gy	S-H	2176	2334		Greenbriar
SH, SLST	gy	S	2334	2471		Big Injun
SS, SLST	gy	H	2471	2591		
SH, SLST	gy, brn	S-H	2591	2704		Weir
SS, SLST	brn-red	S-H	2704	2718		
SLST, SH	brn-rd, gy	S-H	2718	2954		Berea
SS, SLST	gy	H	2954	2972	SSG	
SLST, SH	gy	S-H	2972	3144		Gordon 7007
SLST	gy	H	3144	3156		2972
SH, SLST	gy	S-H	3156	3639		Fifth
SLST	gy	H	3639	3676		
SH, SLST	gy	S-H	3676	4983		Warren
SS	wh-gy	S	4983	5004		
SLST, SH	brn, gy	S-H	5004	6514		Alexander
Argil LS	gy- gy-blk	H	6514	6570		Devonian Shales
SH	blk	S	6570	6625		Tully equivalent
LS, Chert	brn, wh, gy	H	6625	6859		Marcellus
SS (limy)	wh-g	H	6859	6906		Onondage
LS, Cht	wh, brn, gy	H	6906	7007		Oriskany
			7007	T.D.		Helderberg

(over)

* Indicates Electric Log tops in the remarks section.

FORM IV-35 (Obverse)

[08-78]

WELL OPERATOR'S REPORT 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 X / Shallow ___ /)
 LOCATION: Elevation: 1347.5 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

PERMITTED WORK: Drill ___ / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate X
 Plug off old formation ___ / Perforate new formation X /
 Other physical change in well (specify) Recompletion of the well in the Onondaga chert.

PERMIT ISSUED ON June 2, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED September 24, 19 79
 Name Phillip Tracy
 Address Middlebourne, WV.

GEOLOGICAL TARGET FORMATION: Oriskany Depth 6860-70 feet
 Depth of completed well, 7007 feet Rotary X / Cable Tools ___
 Water strata depth: Fresh, NA feet; salt, NA feet.
 Coal seam depths: 1020-27 Is coal being mined in the area? No
 Work was commenced September 24, 19 79, and completed September 26, 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	Left in well		
Conductor	11 3/4		42	X		333	333	150 sks neat 2% Cacl 75 sks neat 4% Cacl	Sizes D79
Fresh water									
Coal									
Intermediate	8 5/8		24	X		2383	2383	100 sks neat 2% 100 sks RFC	Depths set
Production	5 1/2			X		6990	6990	150 sks RFC	Perforations: Top - Bottom
Tubing									
liners									

PEN FLOW DATA
 OIL & GAS DIVISION
 DEPT. OF MINES
 Producing formation Onondaga Chert Pay zone depth 6686'/6800' feet
 Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
 Final open flow, 30 Mcf/d Final open flow, ___ Bbl/d
 Time of open flow between initial and final tests, N/A hours
 Static rock pressure, N/A psig (surface measurement) after N/A 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 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

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

Perforations Onondaga chert: 6687, 89, 91, 93, 95, 97, 99, 6701, 03, 05, 07, 13, 15, 38, 40, 42, 44, 53, 55, 57, 59, 81, 83, 85, 87, 89. 26 holes. Frac 2000 gal. Mod. 202 acid. Total Sand: 40,000# 80/100 mesh sand. 70,000# 20/40 mesh sand. 5000 gal Hcl acid.

LOG

FORMATION	Color	Hard or Soft	18 Top Feet	Bottom Feet	<u>Remarks</u> Including indication of all fresh and salt water, coal, oil and gas
See original completion report.					

(Attach separate sheets to complete as necessary)

Mobay Chemical Corporation
Well Operator

By Michael S. Carlson

Its _____

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
JUN - 2 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Amand Pyles Hrs. DATE May 30, 1978

Surface Owner Hattie L. Emch & c/o Ernest Pyles Company Mobay Chemical Corporation
532 Briarcliff Court 55 E. Benjamin Dr. Penn Lincoln Parkway West
Address New Martinsville, WV 26155 Address Pittsburgh, PA 15205

Mineral Owner Same Farm Emch-Pyles Acres 106.2

Address Consolidation Coal Company Location (waters) Haynes Run

Coal Owner Library, PA Well No. 1 Elevation 1347.5

Address same District Proctor County Wetzel

Coal Operator _____ Quadrange New Martinsville

Address _____

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 10-5-78.

INSPECTOR
TO BE NOTIFIED Phillip L. Tracy

ADDRESS Box 173, Middlebourne, W.Va.

PHONE 758-4573

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 5/10/77 & 5/18 1976 by Hattie L. Emch & Ernest Pyles, et al made to Mobay Chemical Corporation and recorded on the 5/11/77 & 6/19/76 day of _____ 19____, in _____ County, Book 57A & 56 Page 480 & 695

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.

Very truly yours, Mobay Chemical Corporation
 (Sign Name)
 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, WEST VIRGINIA 26505
 AC-304 - 292-6331

Address
 of
 Well Operator

POST 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.

(Formerly: WET-617)
WET-645 PERMIT NUMBER
47-103

"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 _____

**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 Company NAME Mobay Chemical Corporation
 ADDRESS 115 South 6th Street, Indiana, PA 15701 ADDRESS New Martinsville, WV 26155
 TELEPHONE (412) 465-5657 TELEPHONE (304) 455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 7100' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: _____
 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 11 3/4"	450'	450'	cemented to surface
9 - 5/8			
8 - 5/8	2420'	2420'	cement w/75 sks and gel to surface
7			
5 1/2			
4 1/2 production			cement as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

1150'

APPROXIMATE FRESH WATER DEPTHS 100' FEET 1850' SALT WATER 2253 FEET
 APPROXIMATE COAL DEPTHS 1090' Pgh. 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



MAY 18 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 5/12/77

Surface Owner Hattie L. Emch & c/o Ernest Pyles
Address 532 Briarcliff Court 55E Benjamin
New Martinsville, WV 26155

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

Mineral Owner Hattie L. Emch & Amanda Pyles Hrs.
Address same

Farm Emch - Pyles Acres 89
Location (waters) Haynes Run

Coal Owner Consolidation Coal Co.
Address Library, PA

Well No. 1 Elevation 1347.5
District Proctor County Wetzel

Coal Operator same
Address _____

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 9-26-77.

Robert H. [Signature]

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phillip 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 5/10/77 & 5/18 1976 by Hattie L. Emch & Ernest Pyles, etal made to Mobay Chemical Corp. and recorded on the 5/11/77 & 6/19/76 day of 19, in _____ County, Book 57A & 56 Page 480 & 695

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, W. Va. 26505

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

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.

"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."

WET-617 PERMIT NUMBER
47-103



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

DEC 21 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.

Amand Pyles Hrs.

DATE October 17, 1977

Surface Owner Hattie L. Emch & c/o Ernest Pyles
532 Briarcliff Court 55E. Benjamin
Address New Martinsville, WV 26155

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

Mineral Owner Hattie L. Emch & Amanda Pyles Hrs.
Address same

Farm Emch-Pyles Acres 106.2

Coal Owner Consolidation Coal Co.
Address Library, PA

Location (waters) Haynes Run

Coal Operator same

Well No. 1 Elevation 1347.5

Address _____

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 Revised Drilling. This permit shall expire if
operations have not commenced by 4-29-78.

INSPECTOR TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourn, W. Va.

Robert H. [Signature]
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 5/10/77 & 5/18 19 76 by Hattie L. Emch & Ernest Pyles, etal made to Mobay Chemical Corporation and recorded on the 5/11/77 & 6/19/76 day of 19, in _____ County, Book 57A & 56 Page 480 & 695

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

State 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

was: WET-617-REV. 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

now: WET-645

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 St ADDRESS New Martinsville, WV 26155
Indiana, PA 15701
 TELEPHONE 412-261-1535 TELEPHONE 304-455-4400
 ESTIMATED DEPTH OF COMPLETED WELL: 7100' ROTARY CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 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 11 3/4"	450'	450	cemented to surface
9 - 5/8			
8 - 5/8	2420	2420	cement w/75 sks and gel to surface
7			
5 1/2			
4 1/2 production			cement as needed
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' FEET 1150' SALT WATER 2253 FEET
 APPROXIMATE COAL DEPTHS 1090' Pgh. Coal 1850'
 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 CONSOLIDATION 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 CONSOLIDATION 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.

[Signature]
 For Coal Company
VICE PRESIDENT
 Official Title

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Emch, H.L. & Pyles, Amanda Operator Well No.: Emch/Pyles # 1

LOCATION: Elevation: 1,345' Quadrangle: New Martinsville
District: Proctor County: Wetzel
Latitude: 0 Feet South of 39 Deg. 40 Min. 40.76 Sec.
Longitude: 0 Feet West of 80 Deg. 49 Min. 24.12 Sec.

Well Type: OIL _____ GAS

Company Stone Energy Corporation Coal Operator No Coal Operator
6000 Hampton Center, Suite B or Owner _____
Morgantown, WV 26505 _____

Agent Timothy P. McGregor Coal Operator None Declared
or Owner _____
Permit Issued Date April 24, 2012 _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Monongalia ss:

Jerry Holcomb and Steve Simmons being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 16th day of April, 2012 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Brine Water	6,990 TD	6,600'	5.5" - 5,806'	11.75" Surface to 333'
Cement	6,600'	6,000'		8.625" Surface to 2,383'
Cement	5,806'	4,783'		5.5" from 5,806' to 6,990'
Cement	3,124'	1,907'		
Cement	1,127'	920'		
Cement	433'	Surface		
6% Gel	Between All Of The	Cement Plugs		

Description of monument: 5.5" Steel Pipe with API number welded to monument and that the work of plugging and filling said well was completed on the 4th day of May, 2012.

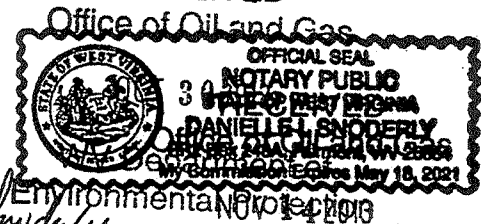
And further deponents saith not.

[Signatures of Jerry Holcomb and Steve Simmons]

Sworn and subscribe before me this 23rd day of May, 2012

My commission expires: May 18, 2021

[Signature of Danielle L. Snoderly]
Notary Public



Affidavit reviewed by the Office of Oil and Gas: _____

Title: Environmental Protection

WV Department of Environmental Protection