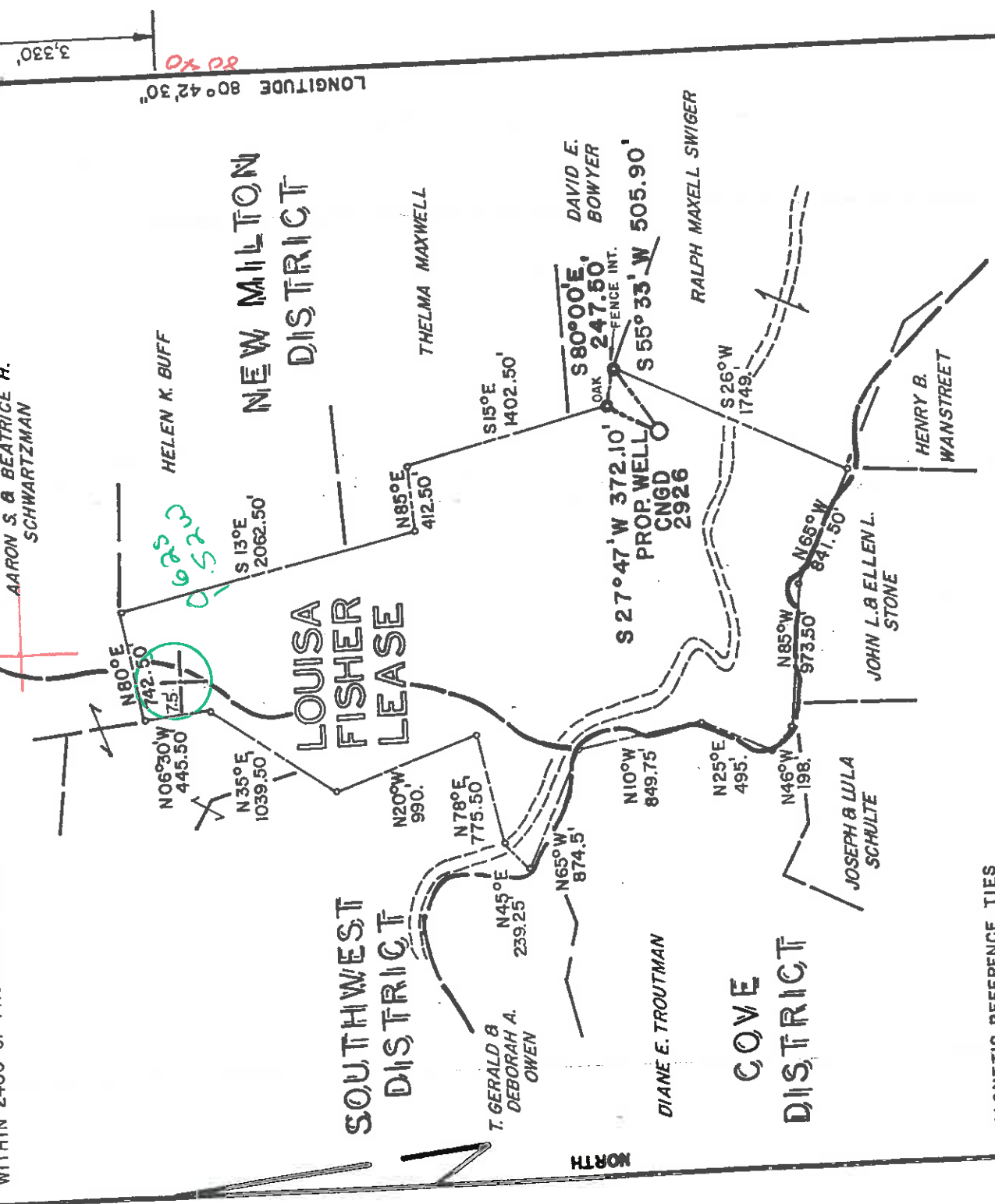


KS 4/17/87

NOTE: THERE ARE NO ACTIVE WELLS ON RECORD WITHIN 2400' OF PROPOSED WELL CNGD 2926.



LONGITUDE 80° 42' 30"

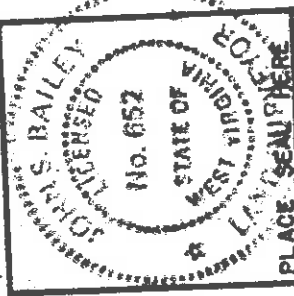
LATITUDE 39° 10' 00"

MAGNETIC REFERENCE TIES

PROPOSED WELL TO AN 8" HY., N 35° 07' E 201.50'  
PROPOSED WELL TO A 10" C.O., N 14° 28' E 184.20'

FILE NO. MSES 87-747  
 DRAWN BY VSH/PAT  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION RD. JCT. ELEV. 922', 4200' SW OF LOCATION

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) J. S. Bailey  
 R. P. E. L.L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-76)



Department of Mines  
Oil & Gas Division

DATE MARCH 17 19 87  
 OPERATOR'S WELL NO. CNGD 2926  
 API WELL NO. 47-017- 3535  
 STATE WV COUNTY PERMIT

WELL TYPE: OIL  LIQUID INJECTION  WASTE DISPOSAL  SHALLOW   
 ( IF "GAS", PRODUCTION  STORAGE  DEEP  TOMS FORK OF MIDDLE ISLAND CREEK  
 LOCATION: ELEVATION 1116.4 WATER SHED NEW MILTON COUNTY DODDRIDGE  
 DISTRICT NEW MILTON 6 NEAREST TOWN LEOPOLD  
 QUADRANGLE NEW MILTON 7.5 S11 ACREAGE 204.40  
 SURFACE OWNER DOLORES HINTERER LOUISA FISHER LEASE ACREAGE 204  
 OIL & GAS ROYALTY OWNER LOUISA FISHER LEASE NO. DV-11706

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  ESTIMATED DEPTH 5660'  
 TARGET FORMATION DEVONIAN SHALE DESIGNATED AGENT GARY A. NICHOLAS  
 WELL OPERATOR CNG DEVELOPMENT COMPANY ROUTE 2, BOX 698  
 ADDRESS P.O. BOX 15746 ADDRESS BRIDGEPORT, WV 26330  
147 ADDRESS PITTSBURGH, PA 15244

MAY 04 1987

11000 6.6 Porto Rico (Stout) (134) Charleston WV



**RECEIVED**  
AUG 31 1987

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date August 20, 1987  
Operator's Well No. CNGD WN 2926  
Farm Fisher  
API No. 47-017-3535

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  /  
(If "Gas," Production  / Underground Storage  / Deep  / Shallow  /)

LOCATION: Elevation: 1116.4 Watershed Toms Fork of Middle Island Creek  
District: New Milton County Doddridge Quadrangle New Milton

COMPANY CNG Development Company  
ADDRESS P.O. Box 15746 Pittsburgh, PA 15244  
DESIGNATED AGENT Gary A. Nicholas  
ADDRESS Rt. 2 Box 698 Bridgeport, WV 26330  
SURFACE OWNER Dolores Hinterer  
ADDRESS Route 1 New Milton, WV 26411  
MINERAL RIGHTS OWNER Louisa Fisher  
ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK  
Mike Underwood Rt. 2, Box 114 Salem, WV 26426  
PERMIT ISSUED April 30, 1987  
DRILLING COMMENCED July 29, 1987  
DRILLING COMPLETED August 7, 1987

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

Casing Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1396	1396	To Surf.
7			
5 1/2			
4 1/2	5571	5571	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5660 feet  
Depth of completed well 5778 feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 75 feet; Salt 1650 feet  
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Alex. & Leop. Benson & Riley Pay zone depth 4990-5078 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 231 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours

Static rock pressure 1300 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

SEP 8 1987

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

Perforated Alexander & Leop. 5211-5428, .39 HSC; Benson & Riley 4990-5078, .39 HSC  
 30# Gel Water Frac - Breakdown 1680, Ave HHP 1868, Ave Rate 37, Ave Pr 2060,  
 Max Tr Pr 2737, Total Acid 900, Total Sand 75,000, Max Conc. 5, Total Fluid 857,  
 SL Fluid 581, ISIP 1474, 5 min 1405. 2nd Stage Frac - Breakdown 1623, Ave HHP 2015,  
 Ave Rate 35, Ave Pr 2350, Max Tr Pr. 3100, Total Acid 500, Total Sand 72,000, Max  
 Conc. 5, Total Fluid 832, SL Fluid 561, ISIP 1458, 5 min 1279.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Cond.			0	30	Including indication of all fres: and salt water, coal, oil and ga:  1/2" stream water @ 75' 1-1/2" stream @ 1650'
Sand, Shale & RR			30	2050	
L. Lime			2050	2074	
Sand & Shale			2074	2100	
B. Lime & Injun			2100	2300	
Sand, Shale & RR			2300	5332	
Alex. Sand			5332	5370	
Sand & Shale			5370	5778	
LOG TOPS ✓					
Big Lime			2141	2222	
Big Injun			2222	2296	
Weir			2400	2500	
Berea			2604	2615	
Gordon Gp.			2820	2906	
Warren			3444	3487	
1st Upper Speechley			3506	3594	
2nd Upper Speechley			3702	3713	
Speechley			4187	4220	
Balltown			--	--	
Bradford			4616	4670	
1st Riley			4836	4844	
2nd Riley			4972	5002	
Benson			5074	5132	
1st Leopold			5172	5220	
2nd Leopold			5276	5284	
Alexander			5332	5432	

**RECEIVED**  
AUG 31 1987  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY  
 Well Operator \_\_\_\_\_  
 By: Ray A. Walker  
 Date: August 20, 1987

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic  
 detailed geological record of all formations, including  
 sand, encountered in the drilling of a well."



1) Date: April 8, 1987  
2) Operator's Well No. 2926  
3) API Well No. 017 State 47 County Permit 3535

APR 14 1987

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

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

4) WELL TYPE: A Oil  Gas  B (if "Gas", Production  Undergrnd storage  Deep  Shallow   
Elevation: 1116.4 Watershed: Toms Fork of Middle Island Creek  
District: New Milton County: Doddridge Quadrangle: New Milton 510  
6) WELL OPERATOR: CNG Development Co. CODE: 1010 7) DESIGNATED AGENT Gary Nicholas  
Address c/o Cheryl S. Harille P.O. Box 15746 Address Crosswind Corporate Park  
Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330  
8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Mike Underwood 9) DRILLING CONTRACTOR:  
Address Route 2, Box 114 Name Sam Jack Drilling Co.  
Salem, WV 26426 Address P.O. Box 48  
Buckhannon, WV 26201 Stimulate

10) PROPOSED WELL WORK: Drill  / deeper  / Plug off old formation  / Perforate new formation   
Other physical change in well (specify) Alexander  
11) GEOLOGICAL TARGET FORMATION, 5660 feet  
12) Estimated depth of completed well, 5660 feet  
13) Approximate trata depths: Fresh, 5660 feet; salt, 5660 feet.  
14) Approximate coal seam depths: Is coal being mined in the area? Yes  No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade			Weight per ft.	For drilling		
Conductor	11-3/4	H-40	42	X	40	40	To surface	By rule 15.05
Fresh water								
Coal	8-5/8	X-42	23	X	1400	1400	To surface	By rule 15.05
Intermediate	4-1/2	J-55	10.5	X	5660	5660	200 - 400	Depths set
Production	1-1/2	CN-55	2.75	X				By rule 15.01
Tubing								Perforations:
Liners								Top
								Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-017-3535 Date April 30 1987

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. April 30, 1989 unless well work is commenced prior to that date and prosecuted with due diligence. Permit expires

Bond:	Agent:	Plat:	Casing	Fee	WROP	SEE	Other
				<u>2926</u>	<u>187</u>	<u>187</u>	
				<u>194</u>			

NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File

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

6966

