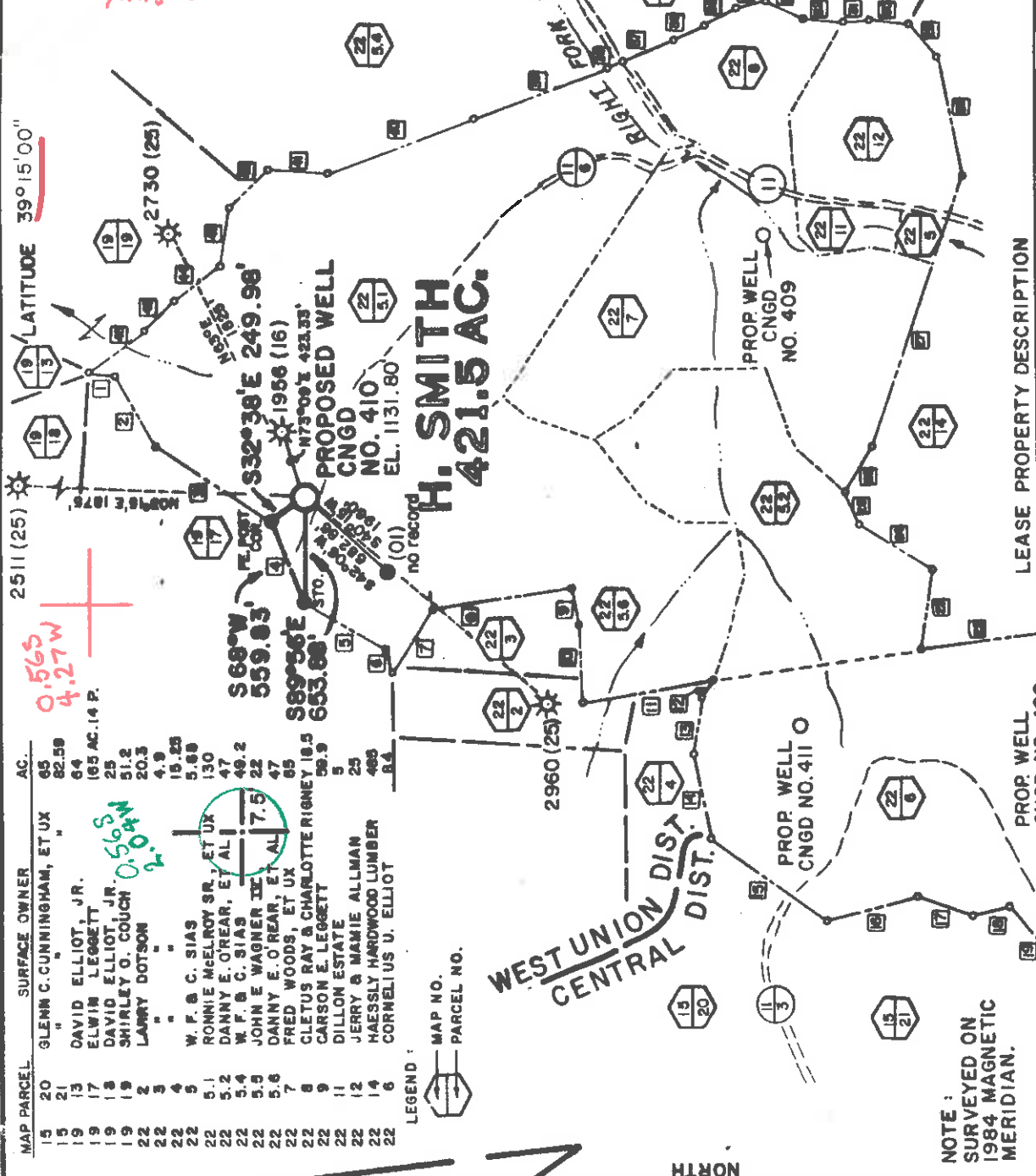


2,950'

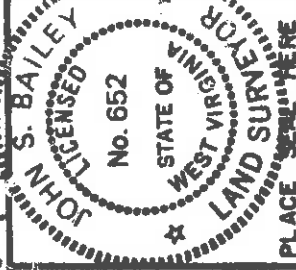
LATITUDE 39°15'00" LONGITUDE 80°47'30"



MAP PARCEL	SURFACE OWNER	AC.
15	GLENN C. CUNNINGHAM, ET UX	65
20	DAVID ELLIOT, JR.	64
21	ELWIN LEGGETT	165 AC. 14 P.
17	DAVID ELLIOT, JR.	25
18	SHIRLEY O. COUCH	51.2
19	LARRY DOTSON	20.3
22	"	4.9
2	"	19.25
3	"	5.88
4	"	47
5	W. F. & C. SIAS	49.2
6	RONNIE MCELROY SR., ET UX	7.5
7	DANNY E. O'NEAR, ET AL	22
8	W. F. & C. SIAS	47
9	JOHN E. WAGNER ET AL	65
10	DANNY E. O'NEAR, ET UX	18.5
11	FRED WOODS, ET UX	29.3
12	CLETUS RAY & CHARLOTTE RIGNEY	9
13	CARSON E. LEGGETT	25
14	DILLON ESTATE	480
15	JERRY & MAMIE ALLMAN	R.A.
16	HAESSLY HARDWOOD LUMBER	
17	CORNELIUS U. ELLIOT	

LEASE PROPERTY DESCRIPTION

1	310°E 165'
2	1960°W 500'
3	533°W 805'
4	568°W 559.83
5	5332°W 571'
6	6375°W 150'
7	557°30'E 487'
8	508°E 860'
9	578°30'W 530'
10	1888°W 400'
11	1309°E 800'
12	121°46°W 117'
13	180°W 338'
14	579°W 537'
15	536°W 890'
16	516°E 564'
17	519°W 341'
18	512°07'E 212.99'
19	550°W 541'
20	527°30'W 497'
21	179°30'E 2360'
22	110°W 915'
23	581°E 550'
24	132°30'E 508'
25	164°E 202'
26	559°E 305'
27	571°E 1750'
28	178°E 760'
29	149°E 280'
30	107°E 252'
31	110°W 173'
32	108°30'E 294'
33	127°E 258'
34	117°W 203'
35	581°E 550'
36	131°W 219'
37	21°W 310'
38	21°W 98'
39	20°W 880'
40	21°W 948'
41	104°30'E 345'
42	148°W 346'
43	184°W 358'
44	138°30'W 348'
45	150°W 294'
46	134°30'W 404'



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) *John S. Bailey*
 R.A.P.E. L.L.S. 652

PREPARED BY MSES CONSULTANTS.

FILE NO. MSES-84-290

DRAWING NO. _____

SCALE 1" = 1000'-0"

MINIMUM DEGREE OF ACCURACY 1 PART IN 200

PROVEN SOURCE OF ELEVATION IN N. OF RT. 11 & 11/6; ELEV. 922'

DATE JANUARY 18 19 84

OPERATOR'S WELL NO. CNGD NO. 410

API WELL NO. 47-017-3794

STATE COUNTY PERMIT



Department of Mines
 Oil & Gas Division

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL SHALLOW DEEP

(IF "GAS", PRODUCTION STORAGE WATER SHED RIGHT FORK

LOCATION: ELEVATION 1131.80' DISTRICT WEST UNION & 5.24 COUNTY DODDRIDGE

QUADRANGLE OXFORD 7.5' 1964 (PHOTOINSPECTED 1976) ACREAGE 130 0.58

SURFACE OWNER RONNIE MCELROY SR., ET UX LEASE ACREAGE 450 AC. (421.5 Per Abstract)

OIL & GAS ROYALTY OWNER UNION NATIONAL BANK, ET AL

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 ESTIMATED DEPTH 5600'

TARGET FORMATION ALEXANDER 147

WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK ROUTE 2, BOX 698 BRIDGEPORT, WV 26330

ALLEN BLUEPRINT Co. 4 6-6 Straight Fork - Blue-Stone Creek, W. Va. Charleston, WV



DEPT. OF MINES
 OIL & GAS DIVISION
 DEPARTMENT OF MINES
 STATE OF WEST VIRGINIA

Date 05/30/84
 Operator's Farm H. Smith
 Well No. CNGD 410
 API No. 47 - 017 - 3294

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: 1131.8 Watershed Right Fork

District: West Union County Doddridge Quadrangle Oxford 7.5' (1964)

COMPANY CNG DEVELOPMENT COMPANY

ADDRESS P O BOX 15746, PITTSBURGH, PA 15275

DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS RT 2, BOX 698, BRIDGEPORT, WV 26330

SURFACE OWNER RONNIE MCELROY, SR.

ADDRESS RT 1, BOX 72, WEST UNION, WV 26456

MINERAL RIGHTS OWNER UNION NATIONAL BANK, et al

ADDRESS P O BOX 442, CLARKSBURG, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK
H.M. Rt. 2 Box 114

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED 03/26/84

DRILLING COMMENCED 04/26/84

DRILLING COMPLETED 05/01/84

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

Casing & Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1940	1940	To Surf
7			
5 1/2			
4 1/2	5486	5486	525 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5600 feet

Depth of completed well 5556 feet Rotary X / Cable Tools

Water strata depth: Fresh 70' / 145' feet; Salt

Coal seam depths: 220 - 225 / 1270' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5278 - 5303 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 — hours

Static rock pressure 1000 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

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

Perfo Perforated; 5278 - 5303; 10 holes (.39")

Halliburton Foam Fractured; 70,000# Sand, 500 gal. MOD 202 acid, 830,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill & R.R.			0	15	Including indication of all fresh and salt water, coal, oil and gas
Sd & Sh & R.R.			15	220	70'; 1/4" H ₂ O 145', 1" H ₂ O
Coal			220	225	1270', 1/2" H ₂ O
R.R., Sd & Sh			225	1965	200' - 225' Coal
Lime			1965	2045	
Injun			2045	2140	
Sd & Sh			2140	5556 T.D.	Alex @ TD
<u>LOG TOPS</u>					
Big Injun			2075	2157	
Gordon Stray/Gordon			2710	2876	
Balltown			4175	4400	
Benson			4991	5017	
Alexander			5237	5324	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By:



Date:

May 30, 1984

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."

1) Date: February 7, 19 84
 2) Operator's Well No. 410
 3) API Well No. 47 - 017 - 3294 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: 1131.8 Watershed: Right Fork (Photoinspected 1976)
 District: West Union County: Doddridge
 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas
 Address One Park Ridge Center, 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 Mr. H. M. Underwood
 Address Rt. 2, Box 114
Salem, WV 26426
 9) DRILLING CONTRACTOR:
 Name Sam Jack Drilling Company
 Address P. O. Box 48
Buckhannon, 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, 5550
 12) Estimated depth of completed well, 5550 feet
 13) Approximate true depths: Fresh, 800 feet; salt, 1550 feet.
 14) Approximate coal seam depths: Is coal being mined in the area? Yes DEPT. OF MINES

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	11-3/4	H-40	42		X			By rule 15.05
Fresh water								Sizes
Coal	8-5/8	X-42	23		X	<u>1231</u>	<u>1750</u>	By Rule 15.05
Intermediate	4-1/2	J-55	10.5		X	5550		Depths set
Production	1-1/2	CN-55	2.75		X			<u>OR AS RES. BY RULE 15.05</u>
Tubing								Perforations:
Liners								Top
								Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3294

March 26, 19 84

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 March 26, 1986

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

Bond: <u>BLANKET</u>	Agent: <u>SA M H M H</u>	Plat:	Casing	Fee
				<u>000-</u>
				<u>237</u>

[Signature]

Administrator, Office 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.

File

