

CODE CARD PLOT

LETITUDE 39°22'30"

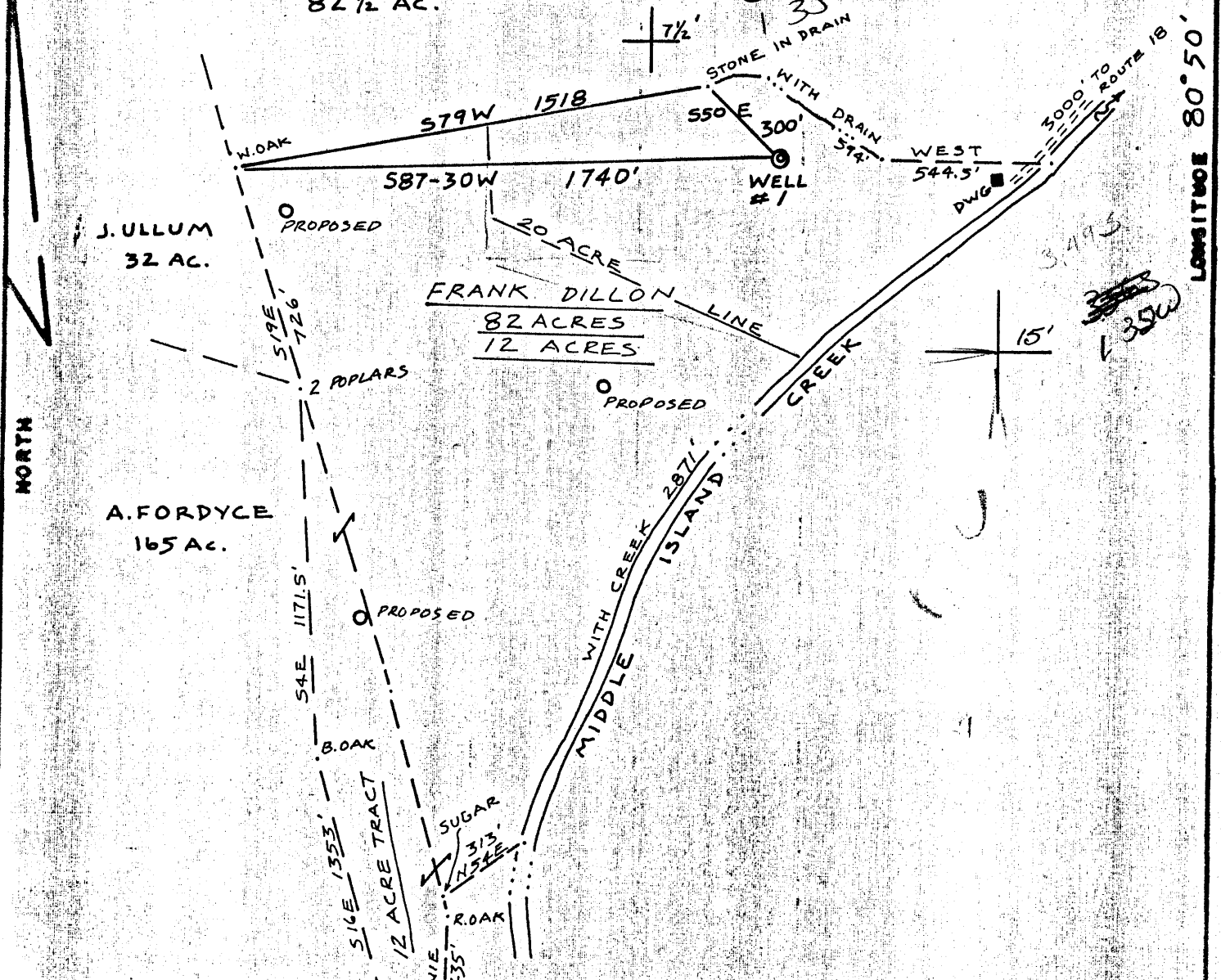
3200' SOUTH

7200' WEST

L. DAVIS
82 1/2 AC.

J. ULLUM
32 AC.

A. FORDYCE
165 AC.



FILE NO. L+M R. WESTFALL
 DRAWING NO. 1
 SCALE 1" = 500
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 782

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) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



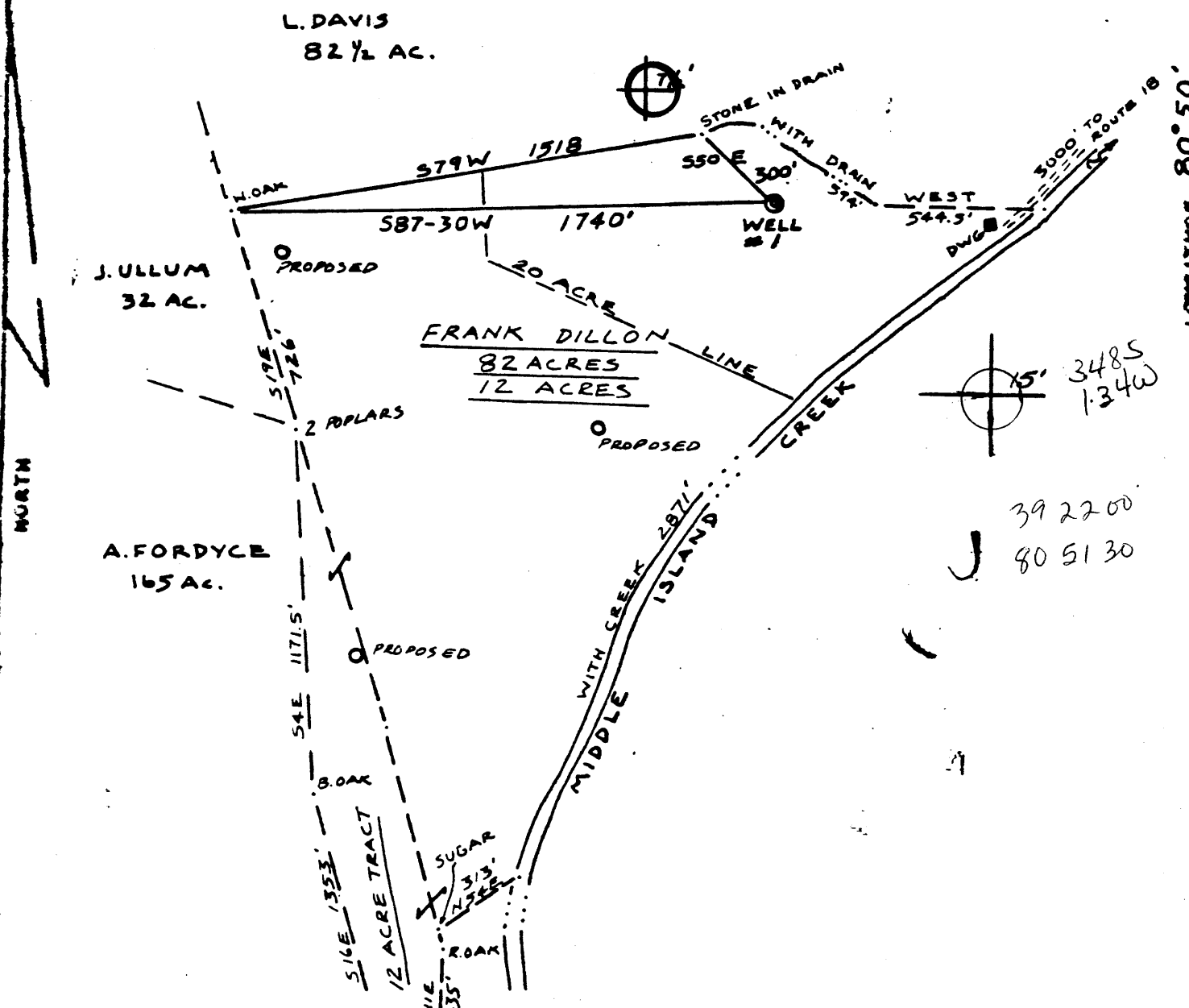
DATE JUNE 17, 19 80
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095 0813
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 810 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE 1 COUNTY TYLER
 QUADRANGLE WEST UNION 7 1/2' & 15' 671 133 C
 SURFACE OWNER FRANK DILLON / Lois Duff ACREAGE 94 AC.
 OIL & GAS ROYALTY OWNER RALPH J. WESTFALL LEASE ACREAGE 94 AC.
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN Gordon ESTIMATED DEPTH 2800 MAY 27 1986
 WILL OPERATED BY APPALACHIAN ENERGY DESIGNATED AGENT GEORGE WILLIAMS
 ADDRESS: P.O. Box 902 ADDRESS _____
BEAUMONT, W.Va. ADDRESS _____
OWDD - 6-6, unnamed (0)

7-1-80 (15) 39°25'
 LATITUDE 39°22'30"
 3200' SOUTH
 7200' WEST



FILE NO LJM R. WESTFALL
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM SCALE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION B.M. 782

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) Neal Hughes
 REG. NO. 632

LOCATES LOCATION OF WELL ON UNITED STATES GEOGRAPHIC MAPS
 FROM THIS DATE

DATE JUNE 17 1980
 OPERATOR WELL NO. 1
 WELL NO. 47-095
 STATE COUNTY DEWITT



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE OIL & GAS LIQUID INJECTION WASTE DISPOSAL
 SYSTEM ELEVATION 810 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 ADDRESS WEST UNION 7 1/2 S 15' C
 SURFACE OWNER FRANK DILLON ACRES 94 AC.
 OIL & GAS LEASE BY RALPH J. WESTFALL LEASE ACRES 94 AC.

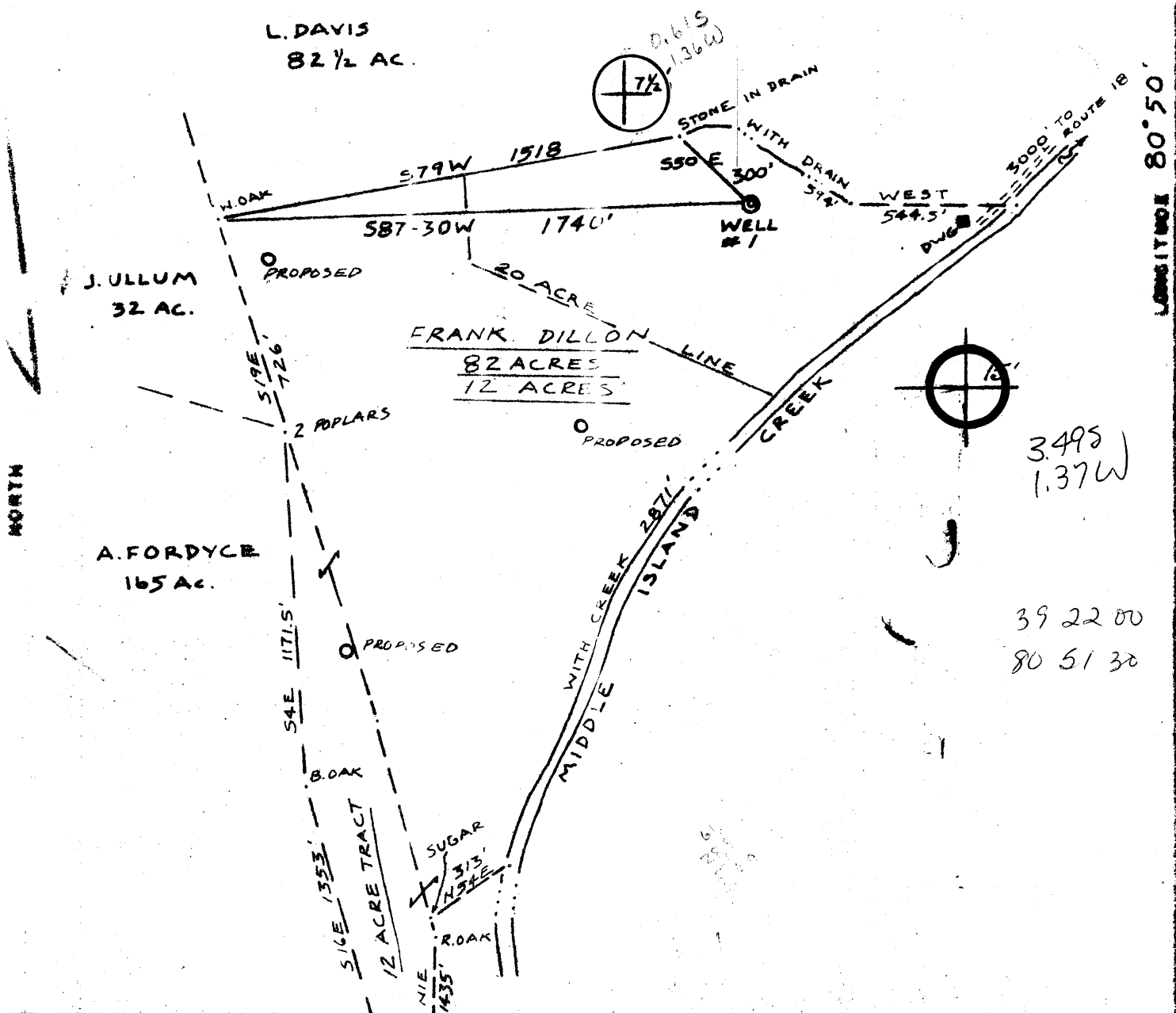
PROPOSED WELL DRILL & CONVERT TO DEEP DEPTH 2800 FEET
 STRATUM DEVONIAN PERMEABLE AND POROSITY GOOD
 PHYSICAL CHANGE IS BEING MADE
 PERMITS AND VARIATION DEVONIAN AND DEPT
 TARGET FORMATION DEVONIAN EST. DEPTH 2800
 WELL OPERATOR LJM Petroleum Co
 ADDRESS RT 1 BX 188 MARLETTA, OHIO

OCT 08 1981

Owwo & Wilbur (92) 2-2 0

Plot Card CSD

ATTITUDE 39°22'30"
3200' SOUTH
7200' WEST



FILE NO L+M R.WESTFALL
 DRAWING NO. 1
 SCALE 1" = 500
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. 782

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 RESOURCES.
 SIGNED: Neal Hughes
 TITLE: LLS 632

PLACE IN U.S. PIPE

+ DENOTES LOCATION OF WELL OR UNITED STATES TOPOGRAPHIC MARK
 FORM 17-6
 12-78

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 DATE JUNE 17 1980
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095 0813
 STATE COUNTY PERMIT

DATE JUNE 17 1980
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095 0813
 STATE COUNTY PERMIT

WELL TYPE: X GAS X LIQUID
 DEPTH: 348' PROXYM: ORANGE DRAIN: SHALLOW
 LOCATION: ELEVATION 810 STATE: WEST VIRGINIA COUNTY: MIDDLE ISLAND CREEK
 DISTRICT: CENTERTVILLE TOWNSHIP: TYLER
 SURFACE OWNER: FRANK DILLON ACRES: 94 AC.
 OPERATOR: RALPH J. WESTFALL LEASE NUMBER: 94 AC.
 PROPOSED WELL: X OF: 1 DATE: NEEPLER PEOPLE: 1 PRACTICES: ON
 STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION
 FILE NO. AND BARRON'S INDEX NO. DEVONIAN SECTION 2800
 TOWNSHIP TYLER RANGE 18
 WELL OPERATED BY LeM Petroleum Co LICENSE NO. 1
 ADDRESS RT 1 BX 183
MARLETTA, OHIO

WR-35

RECEIVED
MAR 06 1987



State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date February 9, 1987
Operator's
Well No. Westfall # 1
Farm Westfall
API No. 47 - 095 - 813-D

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 810' Watershed Middle Island Creek
District: Centerville County Tyler Quadrangle West Union

COMPANY Appalachian Energy Development, Inc.

ADDRESS Rt. 2, Box 499, Grafton, WV 26354

DESIGNATED AGENT George R. Williams

ADDRESS Rt. 2, Box 499, Grafton, WV 26354

SURFACE OWNER Lois J. Duff

ADDRESS Rural Route, Alma, WV

MINERAL RIGHTS OWNER

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Robert Lowther, ADDRESS Middlebourne, WV

PERMIT ISSUED May 19, 1986

DRILLING COMMENCED May 21, 1986

DRILLING COMPLETED May 25, 1986

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON NA

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	248'	248'	
7			
5 1/2			
4 1/2	3303'	3303'	300 sks.
3			
2 7/8"		4900'	2500' fill up
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4724' feet

Depth of completed well 4779' feet Rotary XX / Cable Tools

Water strata depth: Fresh feet; Salt feet

Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Combination Benson/Riley Pay zone depth 4326'/4731' feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 565,000 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 1565 psig (surface measurement) after 48 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.

PERFORATING: Superior Wireline 7-1-86

<u>Benson</u>	<u>4724'-4731'</u>	14 holes	Avg. Pressure 3750#	Avg. Rate 15 BPM
<u>Riley</u>	<u>4326'-4352'</u>	10 holes		
	<u>4076'-4082'</u>	5 holes	Avg. Pressure 3750#	Avg. Rate 15 BPM

FRACTURING: Halliburton Services 7-1-86

1st. Stage	5,000 #	80/100 Sand	15,000 #	20/40 Sand
2nd. Stage	5,000 #	80/100 Sand	15,000 #	20/40 Sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandy Shale			3200'	3985'	
Sand & Shale			3985'	4330'	
Riley			4330'	4369'	Gas Check @ 4335' No Show
Sand & Shale			4369'	4734'	
Benson			4734'	4745'	Gas Check @ 4740' No Show
Sand & Shale			4745'	4839'	
T.D.				<u>4839'</u>	

new TD 4839
 old TD 3400
 new ftg. 1439

RECEIVED
 MAR 06 1987

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Appalachian Energy Development, Inc.

Well Operator

By: George R. Williams President

Date: February 9, 1987

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."



RECEIVED

IV-35 (Rev 8-81)

OCT 26 1981

Date 10/22/81
Operator's Well No. Westfall #1
Farm Ralph Westfall
API No. 47-095-813

OIL AND GAS DIVISION WV DEPARTMENT OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

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: 810 Watershed Middle Island Creek
District: Ctrville County Tyler Quadrangle West Union

COMPANY L&M Petroleum Co.
ADDRESS P.O. Box 89, Reno, OH 45773
DESIGNATED AGENT David Clovis
ADDRESS Box 288, Parkersburg, WV 26101
SURFACE OWNER Frank Dillon
ADDRESS Tyler Co., WV
MINERAL RIGHTS OWNER Ralph Westfall
ADDRESS Rt. 1, Box 78, Bridgeport, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Phil Tracy ADDRESS Rt. 23, Alma, WV
PERMIT ISSUED
DRILLING COMMENCED 7/28/80
DRILLING COMPLETED 8/3/80
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Weir Formation Depth 2042' feet
Depth of completed well 3400 feet Rotary x / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Weir Formation Pay zone depth 2042-2102 feet
Gas: Initial open flow 150 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 100 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)

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

A bridgeplug had been set at 3116', and the well has been frac'ed for the third time using 190MSCF Nitrogen, 684# sand; ATP:2300; RATE: 20BPM; ISI:2100; 5 Min:1900. Date of frac:10/16/81

Perfs: 20 shots from 2044-2129

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Lime			1664	1734	
Big Injun Sand			1734	1874	
Weir Sand			2042	2102	

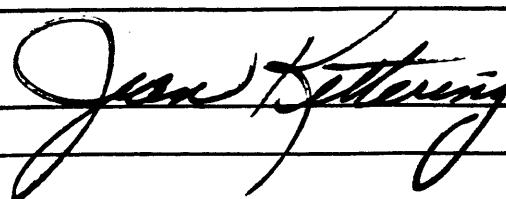
(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering

Date: 10/23/81



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
Oil and Gas Division
WELL RECORD

Quadrangle West Union
Permit No. 47-095-813

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

Company L&M Petroleum Co.
Address P.O. Box 89, Reno, OH 45773
Farm Ralph J. Westfall Acres 94
Location (waters) Middle Island Creek
Well No. 1 Elev. 810
District Centerville County Tyler
The surface of tract is owned in fee by _____
Frank Dillon
Address Tyler Co., WV
Mineral rights are owned by Ralph J. Westfall
Address Rt. 1, box 78, Bridgeport, WV
Drilling Commenced 7/28/80
Drilling Completed 8/3/80
Initial open flow 150 cu. ft. _____ bbls.
Final production 100 cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	248'		100 sx
7			
5 1/2			
4 1/2	3303'	3303'	300 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

A Bridgeplug was set at 3116' and well was frac'ed for the second time using 1,125 MSCF of Nitrogen. BD:3200; ATP:3000; RATE:45MSCF/min; IST:2800; 5 min: 2800. Perforations were from 2043-2090-12 shots. Well frac'ed in the Weir formation.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Weir Depth 2042-2102

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1664	1734		
Big Injun Sand			1734	1874		
Weir Sand			2042	2102		

NOTE: No logs or samples taken above these depths.

RECEIVED

AUG 31 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

SEP 21 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

Date August 17 19 81
 APPROVED [Signature] Owner
[Signature]



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JAN 27 1981

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle West Union
Permit No. 47-095-813

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

Company L&M Petroleum Co.
Address Rt. 1, Box 18-B, Marietta, OH
Farm Ralph J. Westfall Acres 94
Location (waters) Middle Island Creek
Well No. 1 Elev. 810
District Centerville County Tyler
The surface of tract is owned in fee by _____
Frank Dillon
Address Tyler Co., WV
Mineral rights are owned by Ralph J. Westfall
Address Rt. 1, Box 78, Bridgeport West Virginia
Drilling Commenced 7/28/80
Drilling Completed 8/3/80
Initial open flow 150 cu. ft. _____ bbls.
Final production 100 M cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	248		
7			
5 1/2			
4 1/2	3303'	3303'	300 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Frac on 11/4/80 using 251 bbl water & 60M# sand at 3200 psig, 11BPM, w/ 540MSCF Nitrogen

100 MCF

Driller TD 3400
Logger TD 3391

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Warren Depth 3154' - 3200'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1664	1734		
B. Injun Sand			1734	1874		
Weir Sand			2042	2102		
Berea Sand			2231	2236		
Gordon Sand			2658	2665	Gas/Oil	
<u>WARREN SANDS</u>			<u>3154</u>	<u>3200</u>	<u>GAS/oil</u>	

NOTE: No Logs or Samples taken above these depths.

Driller TD 3400
Log TD 3391

MAR 9 1981

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date January 20 1981

APPROVED L&M Petroleum, Co. Owner

By *James Kittering* Assist.-Secy.
(Title)

RECEIVED
MAY 12 1986



1) Date: May 10, 1986
2) Operator's Well No. Westfall #1
3) API Well No. 47 State 095 County 813-D 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: 810 Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: West Union
- 6) WELL OPERATOR Appalachian Energy CODE: 2325 7) DESIGNATED AGENT George Williams
Address: P.O. Box 902 Address: P.O. Box 902
Belington WV Belington WV
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Bob Lowther Name Tri State
Address General Delivery Address Berea Plaza
Middlebourne WV Bridgeport WV
- 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, Benson
- 12) Estimated depth of completed well, 4900' feet
- 13) Approximate trata depths: Fresh, Cased off feet; salt, _____ feet.
- 14) Approximate coal seam depths: 0 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>248</u>		Sizes
Intermediate	<u>4 1/2</u>					<u>3303</u>	<u>3303</u>	<u>300 SKS</u>	
Production	<u>2 7/8</u>					<u>4900</u>	<u>4900</u>	<u>2500' fill up</u>	Depths set
Tubing									
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-0813-D

May 19 19 86
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 May 19, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>254</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: <input type="checkbox"/>
---	--	-----------------	-------------------	-----------------	-----------------	----------------	---------------------------------

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

John U. Johnston by Margaret J. Bass
Director, Division of Oil and Gas File

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



Date: 8/17, 19 81

RM IV-2
(reverse)
-78)

Operator's Well No. Ralph Westfall #1

API Well No. 47 - 095 - 813 - Frac.
State County Permit

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

OIL AND GAS WELL PERMIT

WELL TYPE: Oil / Gas
(If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____ /)
LOCATION: Elevation: 810 Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: West Union
WELL OPERATOR L&M Petroleum Co. DESIGNATED AGENT David Clovis
Address P.O. Box 89 Address Box 288
Reno, Ohio 45773 Parkersburg, WV 26101

OIL & GAS
ROYALTY OWNER Ralph Westfall
Address Rt. 1, Box 78, Bridgeport, WV

COAL OPERATOR None
Address _____

ACREAGE 94
SURFACE OWNER Frank Dillon
Address Tyler Co., WV
ACREAGE 94

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name NA
Address _____
Name _____
Address _____
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

RECENT SALE (IF MADE) TO:
Address NA

COAL LESSEE WITH DECLARATION ON RECORD:
Name NA
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phil Tracy
Address Rt. 23, Alma WV
758-4573

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease
under contract _____ / dated 3/7, 19 73, to the undersigned well operator from Ralph & Shirley Westfall
(said deed, lease, or other contract has been recorded)
recorded on 12/20, 19 73, in the office of the Clerk of the County Commission of Tyler County, West Virginia in Deed Book 200 at page 111. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____
_____ planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

EASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

L&M Petroleum Co.
Joanne Cogan
Well Operator
By Joanne Cogan
Its Vice President

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY;
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) NA
Address _____

GEOLOGICAL TARGET FORMATION, ~~XXXXXXXXXXXX~~ Weir Sand

Estimated depth of completed well, 2100' feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No x /

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	8 5/8			x		248'		100 sx	Kinds
Fresh Water									
Coal									Sizes
Intermediate									
Production	4.5			x		3303	3303	300 sx or	Depths set
Tubing								as req. sec.	1501
Liners									Perforations:
									Top Bottom
***Plan to set a bridgeplug at 3116' in the Weir formation and re-frac well for the second time									

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form Iv-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 fracturing _____. This permit shall expire if operations have not commenced by 5-22-82.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____
Its _____



WD 7-1-80

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 June 19, 1980
Company L & M Petroleum Co.
Address Rt. #1, Box 18-8, Marietta, OH
Farm Ralph J. Westfall Acres 94
Location (waters) Middle Island Creek
Well No. 1 Elevation 810
District Centerville County Tyler
Quadrangle West Union 7 1/2'

Surface Owner Frank Dillon
Address Tyler Co., WV
Mineral Owner Ralph J. Westfall
Address Rt. #1, Box 78, Bridgeport, WV 26330
Coal Owner Ralph J. Westfall
Address same as above
Coal Operator N/A
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
or drilling. This permit shall expire if
operations have not commenced by 3-2-81

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy
ADDRESS Middlebourn, WV 26149
PHONE 758-4573

Paul R. ...
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 March 7 19 73 by Ralph J. & Shirley A. Westfall made to Royal Resources Corp. and recorded on the 20 day of Dec. 1979 in Tyler County, Book 200 Page 111

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, L & M Petroleum, Co.
(Sign Name) [Signature]
Well Operator

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

Rt. #1, Box 18-8
Street
Marietta
City or Town
Ohio 45750
State

RECEIVED
JUN 30 1980

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 filed by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed

DEPT. OF MINES

47-095-813

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]

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 _____ NAME Richard Hudson
 ADDRESS _____ ADDRESS Parkersburg, WV 26101
 TELEPHONE _____ TELEPHONE 304-422-7208
 ESTIMATED DEPTH OF COMPLETED WELL: 2800' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Gordon
 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			
9 - 5/8			
8 - 5/8	250'	250'	Surface
7			
5 1/2			
4 1/2	TD	TD	400 sx
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 500 FEET 1500 SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 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