



Well No. 1
Farm Carpenter/Hart
API # 47-073-1448
Date 3/9/82

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /

LOCATION; Elevation: 987 Watershed: Cow Creek
District: Jefferson County: Pleasants Quadrangle: Schultz

WELL OPERATOR L&M Petroleum Co.
Address P.O. Box 89
Reno, Ohio 45773

DESIGNATED AGENT David Clovis
Address Box 288
Parkersburg, WV 26101

OIL AND GAS ROYALTY OWNER see attached
Address _____

COAL OPERATOR none
Address _____

Acreage 49

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME na
Address _____

SURFACE OWNER see attached
Address E. Dennis
Route 3
Acreage Shultz W. Va
28 acres

NAME na
Address _____

FIELD SALE (IF MADE) TO:
NAME na
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME na
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Robert A. Lowther
Address General Delivery
Middlebourne, WV 26149
Telephone 758-4764

RECEIVED

MAR 12 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease / other contract ___ / dated ____, 19__, to the undersigned well operator from see attached.

(If said deed, lease, or other contract has been recorded:)

Recorded on ____, 19__, in the office of the Clerk of County Commission of _____ County, West Virginia, in _____ Book at page _____. 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 receipt of this Application by the Dept. 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 Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone: 324/348-3882

BLANKET BOND

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

(Revised 3-81)

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 Upper Devonian/Hampshire formation

Estimated depth of completed well 4500 feet. Rotary x / Cable tools /

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

Approximate coal seam depths:

Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM ✓

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drill-ling			Left in Well
Conductor	8 5/8			x		450	450	200 sx	Kinds
Fresh water									
Coal									Sizes
Intermed.									
Production Tubing	4.5			x		4500	4500	450 sx	Depths set
Liners									or as req. by sec. 15.01
									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,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling **. THIS PERMIT SHALL EXPIRE**

IF OPERATIONS HAVE NOT COMMENCED BY 11-16-82 **/**

BY [Signature]

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 regularions.

Date: , 19 .

By: _____

Its: _____

OIL & GAS ROYALTY INTEREST OWNERS - CARPENTER/HART #1 WELL

Martha (Hart) Oliver &
Ermaleen Hart &
Leonard & Doris Hart
110 George Street
St. Marys, WV 26170

Book #165, Page #367

J. Franklin Carpenter
400 Morgan Avenue
St. Marys, WV 26170

Book #148, Page #460

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MAR 12 1982

OIL AND GAS DIVISIO
WV DEPARTMENT OF MINE

DEPARTMENT OF MINES AND GEOLOGICAL SURVEY
REPORT OF INVESTIGATION

1. Introduction
2. Description of the Mine
3. Geology
4. Structure
5. Ventilation
6. Safety
7. Health
8. Conclusions
9. Recommendations

10. Appendix
11. Bibliography
12. Plates
13. Figures
14. Tables
15. Index

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JUN 10 1913
DEPT. OF MINES
OF & GAS DIVISION



1) Date: June 7, 19 83
 2) Operator's Well No. Carpenter/Hart #1
 3) API Well No. 47 073 1448-FRAC
 State County Permit

DRILLING CONTRACTOR:

NA

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 987 Watershed: Cow Run
 District: Jefferson County: Pleasants Quadrangle: Schultz
 6) WELL OPERATOR L&M Petroleum Co. 11) DESIGNATED AGENT Don Berry
 Address P.O. Box 89, Reno, OH 45773 Address Main St., Middlebourne, WV
614-373-8771 304-758-4044
 7) OIL & GAS ROYALTY OWNER See attached 12) COAL OPERATOR NA
 Address Address
 Acreage 49
 8) SURFACE OWNER see attached 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Name NA
 Acreage Address
 Name NA
 9) FIELD SALE (IF MADE) TO: Address
 Address NA
 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Lowther Address
 Address General Delivery, Middlebourne, WV
758-4764

RECEIVED

JUN - 8 1983

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

- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation XXXX / Perforate new formation
 Other physical change in well (specify)
 16) GEOLOGICAL TARGET FORMATION, Lower Mississippian/BEREA
 17) Estimated depth of completed well, 2000 feet
 18) Approximate water strata depths: Fresh, NA feet; salt, NA feet.
 19) Approximate coal seam depths: NA Is coal being mined in the area? Yes / No

20) 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		
Conductor	<u>11 3/4</u>	<u>(all ready in place)</u>	<u>325</u>			<u>325</u>	<u>330</u>	Kinds
Fresh water								
Coal								Sizes
Intermediate	<u>8 5/8</u>	<u>(all ready in place)</u>	<u>1948</u>			<u>1948</u>	<u>110</u>	
Production						<u>5125</u>	<u>5125</u>	Depths set <u>OLCAS 254 by 1501</u>
Tubing						<u>(We plan to set a bridge plug at 2000')</u>		
Liners						<u>& reperfr & frac well</u>		Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1(c) (1) through (4). (See reverse side for specifics.)
 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)
 24) 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.

Notary: [Signature]
 My Commission Expires 8/2/83

Signed: [Signature]
 Its: Norma Anderson/Asst. Secretary

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-073-1448-FRAC Date June 30 19 83

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. 10) 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.)

Permit expires March 1, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>375</u>
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[Signature]
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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.**

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 _____

L&M ASSOCIATES, INC.

TO

L&M PETROLEUM CO.

RECEIVED

JUN - 8 1983

OIL & GAS DIVISION
DEPT. OF MINES

KNOW ALL MEN BY THESE PRESENTS:

That Charles Figge, President of L&M Associates, Inc., P O Box 89, Reno, OH 45773, for One Dollar (\$1.00) and other valuable consideration the receipt of which is hereby acknowledged does hereby sell, assign, transfer, and set over unto

L&M PETROLEUM CO.
P O Box 89
Reno, OH 45773

all their right, title, and interest in and to the following described Oil and Gas Leases:

Oil and Gas Leases unitized into a consolidation agreement dated September 13, 1982, as recorded in Pleasants County Deed Book 178, Page 53.

This assignment is made without Warranty of Title, expressed or implied.

WHEREFORE, this instrument has been executed this 28th day of February, 1982.

WITNESSES:

Norma Anderson

Sandra Joseph

Charles Figge

Charles Figge, President
L&M Associates, Inc.

STATE OF OHIO

ss

COUNTY OF WASHINGTON

On this 28th day of February, 1982, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Charles Figge who acknowledged that he did execute the foregoing instrument and that same was his free act and deed.

Naoma Jean Britton
NOTARY PUBLIC

PREPARED BY: L&M Operating, Inc.
P O Box 89
Reno, OH 45773

NAOMA JEAN BRITTON
Notary Public, Washington Co., Ohio
My Commission Expires Aug. 2, 1983

KNOW ALL MEN BY THESE PRESENTS:

BOOK 178 PAGE 53

That L&M Associates, Inc., P O Box 89, Reno, OH 45773, the contractual owners and holders of the Lessees' interest under the Oil and Gas Leases hereinafter described, do hereby elect to pool and unitize all or part of the lands covered by each of said oil and gas leases to form a drilling and/or production unit of 100 acres, more or less. Said leases are incorporated herein by reference and are made a part of hereof and are described as follows:

Oil and Gas Lease from J. Franklin Carpenter and Ellen Carpenter, husband and wife, dated September 29, 1977, as recorded in Pleasants County Deed Book 151, Page 142, covering 92 acres, more or less, 50 acres which are herein unitized.

Oil and Gas Lease from Leonard and Doris Hart, husband and wife, dated September 17, 1979, as recorded in Pleasants County Deed Book 153, Page 605; Oil and Gas Lease from Thomas H. and Mae Hammett, husband and wife; Ellen G. Hammett, single; Marquerite Hammett, widow and Annie C. and George Shrier, husband and wife, dated September 24, 1979, as recorded in Pleasants County Deed Book 153, Page 605; Oil and Gas Lease from Helen and Merle Davis, husband and wife, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 639; Oil and Gas Lease from Sheila and John Myers, husband and wife, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 641; Oil and Gas Lease from Agnes and Fred Vernet, husband and wife, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 643; Oil and Gas Lease from John T. and Nova Nole, husband and wife, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 645; Richard Nole, single, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 647; Oil and Gas Lease from Savilla Nole, widow, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 649; Oil and Gas Lease from Edward and Violet Irene Nole, husband and wife, dated March 17, 1982, as recorded in Pleasants County Deed Book 173, Page 651; Oil and Gas Lease from Robert Hammett, dated September 4, 1982, as received for recording on September 13, 1982, at the Pleasants County Recorders Office and being recorded in Deed Book 177, Page 629; said leases covering the same 50 acres, more or less, all of which are herein unitized.

The unit herein created of 100 acres in Jefferson District, Pleasants County, West Virginia, is further described on the survey plat which is attached hereto as Exhibit "A" and made a part hereof. Should it subsequently be determined by L&M Associates, Inc., that the title of any lease which has been unitized by this agreement is defective; and if such defective title cause additional leases not to be contiguous to the lease on which the well is drilled, the amount of acreage in this unit will be decreased to the extent of such defective title or titles caused not to be contiguous to the lease on which a well will be drilled, including leases disqualified as a result of defective title and the royalty divided on a pro-rata basis between the remaining members of the unit.

In accordance with the terms and conditions of the aforesaid Oil and Gas Leases, the distribution of the landowners' one-eighth (1/8th) royalty interest is to be as follows, but may be changed should title on other leases fail:

J. Franklin Carpenter	1/2 of 50.00/100.00 of 1/8th =	3.1250%
Leonard & Doris Hart	1/2 of 50.00/100.00 of 1/8th =	3.1250%
Leonard & Doris Hart	1/2 of 50.00/100.00 of 1/8th =	3.1250%
Marguerite L. Hammett	1/16 of 50.00/100.00 of 1/8th =	.3906%
Thomas N. Hammett	1/16 of 50.00/100.00 of 1/8th =	.3906%
Ellen G. Hammett	1/16 of 50.00/100.00 of 1/8th =	.3906%
Annie C. Shrier	1/16 of 50.00/100.00 of 1/8th =	.3907%

CONSOLIDATED AGREEMENT FOR THE CARPENTERS' HART UNIT

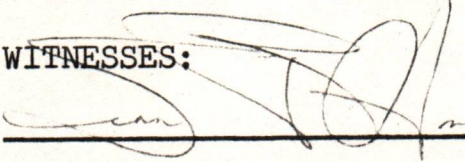
BOOK 178 PAGE 54

Edward F. Nole	1/8 of 50.00/100.00 of 1/8th =	.7812%
Savilla J. Nole	1/8 of 50.00/100.00 of 1/8th =	.7813%
	<u>100.00/100.00 of 1/8th =</u>	<u>12.5000%</u>

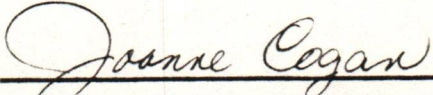
The undersigned reserve the right to alter, amend or cancel this unit at anytime.

IN WITNESS WHEREOF, this instrument has been executed this 13th day of September, 1982.

WITNESSES:



 Naoma Anderson



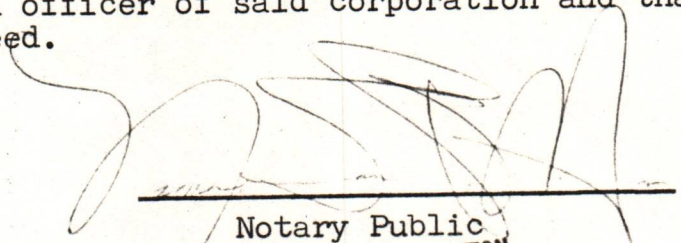
 Joanne Cogan, Secretary
 L&M Associates, Inc.

STATE OF OHIO

ss:

COUNTY OF WASHINGTON

On this 13th day of September, 1982, before me, the undersigned a Notary Public in and for said County and State, personally appeared Joanne Cogan who acknowledged that she did execute the foregoing instrument as said officer of said corporation and that same was her free act and deed.



 Notary Public
 NAOMA JEAN BRITTON
 Notary Public, Washington Co., Ohio
 My Commission Expires Aug. 2, 1983

Prepared by L&M Operating, Inc.
P O Box 89
Reno, OH 45773

RECEIVED
JUN - 8 1983

OIL & GAS DIVISION
DEPT. OF MINES

DIVISION OF DOW CHEMICAL U.S.A.
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

OILFIELD SERVICES
MINING SERVICES
INDUSTRIAL SERVICES

DOWELL SERVICE ORDER
RECEIPT AND INVOICE NO.

CORRESPONDENCE:
P.O. BOX 4378
HOUSTON, TEXAS 77210

REMITTANCE:
P.O. BOX 100344
HOUSTON, TEXAS 77212

DOWELL SERVICE LOCATION NAME AND NUMBER

Glennville WV 01-12

01-12-0024

CUSTOMER NUMBER
793060

CUSTOMER P.O. NUMBER
Verbal

TYPE SERVICE CODE
285

BUSINESS CODES

CUSTOMER'S NAME

L & M PETROLEUM

WORKOVER
NEW WELL
OTHER

API OR IC NUMBER
1448

ADDRESS

P.O. Box 89

CITY, STATE AND ZIP CODE

RENO, OH. 45723

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE LOCATION MO DAY YR TIME
9 25 82 0330

DOWELL shall furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DOWELL INDUSTRIAL SERVICE CONTRACT NO.

Cement 4 1/2 Casing to 5130 FT w/
450 SK 50% Poz. w/ 4% Geh, 2% Cacha, 10 # Kolite 1/8 # Flake
125 SK REC 1 1/2 w/ # Kolite
500 # Geh

SERVICE ORDER I authorize work to begin per service instructions in accordance with terms and conditions printed on the reverse side of this form and represent that I have authority to accept and sign this order.

CUSTOMER AUTHORIZED AGENT
[Signature]

JOB COMPLETION MO DAY YR TIME
9 25 82 0724

SERVICE RECEIPT I certify that the materials and services listed were received and all services performed in a workmanlike manner.

STATE

WV CODE 47 COUNTY / PARISH Pleasants CODE 073 CITY Schultz

CUSTOMER AUTHORIZED AGENT
[Signature]

WELL NAME AND NUMBER / JOB SITE

CARPENTER / HART # 1

LOCATION AND POOL / PLANT ADDRESS

Jefferson Dist.

SHIPPED VIA
Dowell Units

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
00407-002	2% Bentonite Blends	cu ft	450	N/C	N/C
00407-002	2% Bentonite Blends	cu ft	450	2.55	1147.50
00423-011	REC 1 1/2	SK	125	9.45	1181.25
40001-000	Neaf Cement	SK	225	5.60	1260.00
44003-025	Cello Flake	lb	50	1.13	56.50
45003-000	Litopoz 3	cu ft	225	2.15	483.75
45014-002	Bentonite	lb	500	.12	60.00
45019-050	Kolite	lb	1750	.135	2012.50
67005-102	Calcium	lb	800	.27	216.00
43006-006	S.P. Cementer	EA	1	1150.00	1150.00
43006-006	S.P. Cementer Base charge	EA	1	1150.00	1150.00
44100-000	Additional Depth to 5130	period	2	13.00	26.00
49102-001	Service charge	EA	756	1.91	687.96
49102-001	Hauling 89, 40 lbs 30 mi	T/M	899	.75	674.25
59200-001	Mileage pumps	mi	30	2.15	64.50
00401-002	2% Bentonite Blended	cu ft	450	1.35	157.50

THANK YOU

SUB TOTAL \$ 48030.24

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

Mileage from Reno, OH to 30 mi

STATE	WV	% TAX ON \$	669.671
COUNTY	SE	% TAX ON \$	1176.00
CITY		% TAX ON \$	
DOWELL REPRESENTATIVE		TOTAL \$	50000

DIVISION OF DOW CHEMICAL U.S.A.
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

OILFIELD SERVICES
MINING SERVICES
INDUSTRIAL SERVICES

DOWELL SERVICE ORDER
RECEIPT, AND INVOICE NO.
91-12-99416

CORRESPONDENCE:
P.O. BOX 4378
HOUSTON, TEXAS 77210
CUSTOMER NUMBER
711060

REMITTANCE:
P.O. BOX 100344
HOUSTON, TEXAS 77212
CUSTOMER P.O. NUMBER
Verba!

DOWELL SERVICE LOCATION NAME AND NUMBER
Columville 0112
TYPE SERVICE CODE
275
BUSINESS CODES
N/A

CUSTOMER'S NAME
L & M Petroleum Co.
ADDRESS
20. Box 99
Rm 40
CITY, STATE AND ZIP CODE
01120 45773

WORKOVER W
NEW WELL N
OTHER
API OR IC NUMBER
1448

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE LOCATION MO. DAY YR. TIME
9 13 82 1050

DOWELL shall furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DOWELL INDUSTRIAL SERVICE CONTRACT NO.

Cement 325' of 11 3/4" casing using Itawa 3000

SERVICE ORDER I authorize work to begin per service instructions in accordance with terms and conditions printed on the reverse side of this form and represent that I have authority to accept and sign this order.

CUSTOMER AUTHORIZED AGENT
[Signature]

JOB COMPLETION MO. DAY YR. TIME
7 13 82 1045

SERVICE RECEIPT I certify that the materials and services listed were received and all services performed in a workmanlike manner.

STATE CODE COUNTY / PARISH CODE CITY
LA 047 Plaquemine LA Abbeville

CUSTOMER AUTHORIZED AGENT
[Signature]

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS
Columville - Unit #1 Cold Creek Taffery Unit

SHIPPED VIA
Dowell

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
45001-500	Best Cement	SB	330	5.60	1848.00
45014-502	D-10 Bentonite	LB	500	.12	60.00
51003-035	3/4" C.F. Pipe	EA	100	342.00	34200.00
50003-035	3/4" Cement Grout	EA	1	180.00	180.00
56011-035	3/4" Cement Grout	EA	3	50.00	150.00
53011-116	11 3/4" Cement Grout	EA	2	71.00	142.00
56003-116	11 3/4" Cement Grout	EA	1	510.02	510.02
56012-116	11 3/4" Cement Grout	EA	1	135.00	135.00
59066-000	Wireline	EA	1	125.00	125.00
07205-100	S-1 Pulley	EA	1	272.00	272.00
48003-006	Depth 0-500'	EA	1	410.00	410.00
44100-000	Service Charge	CHG	350	.91	317.50
44102-000	Delivery Charge	CHG	523	.75	392.25
54200-001	Challenge	CHG	35	2.15	75.25

RECEIPT

Thank you

SUB TOTAL 4723.84

LICENSE/REIMBURSEMENT FEE

REMARKS: M. Large From Katerburg - 35
STATE MS - C % TAX ON \$ 428.975 - 0 -
COUNTY SS - C % TAX ON \$ 440.000 - 0 -
CITY % TAX ON \$
DOWELL REPRESENTATIVE TOTAL \$

CEMENTING SERVICE REPORT

DWL-496-M PRINTED IN U.S.A.

DOWELL DIVISION OF DOW CHEMICALS
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

TREATMENT NUMBER **0712-9978** DATE **9/21/82**
STAGE **1** DOWELL DISTRICT **GLENNVILLE, WV**

WELL NAME AND NO. **CARPENTER/HART #1** LOCATION (LEGAL) **SCHULTZ**
FIELD POOL **COW CREEK** FORMATION _____
COUNTY/PARISH **PLEASANTS** STATE **WEST VIRGINIA** API NO. **1448**
OWNER **L & M PETROLEUM**

RIG NAME: **BILL PUTMAN RIG**
WELL DATA:
BIT SIZE **10 5/8** CSG/LINER SIZE **8 7/8**
TOTAL DEPTH **2130** WEIGHT **24**
 ROT CABLE TOP **R.B.**
MUD TYPE BOTTOM **1778**
 BHST BHCT GRADE **8 7/8 NEW**
MUD DENSITY _____ THREAD **8 RD**

SPECIAL INSTRUCTIONS
CEMENT 8 7/8" CASING AS PER CUSTOMER INSTRUCTIONS.

HEAD & PLUGS TBG D.P. SQUEEZE JOB
 DOUBLE WEIGHT TOOL TYPE
 SINGLE GRADE DEPTH
 SWAGE THREAD TAIL PIPE: SIZE DEPTH
 KNOCKOFF NEW USED TUBING VOLUME Bbls
TOP R W DEPTH CASING VOL. BELOW TOOL Bbls
BOT R W DEPTH TOTAL Bbls
ANNUAL VOLUME Bbls

PRESSURE LIMIT **1000** PSI BUMP PLUG TO **1000** PSI
ROTATE _____ RPM RECIPROCATE _____ FT NO. OF CENTRALIZERS **3**

SHOE FLOAT TYPE _____ DEPTH _____
STAGE TOOL TYPE **FLAPPER FLOAT** DEPTH **1943'**

JOB SCHEDULED FOR TIME: **1200** DATE: **9/21/82** ARRIVED ON LOCATION TIME: **1200** DATE: **9/21/82** LEFT LOCATION TIME: **2030** DATE: **9/21/82**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
1200								PRE-JOB SAFETY MEETING @ ARDNE LOCATION
1730								SPOT TRUCKS, HOOK-UP, PRE JOB MEETINGS
1816		0-250	20	0	4-6	H ₂ O 3.32		START 5% KCl SOLN
1820		0-250	10	20	4-6	H ₂ O 3.32		KCl SOLN IN, START H ₂ O
1822		0-250	10	30	4-6	SPACER 7.00		H ₂ O IN, START SPACER W/15% KCl & 1/4" FLAKE
1826		0-250	175	40	4-6	H ₂ O 3.32		SPACER IN, START H ₂ O
1858		0-250	95	210	4-6	CMT 14.0		H ₂ O IN, START POZ CEMENT
1920		0-250	23	310	4-6	CMT 15.4		POZ CMT IN, START NEAT CMT
1924				333				CMT IN, SHUT DOWN, DROP PLUG
1953		1000		457				START DISPLACEMENT
1954								DISPLACEMENT IN, BUMP PLUG
								SHUT DOWN, BLEED LINES, FLAPPER HOLDIN
								RACK-UP, WASH-UP
								LEAVE LOCATION

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	335	1.24	50/50 POZ, 2% GEL, 2% CaCl ₂ , 1/4" FLAKE/SK		95	14.3
2.	110	1.18	CLASS A NEAT, 3% CaCl ₂ , 1/4" FLAKE/SK		23	15.6
3.						
4.						
5.						
6.						

BREAKDOWN FLUID: TYPE _____ VOLUME _____ DENSITY _____ PRESSURE MAX: **1000** MIN: **0**
 RESTRICTION SQ. RUNNING SQ. CIRCULATION LOST YES NO CEMENT CIRCULATED TO SURE **24 BBL** YES NO
 BREAKDOWN _____ PSI FINAL _____ PSI DISPLACEMENT VOL. **124** Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 WASHED THRU PERFS YES NO TO _____ FT MEASURED DISPLACEMENT WIRELINE GAS INJECTION WILDCAT
 PERFORATIONS: _____ TO _____ CUSTOMER REPRESENTATIVE _____ DOWELL SUPERVISOR _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Schultz
Permit No. 47-073-1448

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

Company L&M Petroleum Co.
Address P.O. Box 89, Reno, OH 45773
Farm Carpenter/Hart #1 Acres 100
Location (waters) Cow Creek
Well No. 1 Elev. 987
District Jefferson County Pleasants
The surface of tract is owned in fee by _____
E. Dennis
Address St. Marys, WV 26170
Mineral rights are owned by See attached
_____ Address _____
Drilling Commenced 9/16/82
Drilling Completed 9/24/82
Initial open flow 150 cu. ft. 0 bbls.
Final production 100 cu. ft. per day 0 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" 1 1/4	325'	325'	330 sx
9 5/8			
8 5/8	1948	1948	110 sx
7			
5 1/2			
4 1/2	5125	5125	225 sx
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well frac'ed 10/25/82 using 1,200,000 scf Nitrogen: BD:2000; ATP:2400;
~~XX~~ RATE: 39MSCF/min; ISI:1750; 5 Min: 1700
Perfs: 6 shots from 4276-4286; 51 shots from 4300' to 4344'

Coal was encountered at na Feet _____ Inches
Fresh water na Feet _____ Salt Water _____ Feet _____
Producing Sand Gordon/Devonian Shale Depth 4276-4344

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	23		
Blue Rock			23	45		
Red Rock			45	90		
Lime			90	103		
Sand Rock			103	119		
Lime & Shell			119	138		
Slate			138	151		
Lime Shells			151	172		
Slate			172	187		
Red Slate			187	204		
Slate			204	215		
Lime Shells			215	233		
Slate			233	255		
Red Slate			255	271		
Slate			271	300		
Sand			300	315		
Slate			315	344		
Red Rock			344	390		
Sand			390	411		
Slate			411	450		
Red Rock			450	503		
Sand			503	525		
Slate			525	563		
Red Rock			563	587		
White Shells			587	608		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			608	700		
White Slate			700	734		
Sand			734	771		
Red Rock			771	819		
Black Shale			819	839		
White Slate			839	903		
Sand			903	944		
Pink Rock			944	976		
Sand			976	1002		
White Slate			1002	1031		
Pink Rock			1031	1055		
Lime			1055	1073		
Slate			1073	2004		
Lime			2004	2067		
Sand			2067	2100		
SEE ATTACHED STRATAGRAPH LOG						

Date 10/25, 19 82

APPROVED L&M Petroleum Co., Owner

Joanne Cogan: Joanne Cogan



RECEIVED

FEB 14 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Schultz
Permit No. 47-073-1448

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

Company L&M Petroleum Co.
Address P.O. Box 89, Reno, OH 45773
Farm Carpenter/Hart #1 Acres 100
Location (waters) Cow Creek
Well No. 1 Elev. 987
District Jefferson County Pleasants
The surface of tract is owned in fee by E. Dennis
Address St. Marys, WV 26170
Mineral rights are owned by See attached
Address _____
Drilling Commenced 9/16/82
Drilling Completed 9/24/82
Initial open flow 150 cu. ft. 0 bbls.
Final production 100 cu. ft. per day 0 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" 11 3/4	325'	325'	330 sx
9 5/8			
8 5/8	1948	1948	110 sx
7			
5 1/2			
4 1/2	5125	5125	225 sx
3			
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Well frac'ed 10/25/82 using 1,200,000 scf Nitrogen: BD:2000; ATP:2400;
~~TX~~ RATE: 39MSCF/min; ISI:1750; 5 Min: 1700
Perfs: 6 shots from 4276-4286; 51 shots from 4300' to 4344'

Coal was encountered at na Feet _____ Inches
Fresh water na Feet _____ Salt Water _____ Feet _____
Producing Sand Gordon/Devonian Shale Depth 4276-4344

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	23		
Blue Rock			23	45		
Red Rock			45	90		
Lime			90	103		
Sand Rock			103	119		
Lime & Shell			119	138		
Slate			138	151		
Lime Shells			151	172		
Slate			172	187		
Red Slate			187	204		
Slate			204	215		
Lime Shells			215	233		
Slate			233	255		
Red Slate			255	271		
Slate			271	300		
Sand			300	315		
Slate			315	344		
Red Rock			344	390		
Sand			390	411		
Slate			411	450		
Red Rock			450	503		
Sand			503	525		
Slate			525	563		
Red Rock			563	587		
Slate			587	608		

PLEAS. 1746

* Indicates Electric Log tops in the remarks section. (over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			608	700		
Shale			700	800		
Shale			800	840		
Shale			840	900		
Shale			900	930		
Shale			930	990		
A.A.			990	1050		
Sandstone			1050	1100		
S.D.			1100			
Sandstone			1200	1290		
A.A.			1300	1390		
Sandstone			1400	1490		
Sandstone			1500	1590		
Shale			1600	1690		
Sandstone			1700	1790		
Shale			1800	1890		
Shale			1890	2000		
Shale			2230	5125 - TD		

Date February 10, 1983

APPROVED L&M Petroleum Co., Owner
 Norma Anderson: Norma Anderson

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

INSPECTOR'S WELL REPORT

Permit No. 073-1448

Oil or Gas Well _____
(KIND)

Company LTM petroleum
 Address Reno Ohio
 Farm Carpenter/Hart (Dennis)
 Well No. 1
 District Jefferson County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth 340
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			Size of _____
<u>11 3/4</u>	<u>325</u>	<u>325</u>	Depth set _____
8 1/4			Perf. top _____
6 3/8			Perf. bottom _____
5 3/16			Perf. top _____
3			Perf. bottom _____
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED 11 3/4 SIZE 325 No. FT. 9-18-82 Date
 NAME OF SERVICE COMPANY Dowell

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Cemented with 330 SFS Cement
Cement Returned to surface

RECEIVED

SEP 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Sept 18-82
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

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

RECEIVED
SEP 16 1982

INSPECTOR'S WELL REPORT

Permit No. 073-1448

OIL & GAS DIVISION
DEPT. OF MINES

Company <u>LPM petroleum</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Reno Ohio</u>	Size			
Farm <u>Dennis</u>	16			Kind of Packer
Well No. <u>1</u>	13			Size of
District <u>Jefferson</u> County <u>pleasants</u>	10			
Drilling commenced	8 1/4			Depth set
Drilling completed	6%			
Date shot	5 3/16			Perf. top
Initial open flow	3			Perf. bottom
Open flow after tubing	2			Perf. top
Volume	Liners Used			Perf. bottom
Rock pressure	CASING CEMENTED	SIZE	No. FT.	Date
Oil	NAME OF SERVICE COMPANY			
Fresh water	COAL WAS ENCOUNTERED AT	FEET	INCHES	
Salt water		FEET	INCHES	
		FEET	INCHES	

Drillers' Names

violation Failure to notify Inspector before starting
Remarks: Permitted work, my yost notified me and problems
is taken care of

9-14-82

DATE

R. A. Lowther

DISTRICT WELL INSPECTOR

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

RECEIVED

SEP 24 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1448

Oil or Gas Well _____
(KIND)

Company <u>LOM Petroleum</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Reno Ohio</u>	Size			
Farm <u>Carpenter/Hart (Dennis)</u>	16			Kind of Packer
Well No. <u>1</u>	13			Size of
District <u>Jefferson</u> County <u>Pleasant</u>	10	1947	1947	
Drilling commenced _____	8 1/4			Depth set
Drilling completed _____ Total depth <u>2130</u>	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Block pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>8 5/8</u> SIZE <u>1947</u> No. FT. <u>9-21-82</u> Date			
_____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>Dowell</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: cemented with 335 SFS 50/50 Pas 2% cel
2% calcium Ch. 1/4 lb cello Flake Per SK cement
110 SFS Class A neat 3% calcium Ch 1/4 lb celloflake Per
SK cement
9-21-82

R.A. Lowther

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

RECEIVED

MAY 15 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1448

Oil or Gas Well _____
(KIND)

Company L & M petroleum
 Address Reno, Ohio
 Farm Carpenter-Hart
 Well No. 1
 District Jefferson County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____
 Remarks: OK to Release

11-10-82
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

RECEIVED

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

DEC - 7 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1448

Oil or Gas Well _____
(KIND)

Company L & M petroleum
 Address Reno, O.
 Farm Carpenter-Hart
 Well No. _____
 District Jefferson County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: OK to Release

12-2-82
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

January 21, 1983

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

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:


<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
PLEAS-G859	Jimmie A. Powell, #3	Union
PLEAS-1288	Crawford Delong, #1	Washington
PLEAS-1373	Arlington Shultz, #3	Union
PLEAS-1448	Carpenter/Hart, #1	Jefferson

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

TMS/

<p>1.0 API well number: (If not assigned, leave blank. 14 digits.)</p>	<p><u>47 -073 -2-1448 - 0000</u></p>				
<p>2.0 Type of determination being sought (Use the codes found on the front of this form.)</p>	<p><u>103</u> Section of NGPA</p>	<p><u>NA</u> Category Code</p>			
<p>3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p><u>5125</u> feet</p>	<p>MAR 7 1983</p>			
<p>4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)</p>	<p><u>L&M Petroleum Co.</u> COLUMBIAN GAS DIVISION 023971</p> <p>Name <u>P.O. Box 89</u> STATE OF MINN. 023971</p> <p>Street <u>Reno</u></p> <p>City <u>OH</u> <u>45773</u></p> <p style="text-align: right;">State <u>OH</u> Zip Code <u>45773</u></p>				
<p>5.0 Location of this well. (Complete (a) or (b).)</p> <p>(a) For onshore wells (35 letters maximum for field name.)</p>	<p><u>NA</u></p>				
<p>(b) For OCS wells:</p>	<p>Field Name <u>Pleasants</u></p> <p>County <u>WV</u></p> <p style="text-align: right;">State <u>WV</u></p>		<p>Area Name <u>NA</u></p> <p style="text-align: right;">Block Number <u>NA</u></p>		
<p>(c) Name and identification number of this well. (35 letters and digits maximum.)</p>	<p><u>Carpenter/Hart #1</u></p>				
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir. (35 letters maximum.)</p>	<p><u>NA</u></p>				
<p>6.0 (a) Name and code number of the purchaser. (35 letters and digits maximum. If code number not available, leave blank.)</p>	<p><u>Consolidated Gas Supply Corp.</u> <u>004228</u></p> <p>Name <u>Consolidated Gas Supply Corp.</u> Buyer Code <u>004228</u></p>				
<p>(b) Date of the contract:</p>	<p><u>1 1 1 5 8 2</u></p> <p style="text-align: center;">Mo. Day Yr.</p>				
<p>(c) Estimated total annual production from the well:</p>	<p><u>10.000</u> Million Cubic Feet</p>				
<p>7.0 Contract price: <u>Estimated</u> (As of filing date. Complete to 3 decimal places.)</p>	S/MMBTU	(a) Base Price <u>NA</u>	(b) Tax <u>NA</u>	(c) All Other Prices [Indicate (+) or (-).] <u>NA</u>	(d) Total of (a), (b) and (c) <u>NA</u>
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	S/MMBTU	<u>2.742</u>	<u>0.000</u>	<u>0.000</u>	<u>2.742</u>
<p>9.0 Person responsible for this application:</p>	<p><u>Norma Anderson</u> <u>Asst. Secretary</u></p> <p>Name <u>Norma Anderson</u> Title <u>Asst. Secretary</u></p> <p>Signature <u>Norma Anderson</u></p> <p><u>3/3/83</u> <u>614-373-8771</u></p> <p>Date Application is Completed Phone Number</p>				
<p style="text-align: center;">Agency Use Only</p> <p>Date Received by Juris. Agency</p> <p>MAR 7 1983</p> <p>Date Received by FERC</p>					

PARTICIPANTS:

DATE: JUN 24 1983

BUYER-SELLER CODE

WELL OPERATOR: L & M Petroleum Co.

FIRST PURCHASER: Consolidated Gas Supply Corp.

004228

OTHER:

1500
 W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
830307-103-073-1448
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~Def. no. 22-26 for not held by name~~

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO.
1. FERC -121 Items not completed - Line No. _____
 2. IV-1 Agent Don Berry
 3. IV-2 Well Permit _____
 4. IV-6 Well Plat
 5. IV-35 Well Record Drilling Deepening _____
 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
 7. IV-39 Annual Production _____ years
 8. IV-40 90 day Production _____ Days off line: _____
 9. IV-48 Application for certification. Complete?
 - 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed
 - 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
 - (5) Date commenced: 9-16-82 Date completed 9-24-82 Deepened _____
 - (5) Production Depth: 4276 - 4344
 - (5) Production Formation: Gordon / Devonian Shale
 - (5) Final Open Flow: 100 MCF
 - (5) After Frac. R. P. NA
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production: _____
 - (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
 - (8) Line Pressure: _____ PSIG from Daily Report
 - (5) Oil Production: _____ From Completion Report _____
 - 10-17. Does lease inventory indicate enhanced recovery being done no
 - 10-17. Is affidavit signed? Notarized?
 - Does official well record with the Department confirm the submitted information? yes
 - Additional information _____ Does computer program confirm? _____
 - Was Determination Objected to _____ By Whom? _____

Operator's Well No. Carpenter/Hart #1

API Well No. 47 - 073 - 1448
State County Permit

Previous File No. NA
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR L&M Petroleum Co.
ADDRESS P.O. Box 89
Reno, Ohio 45773

DESIGNATED AGENT Don Berry
ADDRESS Main Street
Middlebourne, WV 26149

Gas Purchase Contract No. 4421 and Date 11/15/82
(Month, Day and year)

Merch Code NA

Name of First Purchaser Consolidated Gas Supply Corp.
455 West Main Street
Clarksburg, WV 26301
(City) (State) (Zip Code)

PERC Seller Code 023971

PERC Buyer Code 004228

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See PERC Form 121.) Section of NGPA 103 Category Code NA
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Name (Print) Norma Anderson Title Asst. Secretary
Signature *Norma Anderson*
P.O. Box 89
Street or P. O. Box
City Reno State Ohio Zip Code 45773
Area Code 614 Phone Number 373-8771

(Certificate of Proof of Service to Purchaser)

(See Attachment)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section 103 under the Natural Gas Policy Act of 1976 (NGPA). for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA). or for determination of a seasonally affected well under Section 108a (NGPA).

All interested parties are hereby notified that on the 14 day of March 1982 at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAR 7 1983

Date received by _____
Jurisdictional Agency

Director
by *[Signature]*
Title _____

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

Date 3/3 19 83

Operator's Well No Carpenter/Hart #1

API Well No 47 State 073 County 1448 Permit 1448

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Don Berry
ADDRESS Main St.
Middlebourne, WV - 26149

WELL OPERATOR L&M Petroleum Co.
ADDRESS P.O. Box 89
Reno, Ohio 45773

LOCATION: Elevation 987
Watershed Cow Creek
Dist. Jefferson County Pleasants Paul Schultz

GAS PURCHASER Consolidated Gas Supply Corp.
ADDRESS 455 West Main Street
Clarksburg, WV 26301

Contract No. 4421
Meter Chart Code NA
Date of Contract 11/15/82

* * * * *

Date surface drilling was begun: 9/16/82

Indicate the bottom hole pressure of the well and explain how this was calculated

SEE ATTACHED

OATH: I SWEAR AND AFFIRM THAT TO THE BEST OF MY KNOWLEDGE:
AFFIDAVIT

I, Norma Anderson, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977, the well satisfies applicable state or federal well spacing requirements and the well is not within a protection well, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and that I was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Norma Anderson

STATE OF ~~WEST VIRGINIA~~ OHIO
COUNTY OF Washington TO WIT.

I, Naoma Jean Britton

Notary Public in and for the state and county aforesaid,
do certify that Norma Anderson whose name is signed to the writing above, bearing date
the 3 day of March, 1983, was acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 3 day of March, 1983
My term of office expires on the 2 day of August, 1983

[NOTARIAL SEAL]

Naoma Jean Britton
Notary Public

CARPENTER/HART NO. 1
Pleasants County, West Virginia

$$\text{BHP} = P_i + P_i \left[e \left(\frac{G L}{53.34 T} \right) - 1 \right]$$

Where: P_i = Surface pressure (psia) = 1480
 G = Gas Gravity (Est.) = 0.7
 L = Depth to perforations (ft) = 4338'
 T = Temperature ($^{\circ}\text{R}$) = $460 + 65 = 525$

$$\text{BHP} = 1480 + 1480 \left[e \left(\frac{(.7)(4338)}{(53.34)(525)} \right) - 1 \right] =$$

$$\text{BHP} = 1650 \text{ psi}$$

RECEIVED

OCT 28 1982

OCT 15 1982
OIL & GAS DIVISION
DEPT. OF MINES
OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 -073 -2-1448 - 0000			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 <small>Section of NGPA</small>	3 <small>Category Code</small>		
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	5125 feet			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	L&M Petroleum Co. <small>Name</small>		023971 <small>Seller Code</small>	
	P.O. Box 89 <small>Street</small>			
	Reno <small>City</small>	OH <small>State</small>	45773 <small>Zip Code</small>	
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	NA			
	Pleasants <small>Field Name</small>		WV <small>State</small>	
(b) For OCS wells:				
	NA <small>Area Name</small>		NA <small>Block Number</small>	
	Date of Lease: Mo. Day Yr.		NA <small>OCS Lease Number</small>	
(c) Name and identification number of this well (35 letters and digits maximum.)	Carpenter/Hart #1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)	NA			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Corp. <small>Name</small>		004228 <small>Buyer Code</small>	
(b) Date of the contract:	APPLIED FOR ONLY			
(c) Estimated total annual production from the well:	10.000 Million Cubic Feet			
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]
7.0 Contract price: Estimated (As of filing date. Complete to 3 decimal places.)	S/MMBTU	NA	NA	NA
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	Deregulated	Deregulated	
9.0 Person responsible for this application:	Joanne Cogan <small>Name</small>			
<small>Agency Use Only</small>	Corp. Secretary <small>Title</small>			
<small>Date Received by Juris. Agency</small>	<i>Joanne Cogan</i> <small>Signature</small>			
<small>Date Received by FERC</small>	10/25/82 <small>Date Application is Completed</small>		614-373-8771 <small>Phone Number</small>	
OCT 28 1982				

FEB 16 1983

DATE: _____

BUYER-SELLER CODE

PARTICIPANTS:

WELL OPERATOR: L + M Petroleum Co.

023971

FIRST PURCHASER: Consolidated Gas Supply Corp.

04228

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
821028-107-073-1448
 Use Above File Number on all Communications
 Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. _____
- 2. IV-1 Agent David Clovis
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: 9-16-82 Date completed 9-24-82 Deepened _____
- (5) Production Depth: 4276-86 4300-44 T.D. 5125
- (5) Production Formation: Shale
- (5) Final Open Flow: 100 MCF
- (5) After Frac. R. P. NA
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (8) Line Pressure: _____ PSIG from Daily Report _____
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

7B

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR L&M Petroleum Co.
ADDRESS P.O. Box 89
Reno, Ohio 45773

DESIGNATED AGENT David Clovis
ADDRESS P.O. Box 288
Parkersburg, WV 26101

Gas Purchase Contract No. Applied for and Date Applied for only
Meter Chart Code NA (Month, day and year)

Name of First Purchaser Consolidated Gas Supply Corp.
455 W. Main Street
(Street, or P. O. Box)
Clarksburg, WV 26301
(City) (State) (Zip Code)

PERC Seller Code 023971 PERC Buyer Code 004228

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See PERC Form 121.) 107 Section of MMS 3 Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Joanne Cogan Corp. Secretary
Name (Print) Title
Joanne Cogan
Signature
P.O. Box 89
Street or P. O. Box
Reno Ohio 45773
City State (Zip Code)
(614) 373-8771
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(See Attachment)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section 107 under the Natural Gas Policy Act of 1976 (NGPA). for for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA). or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the 14 day of October, 1988 at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

OCT 28 1988
Date Received by
Jurisdictional Agency

Director
By [Signature]
Title _____

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: L&M Petroleum Co. Agent: David Clovis
 Type Determination being sought - 107 (Devonian Shale)
 API Well No.: 47-073-2-1448 Well Name: Carpenter/Hart #1
 West Virginia Office of Oil and Gas County: Pleasants
 References: SJA File No.

Vol. Page Line

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 165 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 115 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (165 *)}} = \underline{115}$ API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

<u>Interval</u>		<u>Thickness of Interval Feet</u>	<u>Feet of less than* 0.7 (Shale Base Line) Feet</u>
<u>From**</u>	<u>To***</u>		
2224	5134	2910	49

Total Devonian Interval 2910

49

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $\frac{49}{2910} \times 100 = \underline{1.7\%}$

*Marked on log included with analysis.
 **Top of Devonian Section Recorded on First Interval in this Column.
 ***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT David Clovis

ADDRESS P.O. Box 288

Parkersburg, WV 26101

LOCATION Elevation 987

Watershed Cow Creek

WELL OPERATOR L&M Petroleum Co.

ADDRESS P.O. Box 89

Reno, Ohio 45773

Dist. _____ County _____ Quad. _____

Gas Purchase
Contract No. Applied for only
Corp.

GAS PURCHASER Consolidated Gas Supply

ADDRESS 455 W. Main Street.

Meter Chart Code NA

Clarksburg, WV 26301

Date of Contract Applied for only

* * * * *

Date surface drilling began: 9/16/82

Indicate the bottom hole pressure of the well and explain how this was calculated.

SEE ATTACHED

AFFIDAVIT

I, Joanne Cogan, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Joanne Cogan

Ohio

STATE OF ~~WEST VIRGINIA~~

COUNTY OF Washington, TO-WIT:

I, Naoma Jean Britton, a Notary Public in and for the state and county aforesaid, do certify that Joanne Cogan, whose name is signed to the writing above, bearing date the 25 day of October, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 25 day of October, 1982.

My term of office expires on the 2 day of August, 1983.

(NOTARIAL SEAL)
NAOMA JEAN BRITTON
Notary Public, Washington Co., Ohio
My Commission Expires Aug. 2, 1983

Naoma Jean Britton
Notary Public

IV-27
11/23/81



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: Sept 14, 1982
Well No: 1
API NO: 47 - 073 1448
State County Permit

**Oil and Gas Division
NOTICE OF VIOLATION**

WELL TYPE: Oil ___ / Gas ___ Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production ___ / Storage ___ / Deep ___ / Shallow ✓
LOCATION: Elevation: 987 Watershed: Cow Creek
District: Jefferson County: Pleasant Quadrangle: Schuttly
WELL OPERATOR H & M Petroleum DESIGNATED AGENT David Clovis
Address P.O. Box 89 Address Box 288
Reno O. 45773 Parkersburg W.Va. 26101

The above well is being posted this 14 day of Sept, 1982, for a violation of Code 22-4-23.06 and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to notify Inspector before starting Permitted work. Building location & Road shut Down until after Inspector is Properly notified

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until Immediatly 1982, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

RECEIVED
SEP 16 1982

OIL & GAS DIVISION
DEPT. OF MINES

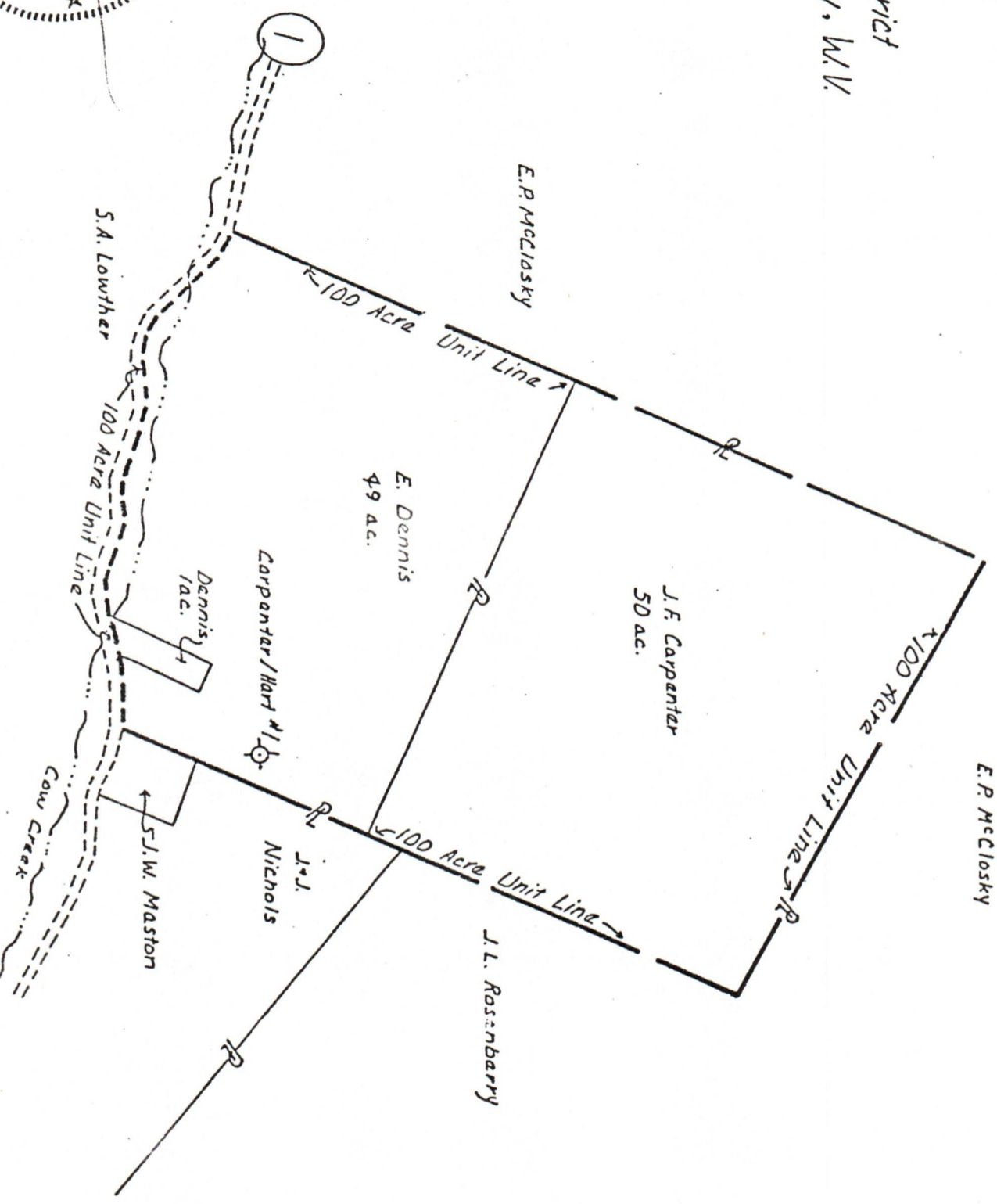
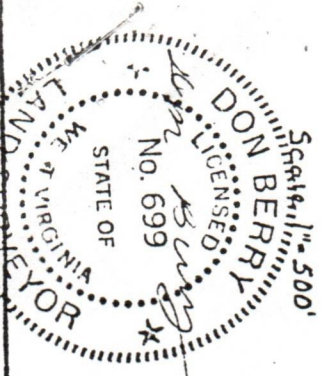
Robert A. Lowther
Oil and Gas Inspector

Address Middlebourne
W.Va.

Telephone: 304-758-4764

*Postcard
9/18/82*

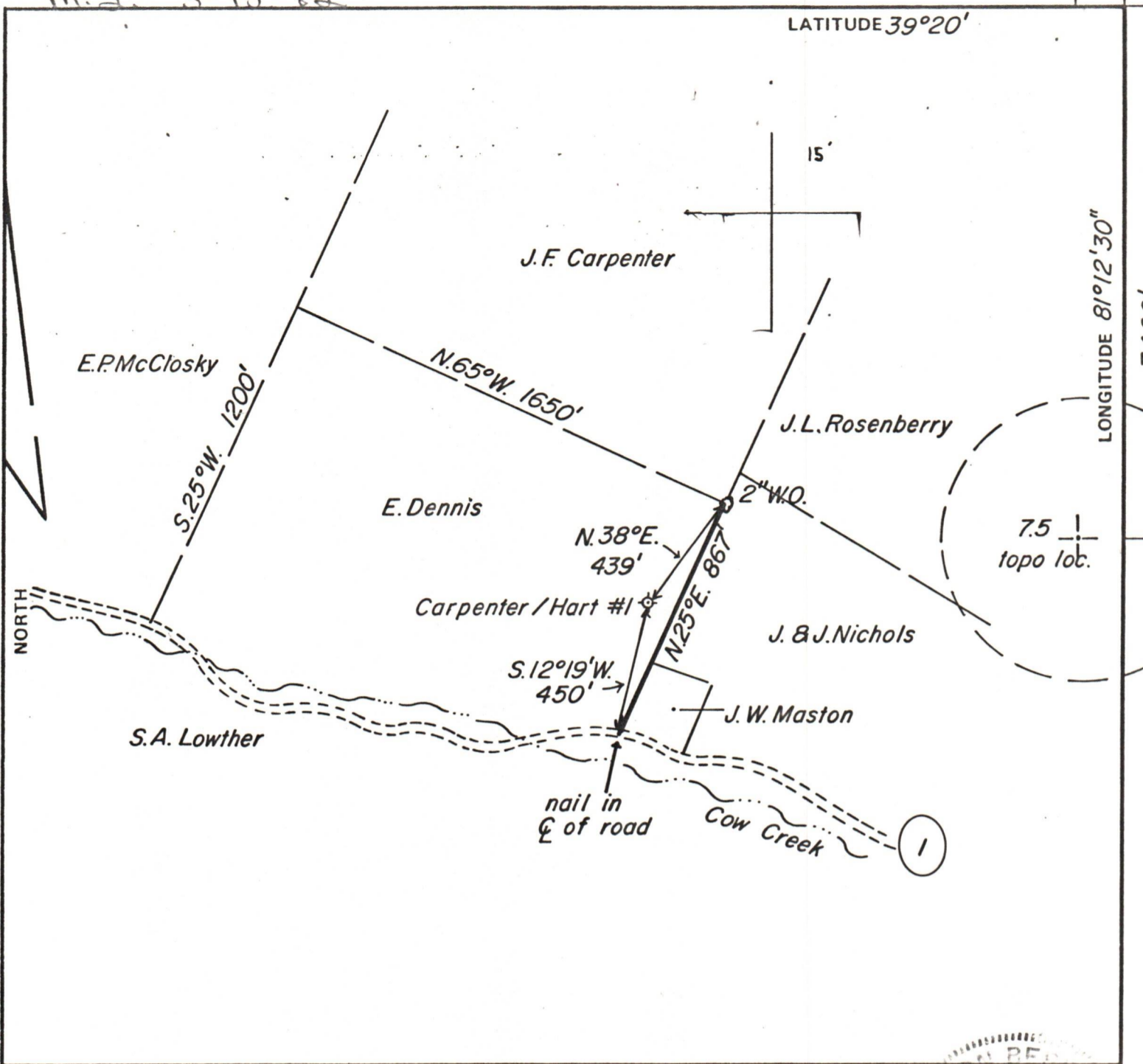
Carpenter / Hart
100 Acre Unit
Near Schultz
Jefferson District
Pleasants County, W.V.



M. J. 3-15-82

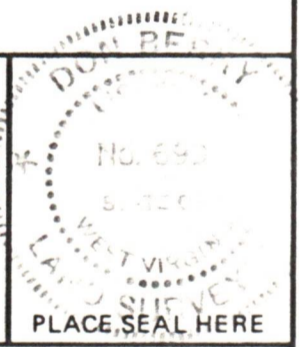
680

LATITUDE 39°20'



FILE NO. 82-0242
 DRAWING NO. 1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION C&GS BM = 724

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) Wm. Burg
 R.P.E. _____ L.L.S. 699



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



DATE March 2 1982
 OPERATOR'S WELL NO. Carp. / Hart #1
 API WELL NO. _____
47 - 073 - 1448-Frac.
 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 987' WATER SHED Cow Creek
 DISTRICT Jefferson COUNTY Pleasants
 QUADRANGLE Schultz
 SURFACE OWNER E. Dennis ACREAGE 49
 OIL & GAS ROYALTY OWNER Carpenter / Hart LEASE ACREAGE _____
 LEASE NO. _____
 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 Pennsion State ESTIMATED DEPTH 4500
 WELL OPERATOR J. M. Petroleum Co. DESIGNATED AGENT David Clives
 ADDRESS P.O. Box 89 ADDRESS Box 288
Paris, Ohio 45373 Hubertsvrg, WV 26108

Hampshire

DIVISION OF OIL AND GAS INTEREST
CARPENTER/HART #1

3.1250% LO J. Franklin Carpenter
400 Morgan Ave.
St. Marys, WV 26170

6.2500% LO Leonard and Doris Hart
110 George St.
St. Marys, WV 26170

.3906% LO Marguerite ^{or 2nd} Hammett
704 - 2nd St.
St. Marys, WV 26170

.3906% LO Thomas N. Hammett
RT #3
St. Marys, WV 26170

.3906% LO Ellen G. Hammett
704 - 2nd St.
St. Marys, WV 26170

.3907% LO Annie C. Shrier
RT #2
Inola, Oklahoma 74036

.7812% LO Edward F. Nole
7135 E. Easton Place
Tulso, Oklahoma 74111

.7813% LO Savilla J. Nole
RT #4
Belle Vernon, PA 15012

2.7344% OR Quaker State Oil Ref. Corp.
Box 989
Oil City, PA 16301

RECEIVED

JUN - 8 1983

OIL & GAS DIVISION
DEPT. OF MINES