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AUG - 1 1980

STATE OF WEST VIRGINIA

JUL 23 1980

OIL & GAS DIVISION
DEPT. OF MINES and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 14, 1980
Company L & M Petroleum Co.
Address Rt. #1, Box 18-8, Marietta, OH
Farm Lloyd W. Cross Acres 50
Location (waters) Gamble Run
Well No. 1 Elevation 1225'
District Lincoln County Tyler
Quadrangle Paden City

Surface Owner Lloyd W. Cross
Address Box 188, New Martinsville, WV
Mineral Owner Same
Address _____
Coal Owner Same
Address _____
Coal Operator None
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 4-4-81.

Fred W. Ruppel
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phillip Lee Tracy
ADDRESS Rt. #2, Alma, WV
PHONE 758-4573

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 12/21 1979 by L.W. Cross made to Loren Bagley and recorded on the 18 day of Jan. 1980 in Tyler County, Book 223 Page 110

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) [Signature]
Well Operator

Rt. #1, Box 18-8
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.

BLANKET BOND

12/22/2023

47-095-0823

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 _____

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name L&M Petroleum Co. Designated Agent Richard Hudson
Address Rt. #1, Box 18-B, Marietta Address Parkersburg, WV
Telephone 1-614-373-8771 Telephone 1-304-422-7208
Landowner Lloyd W. Cross Soil Cons. District Upper Ohio

Revegetation to be carried out by Upper Ohio S.C.D. (Agent)

This plan has been reviewed by Kenneth Mason SCD. All corrections
and additions become a part of this plan. 7/30/80 Kenneth R. Mason
(Date) (SCD Agent)

Access Road	Location
Structure <u>Culvert</u> (A)	Structure <u>N/A</u> (1)
Spacing <u>ONE ONLY</u>	Material <u> </u>
Page Ref. Manual <u>I-3</u>	Page Ref. Manual <u> </u>
Structure <u>N/A</u> (B)	Structure <u>N/A</u> (2)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u> </u>	Page Ref. Manual <u> </u>
Structure <u>N/A</u> (C)	Structure <u>N/A</u> (3)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u> </u>	Page Ref. Manual <u> </u>

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I	Treatment Area II
Lime <u> </u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>N/A</u> Tons/Acre or correct to pH <u> </u>
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u> </u> lbs/acre (10-20-20 or equivalent)
Mulch <u>HAY OR STRAW</u> Tons/Acre	Mulch <u> </u> Tons/Acre
Seed* <u>Ky 31, tall fescue 30</u> lbs/acre	Seed* <u> </u> lbs/acre
<u>Redstart tree tail 10</u> lbs/acre	<u> </u> lbs/acre
<u> </u> lbs/acre	<u> </u> lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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Attach or photocopy section of AUG - 8 1980 graphic map. Quadrangle Paden City

Legend:  Well Site
 Access Road

OIL & GAS DIVISION
DEPT. OF MINES

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OIL & GAS DIVISION
DEPT. OF MINES

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Oil and Gas Lease No. 31

AGREEMENT OF LEASE, Made this 21 day of DECEMBER A. D., 1979

between LLOYD WAYNE CROSS - LOTTIE CROSS of NEW MARTINS VILLE, WVA Lessor, and LOREN E. BAGLEY, RD 1, middlebourne, WVA Lessee

WITNESSETH, That the lessor, in consideration of FIVE, AND OTHER CONSIDERATION Dollars

the receipt whereof is hereby acknowledged, and the covenants and agreements hereinafter contained, with covenants for the lessee's quiet possession and enjoyment for the term and general warranty of title and the sole right to convey, does hereby grant, demise, lease and let unto the said lessee the following described tract of land, for the purpose and with the exclusive right to operate and drill for and produce oil, gas and gasoline thereon and therefrom, together with the right to lay and maintain pipe lines and erect and maintain

land alone and conjointly with neighboring lands for oil, gas and gasoline with the right to use water, oil and gasoline from said land, free of charge for such purposes; and ingress, egress and regress to and on said leasehold and all lands of said lessor for all of said purposes, and with the right of removing, either during or after the term hereof, all and any property, fixtures or improvements placed or erected in or upon said land by said lessee, and all other rights and privileges necessary for the proper use, enjoyment and operation of said land by said lessee; with the right of sub-dividing and releasing all that tract of land, situate in the Township of LINCOLN County of TYLER and State of WVA

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and bounded and described as follows, to-wit:

North by lands of LONNIE BILLITER East by lands of Wm FLUHARTY South by lands of CARL NOLAN - LOREN BAGLEY West by lands of CARL NOLAN - LOREN BAGLEY SNYDER AND HASSIG containing 50 acres, more or less

TO HAVE AND TO HOLD Unto and for the exclusive use of the lessee for the term of 1 years from the date hereof, and as much longer as oil, gas or gasoline can be produced in paying quantity, or the rental paid thereon, paying for or yielding to the lessor the one-eighth part of all oil produced and saved from the premises, delivered free of expense into tank or pipe lines to the lessor's credit. Should gasoline be manufactured from gas production on the premises hereby leased, the lessor shall receive one-eighth of the surplus gasoline thus manufactured and saved delivered in tanks provided by lessee on the premises, free of expense, or, one-eighth of the proceeds, less the cost of marketing the same, payable to the lessor semi-annually. The gasoline manufactured from gas produced on the premises hereby leased may be apportioned among several farms, according to the number of wells on each producing and supplying gas to the gasoline plant or plants. Should a well be found producing gas only, then the lessor shall be paid for each gas well at the rate of 1/8

MARKET VALUE Dollars for each year, so long as gas is sold therefrom, payable MONTHLY when so marketed.

Provided that this lease shall become null and void unless a well shall be commenced on the premises within 12 months from the date hereof, or unless lessee shall pay lessor at the rate of Dollars per in advance for each additional such commencement of said well is delayed.

The rents and royalties herein reserved shall include any rentals or interests in the oil and gas that may have been heretofore sold, reserved or conveyed by the lessor or his predecessors in title. Should the lessor not have title to all the oil and gas in and under the above described premises, lessor agrees to release the lessee from the payment of the rentals and royalties herein provided, in proportion to the outstanding interest.

In case the first well be dry or non-producing, this in itself shall not work a forfeiture of this lease, but lessee shall have the exclusive right to drill other wells during the term of this lease, both before and after oil or gas is found in paying quantity. Lessor is to fully use and enjoy said premises for the purpose of tillage, except such parts as may be used by lessee for purposes aforesaid. Lessee is not to put down a well on lands hereby leased within rods of buildings now on said premises without the consent of the lessor. If any operated well or wells on said premises produce sufficient surplus gas over and above the requirements of lessee for use in operations as herein provided, the lessor may have gas for heat and light for one family in one house on said premises, so long as lessee continues to operate said well or wells, the lessors making connections therefore at his own risk and expense at such point as may be from time to time designated by lessee, and using modern and economical appliances in consuming same. The above rental may be paid to lessor in person, or by a deposit to the credit

of lessor in Bank or by check deposited in post office directed to at County of State of at time said rentals become due

And it is further agreed that all conditions, terms and limitations between the parties hereunto shall extend to their heirs, executors and assigns.

IN WITNESS WHEREOF, We, the said parties hereto, have hereunto set out hands and seals the day and year first above written.

WITNESS Lloyd Wayne Cross (SEAL) Lottie Cross (SEAL)

This lease prepared by Loren E. Bagley.



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from L&M Petroleum Co. (the transferor) to James F. Doan (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) JAMES F. DOAN, (address) RT 1 BOX 141A MIDDLEBOURNE, W.VA 26149, is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. BOND ON FILE YOUR OFFICE (BLANKET)

(Transferee) James F. Doan

By James F. Doan

Its _____

Taken, subscribed and sworn to before me this 5th day of May 19 85

Notary Public Kay Louise Stewart

My commission expires October 1 19 85

(Transferor) L&M Petroleum Co.

By Norma Anderson

Its Norma Anderson, Asst. Secretary

Taken, subscribed and sworn to before me this 5 day of May 19 85

Notary Public Norma Anderson

My commission expires _____ 19 _____

NAOMA JEAN BRITTON, Notary Public
State of Ohio
My Commission Expires Aug. 3, 1988

ACCEPTED THIS 20 DAY OF MAY, 19 85

BY: [Signature]

Administrator-Office of Oil and Gas

12/22/2023

26910

13825

54

Form IV-77
Reverse
(9-84)

API (Permit) Number

Farm Name

Operator's Well Number

47 - 073 - 0788

George Bills

#1

47 - 095 - 0823

Lloyd Cross

#1

12/22/2023



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

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OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Paden City

Permit No. 47-095-0823

Company L&M Petroleum Co.
Address P.O. Box 89, Reno, OH 45773
Farm Lloyd Cross Acres 50
Location (waters) Gamble Run
Well No. 1 Elev. 1225
District Lincoln County Tyler
The surface of tract is owned in fee by _____
Lloyd W. Cross
Address Box 188, New Martinsville, WV
Mineral rights are owned by same as above
Address _____
Drilling Commenced 8/27/80
Drilling Completed 9/1/80
Initial open flow 75 cu. ft. 0 bbls.
Final production 50 cu. ft. per day 0 bbls.
Well open 8 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	250	250	125 sx
7			
5 1/2			
4 1/2	3804.81	3804.81	150 sx cmt.
3			
2			
Liners Used			

Well treatment details:

SEE ATTACHED

Attach copy of cementing record.

Driller: 3890'

Logger: 3890'

Coal was encountered at NA Feet _____ Inches _____
Fresh water NA Feet _____ Salt Water NA Feet _____
Producing Sand Gordon/Devonian Shale Depth 3081-3368'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	21		
Blue Rock			21	60		
Red Rock			60	80		
Lime			80	100		
Sand Rock			100	120		
Lime			120	135		
Lime			135	145		
Red Rock			145	195		
Slate			195	210		
Red Rock & Shale			210	305		
Big Red			315	400		
Sand			400	441		
Pink Rock			441	500		
Slate			500	540		
Sand			540	560		
Lime & Slate			560	635		
Red Rock			635	645		
Lime			645	665		
Slate			665	678		
Pink Rock			678	720		
Lime			720	743		
Slate			743	817		
Sand			817	890		
Slate			890	1025		

12/22/2023

TYLER - 0823

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1025	1033		
Slate			1033	1065		
Slate			1065	1109		
Sand			1109	1035		
Slate			1035	1072		
Sand			1072	1101		
Slate			1101	1155		
Sand			1155	1200		
Slate			1200	1230		
Sand			1230	1260		
Slate			1260	1273		
Sand			1273	1290		
Sand			1290	1343		
Slate			1343	1400		
Slate			1400	1500		
Sandstone			1500	1547		
Shale			1547	1560		
Limestone			1560	1590		
Shale			1590	1640		
Sandstone			1640	1700		
Shale			1700	1730		
Sandstone			1730	1771		
Shale			1771	1790		
Sandstone			1790	1812		
Shale			1812	2030		
Big Lime			2030	2086		
Limestone			2086	2136		
Big Injun			2136	2254		

SEE ATTACHED SHEET

12/22/2023

Joanne Cogan, Corp. Secretary

Date October 20, 19 82

APPROVED L&M Petroleum Co., Owner

CEMENTING REPORT

DATE: 9-2-80

WELL: L. W. Cross

PERMIT: 47-095-0823

COUNTY AND STATE: Tyler Co., W. Va.

DATE SPUDDED: 8/27/80

DATE CEMENTED: 9-2-80

TD: 3890

SAND: . Warren

CASING: 116 joints 4½ 3804.81'

FLOAT EQUIPMENT: Cement shoe w/latch-down recepticle
3 Centralizers (1, 5 & 10)
Cement Basket @ 2084

CEMENT JOB: 400# gel ahead of
150 SKS 50/50 Pozmix w/2% gel and 3% CaCl₂
150 SKS RFC w/10# Kolite per SACK

PLUG DISPLACEMENT:

- a) Fluid: 60.5 BBL
- b) Pressure: 1500 psig
- c) Circulation (cement to surface):

REMARKS:

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OIL & GAS DIVISION
DEPT. OF MINES

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L3M COMPLETION REPORT

WELL NAME & NO: Lloyd Cross

TOWNSHIP:

PARTNERSHIP: Derrick

COUNTY: Tyler, WV

DATE COMPLETED: 10/18/82

COMPLETION SUPERVISOR: Jerry James - Templeton & Assoc.

PERFORATION: 3081-84 (7-shots) 3092-93 (13-shots) 3117-23 (9-shots)
3180-81 (7-shots) 3314-22 (5 shots) 3352-68 (9-shots)

FORMATION FRACTURED: Gordon & Devonian Shale

BREAK DOWN PRESSURE: 2800 psig

AVERAGE TREATING PRESSURE: 3000 psig

AVERAGE RATE: 24MSCF/min

ISIP: 2350 psig -

5 MIN: 2200 psig

WATER: None

SAND: None

NITROGEN: 962MSCF

TYPE OF FRAC: Nitrogen

CONFIRMATION PHONE CALL:

REMARKS: 175psig when well opened up!

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DEPT. OF MINES

12/22/2023

SAMPLE DESCRIPTION

LLOYD W. CROSS

PERMIT # 47-095-0823

2254-2280 SANDSTONE & SHALE - A/AB NO FL
2280-2300 SANDSTONE - lt gy, v fn gr, arg, NO FL
2380-2400 SHALE - med gy, v silty, w/siltstone, NO FL
2400-20 SILTSTONE - lt gy, arg, V POOR FL
2420-60 SHALE - med gy, v silty w/tr siltstone
2460-70 SILTSTONE - lt gy, v shaley NO FL
2489-2580 Weir
2470-2500 SHALE w/siltstone, A/AB, NO FL
2500-20 SILTSTONE - lt gy, v arg, V POOR YELLOW-GREEN FL
2520-40 SHALE & SILTSTONE - NO FL
2540-50 SILTSTONE - lt gy, A/AB, V POOR YELLOW GREEN FL
2550-60 NO SAMPLE
2560-2600 SILTSTONE - lt gy, v arg, NO FL
2800-30 SHALE - red, med gy, silty
2830-40 SILTSTONE - red, lt gy, NO FL, w/shale, A/AB
2840-2980 SHALE - A/AB, tr siltstone - NO FL
3050-80 SHALE - med gy, sl silty
3080-3123 Gordon
3080-3100 SHALE - red, lt gy, w/siltstone - lt gy, NO FL
3100-30 SILTSTONE - lt gy, POOR FL
3130-50 SHALE - med gy, red, w/siltst-A/AB NO FL
3600-50 SHALE - lt gy, silty
3648-96 Warren
3650-3700 SILTSTONE - lt gy
3700-10 SILTSTONE - lt gy, A/AB, V POOR FL
3710- 3890 SILTSTONE & SHALE - NO FL

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State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
July 12, 1984

COMPANY L & M Petroleum Company
P. O. Box 89
Reno, Ohio 45773

PERMIT NO 095-0823 7/80
FARM & WELL NO Lloyd W. Cross #1
DIST. & COUNTY Lincoln/Tyler

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	✓	
25.04	Prepared before Drilling to Prevent Waste	✓	
25.03	High-Pressure Drilling	✓	
16.01	Required Permits at Wellsite	✓	
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing	✓	
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strenght	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.H. Lowther
DATE July 20, 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

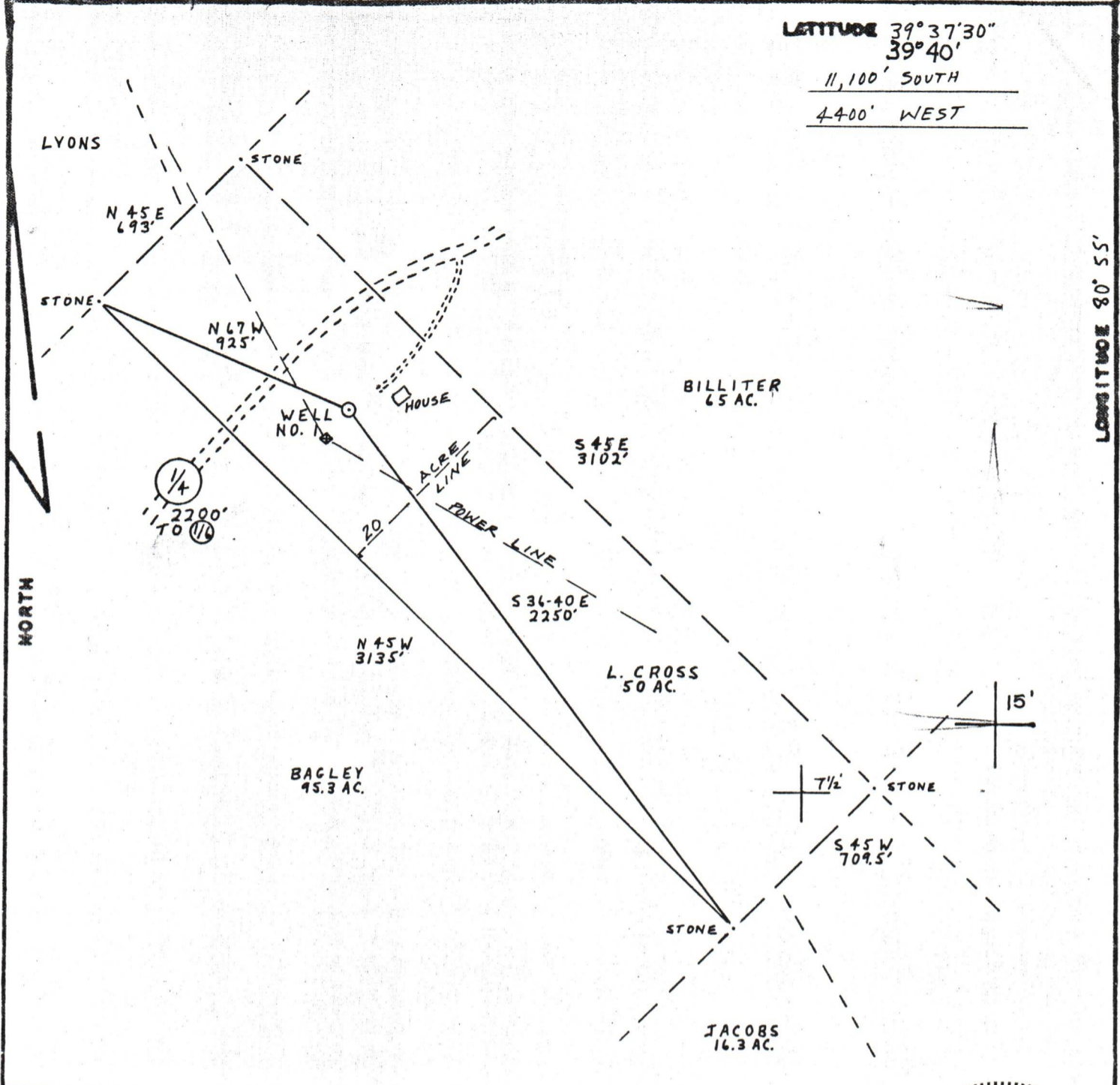
T.H. r. B.B.
Administrator-Oil & Gas Division

August 13, 1984
DATE

4-55

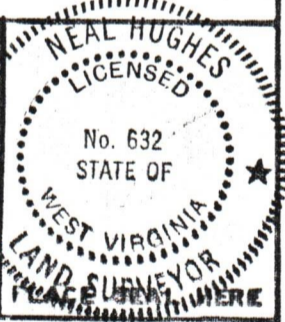
LATITUDE 39°37'30"
39°40'
11,100' SOUTH
4,400' WEST

LONGITUDE 80°55'



FILE NO. L+M L. CROSS
 DRAWING NO. 1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BUCK KNOB 1345'

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 July 3, 19 80
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-095-0823
 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 1225' WATER SHED GAMBLE RUN
 DISTRICT LINCOLN COUNTY TYLER
 QUADRANGLE PADEN CITY 7 1/2' NEW MARTINSVILLE 15'
 SURFACE OWNER LLOYD W. CROSS ACREAGE 50
 OIL & GAS ROYALTY OWNER LLOYD W. CROSS LEASE ACREAGE 50 LEASE NO. _____ DATE 12/22/2023
 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 ESTIMATED DEPTH 3400'
 WELL OPERATOR L+M Petroleum Co. DESIGNATED AGENT Richard Hudson
 ADDRESS Marietta, Ohio ADDRESS PARKERSBURG, WVA.