

400'

# HARRISON LEASE

## WELL NO. 1

*Jamil*  
8/4/92

LATITUDE 38-25-00

E/C

LOVEJOY

LEWIS

WOLFE

HUMPHREYS

WATSON

WARNER et al

POFFENBARGER et al

73.38 AC ±

LONGITUDE 81-47-30

7,045

NORTH

IRON PIPE

N 80-27 W

1393.72'

C & P TELEPHONE

HARRISON NO. 1

N 65-25 W

1633.5'

S 32-22 W

599.61'

S 00-46 E

638.17'

S 50 W

2128.5'

L.M. DEVELOPMENT

CHEMICAL LEASING CO.

UNION CARBIDE

4573

2500'

NO. 1

4601

4244

RYAN MONUMENT

2" IRON PIPE

3" IRON PIPE

REFERENCES

HARRISON NO. 1

S 1-59 W

116.2'

S 25-21 E

167.88'

12" RED MAPLE

20" YELLOW POPLAR

1" = 200'

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1065'

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) *Jamil C. ...*  
 R.P.E. \_\_\_\_\_ L.L.S. 645

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE APRIL 4, 1992  
 OPERATOR'S WELL NO. HARRISON NO. 1  
 API WELL NO. 47-039-4869  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_

LOCATION: ELEVATION 890' WATER SHED ROCKY FORK

DISTRICT UNION 9 COUNTY KANAWHA

QUADRANGLE SAINT ALBANS 7.5' ±15' 24'

SURFACE OWNER DAVID Gillian ACREAGE 73.38 AC

OIL & GAS ROYALTY OWNER R.L. CRITCHFIELD et als. LEASE ACREAGE 73.38

LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION TUSCARORA ESTIMATED DEPTH 6500'

WELL OPERATOR CONTINENTAL RESERVES CO. DESIGNATED AGENT LINDA ALDRIDGE

ADDRESS 147-3 WEST MAIN ST. ADDRESS 147-3 WEST MAIN ST.

BRIDGEPORT WV 26330

BRIDGEPORT WV 26330

AUG 14 1992

*DPT - Newburg - attempt*

*DEEP WELLS 3-6 Elk River (Sissonville) (1992) extend at 315 Ab and*

WR-35

06-Aug-92

API # 47- 39-04869

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GILLIAN, DAVID M. & JUDY Operator Well No.: HARRISON #1

LOCATION: Elevation: 890.00 Quadrangle: SAINT ALBANS

District: UNION County: KANAWHA  
Latitude: 7045 Feet South of 38 Deg. 25Min. 0 Sec.  
Longitude 400 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: CONTINENTAL RESERVES OIL  
615 WASHINGTON ROAD-SUITE 304  
PITTSBURGH, PA 15228-1920

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8	830	830	CTS
7	2568	2568	N.A.

Agent: LINDA E. ALDRIDGE

Inspector: CARLOS W. HIVELEY  
Permit Issued: 08/10/92  
Well work Commenced: 10/31/92  
Well work Completed: 12/01/92  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5656, P6 to 2550  
Fresh water depths (ft) \_\_\_\_\_  
None Reported  
Salt water depths (ft) \_\_\_\_\_  
None Reported  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None Reported

OPEN FLOW DATA

(Commingled) 2378-  
Producing formation Berea Sand Pay zone depth (ft) 2382  
Gas: Initial open flow -0- MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 389 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 680 psig (surface pressure) after 24 Hours

1771-  
Second producing formation Big Lime Pay zone depth (ft) 1775  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: Michael Scureman  
CONTINENTAL RESERVES OIL CO.

Reviewed TMB  
Recorded \_\_\_\_\_

By: J. Michael Scureman  
Date: 2/25/93

MAR 26 1993

Geologic Report

Sand and Shale	0 - 1070
Sand	1070 - 1672
Little Lime	1672 - 1706
Big Lime	1706 - 1900
Big Injun	1900 - 1940
Shale	1940 - 2353
Sunbunny Shale	2353 - 2372
Berea Sandstone	2372 - 2384
Devonian Shale	2384 - 3582
Lower Huron Shale	3582 - 4073
Java Shale	4073 - 4447
Rhinestreet Shale	4447 - 4732
Onondaga Ls.	4732 - 4815
Oriskany Sand	4815 - 4874
Siberian	4961
Newburg Sand	5514 - 5531
T.D.	5656
Plugback to	2550

Driller's shows:

H<sub>2</sub>S @ 175 ppm @ 5,015'.

DF 545  
DFT 535

expl log  
5656  
4874  
782

Plug Back Record

2550 - 2900	Neat 2% CaCl
2900 - 3400	Gel
3400 - 4100	Neat 2% CaCl
4100 - 4400	Gel 6%, 15 bbls
4400 - 4650	Neat 2%, CaCl
4650 - 5050	Laytex Cement yield yield 1.21, 75 sks
5050 - 5300	Gel 6%, 15 bbls
5300 - 5656	Neat 2% CaCl

Completion Record - 11/19/92

1. Berea Sand - Perf'd 2,378-2,382 with 17 holes; Frac'd with 40,000# of 20/40 sand, 5,000# of 12/20 sand and 75 quality foam N<sub>2</sub>.  
Pump rate = 16 bbls/min.
2. Big Lime - Perf'd 1771-1775 with 15 holes; Acidized with 500 gals 15% Hcl breakdown and 500 gals acid treatment.  
Pump rate = 4-5 bbls/min.

RECEIVED

FORM NW-2B

039-4869

Issued 8/10/92

Page 1 of 1

M 2 3

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Expires 8/10/94

Well Operator: Continental Reserves Oil Company 11015 (9) 593

Operator's Well Number: Harrison #1 3) Elevation: 940

Well type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow

Proposed Target Formation(s): Tuscarora

Proposed Total Depth: 6,500 feet

Approximate fresh water strata depths: 100

Approximate salt water depths: 445, 1260, 1365, 1445, 1545

Approximate coal seam depths: None reported

Does land contain coal seams tributary to active mine? Yes  No

Proposed Well Work: To test all formations through the Tuscarora.

CASING AND TUBING PROGRAM

*Drill & Stimulate New Well*

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8	H-40	48	39	0	
Fresh Water	9 5/8	H-40	36	800	800	
Coal						CTS 38CSP18-71.3
Intermediate	7	J-55	23	2500	2500	200 SX 38CSP18-71.2
Production	4 1/2	L-80	11.6	6500	6500	100 SX
Tubing						38CSP18-71.1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation fund  WPCP  
Plat  WW-9  WW-2B  Bond Surety Blanket  Agent  
(Type)

RECEIVED

Page 1 of 1  
Form WW2-A  
(09/87)

JUL 23

1) Date: 7-10-92  
2) Operator's well number HARRISON #1  
3) API Well No: 47 - 039 - 4869  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name DAVID M. & JUDITH R. GILLIAN  
Address P O BOX 554  
NITRO, WV 25143
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
- Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name V.L. & MATTIE SMITH c/o BRADIE B. SMITH  
Address 303 23rd STREET EXF  
DUNBAR, WV 25064
  - Name R. L. CRITCHFIELD  
Address 182 SHERMAN AVE.  
LEXINGTON, KY 25302
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Carlos W. Hively  
Address 223 Rimsch Ridge Rd  
Elkview, WV 25071  
Telephone (304)-965-6069

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

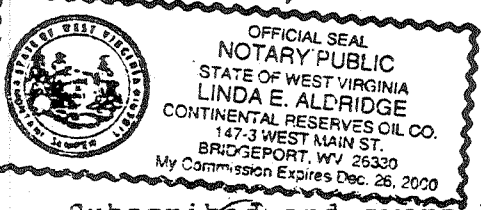
- \_\_\_\_\_ Personal Service (Affidavit attached)
- x Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CONTINENTAL RESERVES OIL COMPANY  
By: J. MICHAEL SCUREMAN  
Its: PRESIDENT  
Address 147-3 West Main Street  
Bridgeport, WV 26330  
Telephone (304) 842-5446



Subscribed and sworn before me this 20<sup>th</sup> day of July, 1992

Linda E. Aldridge Notary Public  
My commission expires December 26 2000

39 04869 P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-039-04869 WELL NO.: 10789

FARM NAME: David Gillian

RESPONSIBLE PARTY NAME: CNX Gas Company LLC

COUNTY: Kanawha DISTRICT: Big Creek Union

QUADRANGLE: St. Albans, WV 594

SURFACE OWNER: David Gillian

ROYALTY OWNER: R.L. Critchfield et al

UTM GPS NORTHING: 4,250,010.94 m

UTM GPS EASTING: 430,760.68 m GPS ELEVATION: 278 m (912 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.

2. Accuracy to Datum – 3.05 meters

3. Data Collection Method:  
Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

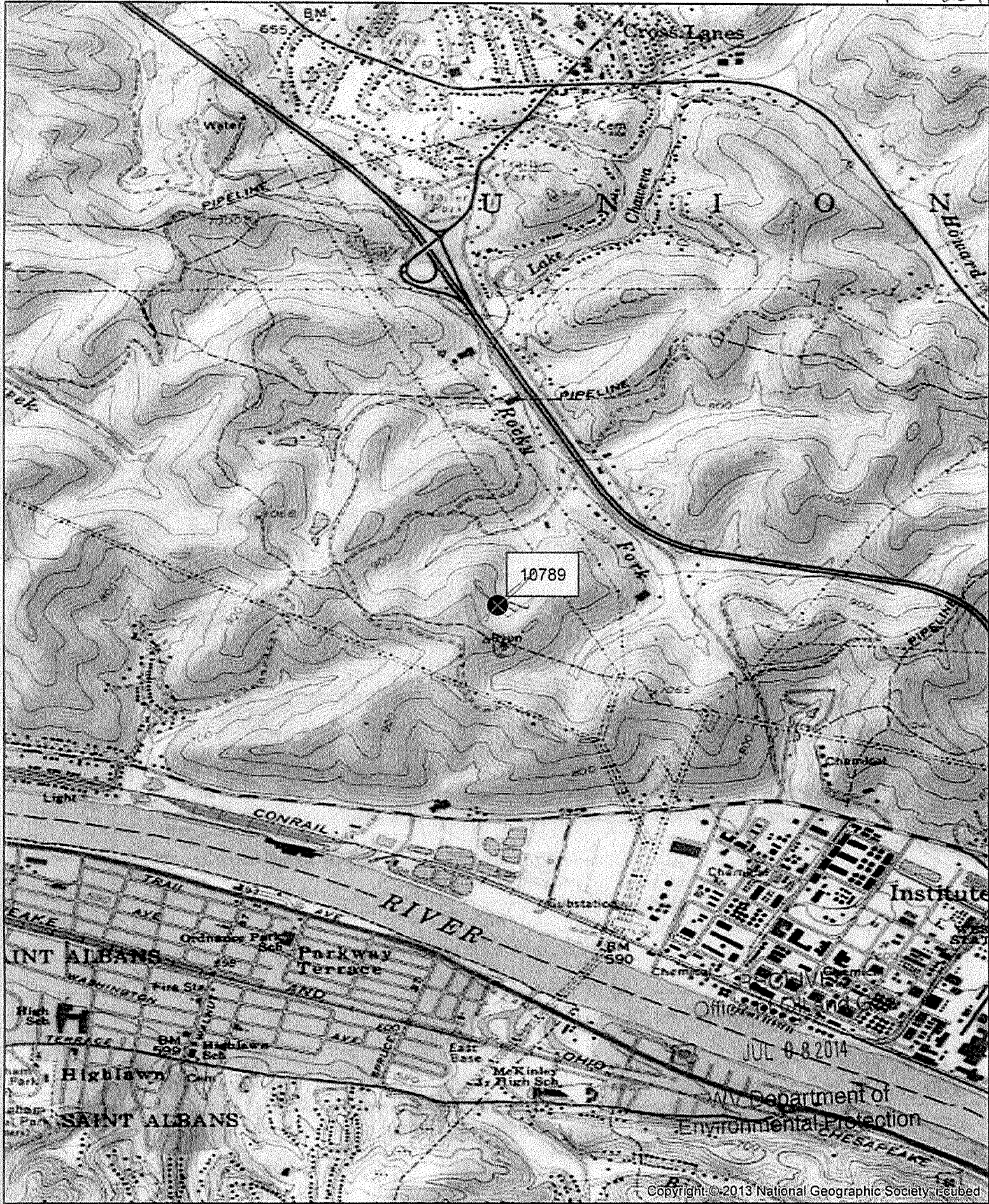
4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

[Signature]  
Signature

Prod Coord  
Title

JUL 08 2014  
7/7/14  
WV Department of Environmental Protection



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0 500 1,000 Feet	
Date: 5/9/2014	Prepared By: KK
Revisions:	Approved By: BS
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**CONSOL ENERGY**  
**PROPOSED PLUGGING WELL NUMBER 10789**  
**API# 47-039-04869**  
**GENERAL LOCATION MAP**