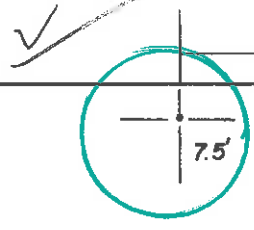


828 6/3/87



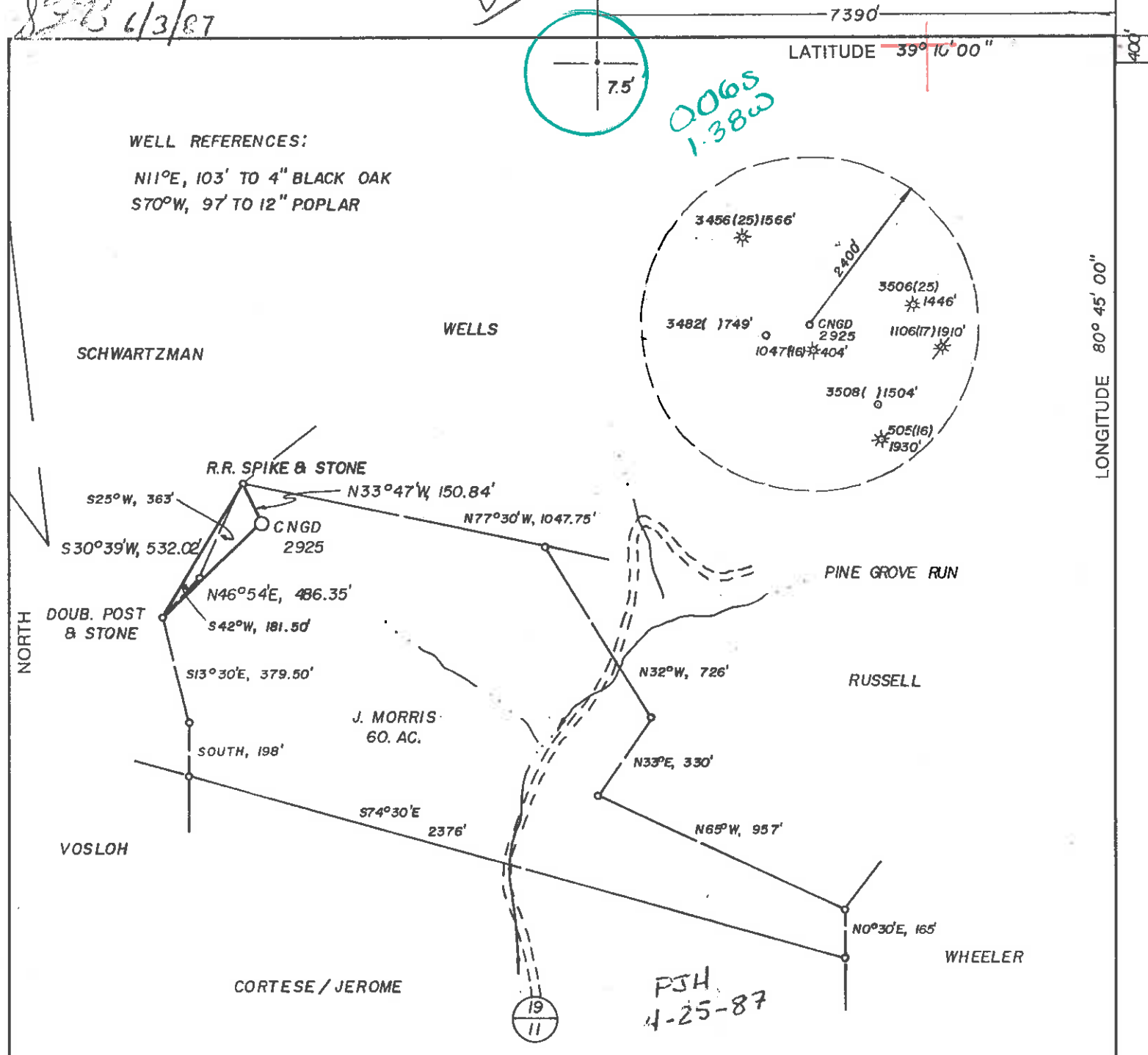
7390

LATITUDE 39° 10' 00"

LONGITUDE 80° 45' 00"

WELL REFERENCES:
N11°E, 103' TO 4" BLACK OAK
S70°W, 97' TO 12" POPLAR

0065
1.38W



LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-208

(+) 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 WELL 1047(16) 404' SE. OF LOCATION AT ELEV. 1143'

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MARCH 23, 1987
OPERATOR'S WELL NO. CNGD 2925
API WELL NO. 47-017-3601
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1180' WATER SHED MIDDLE FORK
DISTRICT COVE COUNTY DODDRIDGE
QUADRANGLE OXFORD 7.5' 526 058 EC6 Holbrook
SURFACE OWNER C. A. LIEBER ACREAGE 60.
OIL & GAS ROYALTY OWNER J. MORRIS LEASE ACREAGE 60.
LEASE NO. 13416

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 ALEXANDER ESTIMATED DEPTH 5500'
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
ADDRESS ONE PARK RIDGE CENTER ADDRESS ROUTE 2, BOX 698
PITTSBURGH, PA 15244 142 BRIDGEPORT, WV 26330

6-6 Straight Fork-Bluestone Creek (133)

H.T. HALL 48873 FORM WW-6

COUNTY NAME PERMIT



IV-35
(Rev 8-81)

Date December 16, 1987
Operator's
Well No. 2925
Farm J. Morris
API No. 47 - 017 - 3601

RECEIVED
JAN 07 1988

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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: 1180 Watershed Middle Fork
District: Cove 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 C. A. Lieber
ADDRESS 3634 S. 215th St. W Box 3268
Goddard, KS 67052
MINERAL RIGHTS OWNER J. Morris
ADDRESS _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1616	1616	To Surf.
7			
5 1/2			
4 1/2	4802	4802	385 sks.
3			
2-3/8	4418	4418	---
Liners used			

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

PERMIT ISSUED October 26, 1987
DRILLING COMMENCED Nov. 18, 1987
DRILLING COMPLETED Nov. 23, 1987

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

GEOLOGICAL TARGET FORMATION Alexander Depth 5500 feet
Depth of completed well 4662 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 43 feet; Salt _____ feet
Coal seam depths: -0- Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Bradford Pay zone depth 4447-4457 feet
Balltown 3991-4029
Speechley 3281-3385
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 475 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)

JAN 11 1988

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 12/8/87 - SUPERIOR PERF. BRADFORD 4447 - 4457, 20 HOLES, .39
 BALLTOWN 3991 - 4029, 18 HOLES, .39; SPEECHLEY 3281 - 3385,
 26 HOLES, .39. DOWELL WATER FRAC 1ST STAGE - BREAK, 2300
 AVE HHP 1940, AVE RATE 33 BPM, AVE PR 2400, MAX TR PR 3300,
 500 GAL 15% ACID, TOTAL SAND 11,100#, MAX CONC. 2, TOTAL
 FLUID 318, SL FLUID 184, ISIP 760, 2ND STAGE - BREAK 2100,
 AVE HHP 1960, AVE RATE 34 BPM, AVE PR 2350, MAX TR PR 2940,
 500 GAL 15% ACID, TOTAL SAND 35,700#, MAX CONC 3, TOTAL
 FLUID 667 BBL, SL FLUID 365 BBL, ISIP 1700, 5 MIN 1000,
 3RD STAGE - BREAK, 1400, AVE HHP 1220, AVE RATE 35 BPM,
 AVE PR 1420, MAX TR PR 2000, 500 GAL 15% ACID, TOTAL SAND
 59,800#, MAX CONC 5, TOTAL FL 863, SL FLUID 559, ISIP 970,
 5 MIN 680

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and g.
Clay & Fill Sand, Shale & RR L. Lime Sand Big Lime Sand, Shale & RR	0 5 1870 1870 1891 1910 1910 1990 1990	5 1870 1891 1910 1910 4662	Hole Wee @ 43' - 1" stream
LOG TOPS ✓			
Big Lime Big Injun Well Berea Gordon Gp. Warren U. Speechley Balltown	1919 1986 2192 2394 2580 3238 3310 3990	1986 2062 2302 2400 2634 3290 3390 4034	

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By: *[Signature]*

Date: December 17, 1987

Note: Regulation 2.02(t) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 well, encountered in the drilling of a well."

FORM WW-2(B) FILE COPY
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OCT 07 1987



1) Date: September 24, 19 87
2) Operator's Well No. CNGD 2925
3) API Well No. 47 State 017 County 3601 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: 1180 / Watershed: Middle Fork
District: Cove / 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:
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 / 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, 5500 feet
- 13) Approximate strata depths: Fresh, - feet; salt, 1411 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.	New	Used	For drilling		
Conductor								Kinds <u>38CSR18-11.3</u>
Fresh water	<u>1 1/4</u>	<u>H-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>40</u>	<u>40</u>	To surface <u>By rule 15.05</u>
Coal								Sizes <u>38CSR18-11.3</u>
Intermediate	<u>3-5/8</u>	<u>X-42</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1600</u>	<u>1600</u>	To surface <u>By rule 15.05</u>
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5500</u>	<u>5500</u>	200 - 400 <u>By rule 15.05</u>
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<input checked="" type="checkbox"/>				Depths set <u>38CSR18-11.1</u>
Liners								By rule <u>15.01</u>
								Perforations:
								Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3601 Date October 26 19 87

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 October 26, 1989 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>233</u>	Other: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
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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 J. Underwood / Margaret J. House
Director, Division of Oil and Gas File

