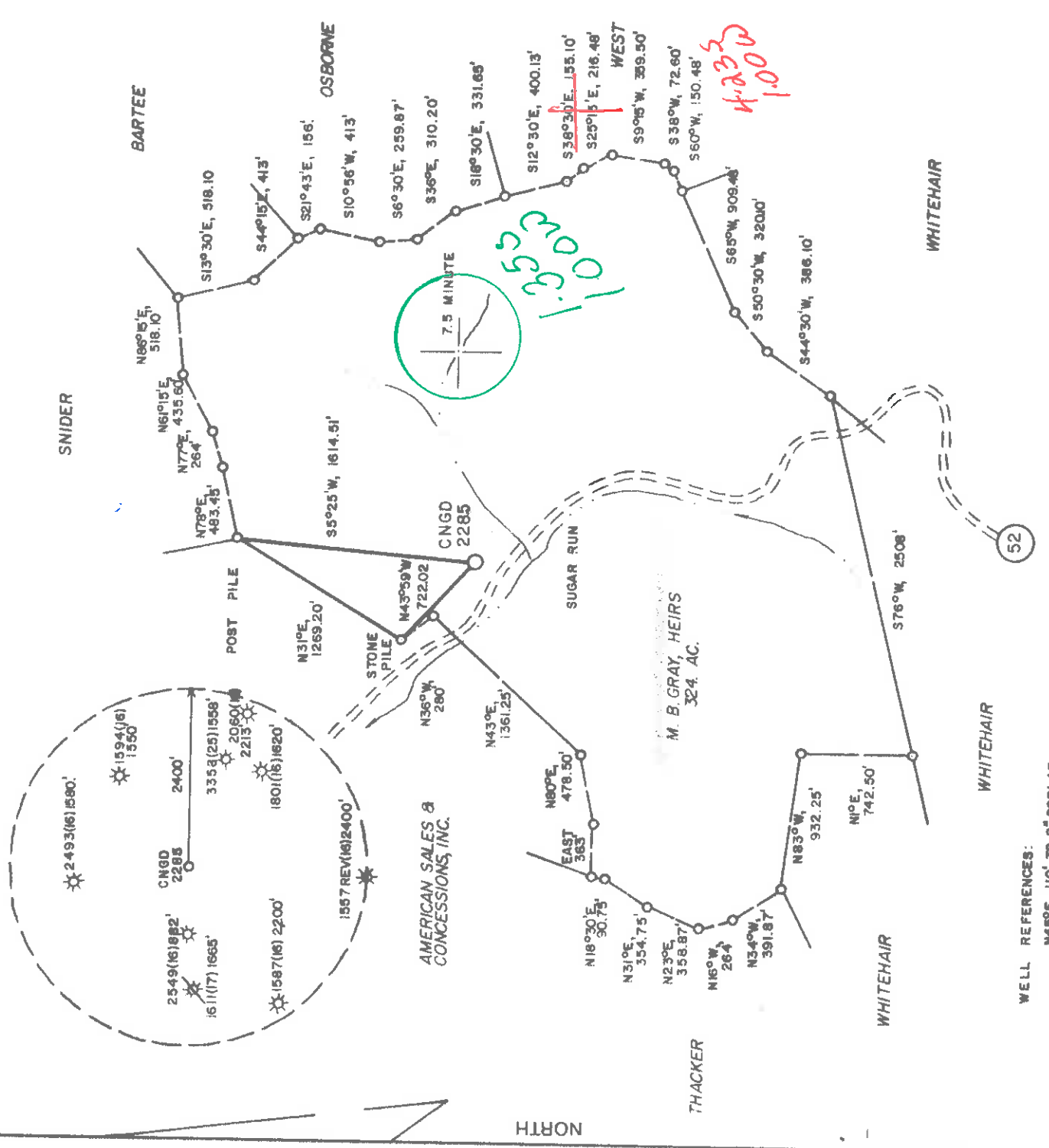


LATITUDE 39° 12' 30" 39 15
 LONGITUDE 80° 50' 00"



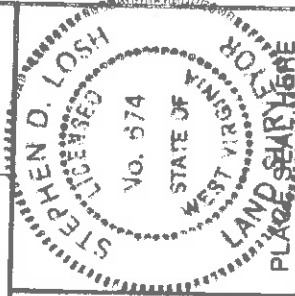
WELL REFERENCES:
 N45°E, 110' TO 9" POPLAR
 N32°W, 131' TO 5" LEANING RED MAPLE

LAND SURVEYING SERVICES
 1412 NORTH 18 TH ST
 CLARKSBURG, WY 26301
 PHONE: 304-623-1214

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) *Stephen D. Losh*

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION EXISTING WELL 2549
 882' WEST OF LOC. AT ELEV. 1011'

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH

DATE NOVEMBER 15, 1985
 OPERATOR'S WELL NO. CNGD 2285
 API WELL NO. _____

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS.") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 347' WATER SHED _____ SUGAR RUN _____
 DISTRICT _____ SOUTHWEST _____ COUNTY _____ DODDRIDGE _____
 QUADRANGLE _____ OXFORD 7.5 MINUTE 58 N.C.2 Holbrook
 SURFACE OWNER _____ JEFFREY TOWHER _____
 OIL & GAS ROYALTY OWNER _____ M. B. GRAY, HEIRS _____ LEASE ACREAGE 324.

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 LEASE NO. 64750

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION _____ ALEXANDER _____ ESTIMATED DEPTH 5100'
 WELL OPERATOR _____ CNG DEVELOPMENT COMPANY 142 _____ DESIGNATED AGENT _____ GARY A. NICHOLAS
 ADDRESS _____ PARK RIDGE CENTER _____ ADDRESS _____ RT. 2, BOX 698
 PITTSBURGH, PA 15244 b-l-6 Straight Forks Bluestone Creek (133) BRIDGEPORT, WY 26330

COUNTY NAME PERMIT

47-017-3491

JAN 21 1986



RECEIVED
MAY 07 1987

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date April 24, 1987
Operator's Well No. 2285
Farm M. B. Gray Heirs
API No. 47 -017 - 3491

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: 947 Watershed Sugar Run
District: Southwest County Doddridge Quadrangle Oxford

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 Jeffrey Lowther
6481 Silver Leaf Ave.
ADDRESS Reynoldsburg, OH 43068
MINERAL RIGHTS OWNER M. B. Gray Heirs
ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Rt. 2, Box 114
Salem, WV 26426

PERMIT ISSUED Jan. 10, 1986

DRILLING COMMENCED March 25, 1987

DRILLING COMPLETED March 30, 1987

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

Casing & Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	163	163	To Surf.
9 5/8			
8 5/8	1393	1393	To Surf.
7			
5 1/2			
4 1/2	5145	5145	160 sks
3			
2 1/2	4962	4962	-----
Liners used			

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5146 feet Rotary X / Cable Tools Depth 5100 feet

Water strata depth: Fresh 58 feet; Salt 1580 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 949 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 465 psig (surface measurement) after 1 hours shut in
(If applicable due to multiple completion--)

Second producing formation

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)

MAY 11 1987

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

Perforated Alexander 4976 - 5057, 32 holes, .37" HSC

Foam Frac - Breakdown 1600, Ave HHP 2 pumps, Ave Rate 20 BPM, Ave Pres. 2700#,
Max. Tr. Pres. 2910#, 750 gal FE Acid, 126,000# Total Sand, Max Conc. 6#/gal,
Total Fluid 413 (Clear), SL Fluid 235 bbl (Clear), ISIP 1340, 5 min 1180,
Total Nit. 782,644

RECEIVED
MAY 07 1987

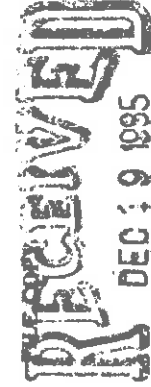
WELL LOG
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
KB - GL			0	10	
Soil, Shale, Sand & RR			10	1760	Damp @ 50'
L. Lime			1760	1780	Damp @ 90'
B. Limg			1780	1845	1/2" stream @ 110'
Shale			1845	1852	1/2" stream @ 355'
Injun			1852	1910	Damp @ 1580'
Sand & Shale			1910	3778	Oil @ 1150'
Balltown			3778	3860	Oil @ 1980'
Sand & Shale			3860	4647	
Benson			4647	4660	
Sand & Shale			4660	4912	
Alexander			4912	5026	
Sand & Shale			5026	5146	
<u>LOG TOPS</u> ✓					
Big Lime			1768	1838	
Big Injun			1838	1912	
Weir			2080	2210	
Berea			2272	2276	
Gordon			2470	2504	
Warren			3154	3200	
Speechley			3546	3612	
Balltown			3896	3966	
Bradford			4300	4342	
Benson			4712	4762	
Alexander			4956	5044	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator
By: Jack Miller
Date: Apr 29, 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
mineral, encountered in the drilling of a well."



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

- 4) WELL TYPE: A Oil Gas
B (If "Gas", Production Undergrnd storage Deep Shallow)
Elevation: 947 Watershed: Sugar Run
- 5) LOCATION: District: Southwest 14A County: Doddridge Quadrangle: Oxford
6) WELL OPERATOR CNG Development Co CODE: 10110 7) DESIGNATED AGENT Gary Nicholas
Address c/o Paul W. Garrett, 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
- 10) PROPOSED WELL WORK: Drill deeper Drill deeper Redrill Stimulate
Plug off old formation Perforate new formation
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander 439
12) Estimated depth of completed well, 5100 feet
13) Approximate trata depths: Fresh, 1273, 1278 feet; salt, - feet.
14) Approximate coal seam depths: Water & coal being mined in the area? Yes
- 15) CASING AND TUBING PROGRAM Water & coal from permit No. 47-017-3358 No _____

CASING OR TUBING TYPE	Size	Grade	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
			Weight per ft.	Per ft.	For drilling	Left in well		
Conductor	11-3/4	H-40	42	X	160	160	To Surface	By Rule 15.05
Fresh water								
Coal								
Intermediate	8-5/8	X-42	23	X	1400	1400	To Surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X	5100	5100	200-400	Depths set
Tubing	1-1/2	CN-55	2.75	X			CEAS FROM	By Rule 15.01
Lib...								Perforations:
								Top
								Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3491

January 10 19 86
Date

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 January 10, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <i>ASB</i>	Plat: <i>AS</i>	Casing	Fee	WPCP	S&E	Other
			<i>AS</i>	<i>12282</i>	<i>AS</i>	<i>AS</i>	

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

Director, Division of Oil and Gas
See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

