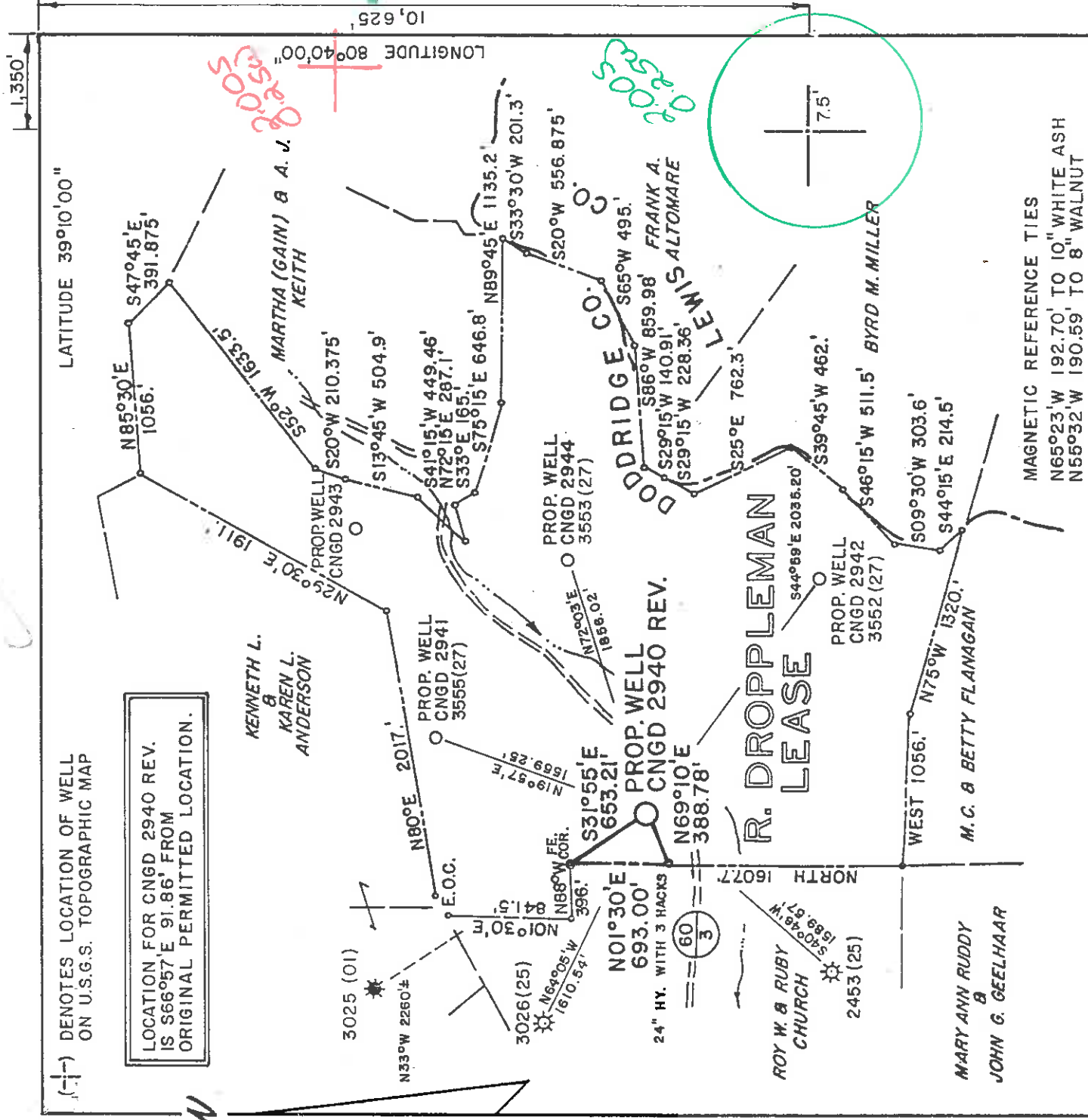


(-|-) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LOCATION FOR CNGD 2940 REV. IS S66°57'E 91.86' FROM ORIGINAL PERMITTED LOCATION.

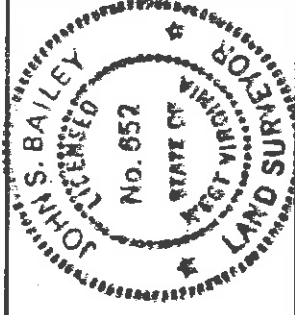


MAGNETIC REFERENCE TIES
 N65°23'W 192.70' TO 10" WHITE ASH
 N55°32'W 190.59' TO 8" WALNUT

MSES consultants, inc.
 FILE NO. MSES 87-749
 DRAWN BY SARC/JSB
 SCALE 1" = 1000'
 MIN. DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION
 RD. INT. EL. 879, 2500' SW OF LOCA.

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*
 P.E. L.L.S. 652



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JULY 9, 1987
 OPERATOR'S WELL NO. CNGD 2940 REV.

API WELL NO. **47-017** - **3554 REV**
 STATE COUNTY PERMIT

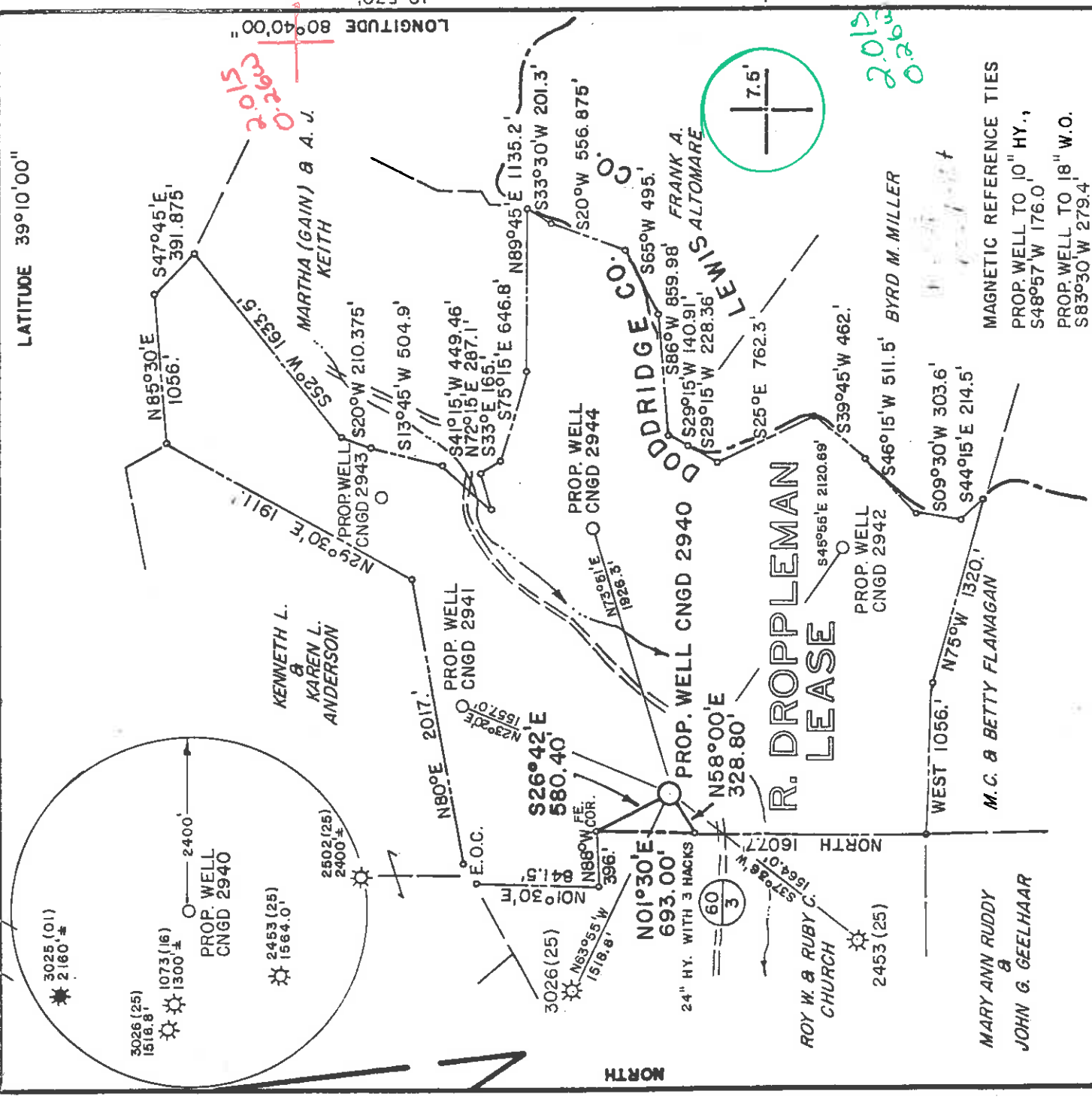
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 IF "GAS", PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1027.20' WATERSHED SAND FORK OF LITTLE KANAWHA RIVER
 DISTRICT COVE *2* **Woods** COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON, WV 7.5' **51143** NEAREST TOWN SAINT CLARA
 SURFACE OWNER BARBARA A. DOYLE **WC4** ACREAGE 299.23
 OIL & GAS ROYALTY OWNER R. DROPPLEMAN LEASE ACREAGE 374

LEASE NO. DV - 18522
 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 DEVONIAN SHALE ESTIMATED DEPTH 5762' **JUL 27 1987**
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS P. O. BOX 15746 **142** ADDRESS ROUTE 2, BOX 698
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

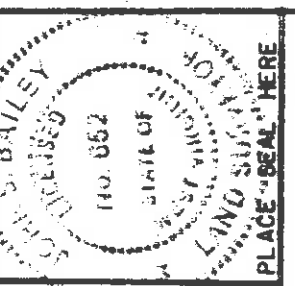
6-6 New Milton South (307)

KB 5/21/87



LATITUDE 39°10'00"

LONGITUDE 80°40'00"



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

FILE NO. MSES 87-749
DRAWN BY SARC/PAT
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION INT. CO. RIS. 60 & 60/3, EL. 879, 2600' SW OF LOCATION

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)

DATE MARCH 19 19 87
OPERATOR'S WELL NO. CNGD 2940
API WELL NO. 47-017-3554
STATE COUNTY PERMIT

DEPARTMENT OF MINES
Oil & Gas Division

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1057.7, WATER SHED SAND FORK OF LITTLE KANAWHA RIVER
DISTRICT COVE COUNTY DODDRIDGE
QUADRANGLE NEW MILTON, WV 7.5 NEAREST TOWN SAINT CLARA
SURFACE OWNER BARBARA A. DOYLE 511 12.5 4 ACREAGE 299.23
OIL & GAS ROYALTY OWNER R. DROPPLEMAN LEASE NO. DV-18522 LEASE ACREAGE 374

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 DEVONIAN SHALE ESTIMATED DEPTH 5450'
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
ADDRESS P.O. BOX 15746 BRIDGEPORT, WV 26330

JUN 15 1987

11000 1111 1117



RECEIVED
NOV 09 1987

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 30, 1987
Operator's
Well No. 2940
Farm Droppleman
API No. 47 - 017 - 3554 Rev.

DIVISION OF OIL & GAS WELL OPERATOR'S REPORT
DEPARTMENT OF ENERGY

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: 1027.20 Watershed Sand Fork of Little Kanawha River
District: Cove County Doddridge Quadrangle New Milton

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 Barbara A. Doyle
ADDRESS Rt. 1, Box 162-A
New Milton, WV 26411
MINERAL RIGHTS OWNER R. Droppleman
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Rt. 2, Box 114
Salem, WV 26426

PERMIT ISSUED July 22, 1987

DRILLING COMMENCED Oct. 1, 1987

DRILLING COMPLETED Oct. 8, 1987

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

Casing & Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	248	248	To Surf.
9 5/8			
8 5/8	1418	1418	To Surf.
7			
5 1/2			
4 1/2	5443	5443	240 sks.
3			
2 1/2	5189	5189	---
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5762 feet

Depth of completed well 5470 feet Rotary X / Cable Tools

Water strata depth: Fresh 1290 feet; Salt 1485 feet

Coal seam depths: ----- Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander 5213-5275
Benson 4935-4945 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 280 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 900 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

(Continue on reverse side)

NOV 16 1987

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

Perforated Alexander 5213-5275, 26 holes, .39" HSC; Benson 4935-4945, 22 holes, .39" HSC
 Dowell Sch. Foam Frac Alex. - Break 2144, Ave HHP 2 pumps, Ave Rate 25, Ave Pr. 3541,
 Max Tr Pr. 3598, total Acid 500 gal, Total Sand 75,000#, Max. Conc. 5#/gal, Total
 Fluid 408, SL Fluid 220, ISIP 2100, Total Nit. 620,000 SCF.
 Benson - Break. 3177, Ave HHP 2 pumps, Ave Rate 20, Ave Pr 3083, Max Tr Pr 3195,
 Total Acid 500 gal, Total Sand 85,000#, Max Conc. 5#/gal, Total Fluid 422, SL Fl. 271,
 ISIP 2018, 5 min 1684, Total Nit. 660,000 SCF.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
S.B.T.G. Sand, Shale & RR			0 10 2038	10 2038 2160	Wet @ 1290' @ 1485'
Big Lime Sand & Shale			2160	5470	
LOG TOPS ✓					
Big Lime			2080	2192	
Big Injun			2192	2230	
Wellr			2270	2380	
Gantz			2476	2504	
Bayard			3014	3038	
Warren			3320	3354	
U. Spch.			3376	3600	
Balltown			4016	4060	
Benson			4932	4996	
Alexander			5210	5278	

RECEIVED
NOV 09 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By: _____

Date: October 30, 1987

Note: Regulation 2.03(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 sand, encountered in the drilling of a well."

FORM WV-2 (B) RECEIVED JUL 14 1987



1) Date: July 10, 1987, 19
2) Operator's Well No. CNGD 2940
3) API Well No. 47 017 3554 -REV. Permit

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

4) WELL TYPE: A Oil / Gas X / Production X / Undergrnd storage / Deep / Shallow X
5) LOCATION: Elevation: 1027.20' Watershed: Sand Fork of Little Kanawha River
6) WELL OPERATOR: CNG Development CODE: 10117 7) DESIGNATED AGENT: Gary Nicholas
8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Mike Underwood

10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill X / Stimulate X
Other physical change in well (specify)

11) GEOLOGICAL TARGET FORMATION: Alexander
12) Estimated depth of completed well, 54.50 feet
13) Approximate true depths: Fresh, 2891 feet; salt, No X
14) Approximate coal seam depths: 2746 Is coal being mined in the area? Yes

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes)

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47 - 017 - 3554 - REV. July 22 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 July 22, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee, WPCP, S&E, Other

NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File

10/52

1) Date: April 29, 19 87
 2) Operator's Well No. CNGD 2940
 3) API Well No. 47 017 3554
 State County Permit



RECEIVED
 MAY 18 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
 Elevation: 1057.7 Watershed: Sand Fork of Little Kanawha River
 District: Cove County: Doddridge 017 Quadrangle: New Milton 510
- 5) LOCATION: Development Co. CODE: 10110 7) DESIGNATED AGENT Gary Nicholas
 Address: 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 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 deeper Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Alexander
- 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5450 feet
 13) Approximate trata depths: Fresh, 9231 feet; salt, - feet.
 14) Approximate coal seam depths: A 740 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.	For drilling	Left in well		
Conductor							
Fresh water	11-3/4	H-40	42	X			
Coal							
Intermediate	8-5/8	X-42	23	X			
Production	4-1/2	J-55	10.5	X			
Tubing	1-1/2	CN-55	2.75	X			
Liners							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3554 Date June 11 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 June 11, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

101

Bond: <input checked="" type="checkbox"/>	Agent: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>10865</u>	WPCP: <u>AS</u>	Other: <u>SEP 107</u>
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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.

