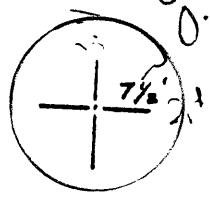


37-25 25

CODE _____ CARO _____ PLOT _____

LATITUDE 39° 22' 30"
3600' SOUTH
2200' WEST

0.655
0.40W



80° 50'

V. ASH
T.M. 16-19.1
69 AC

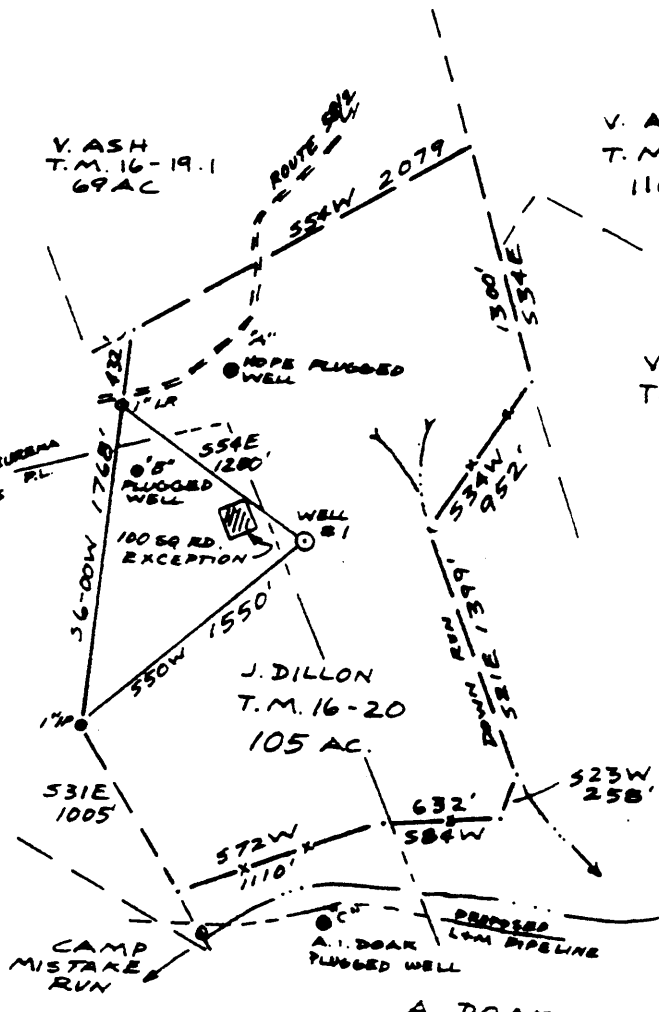
V. ASH
T.M. 16-19
110 AC.

V. PHILLIPS
T.M. 16-21
72 1/4 AC

M. ROBERTS
T.M. 15-16
290 AC.

J. DILLON
T.M. 16-20
105 AC.

A. DOAK
T.M. 16-26
149 AC.

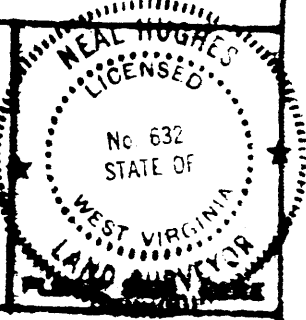


WELL #1 - WELL 'A' 990'
- WELL 'B' 985'
- WELL 'C' 2040'

3.535
0.40W

FILE NO. L+M
DRAWING NO. 1-REVISED
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION KNOB 996

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 MINES.
(SIGNED) Neal Hughes
L.S. 632



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



DATE NOV 5, 1980
OPERATOR'S WELL NO. L-REVISED
API WELL NO. 47-095-0876-DD
STATE WEST VIRGINIA COUNTY TYLER 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 975' WATER SOURCE CAMP MISTAKE RUN
DISTRICT CENTERVILLE 1 COUNTY TYLER
QUADRANGLE WEST UNION 671 133 = 05
SURFACE OWNER JACOB L. DILLON ACRES 104.4 AC
OIL & GAS ROYALTY OWNER JACOB L. DILLON LEASE ACRES 104.4
LEASE NO. 52901
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG ORP OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PROVISIONAL CHANGE OR WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAR OUT AND REPERF _____ 4950' Benson
ESTIMATED DEPTH 4950'

APPALACHIAN ENERGY DEVELOPMENT, INC.
P.O. Box 902- Belington, WVa. 26250
Surface: Bonny Rowland Dillon #1

George Williams, Agent
Same Address
PH: 823-1746

JAN 21 1986

397

427

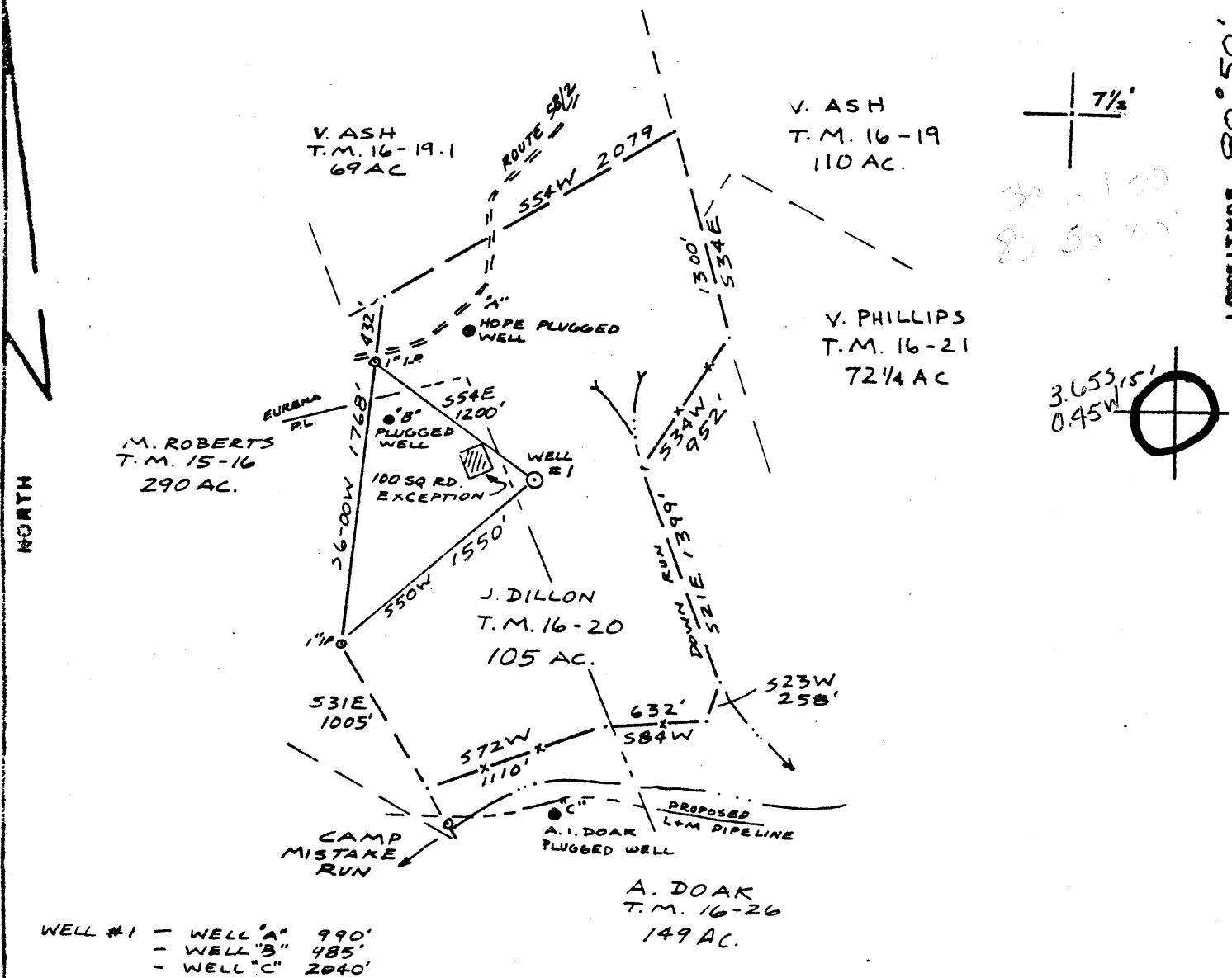
OWDD- h-b Wilbur (92)

LATITUDE 39° 22' 30"

3600' SOUTH

2200' WEST

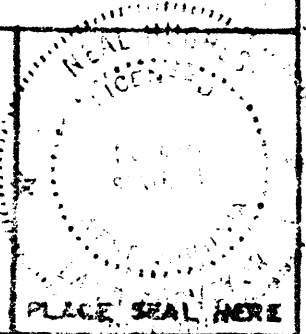
LONGITUDE 80° 50'



WELL #1 - WELL "A" 990'
 - WELL "B" 485'
 - WELL "C" 2040'

FILE NO. L+M
 DRAWING NO. 1-REVISED
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SNOB 996

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 Healy
 R.P.E. _____ L.L.S. 632



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



DATE NOV 5, 1980
 OPERATOR'S WELL NO. L-REVISED
 API WELL NO. 47-095-0876
 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 975' WATER SHED CAMP MISTAKE RUN
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION C
 SURFACE OWNER JACOB L. DILLON ACRES 104.4 AC
 OIL & GAS ROYALTY OWNER JACOB L. DILLON LEASE INCREASE 104.4
 LEASE NO. 42801
 PROPOSED WORK: DRILL REFRILL REPAIR REGRILL _____ FRACTURE OR STIMULATED _____ PERFORATE _____
 FORMATION _____ PHYSICAL CHANGE IN WELL (SPECIFY) _____

JAN 2 1981

PLUS AND ABANDON _____ CLEAN OUT AND REFLAME _____
 TARGET FORMATION Duquesne, July ESTIMATED DEPTH 4500' 6-C WITH OUR
 WELL OPERATOR McPetroleum Co DESIGNATED ADDRESS Camp Cochr
 ADDRESS 113 S. Highway 92
6-0 Marshall, Ohio Williamsport, WV



IV-35
(Rev 8-8)

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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. #1 _____
Farm Dillon _____
API No. 47 - 095 - 0876DD

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 ___)

LOCATION: Elevation: 975 Watershed Camp Mistake
District: Centerville County Tyler Quadrangle West Union

COMPANY Appalacian Energy Development
ADDRESS PO Box 902 Belington WV
DESIGNATED AGENT George Williams
ADDRESS PO Box 902 Belington WV
SURFACE OWNER J Dillon
ADDRESS Box 27 Wilbur WV
MINERAL RIGHTS OWNER J Dillon
ADDRESS Box 27 Wilbur WV
OIL AND GAS INSPECTOR FOR THIS WORK Bob Lowther ADDRESS Middlebourne
PERMIT ISSUED 1-12-86
DRILLING COMMENCED 1-15-86
DRILLING COMPLETED 1-22-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

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		282	300sx
7			
5 1/2			
4 1/2		2420	250 sx
3		4925	2000' fill
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4900 feet
Depth of completed well 5375 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 4895-4994 feet
Gas: Initial open flow trace Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 45 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 350 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4434-4506 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 45 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.

Perforate Benson 4896-4904 (14 holes) Perforate Riley 4242-4506
 3 holes) Frac with 500 gal HCl 300 sks 20/40 100 sks 80/100
 591 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 Hole			0	2464	Benson 4894
shale /sand			2464	2880	
sand			2880	2890	
shale/sand			2890	4710	
sand			4710	4740	
shale			4740	<u>5375</u>	
404	2387				
813	3612				
522	4890				
825	5140				

new T.D. 5375
 old T.D. 2464
 new fig. 2971

(Attach separate sheets as necessary)

Appalachian Energy Dev. Inc.
 Well Operator
 By: George R. 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."

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IV-35
(Rev 8-81)

AUG 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 1-8-82
Operator's
Well No. # 1
Farm Jacob Dillon /Cotrill
API No. 47 - 095 - 0876

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: 975' Watershed Camp Mistake Run
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 Jacob Dillon/
ADDRESS Box 27, Wilbur, WV 26459
MINERAL RIGHTS OWNER Same as Above
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy
ADDRESS Rt. 23, Alma, WV
PERMIT ISSUED November, 1980
DRILLING COMMENCED 12-18-80
DRILLING COMPLETED 12-22-80
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

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	282	282	300 Sx
7			
5 1/2			
4 1/2	2420.	2420	250 Sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4500 feet
Depth of completed well 2464 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 Pay zone depth 2186-2294 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 6 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 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

AUG 23 1982

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
PERFORATED: 39 Shots from 2181 to 2258

FRAC'D:: 12-16-81:: Broke @ 2500: Ave. Pressure 2200: Ave. Rate 20 B.P.M.:
Fluid 290 Barrels: Sand 35,000#: ISI 2660 (5Min. 2600):::

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	15	
Blue Rock			15	30	
Red Rock			30	80	
Lime			80	100	
Sand Rock			100	115	
Lime			125	140	
Slate			140	145	
Slate			145	167	
Red Rock			167	195	
Slate			195	205	
Lime			205	210	
Slate			210	225	
Big Red			300	490	
1st Cow Run			490	500	
Shale			500	740	
Slate			740	860	
Sand			860	925	
W. Slate			925	1010	
Sand			1010	1030	
2nd Salt Sand			1030	1110	
Sand			1125	1135	
Slate			1135	1155	
Sand			1155	1175	
Slate			1175	1190	
Slate			1215	1275	
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	
Lime			1576	1589	
SEE ATTACHED					

more detailed than original -

(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering

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..."

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Shale & Lime	1623	1654	
Shale	1654	1689	
Slate	1689	1713	
Sandstone	1738	1800	
Big Lime	1818	1892	
Shale	1900	1946	
B. Injun Sand	1951	2024	
Siltstone	2024	2100	
Shale	2100	2160	
Weir Sand	2186	2294	Oil/Gas
Shale	2294	2350	
Berea Sand	2384	2387	
Sand	2387	2390	
Shale	2390	2464	

NOTE: NO LOGS OR SAMPLES WERE TAKEN ABOVE THESE DEPTHS.

--	--	--	--

(over)

AUG 23 1982

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

Quadrangle West Union

Permit No. 47-095-0876

Company L&M Petroleum Co.
Address Rt. #1, Box 18-B, Marietta, OH
Farm Jacob Dillon Acres 104.4
Location (waters) Camp Mistake Run
Well No. 1 Elev. 975'
District Centerville County Tyler
The surface of tract is owned in fee by _____
Jacob Dillon
Address Box 27, Wilbur, WV 26459
Mineral rights are owned by same as above
Address _____
Drilling Commenced 12/18/80
Drilling Completed 12/22/80
Initial open flow 150 cu. ft. _____ bbls.
Final production 100 cu. ft. per day _____ bbls.
Well open 6 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	282'	282'	300sx
7			
5 1/2			
4 1/2	2420.25	2420.25	250 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perfs: 39 shots from 2258-2181 *P.I. card into perf at 2186 to 2258*

Frac well on 12/16/81 using 35M# sand, 290BW; BD:2500; ATP:2200; RATE:20BPM; ISI:2660; 5 min; 2600

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Weir _____ Depth 2189-2294

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1818	1892	<i>oil/gas</i>	
Big Injun Sand			1951	2024		
Weir Sand			2186	2294		
Berea Sand			2384	2387		
TD.			2464			

NOTE: NO LOGS OR SAMPLES WERE TAKEN ABOVE THESE DEPTHS.

FEB 01 1982

(over)

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

FEB 9 1982

Date January 8, 19 82

APPROVED *Jan Kitting*, Owner

OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

Date: 11/6/80
Farm
Name: Jacob Dillon #1
API No. 47 - 095 0876
State County Perm

WELL TYPE: Oil / Gas /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /
LOCATION: Elevation: 975' Watershed: Camp Mistake Run
District: Centerville County: Tyler Quadrangle: West Union

WELL OPERATOR L&M Petroleum Co. DESIGNATED AGENT Joanne Cogan
Address Rt. 1, Box 18-B Address 113 Sherwood
Marietta, Ohio 45750 Williamstown, WV 26187

OIL & GAS
PROPERTY OWNER Jacob Dillon (42801) COAL OPERATOR None
Address Box 27, Wilbur, WV 26459 Address _____

ACREAGE 104.4 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Same as above

PROPERTY OWNER Same as above Address _____
Address _____
ACREAGE 104.4 Name NOV 21 1980

PROPERTY SALE (IF MADE) TO: Address _____
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name NA

PROPERTY AND GAS INSPECTOR TO BE NOTIFIED:
Name Phil Tracy 758-4573 Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease / other contract ___ / dated 12/12, 1972, to the undersigned well operator from Jacob Dillon made to Royal Resources (said deed, lease or other contract has been recorded:)

Recorded on _____, 19____, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 196, at page 302. 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 action they wish to make or are required to make by Code 522-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by 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 lessees on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
OFFICE OF OIL AND GAS
5 Washington Street, East
Martinsburg, West Virginia 25311

BLANKET BOND

By: Joanne Cogan *President*
L&M Petroleum Co.
Well Operator

PROPOSED WORK ORDER

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

DRIILLING CONTRACTOR (IF KNOWN): Address

GEOLOGICAL TARGET FORMATION, Devonain shale

Estimated depth of completed well, 4500 feet Rotary X / Cable tools / Approximate water strata depths: Fresh, salt, feet. Approximate coal seam depths: Is coal being mined in the area? Yes / No

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

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 drilling. This permit shall expire if operations have not commenced by 7-25-81

Signature of 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:

W A I V E R

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