

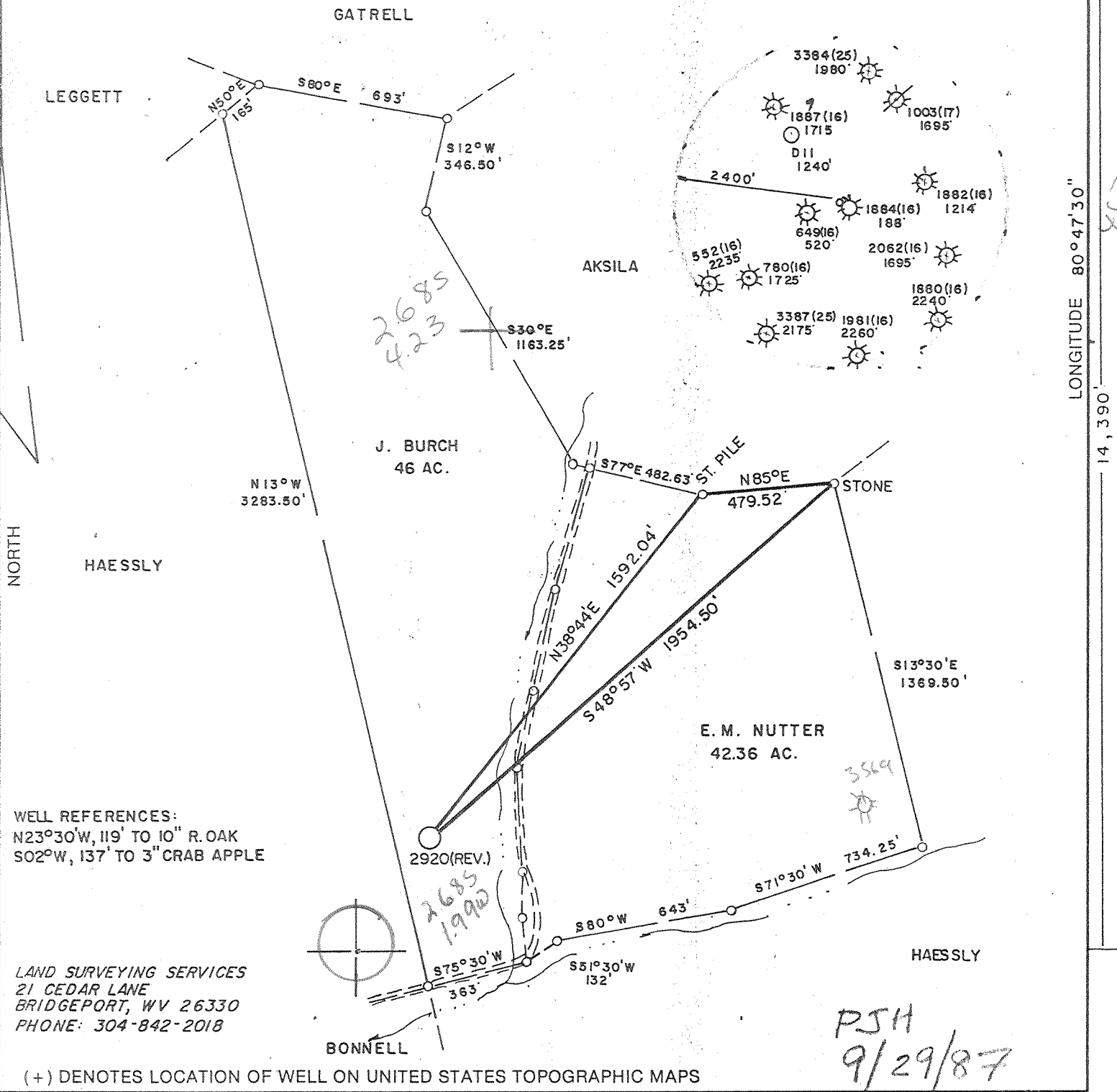
88 11/10/87

10,580'

LATITUDE 39°15'00"

LONGITUDE 80°47'30"

14,390'



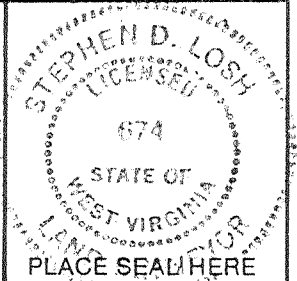
WELL REFERENCES:
 N23°30'W, 119' TO 10" R. OAK
 S02°W, 137' TO 3" CRAB APPLE

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION CREEK CROSSING 600'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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE SEPTEMBER 04, 19 87
 OPERATOR'S WELL NO. 2920 (REV.)
 API WELL NO. 47-017-3613
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1026' WATER SHED SHEEP RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 min. 526 058 WE3 Holbrook
 SURFACE OWNER MATTHEW J. & DANA H. AKSILA ACREAGE 44.89
 OIL & GAS ROYALTY OWNER J. BURCH LEASE ACREAGE 46
 LEASE NO. DV-17935

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 5280'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

NOV 23 1987

6-6 Straight Fork-Bluestone Creek (133)

COUNTY NAME
 PERMIT

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 12/21/87 - SUPERIOR PERF. ALEXANDER 4981 - 5053, 31 HOLES,
 .43; BENSON 4712 - 4716, 20 HOLES, .39; BALLTOWN 4060 - 4097
 20 HOLES, .39. DOWELL GEL WATER FRAC - 1ST STAGE - 32# GEL,
 BREAKDOWN 3500, AVE HHP 1960, AVE RATE 40 BPM, AVE PR 2000,
 MAX TR PR 2950, 900 GAL 15% ACID, 75,000# 20/40 SAND, MAX
 CONC. 5, TOTAL FLUID 936 BBL, SL FLUID 621 BBL, ISIP 1130,
 5 MIN SIP 1000. 2ND STAGE - 30# GEL, BREAKDOWN 2375, AVE
 HHP 1340, AVE RATE 30 BPM, AVE PR 1805, MAX TR PR 2370, 500
 GAL 15% ACID, 60,200# SAND, MAX CONC 5, TOTAL FLUID 735,
 SL FLUID 505, ISIP 1290, 5 MIN SIP 1035. 3RD STAGE - 35#
 GEL, BREAKDOWN 1450, AVE HHP 1938, AVE RATE 35 BPM, AVE PR
 2260, MAX TR PR 3120, 500 GAL 15% ACID, 51,500# SAND, MAX
 CONC 5, TOTAL FLUID 692, SL FLUID 467, ISIP 1200, 5 MIN 1060

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and c
Sand, Shale & RR			0	1705	Damp 968'
L. Lime			1705	1717	Damp 1072'
Sand & Shale			1717	1742	2" stream water 1280'
B. Lime & Injun			1742	1880	
Sand & Shale			1880	5326	
LOG TOPS ✓					
Big Lime			1734	1810	
Big Injun			1810	1890	
Weir			2046	2170	
Warren			3108	3166	
U. Speechley			3180	3270	
Balltown			4060	4102	
Bradford			4284	4326	
Riley			4516	4532	
Benson			4710	4772	
Alexander			4960	5070	

RECEIVED
JAN 07 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By: Mary A. Nicholas/mcc

Date: 12/30/87

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."

(Obverse)
7/85



RECEIVED
NOV 03 1987

1) Date: October 12, 19 87
2) Operator's Well No. CNGD 2920 Rev.
3) API Well No. 47 State 017 County 3613 Permit

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

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1026 Watershed: Sheep Run
District: Southwest 7 County: Doddridge 017 Quadrangle: Oxford 525
- 6) WELL OPERATOR CNG Development Co CODE: 10110 7) DESIGNATED AGENT Gary Nicholas
Address c/o Cheryl S. Hartle 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: Name Sam Jack Drilling Co.
Address Route 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 / Perforate new formation /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5280 feet
- 13) Approximate strata depths: Fresh, 370, 50, 64, 70 feet; salt, gnd - @ 1245-1300 feet.
- 14) Approximate coal seam depths: 290 Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM From Doddridge 017, 1003, 1877,

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	11-3/4	H-40	42	X		40	40	To surface	By rule 15.05 Sizes <u>38CSR18-11.3</u>
Coal									
Intermediate	8-5/8	X-42	23	X		1175	1175	To surface	By rule 15.05
Production	4-1/2	J-55	10.5	X		5280	5280	200 - 400	Depths set <u>38CSR18-11.2.2</u>
Tubing	1-1/2	CN-55	2.75	X		5180	5180		By rule 15.01 Perforations: <u>38CSR19-11.1</u>
Liners									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47 017 3613 11/19 19 87
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 11/19/89 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>230</u>	WCP: <input checked="" type="checkbox"/>	S&F: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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20793

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.