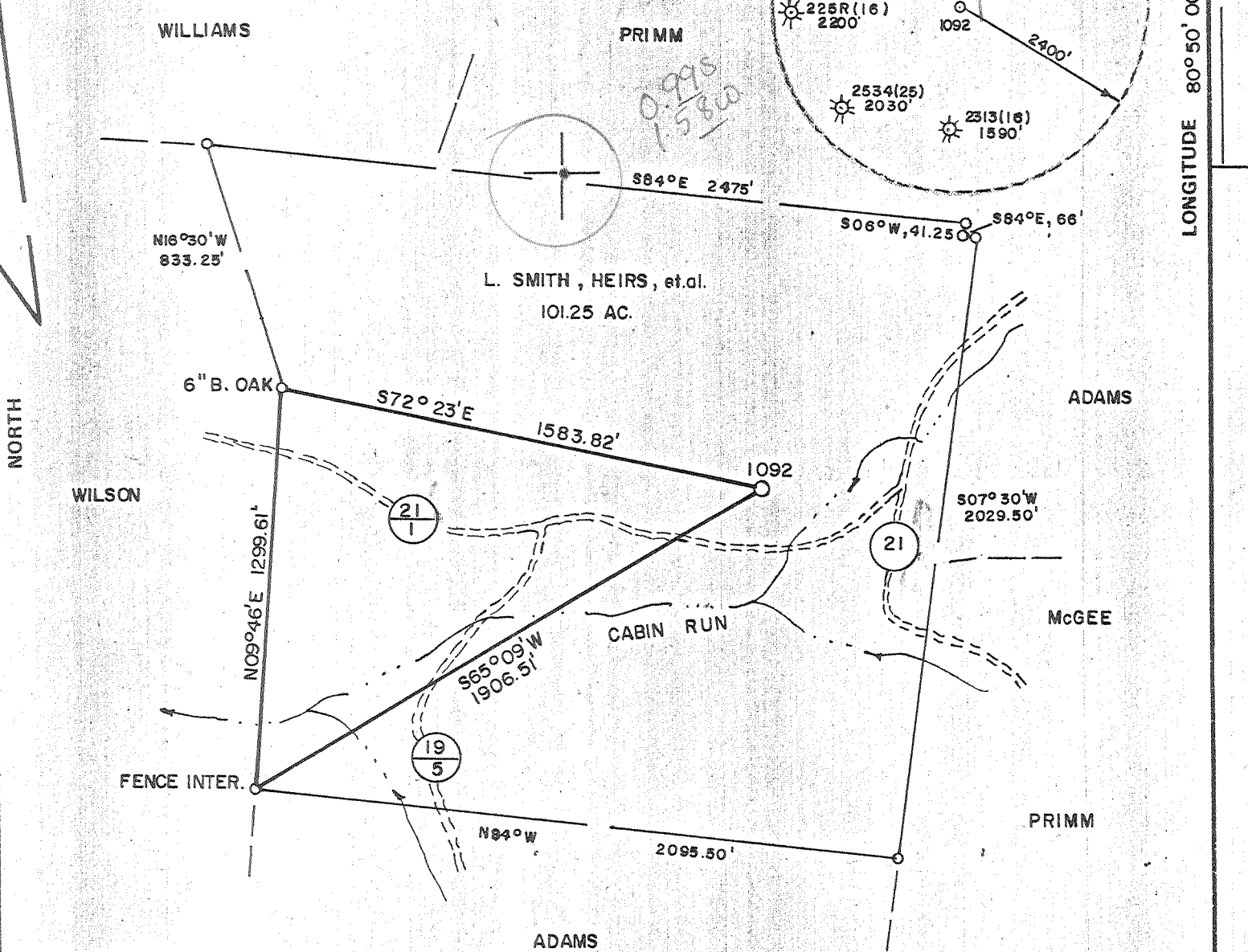
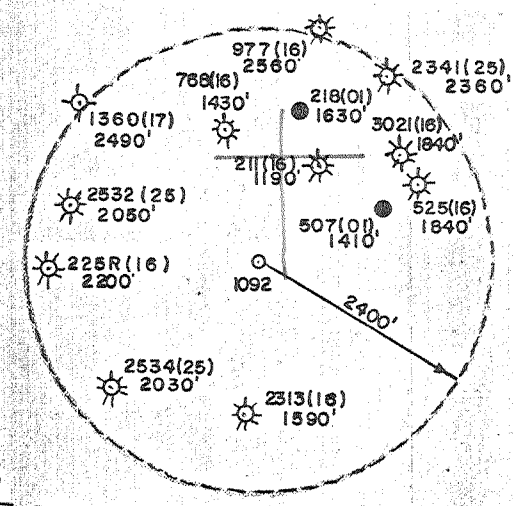


LATITUDE 39°15'00" LONGITUDE 80°50'00"

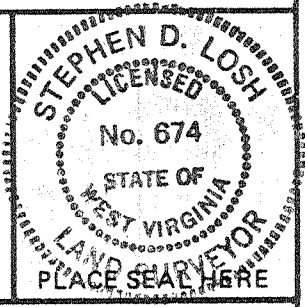
WELL REFERENCES:
 N27°E, 92' TO POWER POLE
 N47°W, 178.30' TO 6" CHERRY



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 750' WEST OF LOCATION ELEV. - 865'

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
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



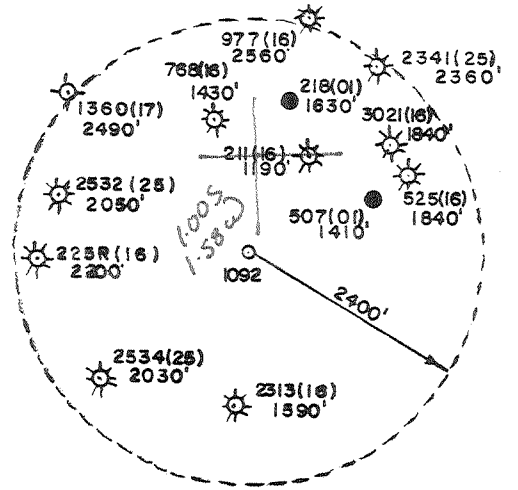
DATE JULY 31, 19 84
 OPERATOR'S WELL NO. 1092
 API WELL NO. 47 - 017 - 3421-F
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 904' WATER SHED CABIN RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 min. 524 058 NCV
 SURFACE OWNER D. B. ADAMS ACREAGE 98.56
 OIL & GAS ROYALTY OWNER LUELLA SMITH, HEIRS et al. LEASE ACREAGE 307
 LEASE NO. C-23460
 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 5350'
 WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK
 PITTSBURGH, PA 15224 RT. 2, BOX 698 BRIDGEPORT, WV 26330

owwo - 6.6 Straight Fort - Bluestone Creek
 AUG 25 1986
 (133)

0421
 3421
 DODD

WELL REFERENCES:
N27°E, 92' TO POWER POLE
N47°W, 178.50' TO 6" CHERRY



WILLIAMS

PRIMM

L. SMITH, HEIRS, et al.
101.25 AC.

N16°30'W
833.25'

S84°E 2475'

S06°W, 41.25' S84°E, 66'

6" B. OAK

S72° 23'E
1583.82'

ADAMS

WILSON

N09°46'E 1299.61'

(21)
1

S07° 30'W
2029.50'

CABIN RUN

McGEE

S65° 09'W
1906.51'

(19)
5

FENCE INTER.

N84°W

2098.50'

PRIMM

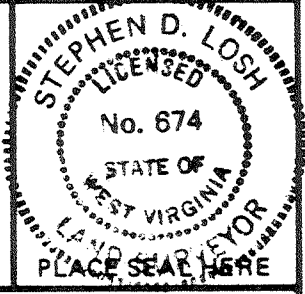
ADAMS

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION RD. INTER. 750' WEST OF LOCATION ELEV. - 865'

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
R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JULY 31, 19 84
OPERATOR'S WELL NO. 1092
API WELL NO. _____
47 - 017 - 3421
STATE COUNTY PERMIT

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 904' WATER SHED CABIN RUN

DISTRICT CENTRAL COUNTY DODDRIDGE

QUADRANGLE 526 OXFORD 7.5 min. Holbrook 15' Nc2

SURFACE OWNER D. B. ADAMS ACREAGE 98.56

OIL & GAS ROYALTY OWNER LUELLA SMITH, HEIRS et al. LEASE ACREAGE 307

LEASE NO. C-23460

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

MAR 25 1985

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ 6-6 Straight Fork-Bluestone

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5350' Creek (133)

WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK

IV-35
(Rev 8-81)

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NOV 21 1986



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 12, 1986
Operator's
Well No. CNGD 1092
Farm Williams
API No. 47 - 017 - 3421E

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: 904 Watershed Cabin Run
District: Central 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 D. B Adams
ADDRESS Rt. 1
West Union, WV 26456
MINERAL RIGHTS OWNER Luella Smith Hrs., et al
ADDRESS _____

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

PERMIT ISSUED August 21, 1986
DRILLING COMMENCED 8/21/86
DRILLING COMPLETED 8/21/86

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

Casing Tubing Size 20-16 Cord.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2 1-1/2	2184	2184	-----
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well _____ feet Rotary ___ / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA
Producing formation Weir Pay zone depth 2202-16
2230-42 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 87 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 350 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)

DEC 1 1986

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

Set Alpha Solid Plug @ 4360' KB, Perforated Weir 2202-16, 14 holes, .39" HSC,
2230-42, 14 holes, .39" HSC

Halliburton 70Q Foam Frac - Breakdown 3200, Ave HHP 2260, Ave Rate 30, Ave Pres. 2900,
Max Tr Pres. 3200, Total Acid 750 gal MOD 202, Ballout w/60 balls, Total Sand 8,000# 80/100
150,000 20/40, Max Conc. 7#/gal, Total Fluid (Clean fluid) 452 bbl, SL Fluid (Clean Fluid)
308 bbl, ISIP 1800 psi, 5 min 1600 psi, Total Nit. 845,000 SCF.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres: and salt water, coal, oil and ga:
Sd., Sh. & RR			0	1880	Damp at 845'
Lime Shale			1880	1905	
Lime & Injun			1905	2035	
Sh. & Sd.			2035	5350	
<u>LOG TOPS</u>					
See attached sheet					

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By:

Gary A. Nichols

Date:

November 12, 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
encountered in the drilling of a well."

RECEIVED

MAY - 6 1985

OIL & GAS DIV.
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date April 23, 1985
Operator's
Well No. CNGD WN 1092
Farm Williams
API No. 47 - 017 - 3421

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: 904' Watershed Cabin Run
District: Central County Doddridge Quadrangle Oxford 7.5'

COMPANY CNG DEVELOPMENT COMPANY
ADDRESS 1 Park Ridge Center, P.O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgeport, WV 26330
SURFACE OWNER D. B. Adams
ADDRESS Rt. 1, West Union, WV 26456
MINERAL RIGHTS OWNER Luella Smith, Hrs. et al
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Mike Underwood ADDRESS Rt. 2 Box 114, Salem, WV
PERMIT ISSUED 3-21-85
DRILLING COMMENCED 4-1-85
DRILLING COMPLETED 4-8-85
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.			
11-3/4 9 5/8	161	161	To Surf.
8 5/8	2023	2023	To Surf.
7			
5 1/2			
4 1/2	5303	5303	200 This 400 50750
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5350 feet
Depth of completed well 5350 feet Rotary / Cable Tools
Water strata depth: Fresh 845 feet; Salt feet
Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Alexander
Benson
Riley Pay zone depth 5101 - 5153
4668 - 4687
4439 - 4443 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 474 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 300 psig (surface measurement) after 1 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)

MAY 20 1985

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

Superior Perforated Alexander 5101 - 5153; 13 holes (.39)
 Benson 4684 - 4687 (3) 4668 - 4670 (3)
Riley 4439 - 4443 (8) 14 holes; (.39)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sd, Sh & RR			0	1880	Damp at 845'
Lime Shale			1880	1905	
Lime & Injun			1905	2035	
Sh & Sd			2035	5350	
<u>LOG TOPS</u>					
See attached Sheet					
				T.D. EUK@T.D.	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: *Gary A. Miller*

Date: April 23, 1985

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 coal, encountered in the drilling of a well."

CNGD Well No. 1092
Williams
API No 47-017-3421

LOG TOPS ✓

Big Injun		2033
Weir	2202	2327
Sunberry Sh.	2373	2391
Berea	2391	2395
50'	2504	2548
30'	2548	2592
Gordon Stray	2592	2627
Gordon	2665	2750
Fourth	2760	2839
Fifth	2839	2903
Warren	3248	3328
Spcl St	3556	3618
Spcl	3805	3855
Bltn	3972	4292
Bdfd	4320	4510
Riley	4667	4830
Benson	4830	4896
Leopold	4990	5642
Alexander	5082	5165

MAY 20 1985

RECEIVED
JUL 30 1986



1) Date: July 14, 1986
2) Operator's Well No. 1092
3) API Well No. 47-017-3421-F
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 / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 904 Watershed: Cabin Run
District: Central 142 County: Doddridge Quadrangle: Oxford 525
- 6) WELL OPERATOR ENG Development Co CODE: 10110 7) DESIGNATED AGENT Gary Nicholas
Address 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
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 / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) See attached sheet
- 11) GEOLOGICAL TARGET FORMATION, Weir 387
- 12) Estimated depth of completed well, 2324 feet
- 13) Approximate strata 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	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS		
		Grade	Weight per ft.	New	Used		For drilling	Left in well	Kinds
Conductor	<u>11 3/4</u>						<u>161</u>	<u>CTS</u>	Kinds
Fresh water									
Coal	<u>8 5/8</u>						<u>2023</u>	<u>CTS</u>	Sizes
Intermediate									
Production	<u>4 1/2</u>						<u>5303</u>	<u>200 TANK 400 50/50</u>	Depths set
Tubing									
Linings									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3421-F August 21 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 August 21, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ALB</u>	Plat: <u>KS</u>	Casing: <u>AS</u>	Fee: <u>1461/134</u>	WPCP: <u>KS</u>	S&E: <u>MS</u>	Other: <u>[Signature]</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas

File

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



1) Date: September 10, 1985
 2) Operator's Well No. 1092
 3) API Well No. 47 - 017 - 3421
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 904' Watershed: Cabin Run
 District: Central County: Doddridge Quadrangle: Oxford 7.5'
- 6) WELL OPERATOR CNG Development Company 10110 7) DESIGNATED AGENT Mr. 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 9) DRILLING CONTRACTOR:
 Name Mr. Mike Underwood Name Sam Jack Drilling Company
 Address Rt. 2, Box 114 Address P. O. Box 48
Salem, WV 26426 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Plug off new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5350 feet
 13) Approximate strata depths: Fresh, 2105 feet; salt, FEB 27 1985 feet.
 14) Approximate coal seam depths: - Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM

RECEIVED

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP FOR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor							Kinds
Fresh water	11-3/4	H-40	42	X		135' 00" / 135' 40"	To surface By Rule 15.05
Coal							Sizes
Intermediate	8-5/8	X-42	23	X		2000 / 2000	To surface By Rule 15.05
Production	4-1/2	J-55	10.5	X		5350 / 5350	200-400 sks Depths set
Tubing	1-1/2	CN-55	2.75	X			By Rule 15.01
Liners							Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3421 Date March 21, 1985

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 March 21, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>6967</u>
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Margaret J. Hase
 Administrator, Office of Oil and Gas

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