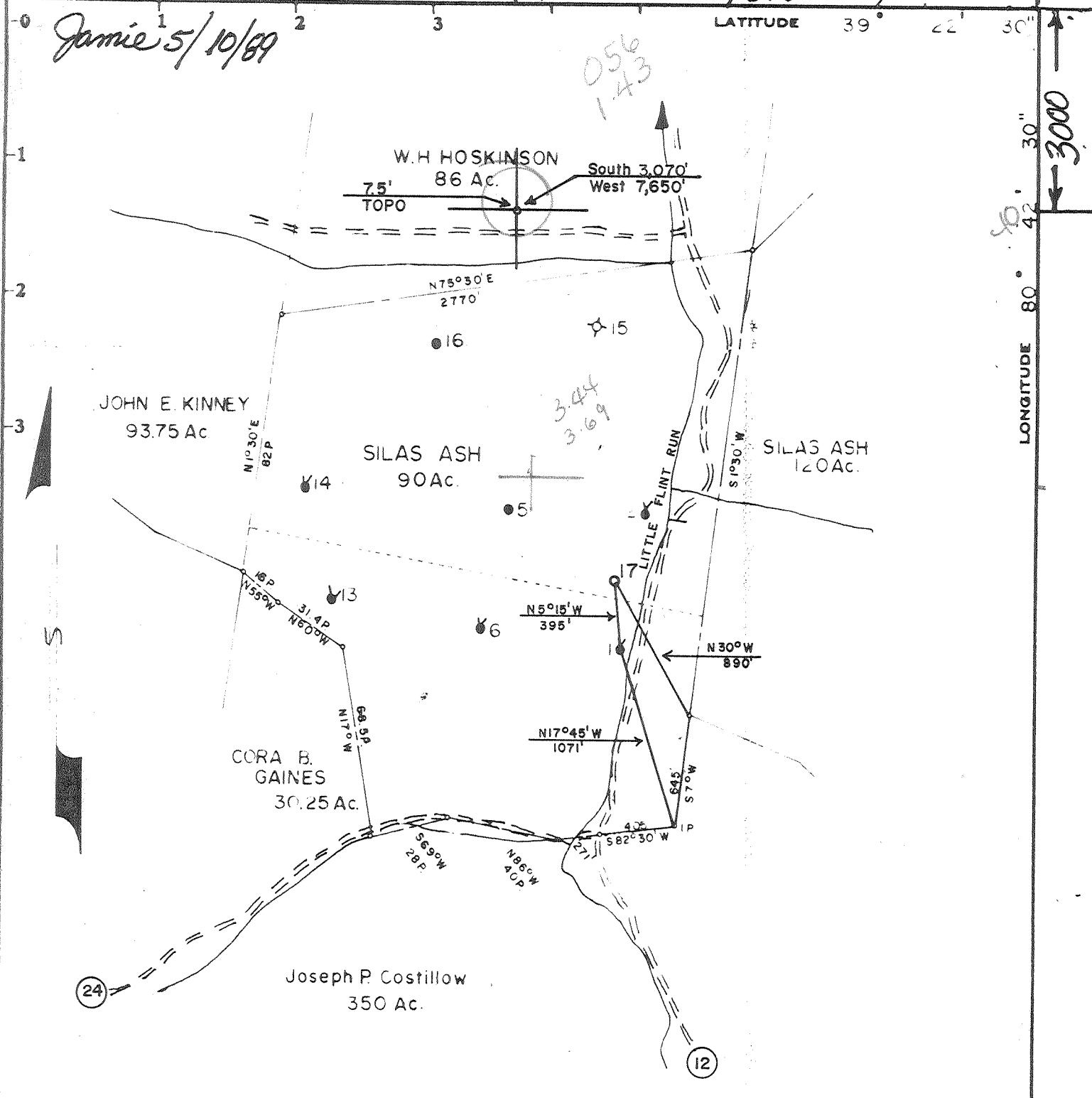


7610

Jamie 5/10/89

LATITUDE 39° 22' 30"

LONGITUDE 80° 30' 42"



Surface: Jennings & Delores Thompson
Rt 2, West Union, W.Va.

Minimum Error of Closure 1 in 200

Source of Elevation SILAS ASH NO. 2 EL. 791.74'

- Fracture
- New Location
- Drill Deeper
- Abandonment

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.

Signed: *Curtis A. Lucas*

Map No. N37 Squares: N S6 E W7

Company	PENNZOIL COMPANY 673		
Address	P. O. Box 1588, Parkersburg, W. Va. 26101		
Farm	SILAS ASH		
Tract	Acres 90	Lease No.	9005-50
Well (Farm) No.	17	Serial No.	
Elevation (Spirit Level)	798.14'		
Quadrangle	SMITHBURG	7.5'	611 0224
County	DODDRIDGE	District	GRANT 3
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	1684	Drawing No.	
Date	10-15-79	Scale	1" = 800'

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

WELL LOCATION MAP

FILE NO. 47-017-2512-Frac

Rework - Deeper

+ 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.

JUN 2 1989

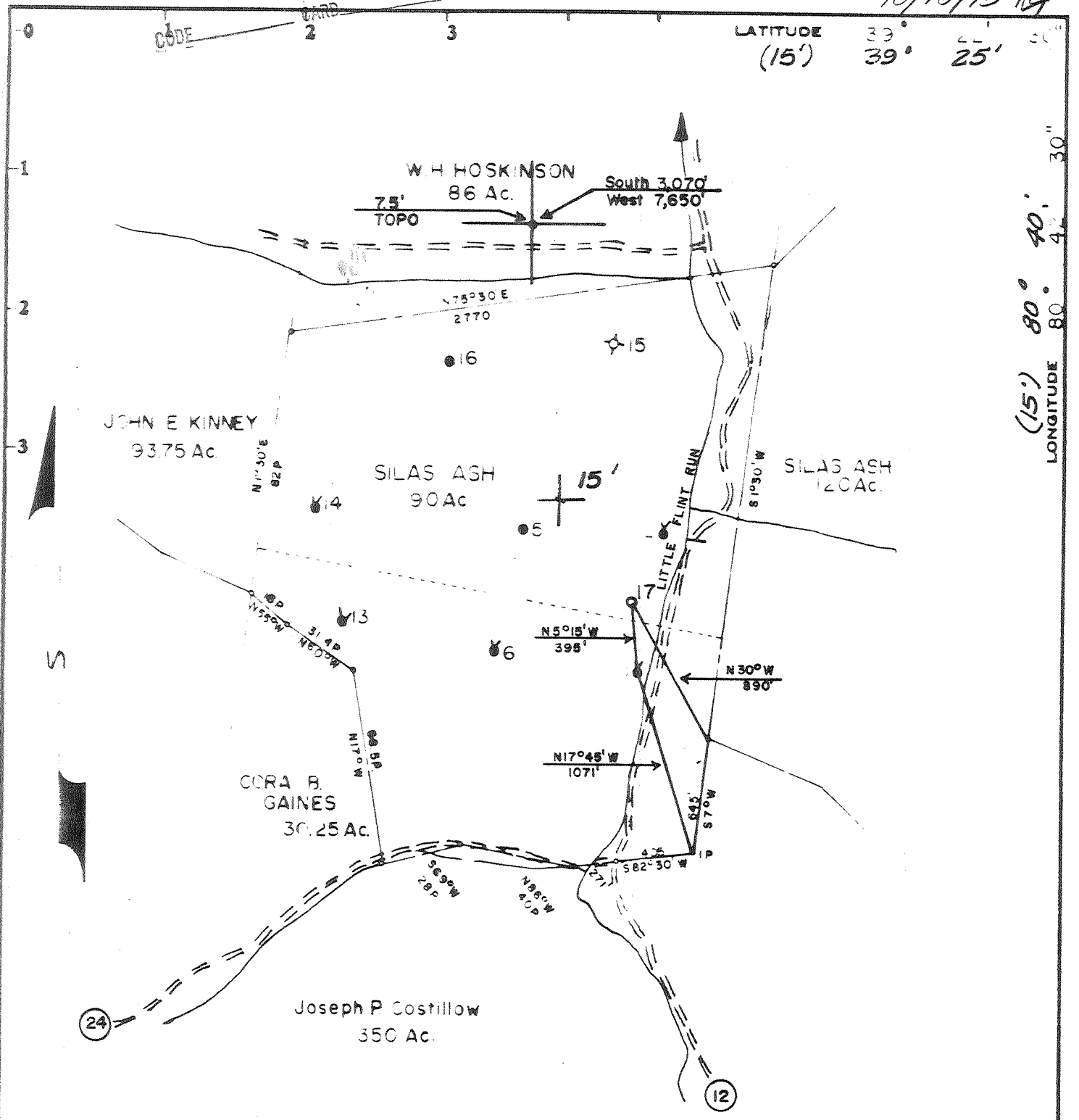
DODD 2512-FRAC-DD

5300' Benson

OWDD

6-6 Smithburg Flint Sedation (1997)

10/16/79



Surface:
Jennings & Debra Thompson
Rt 2, West Union, W. Va.

Minimum Error of Closure 1 in 200
Source of Elevation SILAS ASH NO. 2 EL. 791.74'

Fracture
New Location
Drill Deeper
Abandonment

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.

Signed: Curtis A. Lucas
Map No. N37 Squares: N S6 E W7

Company	PENNZOIL COMPANY		
Address	P.O. Box 1588, Parkersburg, W. Va. 26101		
Farm	SILAS ASH		
Tract	Acres	Lease No.	90 9C05-50
Well Farm No.	17	Serial No.	
Elevation Spirit Level	798.14'		
Quadrangle	CENTERPOINT 15' WC SMITHBURG 7.5'		
County	ODDRIDGE	District	GRANT
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	1684	Drawing No.	
Date	10-15-79	Scale	1" = 800'

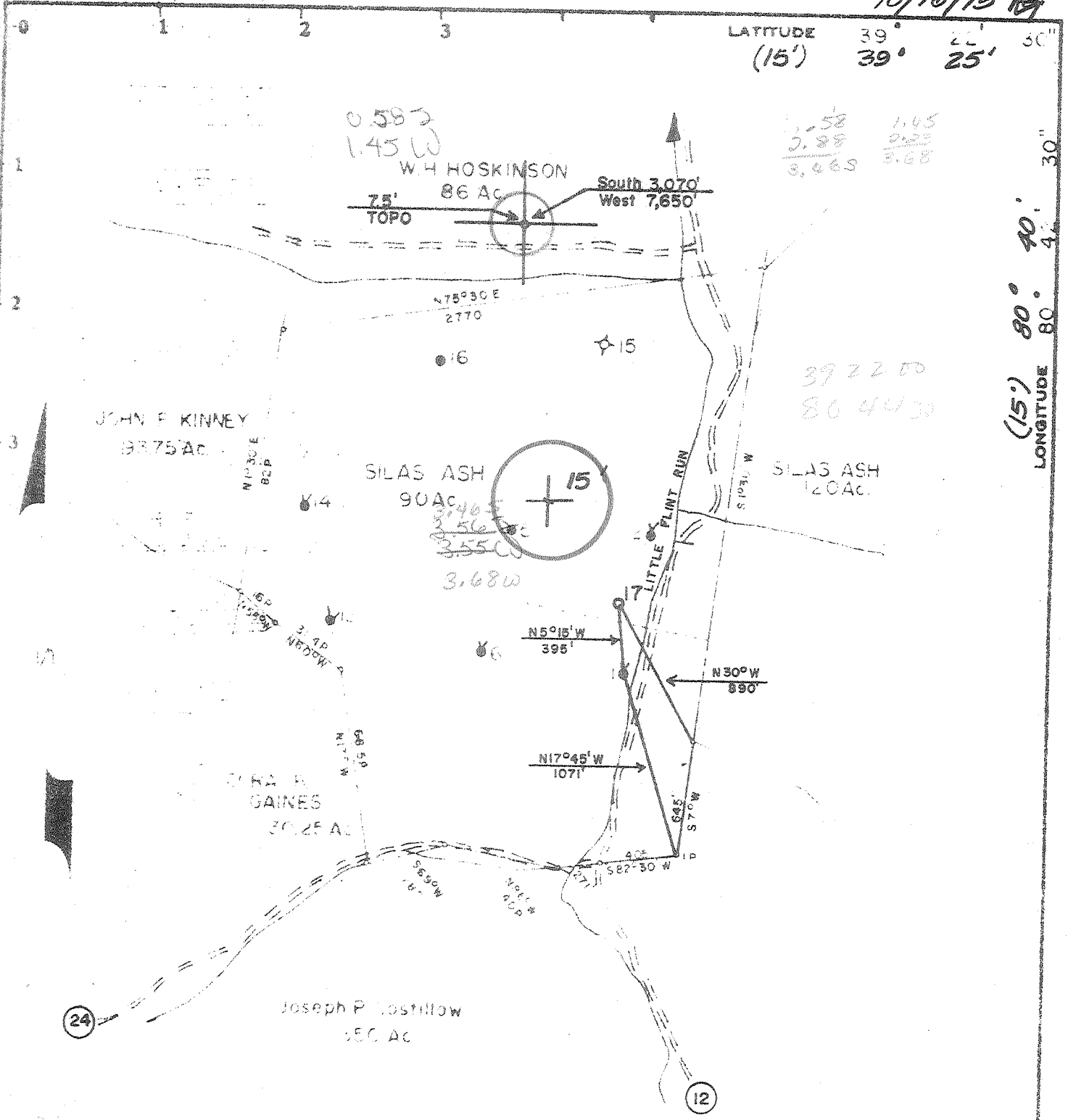
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
Exploratory Well
WELL LOCATION MAP
FILE NO. **47-017-2512-Frac**

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~47,500~~ ^{24,000} latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing.

2063 Big Injun

DEC 03 1984

10/16/79



LATITUDE 39° 25' 30"
(15') 39° 25'
LONGITUDE 80° 40' 30"
80° 40'
80° 40'

0.583
1.45 W

1.58 1.45
3.88 0.23
3.468 3.68

South 3,070'
West 7,650'

JOHN F. KINNEY
98.75 Ac

SILAS ASH
90 Ac

SILAS ASH
120 Ac

JOHN R. GAINES
30.25 Ac

Joseph P. Costillow
150 Ac

Minimum Error of Closure 1:10 200

Source of Elevation SILAS ASH, NC 2 7/31/74

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.

Signed: *Curtis A. Lucas*

Map No. 1437

Squares: N S E W

MINERAL COMPANY
1500 - 15th - Morgantown, W. Va. 26501
SILAS ASH
... 32 ... 90.25 Ac ...
... 17 ...
798.14'
CENTERPOINT 15' WC
GRANT
1684
10-15-79

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

WELL LOCATION MAP

FILE NO. 47-017-2512

- Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines being represented by border lines as shown. NOV 6 1979

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

1 - 0 2063 Big Iron SMITHTON - FLINT - SEDANA 99

RECEIVED
SEP 15 1989

30-May-89
API # 47- 17-02512 D

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS well Operator's Report of Well Work
DEPARTMENT OF ENERGY

Farm name: THOMPSON, JENNINGS/DELORS Operator Well No.: SILAS ASH 17

LOCATION: Elevation: 798.14 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 3000 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 7610 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 05/30/89
Well work Commenced: 8-8-89
Well work Completed: 9-1-89
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5108'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Is coal being mined in area (Y/N)?
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	546'	546'	*
4-1/2"	2050'	2050'	*
2-7/8"	5074.69	5074.69	90 sks.

* Existing casing (see original well record.)

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4892-4899
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 72 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1350 psig (surface pressure) after 16 Hours

Second producing formation _____ Pay zone depth (ft) _____
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush Timothy P. Roush
Date: September 6, 1989

SEP 25 1989

Perforate

4892-4900' - 16 holes

Frac: w/250 gal. 15% HCl, 551 Bbls. gelled water, 20,000# 20/40 sand
and 10,000# 80/100 sand.

Well Record

Original T.D. - 2060' (see original well record).

Shale	2060-2152
Weir	2152-2212
Shale	2212-2548
Gordon	2548-2602
Shale	2602-3419
Speechly	3419-3534
Shale	3534-4434
Bradford	4434-4500
Shale	4500-4892
Benson	4892-4899
Shale	4899-5108
T.D.	5108

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SEP 15 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

SLOS new TD
2060-5108 TD
3048 - new log.

8878

0172512

[06-79]

WELL OPERATOR'S REPORT 14

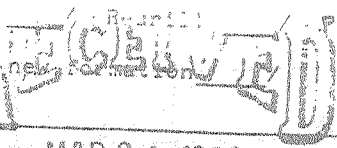
Silas Ash 17

47-017-2512

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
 (If "Gas", Production Underground storage Deep Shallow
 LOCATION: Elevation: 798.14' Watershed: Little Flint Run
 District: Grant County: Doddridge Township: Smithburg 7.5'

WELL OPERATOR Pennzoil Company DESIGNATED AGENT Mr. James A. Crews
 Address P. O. Box 1588 Address P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

PERMITTED WORK: Drill Convert Drill deeper Fracture or stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) _____



MAR 26 1980

PERMIT ISSUED ON October 16, 19 79

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____)

OIL & GAS INSPECTOR FOR THIS WORK:
Paul Corrett
 OIL & GAS DIVISION
 DEPT. OF MINES
 Address Clarksburg, WV

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2063 feet
 Depth of completed well, 2060 feet Rotary / Cable Tools
 Water strata depth: Fresh, _____ feet; salt, _____ feet.
 Coal seam depths: _____ Is coal being mined in the area? _____
 Work was commenced November 16, 19 79, and completed November 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		
Conductor								
Fresh water								Minds
Coal	8-5/8					555	555	235 sks Sizes
Intermediate								
Production	4-1/2					2058	2058	125 sks Depth set
Tubing								
Liners								Perforations: Top Bottom

WVGES received this core 7/12/94 - 1936-1961

OPEN FLOW DATA
 Producing formation Exploratory Core Well 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 Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, _____ psig (surface measurement) after _____ hours

APR 28 1980

[08-78]

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

WELL LOG

FORMATION	Color	Hard or Soft	14 Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Silt & Sand			0	205	
Sand			205	369	
Silt & Sand			369	480	
Sand & Shale			480	495	
Pittsburgh Coal			495	502	
Shale & Sand			502	530	
Shale			530	564	
Sand			564	592	
Silt & Shale			592	1060	
Sand			1060	1112	
Shale			1112	1234	
Sand & Shale			1234	1568	
Shale & Silt			1568	1747	
Little Lime			- 1747	1763	
Pencil Cave			1763	1781	
Big Lime			- 1781	1849	
Loyalhanna			1849	1924	
Pocoyo Big Injun			1924	1981	
Shale			1981	2060	
Total Depth				2060	
Plug Back Depth				2034	

(Attach separate sheets to complete as necessary.)

Pennzoil Company

Well Operator:

By

Curtis A. Lucas

xxxx

Civil Engineering

NOTE: Regulation 5.02-61 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
OCT 16 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Jennings & Delores Thompson
Address Rt. 2, West Union, WV
Mineral Owner Mary R. Ash, Agent
Address 14 Jasmine Drive, DeBary, Florida 32713
Coal Owner NO COMMERCIAL COAL
Address _____
Coal Operator _____
Address _____

DATE October 15, 1979
Company PENNZOIL COMPANY
Address P.O. Box 1588, Parkersburg, WV 26101
Farm Silas Ash Acres 90
Location (waters) Little Flint Run
Well No. 17 Elevation 798.14'
District Grant County Doddridge
Quadrangle Smithburg 7.5'

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 6-16-80

Robert H. Bell

Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS Clarksburg, WV
PHONE _____

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 28 1891 by Silas Ash made to South Penn Oil Co. and recorded on the 4 day of January 1892 in Doddridge County, Book 7 Page 494

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

Very truly yours, PENNZOIL COMPANY
(Sign Name) Curtis A. Lucas
Well Operator Curtis A. Lucas
Civil Eng. Dept.

Address P.O. Box 1588
of _____
Well Operator _____
Parkersburg,
City or Town _____
West Virginia 26101
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

47-017-2512

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON CG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME PENNZOIL COMPANY
 ADDRESS _____ ADDRESS P.O. Box 1588, Parkersburg, WV
 TELEPHONE _____ TELEPHONE (304) 422-6565
 ESTIMATED DEPTH OF COMPLETED WELL: 2063' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL GAS _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	550'	550'	Cement to surface
7			
5 1/2			
4 1/2	2063'	2063'	100 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS Pitts. Coal @ 493'
 IS COAL BEING MINED IN THE AREA? _____ 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

20

017-2512-DD
 Issued 5/30/89 Expires 5/30/89
 Page 3 of 4

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

- 1) Well Operator: Pennzoil Products Company *31450, 3, 610*
- 2) Operator's Well Number: Silas Ash No. 17 3) Elevation: 798.14
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: 1115'
- 9) Approximate coal seam depths: 495-502
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: *Rework Existing well Drill Deeper*
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	8-5/8	K-55	20	546	546	280 (surface)
Coal						
Intermediate	4-1/2	K-55	9.5	2050	2050	150
Production	2-7/8	K-55	6.4	5300	5300	60
Tubing						<i>38CSRB-11.1</i>
Liners						

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 MAY 04 1989

PACKERS : Kind _____
 Sizes _____
 Depths set _____

9041
 For Division of Oil and Gas Use Only
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
 Fee(s) paid: *[Signature]* Well Work Permit *[Signature]* Reclamation Fund *[Signature]* WPCP *[Signature]*
 Plat *[Signature]* WW-9 *[Signature]* WW-2B *[Signature]* Bond *[Signature]* *[Signature]* Agent *[Signature]*
 (Type)

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MAY 04 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: April 25, 1989
Operator's well number
Silas Ash No. 17
API Well No: 47 - 017 - 2512-DD
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Jennings & Deloras Thompson</u>
Address <u>Route 2</u>
<u>West Union, W. Va. 26456</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>No Commercial Coal</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name _____
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rt. 2, Box 135</u>
<u>Salem, W. Va. 26426</u>
Telephone (304)- <u>782-1043</u></p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:
_____ Personal Service (Affidavit attached)
x _____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Pennzoil Products Company
By: Timothy P. Roush
Its: Supervisor, Surveying/Mapping
Address P.O. Box 5519
Vienna, W. Va. 26105-5519
Telephone 304-422-6565

Subscribed and sworn before me this 25th day of April, 1989

Christina Lewis Notary Public
My commission expires July 2, 1990



1) Date: October 15, 19 84
 2) Operator's Well No. Silas Ash Well No. 17
 3) API Well No. 47 - 017 - 2512 - FRAC
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 798.14' Watershed: Little Flint Run
 District: Grant County: Doddridge Quadrangle: Smithburg 7.5'
- 6) WELL OPERATOR Pennzoil Company 7) DESIGNATED AGENT James A. Crews
 Address P.O. Box 1588 Address P.O. Box 1588
Parkersburg, W. Va. 26101 Parkersburg, W. Va.
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Harold Mike Underwood Name _____
 Address Route 2, Box 114 Address _____
Salem, W. Va. 26426
- 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, Big Injun
- 12) Estimated depth of completed well, 2034 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ 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									Sizes
Intermediate									
Production									Depth set
Tubing									Perforations:
Liners									Top Bottom

RECEIVED
 OCT 18 1984

OIL & GAS DIVISION
 DEPT. OF MINES

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-2512-FRAC

November 21, 19 84
 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 November 21, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>112</u>	<u>AS</u>	<u>MU</u>	<u>MU</u>	<u>18167</u>

Margaret J. Chase
 Administrator, Office of Oil and Gas

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

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

File