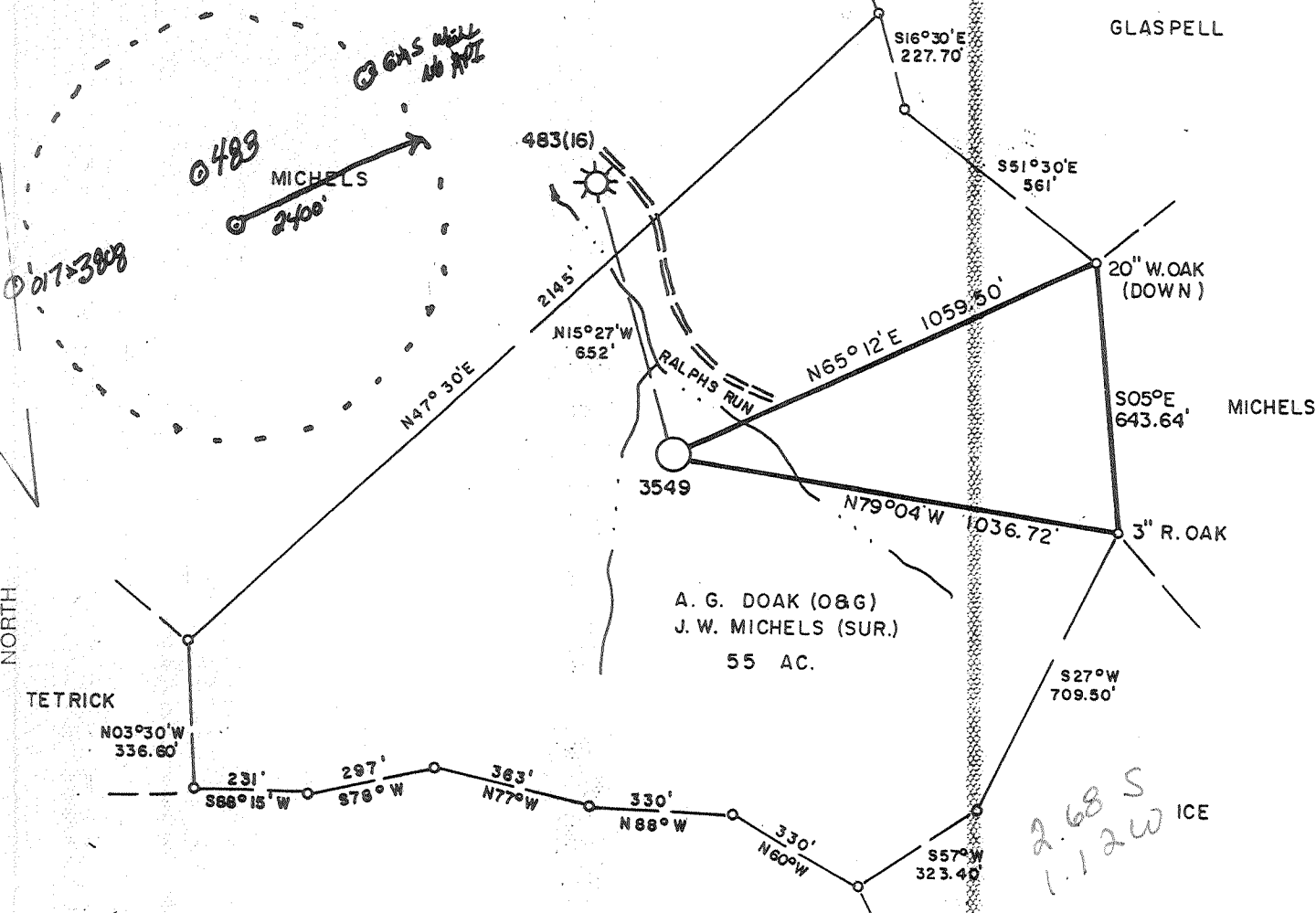


WELL REFERENCES:
 S30°15'W, 181' TO 12" SUGAR
 N75°30'W, 145' TO 10" WALNUT

Janie 4/13/90

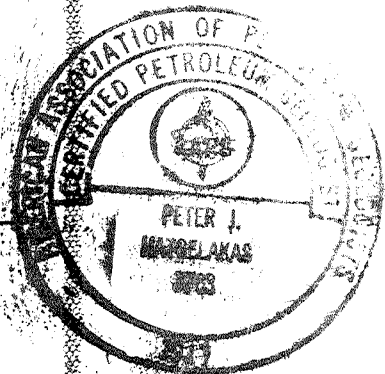
5940' LATITUDE 39° 25' 00"



LONGITUDE 80° 40' 00" 14,250'

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

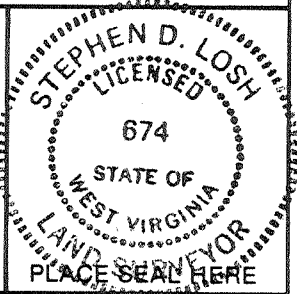
*2.68 S
 1.12 W
 Centerpoint we*



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1150' S.E. OF LOCATION ELEV. - 1328'

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. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEBRUARY 22, 1990
 OPERATOR'S WELL NO. 3549
 API WELL NO. _____

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

LOCATION: ELEVATION 1041' WATERSHED RALPHS RUN OF McELROY CREEK
 DISTRICT McCLELLAN COUNTY DODDRIDGE

QUADRANGLE _____ CENTER POINT 7.5 min.
 SURFACE OWNER JOHN W. MICHEL'S ACREAGE 55 ac. of 90.75 ac.
 OIL & GAS ROYALTY OWNER A. G. DOAK LEASE ACREAGE 55 ac.

LEASE NO. DV - 25742
 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 BENSON ESTIMATED DEPTH 5200'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY BIGGS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

APR 20 1990

back Smithton - Eliot - Sadalia (999)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: MICHELS, JOHN W & EPPA M. Operator Well No.: CNGD 3549

LOCATION: Elevation: 1041.00 Quadrangle: CENTER POINT

District: MCCLELLAN County: DODDRIDGE
Latitude: 14250 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 5940 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: CNG DEVELOPMENT CO. A DEL
P. O. BOX 15746
PITTSBURGH, PA 15244-0000

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 04/20/90
Well work Commenced: 10/30/90
Well work Completed: 11/06/90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5428'
Fresh water depths (ft) 50'

Salt water depths (ft) 1160', 1385', 1590'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 63-65;

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	129	129	To Surf.
8 5/8"	1485	1485	To Surf'
4 1/2"	5343	5343	200 sks
1 1/2"	5114	5114	-----

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5131-36
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
11/15/90 Final open flow 158 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1125 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Rodney J. Biggs, Manager
CNG DEVELOPMENT CO. A DEL. CORP.

By: Rodney J. Biggs
Date: November 19, 1990

Perforated Benson 5131 - 36, 15 holes, .39" HSC

30# Gel Grac - Break 2500#, Ave HHP 1800#, Ave Rate 30, Ave Pres. 2450, Max Tr Pr. 3070,
Total Acid 500 gal, Total Sand 65,000#, Max Conc. 5#/gal, Total Fl. 780 bbl, SL Fl. 488 bbl,
ISIP 1600/2000, 5 min 1500.

Clay, Sd & Sh	0	63	1/2" stream water @ 50'
Coal	63	65	Damp @ 1160'
Sd, Sh & RR	65	1955	Damp @ 1385'
B. Lime/Injun	1955	2170	Damp @ 1590'
Sd & Sh	2170	5428	

LOG TOPS CNGD 3549

Little Lime	1953	1980
Blue Monday	1980	2000
Big Lime	2000	2058
Big Injun	2058	2120
Pocono	2120	
Weir Sd	2324	2422
Berea	2574	2593
Devonian	2615	
Thirty Ft. Sd	2763	2821
Warren Sd	3440	3484
Bradford Sd	4606	4703
Riley	4936	5058
Benson	5129	5172
Alexander	5184	

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APR 04 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: March 20, 1990
Operator's well number
CNGD 3549
API Well No: 47 - 017 - 3809
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name John W. & Eppa M. Michels
Address Centerpoint Star Route, Box 108
West Union, WV 26456
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name ~~Harvey Lee Green~~
Address ~~XXXXXX Box 51X~~
~~West Union, WV 26456~~
Name Herbert Carroll
Address Rt. 2, Box 111
West Union, WV 26456
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:
_____ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CNG Development Company
By: [Signature]
Its: Supervisor Purchasing/Production Services
Address One Park Ridge Center, P. O. Box 15746
Pittsburgh, PA 15244
Telephone (412) 787-4117

Subscribed and sworn before me this 20 day of March, 1990

[Signature]
My commission expires _____

Notarial Seal
Barbara A. Schaub, Notary Public
Finklay Twp., Allegheny County
My Commission Expires June 14, 1993

Notary Public

20

017-3809 Issued 4/20/90
Expired 4/20/92
Page ___ of ___

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

- 1) Well Operator: CNG DEVELOPMENT COMPANY ¹⁴² 10110 (5) 286
- 2) Operator's Well Number: CNGD 3549 3) Elevation: 1041
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5200 feet
- 7) Approximate fresh water strata depths: 517
- 8) Approximate salt water depths: n/a
- 9) Approximate coal seam depths: 366, 616 Clk only
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill new well
- 12) Spill & Stimulate New Well

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	11 3/4	H-40	42	120	120	To surface
Coal						To surface
Intermediate	8 5/8	X-42	23	1500	1500	38CSR18-11.2.2 & 38CSR18-11.3
Production	4 1/2	J-55	10.5	5200	5200	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	5000	5000	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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APR 04 1990

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: 1 Well Work Permit | 1 Reclamation Fund | 1 WPCP
1 Plat | 1 WW-9 | 1 WW-2B | 1 Bond Surety | 1 Agent
 (Type)

39345