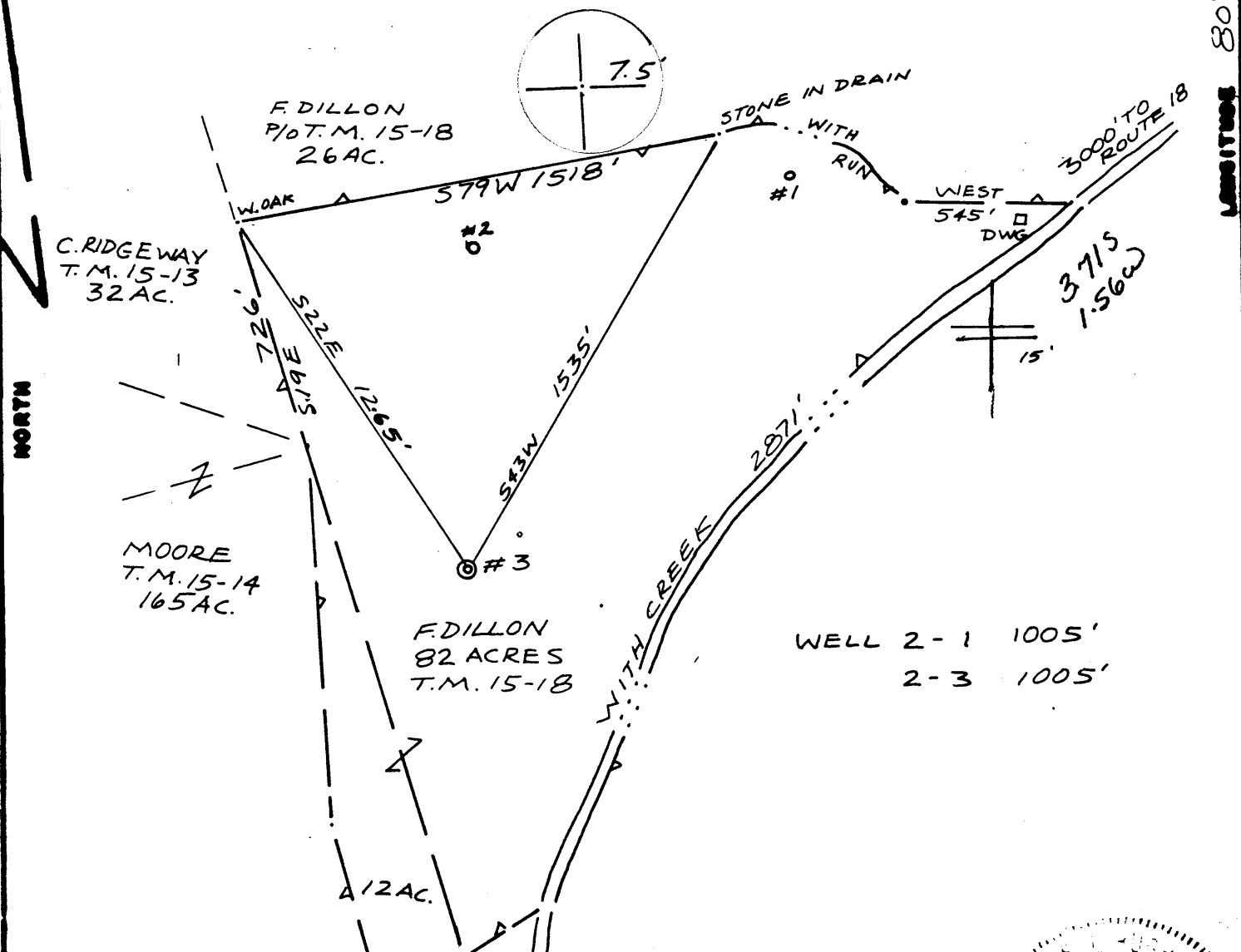
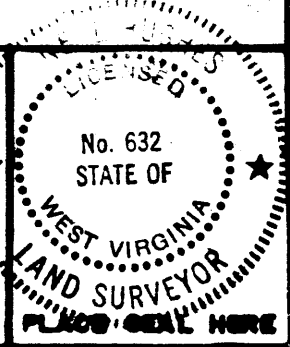


LATITUDE 39°-22'-30"
4375 SOUTH
8250' WEST



FILE NO. L+M
 DRAWING NO. 3
 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 Hughson
 R.P.E. _____ L.L.S. 632



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



DATE JAN 21, 19 81
 OPERATOR'S WELL NO 3 REVISED
 API WELL NO.
47-095-0899-Rev
 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 942' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE 1 COUNTY TYLER
 QUADRANGLE WEST UNION (77.5 Q 15) Cs 133
 SURFACE OWNER FRANK DILLON ACREAGE 94
 OIL & GAS ROYALTY OWNER RALPH WESTFALL LEASE ACREAGE 94
 LEASE NO. 54
 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 _____ ESTIMATED DEPTH _____

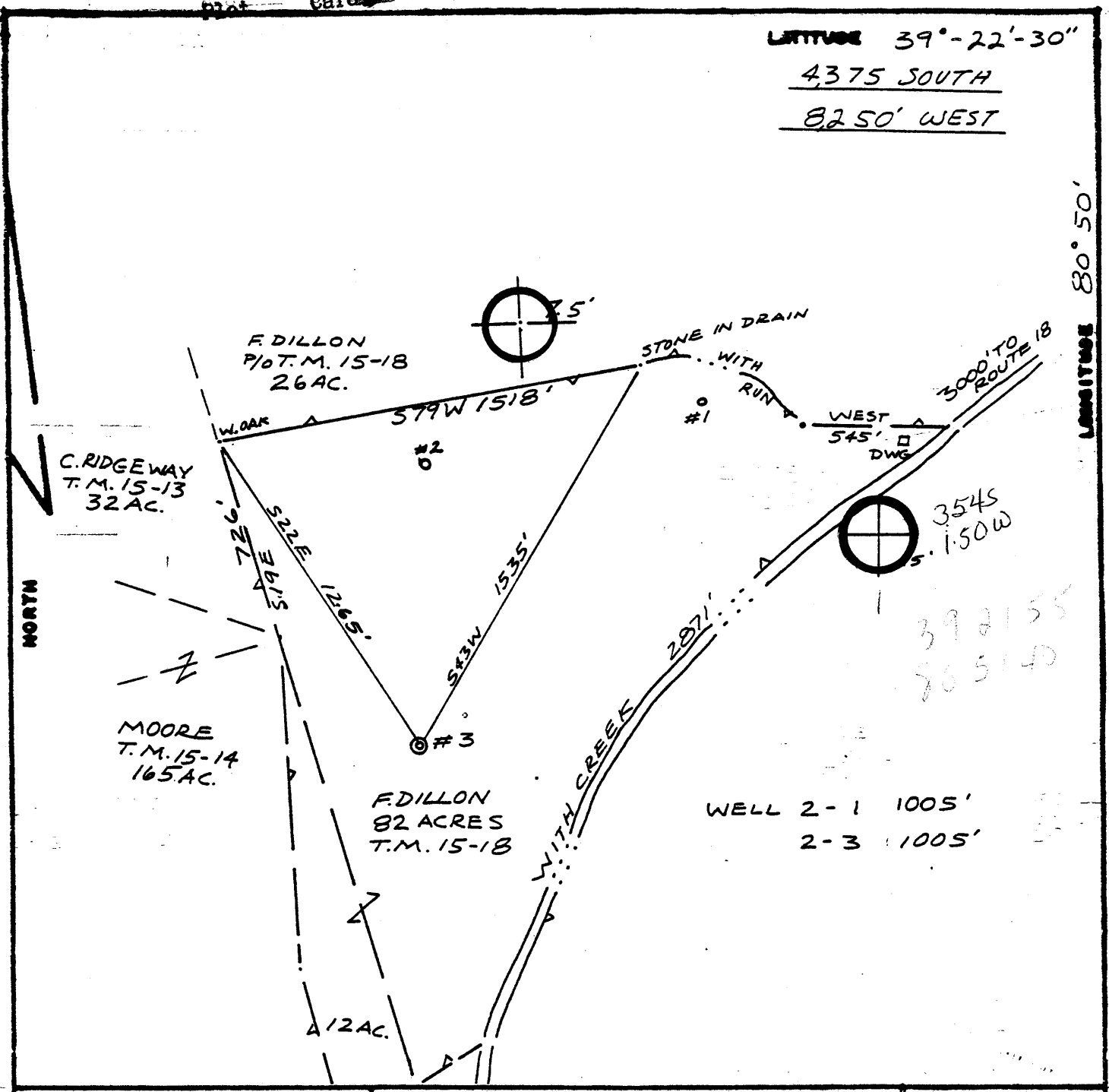
Appalachian Energy Development
 P.O. Box 902
 Belington, W.Va. 26250

George Williams, Agent
 P.O. Box 902
 Belington, W.Va. 26250

MAR 04 1985

LATITUDE 39°-22'-30"
4375 SOUTH
8250' WEST

LATITUDE 80° 50'



FILE NO. L+M
 DRAWING NO. 3
 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



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



DATE JAN 21, 19 81
 OPERATOR'S WELL NO 3 REVISED
 API WELL NO. 47-095-0899-Rcv-
 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 942' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION 75015 C
 SURFACE OWNER FRANK DILLON ACREAGE 94
 OIL & GAS ROYALTY OWNER RALPH WESTFALL LEASE ACREAGE 94
 LEASE NO. 54
 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 Dunsmuir Shale ESTIMATED DEPTH 2800'
 WELL OPERATOR W. M. Petroleum Co. DESIGNATED AGENT Shane C. Ryan
 ADDRESS 1441 W. R. P. ADDRESS 113 Shepherd
Marion, Ohio 44575B Williamstown, WV



IV-35
(Rev 8-81)

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DEC 03 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. #3
Farm Westfall #3
API No. -095 -0899 DD

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 ___ / Underground Storage ___ / Deep ___ / Shallow x /)
LOCATION: Elevation: 940 Watershed Middle Island Creek
District: Cenrerville County Tyler Quadrangle West Union

COMPANY Appalachian Energy Dev.
ADDRESS PO Box 902 Belington WV
DESIGNATED AGENT George Williams
ADDRESS 902 Crim Ave. Belington WV
SURFACE OWNER Keith Duff
ADDRESS General Delivery Alma WV
MINERAL RIGHTS OWNER Frank Westfall
ADDRESS Rt. 1 Box 78 Bridgeport WV
OIL AND GAS INSPECTOR FOR THIS WORK Bob Lowther ADDRESS Middlebourne WV
PERMIT ISSUED Feb. 22, 1985
DRILLING COMMENCED 1-1-86
DRILLING COMPLETED 1-10-86

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		273	100sx
9 5/8			
8 5/8		2409	200sx
7			
5 1/2			
4 1/2		2423	200sx
3			
2 7/8		4921	2000' fill
Liners used			

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

GEOLOGICAL TARGET FORMATION Benson Depth 4850 feet
Depth of completed well 4905 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 Benson Pay zone depth 4836=44 feet
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 2000 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure _____ psig (surface measurement); after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4420-68 feet
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 2000 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1500 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)
DEC 8 1986

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

Perforated Benson 4856-63 (12holes) , perforate Riley 4437
 4486 (8 holes) Frac with 120,000scf N2. 500 gal hcl 100sks 80/100
 300 sks 20/40 625 bbls treated fluid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
previous footage			0	2375	Benson 4806
shale			2375	2810	Riley 4421
sand			2810	2828	
shale			2828	4220	
sand			4220	4235	
sand/shale			4235	4905	
					4921- New TD- btm 4 1/2"
					new TD 4921
					old TD 2436
					2441 - new fig.
					2485

(Attach separate sheets as necessary)

Application Energy Prod Co
 Well Operator
 By: George B. Williams
 Date: _____

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."



IV-35 (Rev 8-8) **RECEIVED**

AUG 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date 12/15/81

Operator's

Well No. 3

Farm Ralph Westfall #3

API No. 47 - 095 - 899

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: 940 Watershed Middle Island Creek
District: Centerville 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 1/20/81
DRILLING COMMENCED 1/25/81
DRILLING COMPLETED 1/28/81

Casing Tubing	Used in Drilling	Left in Well	Content fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8	272.9	272.9	100 sq. ft
7			
5 1/2			
4 1/2	2409.47	2409.47	200 sq. ft
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Weir Sandstone Depth 2182-2278 feet
Depth of completed well 2430 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 Sandstone Pay zone depth 2182-2278 feet
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow bbl/d
Final open flow 75 Mcf/d Oil: Final open flow bbl/d
Time of open flow between initial and final tests 6 hours
Static rock pressure psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)

Second producing formation NA Pay zone depth NA 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

AUG 23 1982

(Continue on next page)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Well was on 11/18/81-26 shots from 2182-2278'. On 11/20/81 well was frac'ed using 580BW & 119,280# Sand. BD:3000;ATP:2300;RATE:22.5BPM; ISI: 1800; 5 min:1700

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all f and salt water, coal, oil and
Clay			0	13	
Blue Rock			13	35	
Red Rock			35	80	
Lime			80	90	
Sand Rock			90	100	
Slate			100	115	
Lime			115	125	
Slate			125	140	
Lime			140	145	
Slate			145	167°	
Red Rock			167	195	
Slate			195	205	
Lime & Shell			205	210	
Slate			210	225	
Red Rock			225	300	
Big Red			300	490	
1st Cow Run			490	500	
Shale			500	740	
1st Salt Sand			740	845	
Sand			860	880	
W. Slate			925	1010	
Sand			1010	1030	
B. Slate			1030	1065	
Slate			1110	1125	
Sand			1125	1135	
Slate			1135	1155	
Sand			1155	1175	
Slate			1175	1190	
Sand			1190	1215°	
Black Shale			1275	1321	
Lime			1321	1333	
Black Slate			1333	1355	
Lime			1355	1380	
Slate			1380	1415	
Shale			1475	1505	
Lime			1505	1512	
Sand			1512	1540	
Shale			1540	1576	

SEE ATTACHED
(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering

Date: 1-14-82

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'w.l.' shall mean a systematic
recording of data in the
well log book."

WELL NAME & NUMBER Ralph Westfall #3

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Lime	1576	1589	Oil/Gas } more detailed than original
Shale & Lime	1589	1654	
Slate	1689	1713	
Sandstone	1738	1800	
Big Lime	1806	1899	
B. Injun Sand	1920	2016	
Siltstone	2030	2100	
Weir Sand	2182	2294	
Berea Sand	2371	2375	
Shale	2380	2430	

Final open flow 75 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 6 hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation NA Pay zone depth NA 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

RECEIVED



JAN 18 1982

IV-35 (Rev 8-81)

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date 12/15/81 Operator's Well No. 3 Farm Ralph Westfall #3 API No. 47 - 095 - 899

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: 940 Watershed Middle Island Creek District: Centerville 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 1/20/81 DRILLING COMMENCED 1/25/81 DRILLING COMPLETED 1/28/81

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.

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

GEOLOGICAL TARGET FORMATION Weir Sandstone Depth 2182-2278 feet Depth of completed well 2430 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 Sandstone Pay zone depth 2182-2278 feet Gas: Initial open flow 100 Mcf/d Oil: Initial open flow Bbl/d Final open flow 75 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 6 hours Static rock pressure psig (surface measurement) after hours shut in (If applicable due to multiple completion--)

Second producing formation NA Pay zone depth NA 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

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Well was on 11/18/81-26 shots from 2182-2278'. On 11/20/81 well was frac'ed using 580BW & 119,280# Sand. BD:3000;ATP:2300;RATE:22.5BPM; ISI: 1800; 5 min:1700

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			1806	1899	
Big Injun Sand			1920	2016	
Weir Sand			2182	2294	Oil/Gas
<u>Berea Sand</u>			2371	2375	
TD: 2441					
NOTE: NO LOGS OR SAMPLES WERE TAKEN ABOVE THESE DEPTHS.					

(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering *Jean Kettering*

Date: 1-14-82

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

FEB 13 1985



1) Date: Feb. 8, 1985, 19__
 2) Operator's Well No. #3
 3) API Well No. 47 - 095 - 899-DD
 State County Permit

**OIL & GAS DIV.
DEPT OF MINES**

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 942' Watershed: Middle Island Creek
 District: Centerville County: Tyler Quadrangle: West Union
- 6) WELL OPERATOR Appalachian Energy Development 7) DESIGNATED AGENT George Williams
 Address P. O. Box 902 Address P. O. Box 902
Belington, WV 26250 Belington, WV 26250
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther
 Address General Delivery
Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name Unknown
 Address _____
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper X / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 4800' feet
 13) Approximate strata depths: Fresh, cased off feet; salt, cased off feet.
 14) Approximate coal seam depths: cased off Is coal being mined in the area? Yes _____ / No X /
- 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	<u>7"</u>					<u>280'</u>	<u>2729'</u>	<u>100 sks</u>	} <u>EXISTING</u> Sizes
Coal									
Intermediate	<u>4 1/2"</u>					<u>2489'</u>	<u>2429'</u>	<u>200 sks</u>	} <u>to be replaced by rule 05.01</u>
Production	<u>2 7/8"</u>					<u>4800'</u>	<u>4770'</u>	<u>1000'</u>	
Tubing									Perforations:
Liners									Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-095-0899-DD Date February 22, 19 85

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 February 22, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>CD</u> <i>(blanket)</i>	<u>ls</u>	<u>MH</u>	<u>MH</u>	<u>114</u>

Margaret J. Hass
 Administrator, Office of Oil and Gas

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

File

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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 20 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 16, 1981

Surface Owner Frank Dillon

Company L&M Petroleum Co.

Address Tyler Co., WV

Address Rt. #1, Box 18-B, Marietta, OH

Mineral Owner Ralph J. Westfall

Farm Ralph J. Westfall Acres 94

Address Rt. 1, Box 78, Bridgeport, WV 26330

Location (waters) Middle Island Creek

Coal Owner Ralph Westfall

Well No. 3 Elevation 782* 940

Address same as above

District Centerville County Tyler

Coal Operator None

Quadrangle West Union

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 9-20-81.

INSPECTOR TO BE NOTIFIED Phil Tracy

ADDRESS Rt. 23, Alma, WV 26320

PHONE 758-4573

Fred B. ...
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 3/7 1973 by Ralph J. & Shirley Westfall made to Royal Resources Corp. and recorded on the 20th day of Dec. 79 in Tyler County, Book 200 Page 111

XXX 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, L&M Petroleum Co.
(Sign Name) Jacqueline Cogan V.P.
Well Operator

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

NET BOND

47-095-0899

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 _____

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

PROPOSED WORK ORDER TO XXXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT:
 NAME _____ NAME Joanne Cogan
 ADDRESS _____ ADDRESS 113 Sherwood, Williamstown, WV
 TELEPHONE _____ TELEPHONE 375-2252
 ESTIMATED DEPTH OF COMPLETED WELL: 2800 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX 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	<u>275'</u>		<u>CTS</u>
7			
5 1/2			
4 1/2	<u>2450'</u>		<u>200 Cement</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET 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