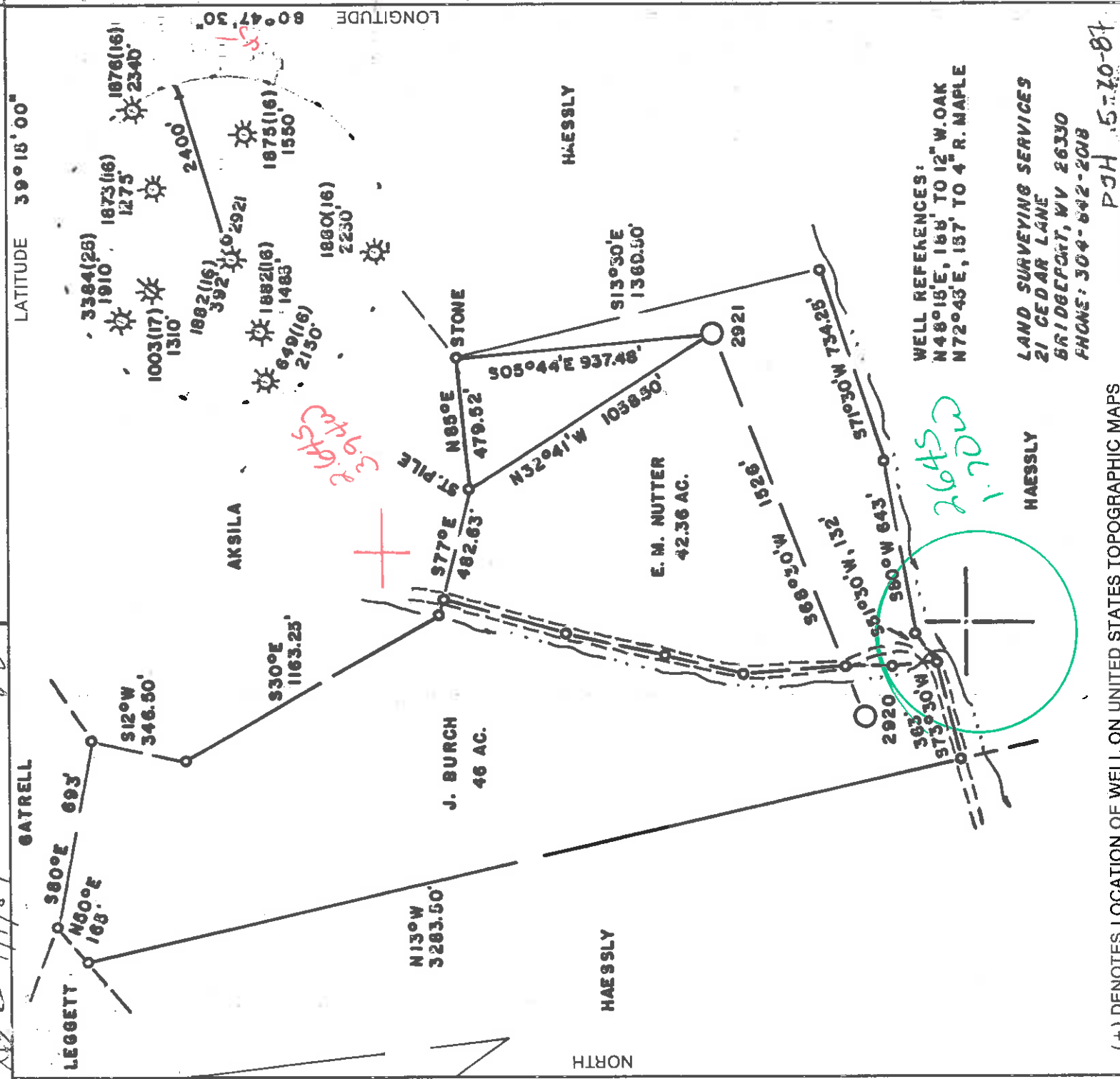


8/13 7/1/87



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

WELL REFERENCES:
 N48°15'E, 168' TO 12" W. OAK
 N72°43'E, 157' TO 4" R. MAPLE

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-642-2018
 PJH 5-10-87

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION CREEK CROSSING 2100'
 S.W. OF LOCATION ELEV. - 858'

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 ENERGY.
 (SIGNED) _____
 R.P.E. I.L.S. 674
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 24, 19 87
 OPERATOR'S WELL NO. 2921
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1040' WATER SHED SHEEP RUN
 DISTRICT SOUTHWEST 7 COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 min. 526 ACREAGE 42.22
 SURFACE OWNER HAESSLY HARDWOOD LUMBER SALES
 OIL & GAS ROYALTY OWNER E. M. MUTTER LEASE ACREAGE 42.36

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 DEVONIAN SHALE ESTIMATED DEPTH 5225'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. HIGHOLAS
 ADDRESS ONE PARK RIDGE CENTER 142 ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

66 Straight Fork- Bluestone Creek (133)

PERMIT JUL 20 1987



RECEIVED
NOV 25 1987
State of West Virginia
Department of Mines
Oil and Gas Division

Date November 18, 1987
Operator's Well No. CNGD WN 2921
Farm Nutter
API No. 47 - 017 - 3569

DIVISION OF OIL & GAS WELL OPERATOR'S REPORT
DEPARTMENT OF ENERGY 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: 1040 Watershed Sheep 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
Bridgport, WV 26130
SURFACE OWNER Haessly Hardwood Lbr. Sales
Rt. 1, Newport Pike
Marietta, OH 45750
MINERAL RIGHTS OWNER E. M. Nutter
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK
Mike Underwood ADDRESS Rt. 2, Box 114
Salem, WV 26426
PERMIT ISSUED July 17, 1987
DRILLING COMMENCED Oct. 17, 1987
DRILLING COMPLETED Oct. 22, 1987

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"	245	245	To Surf.
9 5/8			
8 5/8	1265	1265	To Surf.
7			
5 1/2			
4 1/2	5143	5143	535 sks
3			
2 1/2	4963	4963	---
Liners used			

GEOLOGICAL TARGET FORMATION Dev. Shale Depth 5225 feet
Depth of completed well 5225 feet Rotary X / Cable Tools
Water strata depth: Fresh 87 feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 4983-5031 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 267 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 860 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)
NOV 30 1987

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

Perforated Alexander 4983-5031, 27 holes, .39" HSC
 70Q Foam Frac - Breakdown 1400, 2 kumps, Ave Rate 20, Ave Pr 2700, Max Tr Pr 2990,
 Total Acid 500 gal, Total Sand 120,000#, Max Conc. 6, Total Fluid (slurry) 525 bbl,
 SL Fluid 364 bbl, Total N2 695,000 SCF, ISIP 1350, 5 min 1250.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil			0	7	
Sand, Shale & RR			7	1694	Damp @ 87'
L. Lime			1694	1713	@ 1050'
Sand & Shale			1713	1725	
B. Lime			1725	1820	
Sand & Shale			1820	2038	
Weir			2038	2122	
Sand & Shale			2122	2233	
Berea			2233	2240	
Sand & Shale			2240	3472	
Speechley			3472	3610	
Sand & Shale			3610	3814	
Balltown			3814	3940	
Sand & Shale			3940	4062	
Bradford			4062	4120	
Sand & Shale			4120	4528	
Riley			4528	4542	
Sand & Shale			4542	4746	
Benson			4746	4758	
Sand & Shale			4758	4850	
Leopold			4850	4860	
Sand & Shale			4860	4971	
Alexander			4971	5052	
Sand & Shale			5052	5225	
LOG TOPS ✓					
Big Lime			1730	1790	
Big Injun			1790	1876	
Weir			2030	2154	
Gantz			2346	2380	
Warren			3092	3154	
U. Speechley			3212	3270	
Speechley			3490	3566	
Balltown			4052	4092	
Benson			4708	4760	
Alexander			4964	5042	

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 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

ONG DEVELOPMENT COMPANY
 Well Operator

By: 

Date: November 18, 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
 lithology, encountered in the drilling of a well."

FORM WW-2 (B) FILE COPY
RECEIVED
 JUN 30 1987

1) Date: May 21, 1987
 2) Operator's Well No. CNGD 2921
 3) API Well No. 47 017 3569
 State County Permit



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
 5) LOCATION: Elevation: 1040 Watershed: Sheep Run County: Doddrige Quadrangle: Oxford
 District: Southwest 7) DESIGNATED AGENT Gary Nicholas
 6) WELL OPERATOR CNG Development Co CODE: 1010 Address Crosswind Corporate Park
Address c/o Cheryl S. Hartle P.O. Box 15746
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 Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Alexander

11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5225 feet
 13) Approximate trata depths: Fresh, 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.	For drilling	Left in well		
Conductor							
Fresh water	11-3/4	H-40	42	250 240	250	To surface	By rule 15.05
Coal							
Intermediate	8-5/8	X-42	23	1250	1250	To surface	By rule 15.05
Production	4-1/2	J-55	10.5	5225	5225	200 - 400	Depths set
Tubing	1-1/2	CN-55	2.75				By rule 15.01
Liners							Perforations:
							Top
							Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3569 Date July 17 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.
 Permit expires JULY 17, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:	Other:
				215	
				19913	

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.

