

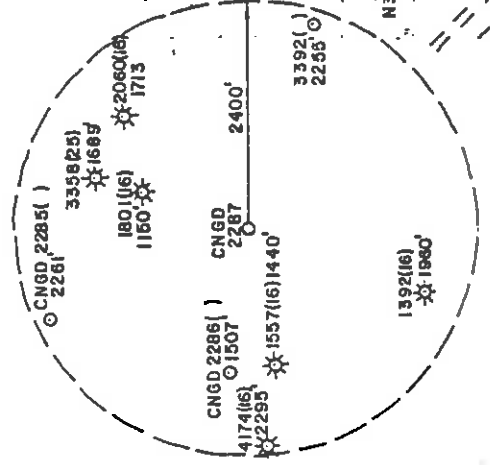
4/18/86

LATITUDE 39° 12' 30"

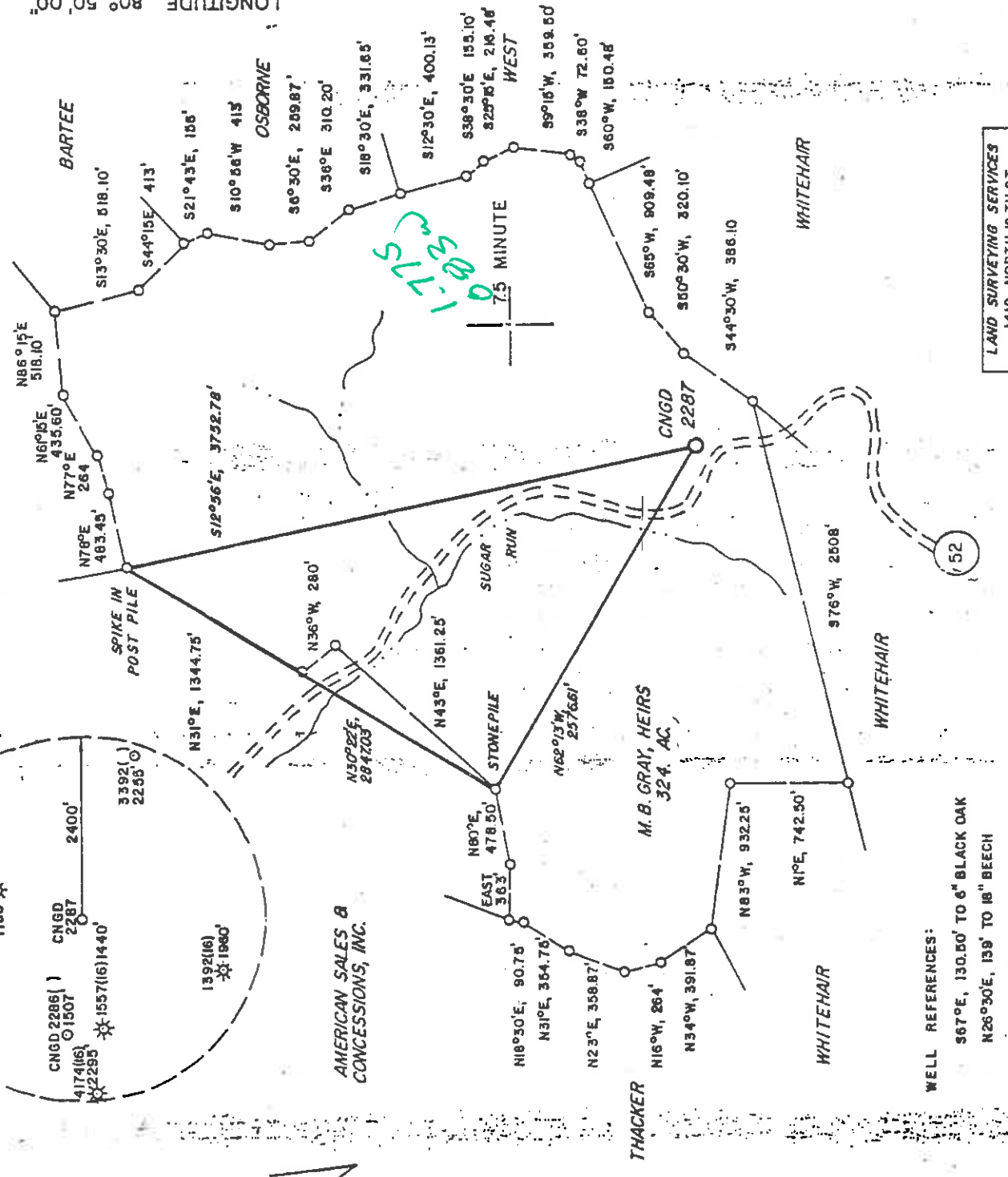
4390

LONGITUDE 80° 50' 00"

02 1893



AMERICAN SALES & CONCESSIONS, INC.



WELL REFERENCES:

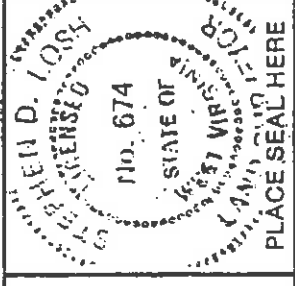
S67°E, 130.50' TO 6" BLACK OAK
N26°30'E, 139' TO 18" BEECH

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

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 3080' W
 OF LOCATION AT ELEVATION 1277'

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) *Stephen D. Losh*
 R.P.E. _____ L.I.S. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JANUARY 30, 19 86
 OPERATOR'S WELL NO. CNGD 2287
 API WELL NO. 47-017-3498W

STATE COUNTY PERMIT
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1050' WATER SHED SUGAR RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 MINUTE

SURFACE OWNER JEFFREY LOWTHER
 OIL & GAS ROYALTY OWNER M. B. GRAY HEIRS
 LEASE NO. 64750

PROPOSED WORK: DRILL X 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 5230'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
 PITTSBURGH PA 15244

PERMIT 3498
 782-1043

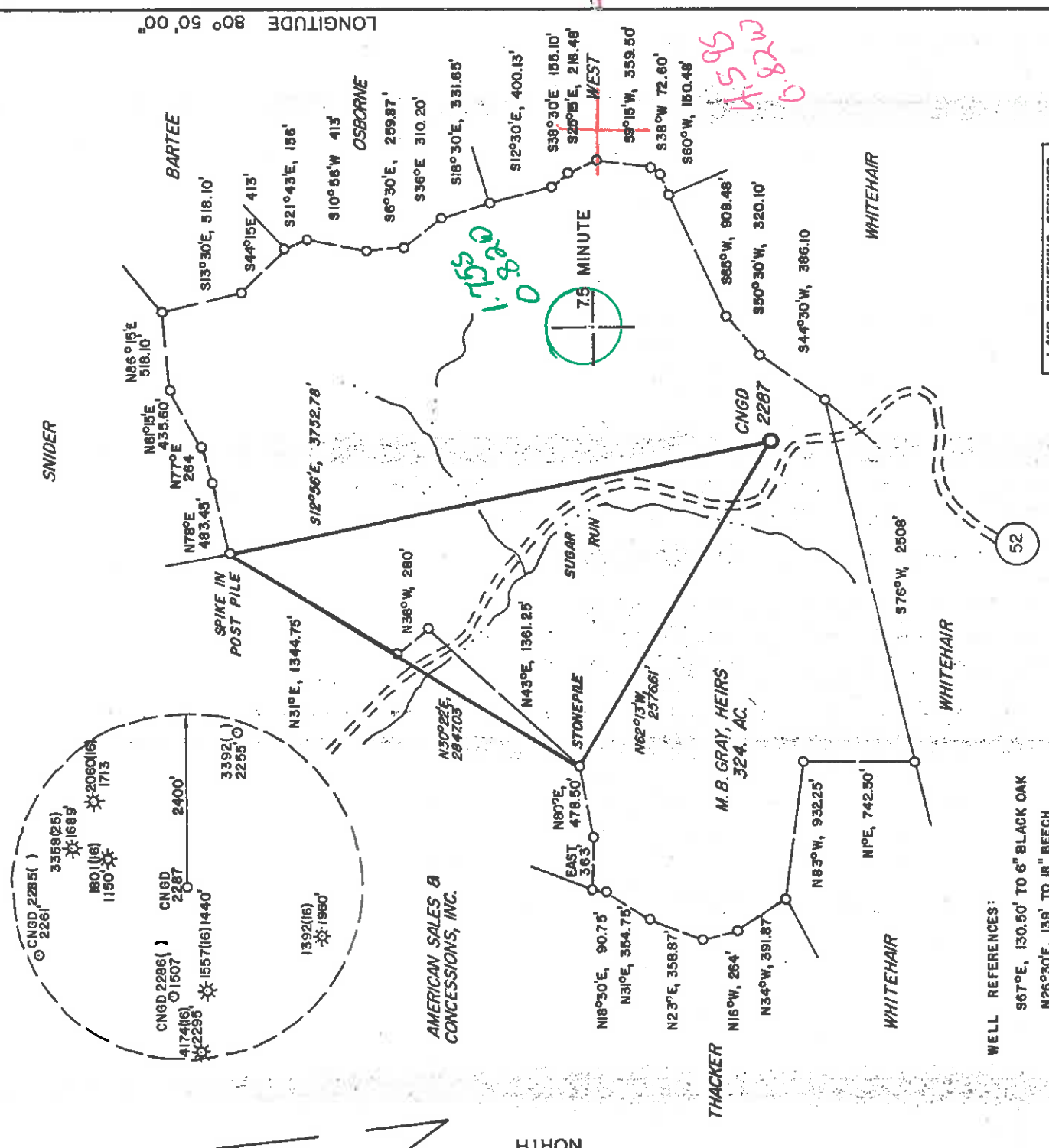
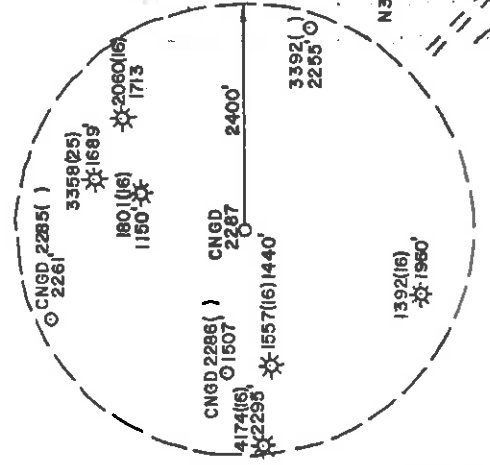
As 4/18/86

39 15 4390

LATITUDE 39° 12' 30"

LONGITUDE 80° 50' 00"

CODE CARD PLOT



WELL REFERENCES:
 S67°E, 150.50' TO 6" BLACK OAK
 N26°30'E, 139' TO 18" BEECH

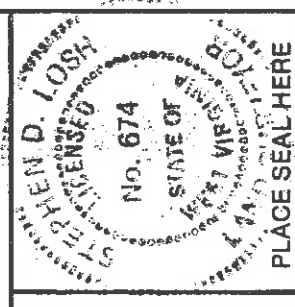
LAND SURVEYING SERVICES
 1412 NORTH 18 TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1" IN 200'
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 3080' W.
 OF LOCATION AT ELEVATION 1277'

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) *Stephen D. Losh*

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JANUARY 30, 19 86
 OPERATOR'S WELL NO. CNGD 2287
 API WELL NO. _____

47-017-3498 PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1050' WATER SHED SUGAR RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 MINUTE 526 ACRES
 SURFACE OWNER JEFFREY LOWTHER ACREAGE 324
 OIL & GAS ROYALTY OWNER M.B. GRAY, HEIRS LEASE NO. 64750

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 ALEXANDER ESTIMATED DEPTH 5230'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLS 28 1988
 ADDRESS ONE PARK RIDGE CENTER 112 ADDRESS RT. 2, BOX 698
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

6-6 Straight Fork - Bluestone Creek (133)

APR 28 1986

WR-35

22-Apr-98
API # 47- 17-03498 W

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

Well Operator's Report of Well Work

Farm name: Jeffery Lowther Operator Well No.: WV02287

LOCATION: Elevation: 1,050.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 9285 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 4390 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: CNG PRODUCING COMPANY
RR 2 BOX 698
BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 04/22/98
Well work Commenced: 08/07/98
Well work Completed: 08/21/98
Verbal Plugging
Permission granted on: _____ Rig
Rotary Cable _____
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.

RECEIVED
Office of Oil and Gas
Punting
OCT 19 1998
By: Rodney J. Biggs

OPEN FLOW DATA

Benson
RILEY

Producing formation B. Injun

Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d Pay zone depth (ft) 4698-4704 (18)

Final open flow* 119 MCF/d Final open flow _____ Bbl/d 4389-4395 (18)

Time of open flow between initial and final tests _____ Hours 1920-1968 (20)

Static rock Pressure 350 psig (surface pressure) after _____ Hours

* Commingled with existing production

Second producing formation _____

Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d Pay zone depth (ft) _____ 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.

Rodney J. Biggs

For: CNG PRODUCING COMPANY

By: Rodney J Biggs, Production Manager, Appalachian Region
Date: 10/09/98

OCT 19 1998

Dodd 3498W

CNGP WV02287

08/03/98 MOVED IN RIG. PULLED 144 JTS. 1 1/2" TUBING. CHECKED T.D. AT 5135'.

08/07/98 MEEKS WIRELINE SET B.P. AT 2100'. B.P. DID NOT TEST. SPOTTED SAND ON BRIDGE PLUG. SHOT 4 HOLES AT 2053'. HALLIBURTON CEMENTED WITHN 100 SKS. DISPLACED TO 2080'.

08/10/98 MEEKS RAN CBL. T.O.C. AT 1490'.

08/17/98 KEY PERFORATED AND BJ FRACED AS FOLLOWS:

Benson , 4698-4704', 478 BBLs, TOT SAND 30,000#

RILEY , 4389-4395', 463 BBLs, TOT SAND 30,000#

B. T. J. W., 1920-1968', 425 BBLs, TOT SAND 26,000#

WELL FLOWING TO PIT.

08/21/98 F.O.F. = 119 MCFD - 50#

09/08/98 RELEASED RIG 9/2/98. T.B.I.L. DID NOT GET B.P. DRILLED OUT.

RECEIVED
AUG - 8 1986

IV-35
(Rev 8-81)
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia
Department of Mines
Oil and Gas Division

Date July 28, 1986
Operator's
Well No. 2287
Farm Gray Heirs
API No. 47 - 017 - 3498

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1050 Watershed Sugar Run
District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG Development Company
ADDRESS P.O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Garv A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgeport, WV 26330
SURFACE OWNER Jeffrey Lowther
ADDRESS 6481 Silver Leaf Ave
Reynoldsville, OH 43068
MINERAL RIGHTS OWNER M. R. Gray Heirs
ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK
Rt. 2 Box 114
Mike Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED April 18, 1986
DRILLING COMMENCED 6/25/86
DRILLING COMPLETED 7/9/86

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

Casing Tubing Size 20-16 COND.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
13-10"	224	224	To Surf.
9 5/8			
8 5/8	1490	1490	To Surf.
7			
5 1/2			
4 1/2	5226	5226	310 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5230 feet
Depth of completed well 5239 feet Rotary X / Cable Tools
Water strata depth: Fresh 50 feet; Salt feet
Coal seam depths: 1270 - 14275 1250 - 1203 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5025 - 79 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 696 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 1250 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)

AUG 25 1986

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

Perforated Alexander 5025 - 79, 36 holes, .39" dia, 3-1/8" Hollow Gun
Foam Frac w/2% KCl Alexander - Gel 30#Mgal, Break 1100, Ballout 3900 psi/0 bpm,
Ave. Tr. Pr. 3180 psi, Max Tr. Pr. 3370 psi, Ave. Rate 25 bpm, Silica Flour 100#
10,000# 80/100 Sand, 145,000# 20/40 Sand, Max Conc 7#/gal, S.L. Fluid 876 bbl,
Total Fluid 1476 bbl foam, ISIP (prejob w/water 800 psi, ISIP post job w/water 1250 psi,
5 min 1200 psi, N₂ SCF 1,068,450

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	Hole Damp @ 50' 1" stream @ 195' Damp @ 1040' Coal 13 - 14 1270 - 1275 1350 - 1352 1400 - 1405
Soil & Shale			10	13	
Coal			13	14	
Sand, Shale & RR			14		
Coal			1270	1270	
Sand & Shale			1275	1350	
Coal			1350	1352	
Sand & Shale			1352	1400	
Coal			1400	1405	
Sand & Shale			1405	1790	
Coal			1790	1815	
Sand, & Shale			1790	1815	
Lime			1815	1845	
Sand			1815	1957	
Big Lime & Injun			1845	1957	
Sand & Shale			1957	4760	
Benson			4760	4785	
Sand & Shale			4785	5239	
			4785	TD.	
<u>ELECTRIC LOG TOPS</u> ✓					
Little Lime			1800	1814	
Big Lime			1848	1914	
Big Injun			1914	1970	
Weir			2142	2270	
Berea/Gantz			2333	2370	
Gordon			2534	2564	
Warren			3192	3256	
Upper Speechley			3474		
Speechley			3588		
Balltown			3880		
Bradford			4250		
Riley			4514		
Benson			4696	4750	
Leopold			4890	4910	
Alexander ✓			5014	5083	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator [Signature]
By: [Signature]
Date: July 28, 1986

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
minerals, encountered in the drilling of a well."



1) Date: April 3, 1986
2) Operator's Well No. 2287
3) API Well No. 47-017-3498
State County Permit



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 /
5) LOCATION: Elevation: 1050 Watershed: Sugar Run
District: Southwest County: Doddridge Quadrangle: Oxford
6) WELL OPERATOR CNG Development Co CODE: 1010 7) DESIGNATED AGENT Gary Nicholas
Address c/o Paul W. Garrett, P.O. Box 15746 Rt. 2, Box 698, Bridgeport, WV 26330
Pittsburgh, PA 15244
8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mike Underwood
Address Route 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 / deeper / Drill deeper / 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, 5230 feet
13) Approximate traia depths: Fresh, 195 feet; salt, 1276 feet; ← Permit # 000, 1557
14) Approximate coal seam depths: 1400 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	Left in well		
Conductor	1-3/4	H-40	42	X					
Fresh water								to Surface	By Rule 15.05
Coal									
Intermediate	8-5/8	X-42	23	X	1500	1500		to Surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X	5230	5230		200-400	Depths set
Tubing	1-1/2	CN-55	2.75	X					By Rule 15.01
Liner									Perforations:
									Top
									Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3498

Date April 18 1986

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 18, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	AS	AS	AS	13957	AS	AS	

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.

John H. Plunster by Margaret L. Hauer
Director, Division of Oil and Gas

File

