

5/19/87

699

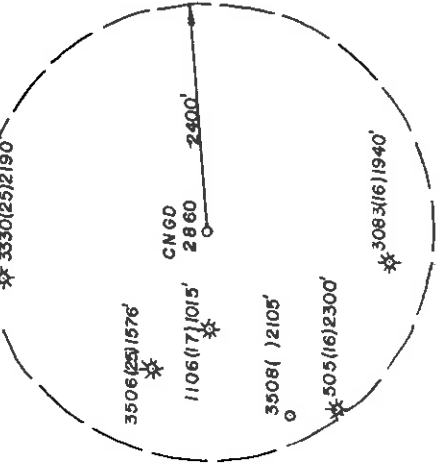
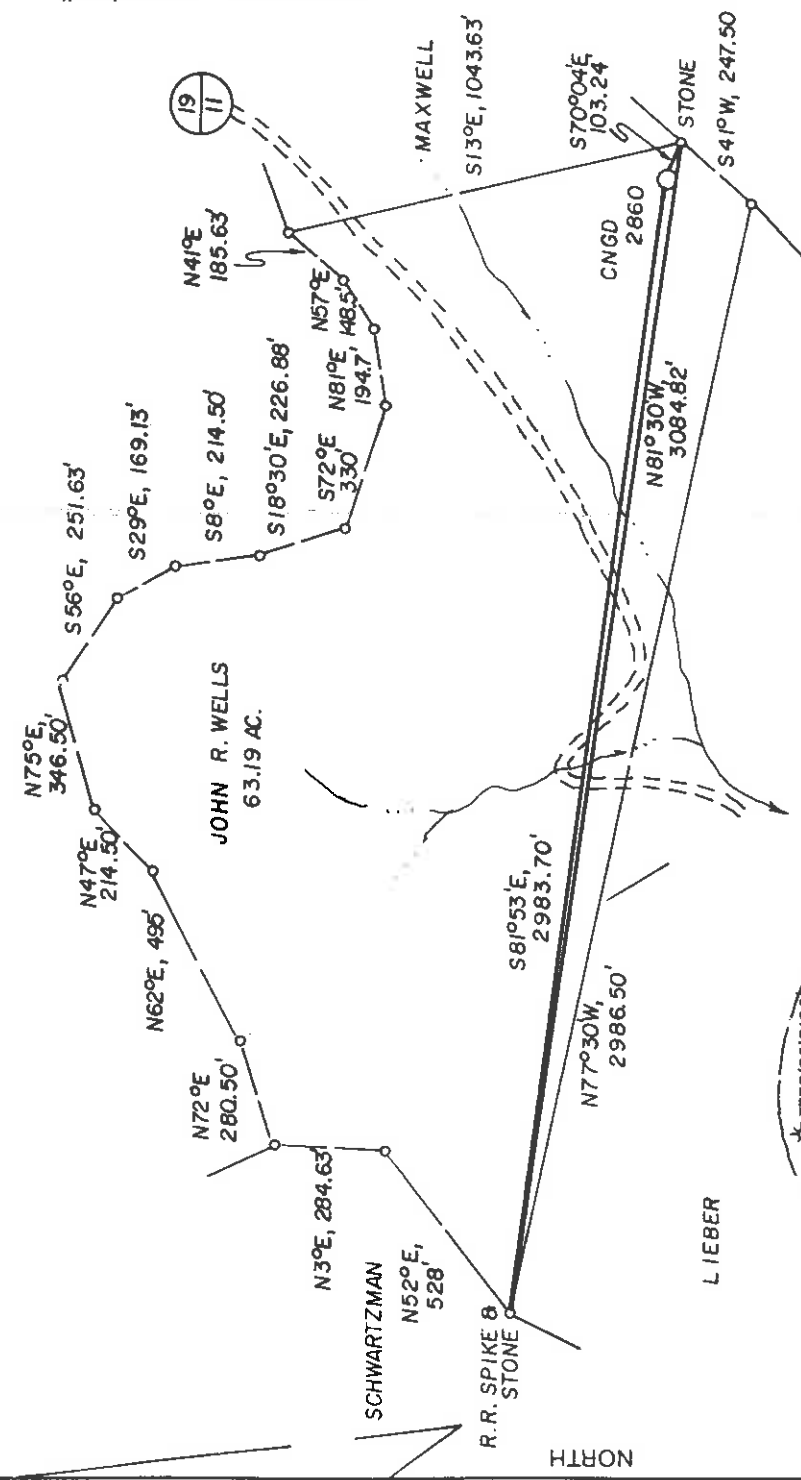
LATITUDE 39° 10' 00"

LONGITUDE 80° 45' 00"



0.12  
0.85

SCHWARTZMAN



WELL REFERENCES:  
 S16°45'W, 120' TO WHITE OAK (10")  
 N87°E, 138' TO 8" HICKORY

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 PLUGGED WELL 1106  
 1015' WEST OF LOC. AT ELEV. 1044'

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. \_\_\_\_\_ L.L.S. NO. 674  
 STEPHEN D. LOSH

PLACE SEAL HERE



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE MARCH 18, 19 87  
 OPERATOR'S WELL NO. CNGD 2860  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1305' WATERSHED MIDDLE FORK  
 DISTRICT COVE COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5  
 SURFACE OWNER JOHN R. WELLS  
 OIL & GAS ROYALTY OWNER APPALACHIAN ROYALTIES, INC. LEASE ACREAGE 63.19  
 LEASE NO. DV 17

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 5605'  
 WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS ROUTE 2, BOX 698  
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

DODD COUNTY NAME  
 3541 PERMIT

NOV 20 1989

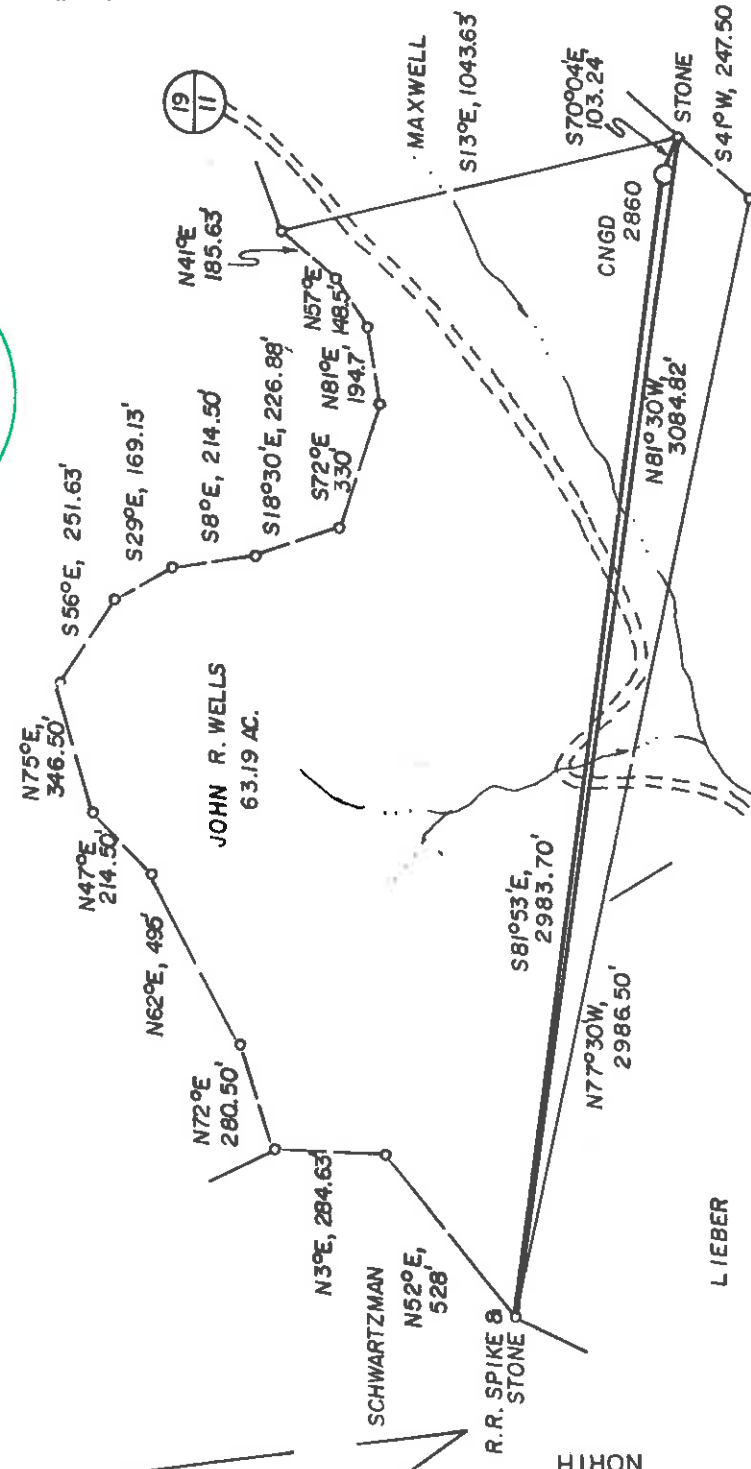
89FB 5/19/87

44.90

LATITUDE 39° 10' 00"  
7.5'

LONGITUDE 80° 45' 00"

SCHWARTZMAN



WELL REFERENCES:

S16°45'W, 120' TO WHITE OAK (10")  
N87°E, 138' TO 8" HICKORY

P 5/11/87  
J-L

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 PLUGGED WELL 1106  
1015' WEST OF LOC. AT ELEV. 1044'

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. \_\_\_\_\_ I.L.S. NO. 674  
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE MARCH 18, 19 87  
OPERATOR'S WELL NO. CNGD 2860  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1305' WATER SHED \_\_\_\_\_ MIDDLE FORK \_\_\_\_\_  
DISTRICT COVE  COUNTY DODDRIDGE

SURFACE OWNER QUADRANGLE OXFORD 7.5 526 058 EC4  
OIL & GAS ROYALTY OWNER APPALACHIAN ROYALTIES, INC. LEASE NO. DV 17  
LEASE NO. \_\_\_\_\_ ACREAGE 63.19

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 5605'  
WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS  
ADDRESS ONE PARK RIDGE CENTER ADDRESS ROUTE 2, BOX 698  
PITTSBURGH, PA 15244 142 BRIDGEPORT, WV 26330

H.T. HALL 48873 FORM WW-6

COUNTY NAME

PERMIT

JUN 1 1987

47-017-3541 PERMIT

1) Date: April 16, 19 87  
 2) Operator's Well No. CNGD 2860  
 3) API Well No. 47 State 017 County 3541 Permit



**RECEIVED**  
MAY 08 1987

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

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

4) WELL TYPE: A Oil  Gas  B (if "Gas", Production  Underground storage  Deep  Shallow   
 5) LOCATION: Elevation: 1305 Watershed: Middle Fork County: Doddridge 017 Quadrangle: Oxford 525  
 District: Cove  
 6) WELL OPERATOR: CNG Development Co. CODE: 10110 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.  
Sallem, WV 26426 Address P.O. Box 48  
Ruckhannon, 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, 5605 feet  
 12) Estimated depth of completed well, 5605 feet  
 13) Approximate trata depths: Fresh, 7485-7535 feet; salt,        feet.  
 14) Approximate coal seam depths: -135 Is coal being mined in the area? Yes  No

15) CASING AND TUBING PROGRAM see 017-2836 / 3506

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	11-3/4	H-40	42	X			
Fresh water							By rule 15.05
Coal							By rule 15.05
Intermediate	8-5/8	X-42	23	X	1700	To surface	By rule 15.05
Production	4-1/2	J-55	10.5	X	5605	200 - 400	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 47-017-3541

Date May 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 May 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"/>	Case: <input checked="" type="checkbox"/>	Fee: <u>18148</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <u>202</u>
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*[Signature]*  
 Director, Division of Oil and Gas

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.

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