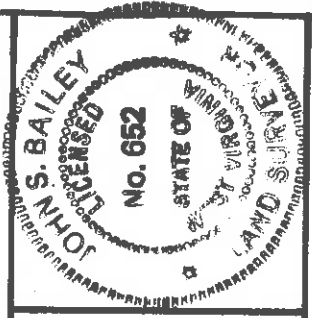


PREPARED BY MSES CONSULTANTS, INC.

FILE NO. MSES 85-603
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM EL. 944' ON RT. II, 4200' SW OF LOCATION
 R.P.E. J.L.S. 652

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) John S. Bailey



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



Department of Mines
 Oil & Gas Division

DATE JANUARY 11, 19 85
 OPERATOR'S WELL NO. CNGD 1611
 API WELL NO. 47-017-3428
 STATE WV COUNTY PUTNAM PERMIT _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1095.93' WATER SHED _____ RIGHT FORK _____
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' (1978) Holbrook 15' NE 3 058
 SURFACE OWNER HAESSLY HARDWOOD LUMBER SALES, INC ACREAGE 266
 OIL & GAS ROYALTY OWNER E.M. NUTTER ET AL. LEASE ACREAGE 266

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 ALEXANDER ESTIMATED DEPTH 5300'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER BRIDGEPORT, W.V. 26330
64 Straight Fork - Bluestone Creek (133)

ALL FM REIFIED PRINT C- _____ Charleston WV

APR 22 1985

RECEIVED

IV-3 (Rev. 11-1-85) JUN 24 1985

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Office of Oil & Gas Division

Date 6/6/85
Operator's
Well No. CNGD WN 1611
Farm Stewart
API No. 47-017-3428

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1095.93 Watershed Right Fork
District: West Union County Doddridge Quadrangle Oxford 7.5' (1976)

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 Haessly Hardwood Lumber Sales, Inc.
ADDRESS Rt 1 Newport Pike Marietta, OH 45750
MINERAL RIGHTS OWNER E. M. Nutter, et al
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Mike Underwood ADDRESS Rt 2 Box 114 Salem, WV 26426
PERMIT ISSUED April 11, 1985
DRILLING COMMENCED May 7, 1985
DRILLING COMPLETED May 12, 1985
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	161	161	
9 5/8			
8 5/8	1424	1424	
7			
5 1/2			
4 1/2	5283	5283	300 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5300 feet
Depth of completed well 5330 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt 1360 feet
Coal seam depths: 1350 - 1356 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5081 - 5116 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 335 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 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)

JUL 0 1985

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

Perforated Alexander 5081 - 5116; 10 holes .39

Western Water Frac 1st Stage - Break 1000, Avg BPM 25, Avg PSI 1200, 40,000# 20/40 Sand, 750 BBL Fluid, ISIP 700, 5 min SIP (psf) 650

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	1350	1/2" stream water @ 1360
Coal			1350	1356	
Sand & Shale			1356	1742	
L. Lime			1742	1800	
B. Lime			1800	1855	
Sand & Shale			1855	5330	Alexander @ TD.
<u>LOG TOPS</u>					
L. Lime			1742	1758	
B. Lime			1780	1850	
Big Injun			1855	1930	
Weir			2088	2206	
Berea			2288	2295	
50'			2382	2404	
30'			2412	2447	
Gordon Stray			2476	2502	
Gordon			2514	2530	
Ath			2642	2676	
5th			2728	2742	
Warren			3150	3212	
Speechley			3420	3490	
Balltown			3648	3682	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: *[Signature]*

Date: 6-6-85

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 lithology, encountered in the drilling of a well."



1) Date: March 18, 19 85
 2) Operator's Well No. 1611
 3) API Well No. 47 - 017 - 3428
 State County Permit

MAR 25 1985

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

COAL & GAS DIVISION

- 4) WELL TYPE: A. OIL MINE X
 B (If "Gas", Production X
 Elevation: 1095.93
 District: West Union
 LOCATION: Right Fork / Deep / Shallow X
 County: Doddridge Quadrangle: Oxford 7.5
- 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Gary Nicholas
 Address c/o Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244
 Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood
 Address Rt. 2, Box 114
Salem, WV 26426
- 9) DRILLING CONTRACTOR:
 Name Sam Jack Drilling Co.
 Address P.O. Box 48
Buckhannon, WV 26201

- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
- 11) GEOLOGICAL TARGET FORMATION, Alexander
 Other physical change in well (specify) 5300 feet
- 12) Estimated depth of completed well, 5300 feet
 13) Approximate true depths: Fresh, 540, 1330 feet, salt, 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			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor							
Fresh water	1-3/4	H-40	42		X	40	To Surface By Rule 15.05
Coal							
Intermediate	8-5/8	X-42	23	X		1500	To Surface By Rule 15.05
Production	4-1/2	J-55	10.5	X		5300	200-400 By Rule 15.01
Tubing	1-1/2	CN-55	2.75	X			Perforations: Top <u> </u> Bottom <u> </u>
Liners							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3428 Date April 11, 19 85

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.
 Permit expires April 11, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>28</u>	<u>SW</u>	<u>MH</u>	<u>MH</u>	<u>7555</u>

Margaret J. Hesse
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

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

