

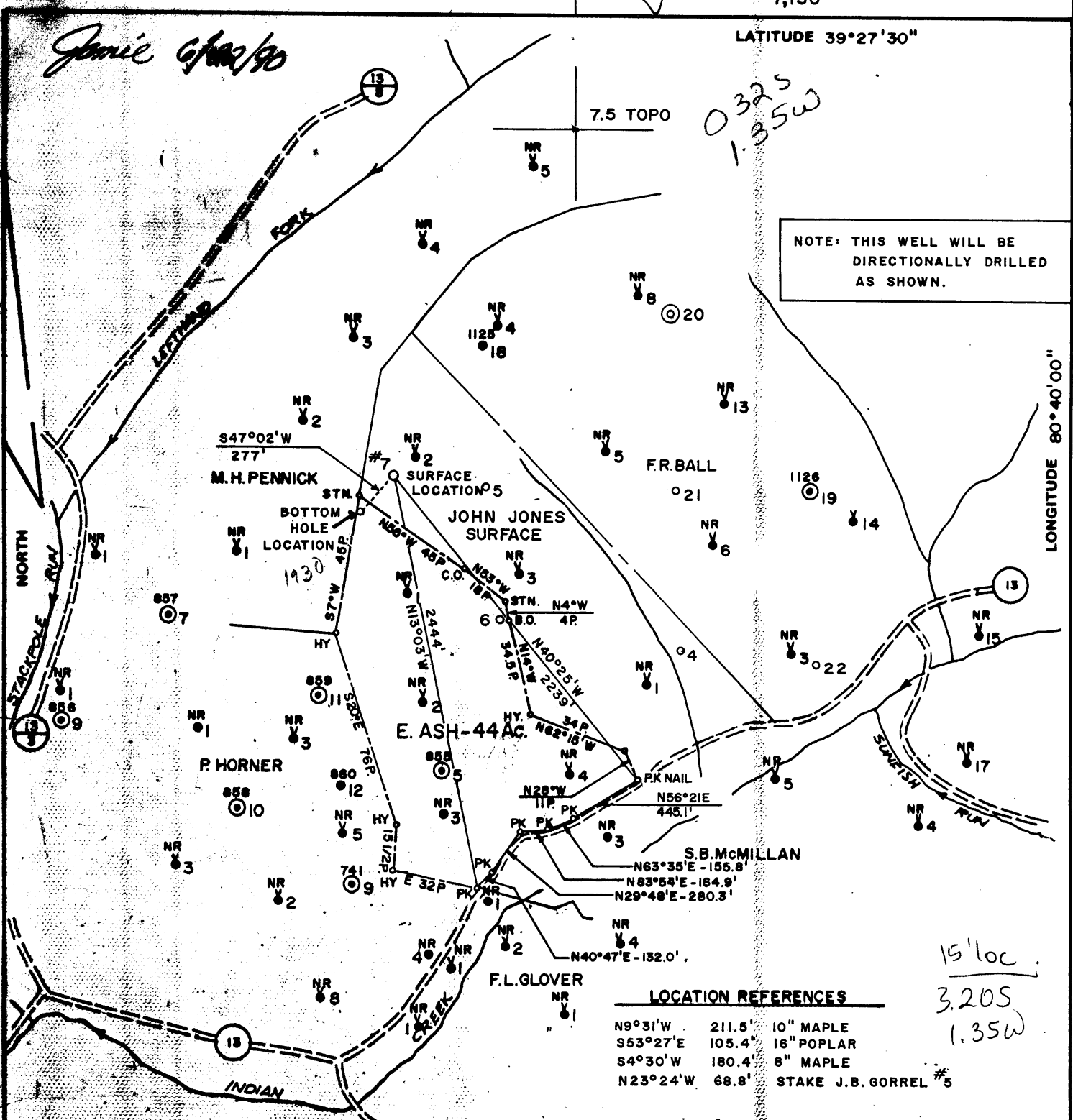
7,150'

LATITUDE 39°27'30"

Janie 6/22/90

*0325
1.35W*

NOTE: THIS WELL WILL BE DIRECTIONALLY DRILLED AS SHOWN.



LOCATION REFERENCES

N9°31'W	211.5'	10" MAPLE
S53°27'E	105.4'	16" POPLAR
S4°30'W	180.4'	8" MAPLE
N23°24'W	68.8'	STAKE J.B. GORREL #5

*15' loc.
3.205
1.35W*

FILE NO. 1698
 MAP: N47 SOS N1 W4
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1 IN 200'
 PROVEN SOURCE OF ELEVATION F.R. BALL WELL NO. 18
 ELEV. = 1093'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) *Timothy P. Roush*
 TIMOTHY P. ROUSH P.S. 793

793
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 31 1990
 FARM EMALINE ASH NO. 7
 API WELL NO. 47 - 095 - 1395
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1,234' WATER SHED INDIAN CREEK
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE CENTER POINT 7.5' + 15' NW
 SURFACE OWNER JOHN JONES ACREAGE 107.61 AC.
 OIL & GAS ROYALTY OWNER PENNZOIL COMPANY LEASE ACREAGE 44AC.
 LEASE NO. 12797-50
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION GORDON ESTIMATED DEPTH 3,250'
 WELL OPERATOR PENNZOIL COMPANY DESIGNATED AGENT JAMES A. CREWS
 ADDRESS P.O. BOX 5519 VIENNA, WV 26105 ADDRESS P.O. BOX 5519 VIENNA, WV 26105

*6-6 JUL 6 1990
 Jacksonburg - Stringtown (cas)*

FORM IV-G (8-78)

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

REC'D
APR 15 91
DIVISION OF OIL & GAS

Well Operator's Report of Well Work

Farm name: DAVIS, RAYMOND & NORMA Operator Well No.: EMALINE ASH #7

LOCATION: Elevation: 1234.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 1650 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7150 Feet West of 80 Deg. 40 Min. 0 Sec.

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

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON
Permit Issued: 06/27/90
Well work Commenced: 10-14-90
Well work Completed: 11-16-90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3262
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	509	509	370 Sks.
4-1/2	3228.26	3228.26	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3146-3164
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

Second producing formation N/A 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

* Water injection well.

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: April 11, 1991

APR 19 1991

Stimulation

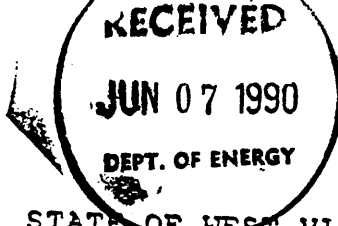
Perforated: Gordon 3154-3164 - 10 holes
 3171-3173 - 2 holes
 3184-3186 - 2 holes

Treated w/300 gal. reg. HF acid, 291 Bbls. gelled water and 1500# 80/100 and 3500# 20/40 sand.

Well Log

Sand & Shale	0-515
Shale	515-670
Sand	670-692
Shale	692-915
Sand	915-940
Shale	940-1101
Sand	1101-1130
Shale	1130-1250
Sand	1250-1271
Shale	1271-1335
Sand	1335-1347
Shale	1347-1486
Sand	1486-1534
Shale	1534-1664
Sand	1664-1670
Shale	1670-1694
Sand	1694-1727
Shale	1727-1883
Sand	1883-1897
Shale	1897-1905
Sand	1905-1914
Shale	1914-2050
Sand & Shale	2050-2191
Shale	2191-2278
Little Lime	2278-2291
Shale	2291-2304
Big Lime	2304-2431
Big Injun	2431-2540
Shale	2540-3146
Gordon	3146-3164
Sand & Shale	3164-3186
Shale	3186-3262
T.D.	3262'

10765



095-1395
Issued 6/27/90
Expires 6/27/92
Page 3 of 4

FORM WW-2B

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

- 1) Well Operator: Pennzoil Products Company ¹⁰⁷³ 37450 (5) 286
- 2) Operator's Well Number: EMALINE ASH NO. 7 3) Elevation: 1234'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Gordon 419
- 6) Proposed Total Depth: 3250 feet
- 7) Approximate fresh water strata depths: 460' OK
- 8) Approximate salt water depths: 1825' OK
- 9) Approximate coal seam depths: 900' OK
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and stimulate. New Well
- 12)

CASING AND TUBING PROGRAM

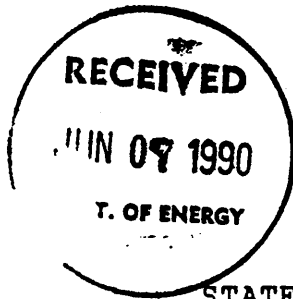
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	8-5/8"	H-40	24#	500'	500'	Cement to surface
Coal						
Intermediate						
Production	4-1/2"	J-55	9.5#	3200'	3200'	300 Sks.
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

100 97
15

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blair Spetone Agent



1) Date: June 1, 1990
2) Operator's well number EMALINE ASH NO. 7
3) API Well No: 47 - 095 - 1395
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:
 (a) Name <u>Raymond V. & Norma Davis</u>
 Address <u>General Delivery</u>
 <u>Alvy, W. Va. 26322</u>
 (b) Name <u>Vernon D. & Elizabeth DeLong</u>
 Address <u>General Delivery</u>
 <u>Alvy, W. Va. 26322</u>
 (c) Name _____
 Address _____</p> | <p>5) (a) Coal Operator:
 Name _____
 Address _____
 (b) Coal Owner(s) with Declaration
 Name _____
 Address _____
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name _____
 Address _____</p> |
| <p>6) Inspector <u>Glen P. Robinson</u>
 Address <u>Rt. 1, #6 Mt. Pleasant Est.</u>
 <u>Mineral Wells, W. Va. 26150</u>
 Telephone (304)- <u>489-9162</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
 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)
 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 Bennzoil 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 6th day of June, 1990

Curtis A. Lucca Notary Public
My commission expires July 2, 1990