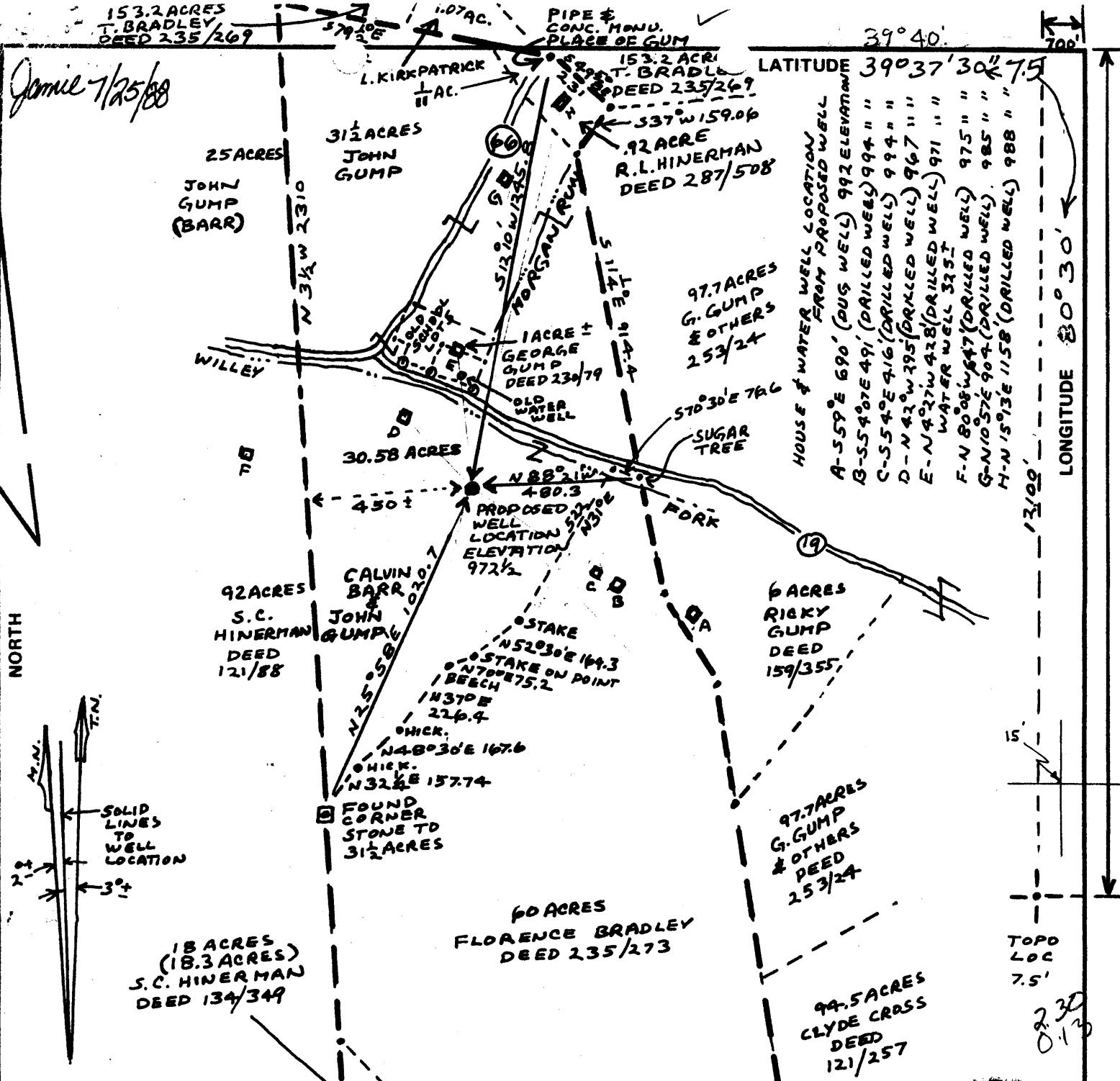
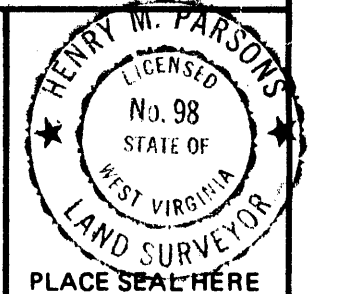


Jan 7/25/88



FILE NO. 80-5749  
 DRAWING NO. 80-5749-G  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION B.M. 951 NEAR THE VILLAGE OF COBURN ON BIG RUN TOPO SHEET (QUAD. SHEET)

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) Henry M. Parsons  
 R.P.E. \_\_\_\_\_ L.L.S. # 981



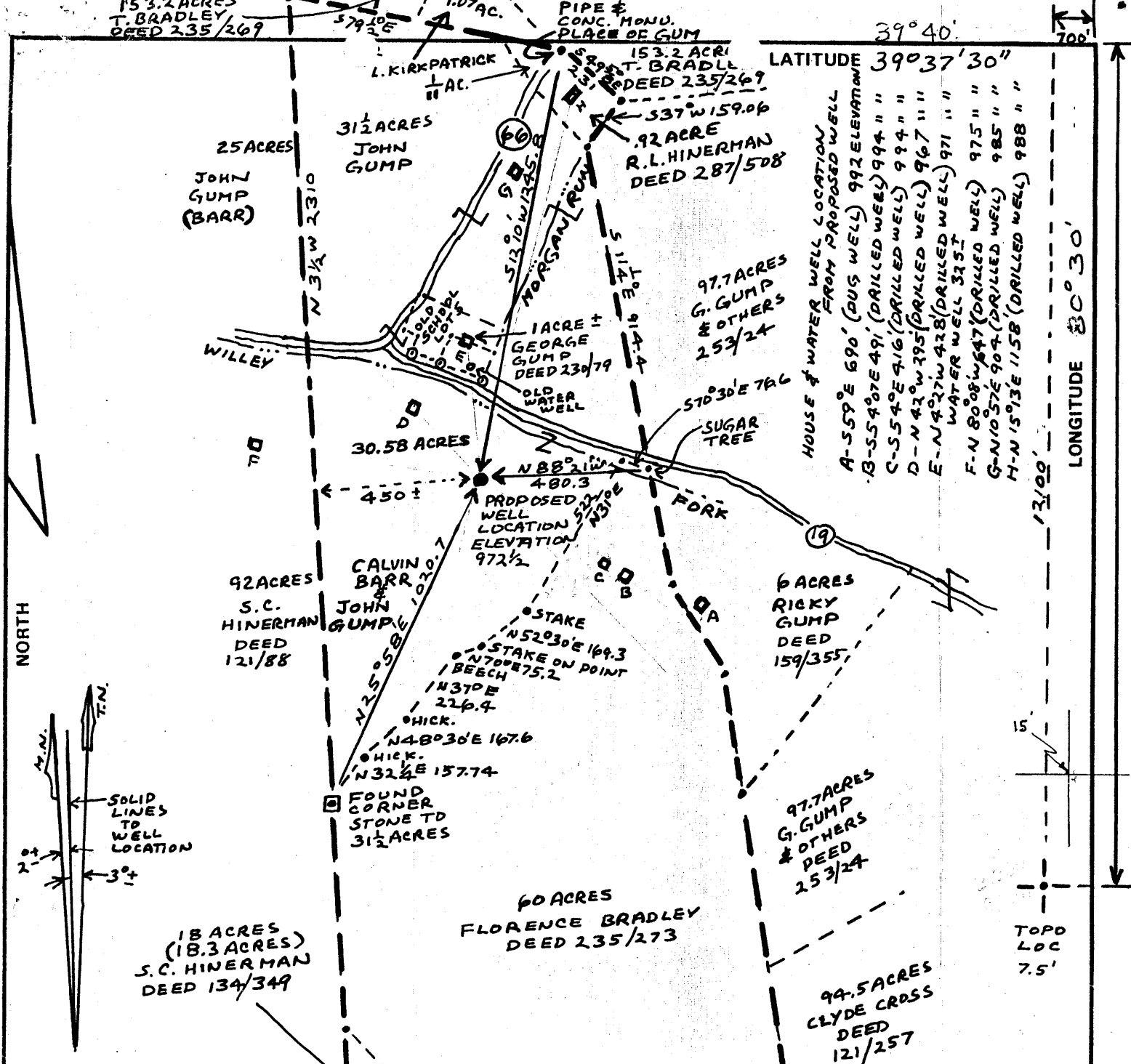
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)

DATE JAN. 6, 1982  
 OPERATOR'S WELL NO. BARR#1  
 API WELL NO. 103  
47 - WETZEL - 1244-Frac.  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 972 1/2 WATER SHED WILLEY FORK  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE BIG RUN 15' QUAD.  
 SURFACE OWNER JOHN GUMP, R.L. HINERMAN, GEORGE GUMP, CALVIN BARR, FLORENCE BRADLEY & S.C. HINERMAN ACREAGE 110 ACRES (DEED 77/349)  
 OIL & GAS ROYALTY OWNER RUTH S. WATSON LEASE ACREAGE 110 1/4  
 LESTER C. ICE 1/2 WILLIAM Y. MORRIS 1/2 JOHN R. MORRIS 1/8 ROBERT H. MORRIS 1/8 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Previously Plugged Back  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 27500'  
 WELL OPERATOR Applied Mechanics DESIGNATED AGENT Charles Stout  
 ADDRESS Route 1, Box 44, Bidsport, W. 26330 ADDRESS Bidsport, W. 26330

NET. 1244-F



FILE NO. 80-5749  
 DRAWING NO. 80-5749-G  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION B.M. 951 NEAR THE VILLAGE OF COBURN ON BIG RUN TOPO SHEET (QUAD SHEET)

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 (SIGNED) Henry M. Parsons  
 R.P.E. \_\_\_\_\_ L.L.S. # 981



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 FORM IV-6 (8-78)

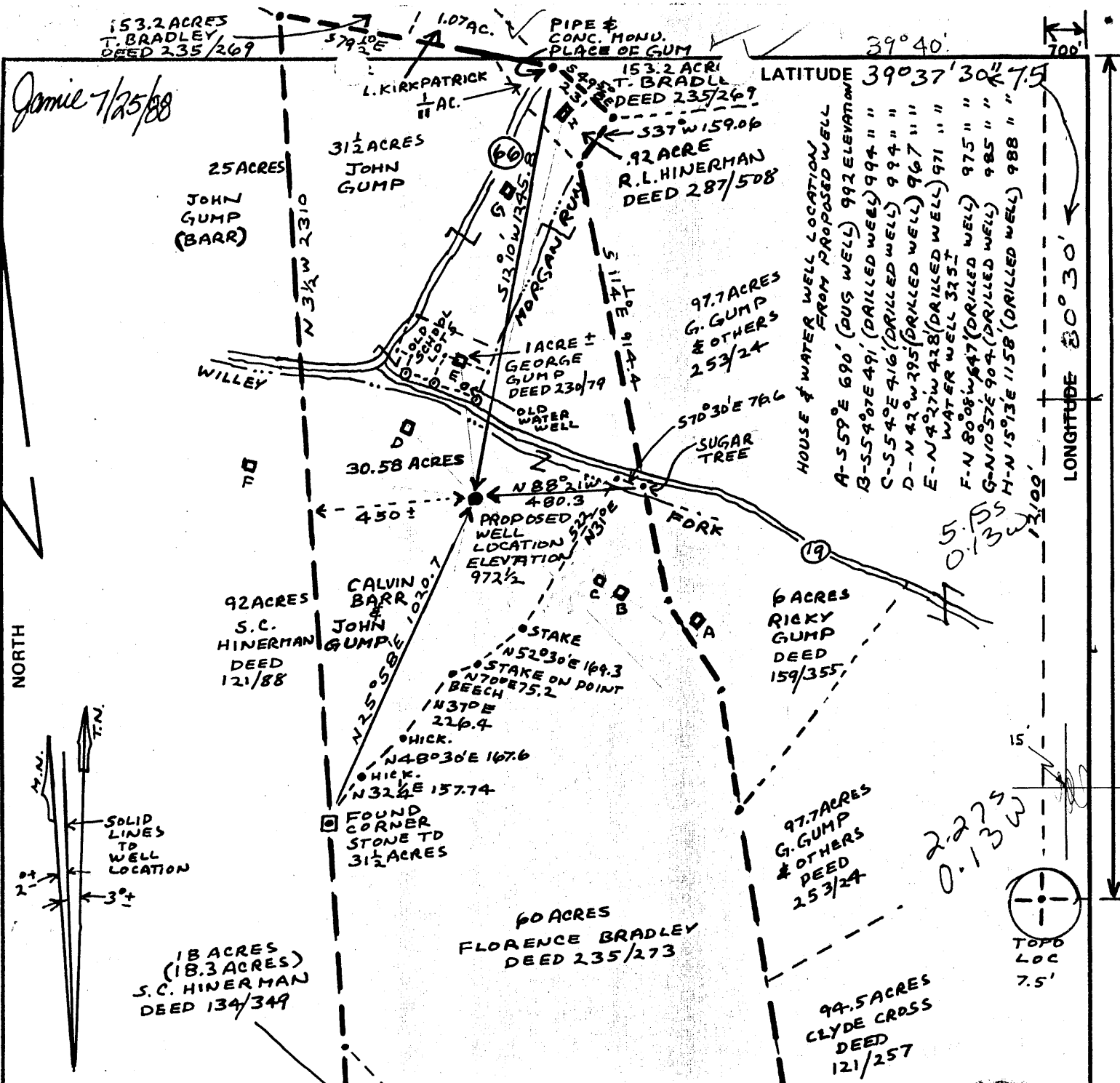


DATE JAN. 6, 1982  
 OPERATOR'S WELL NO. BARR#1  
 API WELL NO. 103  
47 - WETZEL - 1244-P  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 972 1/2 WATER SHED WILLEY FORK  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE BIG RUN 15 QUAD.  
 SURFACE OWNER (JOHN GUMP, R.L. HINERMAN, GEORGE BRADLEY & S.C. HINERMAN) ACREAGE 110 ACRES (DEED 77/349)  
 OIL & GAS ROYALTY OWNER RUTH E. WATSON LEASE ACREAGE 110 1/4  
 LESTER C. ICE 1/2 WILLIAM Y. MORRIS 1/2 JOHN R. MORRIS 1/8 ROBERT H. MORRIS 1/8 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 7800'  
 WELL OPERATOR HADDAD & BROOKS INC. DESIGNATED AGENT HENRY M. PARSONS JAN 05 1987  
 ADDRESS 905 WASHINGTON ROAD ADDRESS 121 GLENVIEW DR.  
WASHINGTON, PENNA 15301 NEW MARTINSVILLE, WV 26155



FILE NO. 80-5749  
 DRAWING NO. 80-5749-G  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION B.M. 951 NEAR THE VILLAGE OF COBURN ON BIG RUN TOPO SHEET (QUAD. SHEET)

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 (SIGNED) Henry M. Parsons  
 R.P.E. \_\_\_\_\_ L.L.S. # 981

HENRY M. PARSONS  
 LICENSED  
 No. 98  
 STATE OF WEST VIRGINIA  
 LAND SURVEYOR  
 PLACE SEAL HERE

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

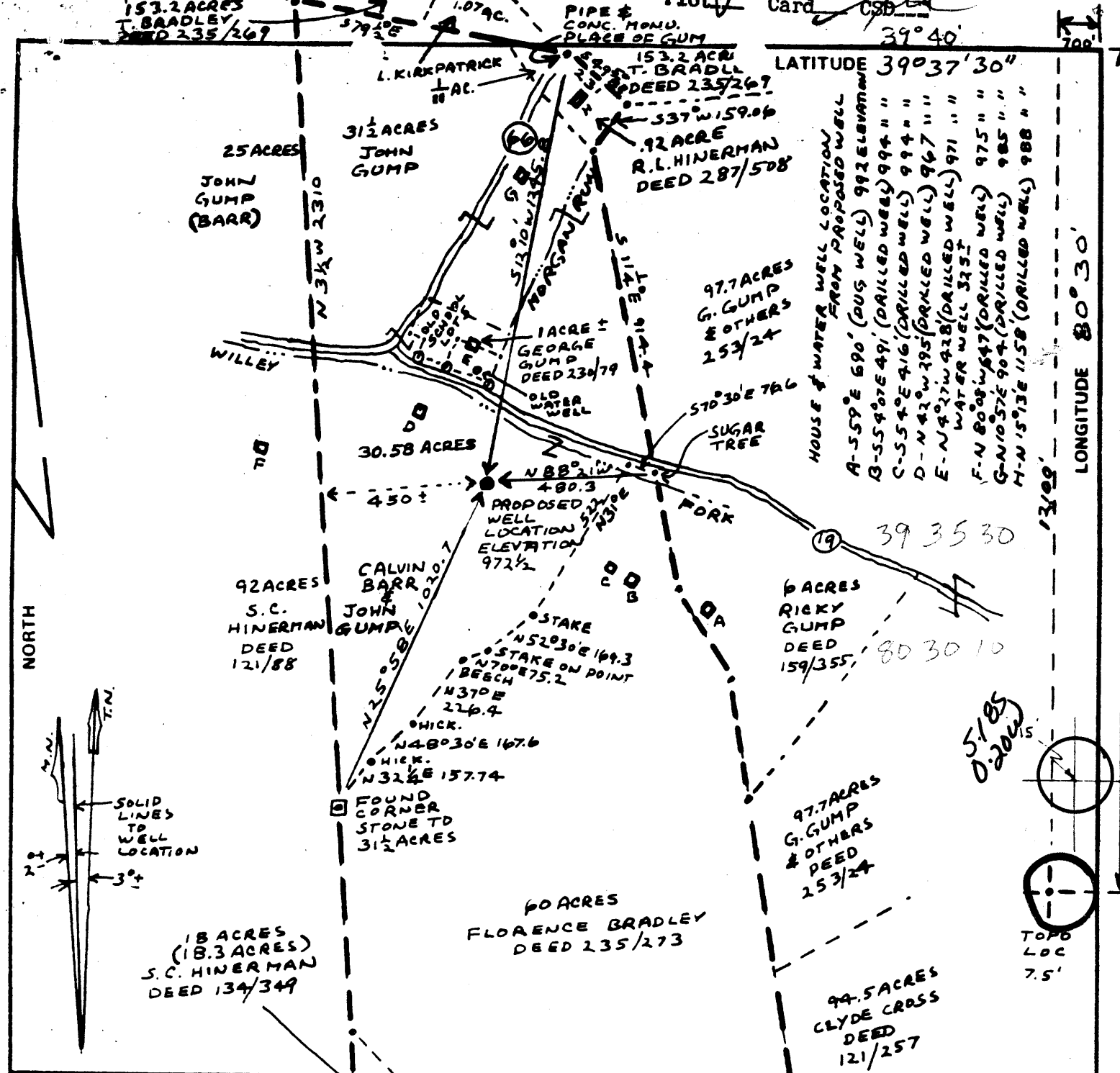


DATE JAN. 6, 1982  
 OPERATOR'S WELL NO. BARR#1  
 API WELL NO. 103  
47 - WETZEL - 1244 - F  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 972 1/2 WATER SHED WILLEY FORK  
 DISTRICT GRANT # 1295 COUNTY WETZEL  
 QUADRANGLE BIG RUN 15' QUAD. 254 067 Littleton EC  
 SURFACE OWNER JOHN GUMP, R.L. HINERMAN, GEORGE GUMP, CALVIN BARR, FLORENCE BRADLEY & S.C. HINERMAN ACREAGE 110 ACRES (DEED 77/349)  
 OIL & GAS ROYALTY OWNER RUTH E. WATSON LEASE ACREAGE 110 1/4  
 LESTER C. ICE 1/2 WILLIAM Y. MORRIS 1/2 JOHN R. MORRIS 1/8 ROBERT H. MORRIS 1/8 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 7800' AUG 01 1988  
 WELL OPERATOR CNG TRANSMISSION DESIGNATED AGENT GLENN KNEPPER  
 ADDRESS 445 West Main St. CLARKSBURG, W.V. 26301 ADDRESS 445 West Main Street, Clarksburg, W.V.



FILE NO. 80-5749  
 DRAWING NO. 80-5749-G  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION B.M. 951 NEAR THE VILLAGE OF COBURN ON BIG RUN TOPO SHEET (QUAD SHEET)

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) Henry M. Parsons  
 R.P.E. L.L.S. # 981

PLACE SEAL HERE

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



DATE JAN. 6 1982  
 OPERATOR'S WELL NO. BARR#1  
 API WELL NO. 103  
47 - WETZEL - 1244  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 972 1/2 WATER SHED WILLEY FORK  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE BIG RUN 7 1/2 15' SEC  
 SURFACE OWNER JOHN GUMP, CALVIN BARR, FLORENCE BRADLEY & S.C. HINERMAN (ESTATE) ACREAGE 110 ACRES (DEED 77/349)  
 OIL & GAS ROYALTY OWNER RUTH G. MORRIS LEASE ACREAGE 110 1/4  
 LESTER C. ICE 1/2 WILLIAM Y. MORRIS 1/2 JOHN R. MORRIS 1/8 ROBERT H. MORRIS 1/8 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 7800' COBURN MAR 9 1982  
 WELL OPERATOR HADDAD & BROOKS INC. DESIGNATED AGENT HENRY M. PARSONS  
 ADDRESS 905 WASHINGTON ROAD ADDRESS 121 GLENVIEW DR.  
3. WASHINGTON, PENNA 15301 NEW MARTINSVILLE, WV 26155

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

RECEIVED  
OFFICE OF OIL AND GAS

Well Operator's Report of Well Work

OCT 30 1993

Farm name: BARR, CALVIN N.

Operator Well No.: AM-93-1

LOCATION: Elevation: 972.00

Quadrangle: BIG RUN

WV Division of  
Environmental Protection

District: GRANT

County: WETZEL

Latitude: 12100 Feet South of 39 Deg. 37Min. 30 Sec.

Longitude 700 Feet West of 80 Deg. 30 Min. Sec.

Company: APPLIED MECHANICS CORP.  
ROUTE 1, BOX 41-J  
BRIDGEPORT, WV 26330-0000

Agent: CHARLES L. STOUT

Inspector: RANDAL MICK  
Permit Issued: 11/12/93  
Well work Commenced: 11/15/93  
Well work Completed: 11/15/93  
Verbal Plugging  
Permission granted on: --  
Rotary -- Cable -- Rig --  
Total Depth (feet)  
Fresh water depths (ft) ==

Salt water depths (ft) --

Is coal being mined in area (Y/N)?  
Coal Depths (ft): existing well

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4		133'	
8 5/8		2019'	
4 1/2		5233'	

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 0  
Gas: Initial open flow 10 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 20 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 72 Hours  
Static rock Pressure 700 psig (surface pressure) after 72 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.

APPLIED MECHANICS CORP.  
For: APPLIED MECHANICS CORP.  
By: Charles Stout, President  
Date: 11/15/93

OCT 25 1993

Workover refrack

Gordon Sand

Depth 2638' to 2684'

Perforations 12 holes 2638' to 2684'

Ran 120 sacks of 20/80 sand 60,000#

Ran 25 sacks of 20/40 sand 20,000#

Straight water sand frac

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

Well Operator's Report of Well Work

Farm name: BARR, CALVIN N. Operator Well No.: BARR 1 12771

LOCATION: Elevation: 972.00 Quadrangle: BIG RUN  
Water Shed: Willey Fork  
District: GRANT County: WETZEL  
Latitude: 1210 Feet South of 39 Deg. 37Min. 30 Sec.  
Longitude 700 Feet West of 80 Deg. 30 Min. 0 Sec.

Company: CNG TRANSMISSION CORP.  
445 WEST MAIN ST  
CLARKSBURG, WV

Agent: GLENN A. KNEPPER

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/27/88  
Well work Commenced: 08/16/88  
Well work Completed: 09/08/88

Verbal Plussing \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary Cable Ris \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

Size	Casings & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4 1/2	5233	5233	200 sks+	

**RECEIVED**  
NOV-28-1988  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4955-62  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 40 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 720 psis (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 \_\_\_\_\_ psis (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: CNG TRANSMISSION CORP.

By: *[Signature]*  
Date: September 15, 1988

SEP 2 1988

Perforated Benson 4955 - 62, 21 holes, .39 HSC

Frac (30# Gel) - Break 3750, Ave HHP 2156, Ave Rate 24, Ave Pr. 3665, Max Tr Pr 4500,  
Total Acid 500 gal, Total Sand 43,000#, Max Conc. 4#/gal, Total Fluid 681 bbl,  
SL Fluid 372 bbl, ISIP 2750/2800, 5 min 2250.

**RECEIVED**  
NOV 28 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

7437

1988



RECEIVED

IV-35 (Rev 8-81) SEP 17 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES



State of West Virginia Department of Mines Oil and Gas Division

Date 9-15-82 Operator's Well No. 1 Farm Calvin Barr #1 API No. 47 - 103 - 1244

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 X / Shallow /)

LOCATION: Elevation: 972.5 Watershed Willey Fork District: Grant County Wetzel Quadrangle Big Run 7.5 min.

COMPANY Haddad and Brooks, Inc. ADDRESS 905 Washington Rd., Washington, PA 15301 DESIGNATED AGENT Henry Parsons ADDRESS 121 Glenview Dr., New Martinsville, WV 26155 SURFACE OWNER Calvin N. Barr & John Gump ADDRESS Coburn, WV 26565 MINERAL RIGHTS OWNER Lester L. Ice and Will E. Morris Estate ADDRESS 2458 N. Fremont Ave., Tucson, AZ 85719 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS General Delivery Middlebourne, WV 26149 PERMIT ISSUED February, 1982 DRILLING COMMENCED 3-20-82 DRILLING COMPLETED 4-8-82

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Oriskany Depth 7383 feet Depth of completed well 8010 feet Rotary X / Cable Tools Water strata depth: Fresh Unknown feet; Salt Unknown feet top hole drilled with fluid. Coal seam depths: 614' (Pittsburgh Coal) Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Helderberg - Bass Island Pay zone depth 7552-7945' feet Gas: Initial open flow N/A Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow Show Mcf/d Final open flow 0 Bbl/d Time of open flow between initial and final tests N/A hours Static rock pressure 135 psig (surface measurement) after 48 hours shut in (If applicable due to multiple completion--)

Second producing formation Hunt Chert Pay zone depth 7186-7230' feet Gas: Initial open flow N/A Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 1,039 Mcf/d Oil: Final open flow 0 Bbl/d Time of open flow between initial and final tests 6 1/2 hours

Static rock pressure 2500 psig (surface measurement) after 23 days

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

Perforations	BDP, psi	Rate	ATP	Fluid	REMARKS
4 holes 7941-7945	5000	1 BPM @	5600 psi	15% Acid	Slight show of gas after breakdown. Set bridge plug @ 7266' and perforate chert.
4 holes 7814-7818	5200	1 BPM @	5400 psi	15% Acid	
9 holes 7724-7736	3400	2 BPM @	4100 psi	15% Acid	
8 holes 7620-7626	3700	2.5 BPM @	4400 psi	15% Acid	
3 holes 7552-7554	4500	1 BPM @	4800 psi	15% Acid	
15 holes 7220-7230 } 10 holes 7186-7195 }	4100	31 BPM @	3200 psi		Ran 170,000 SCF N <sub>2</sub> , 500 sx 20/40 sand <sup>2</sup> , 40# Gel System, 5% HCL throughout.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Undifferentiated SS+SH			0	1826'	Including indication of all fresh and salt water, coal, oil and gas Pittsburgh Coal @ 614'
Greenbrier	Tan	H	1826'	1905'	
Big Injun	Gy	H	1905'	2079'	SG (Audio)
Sh & SLST	Gy	S	2079'	2199'	
Weir	Wh-Lt Gy	H-S	2199'	2232'	
SH & Slst	Gy	S	2232'	2405'	SG
Berea	Gy-Wt	H	2405'	2453'	SG
SH & Slst	Gy	S	2453'	2565'	
Fifty Ft.	Wt	H	2565'	2572'	
SH & Slst	Gy	S	2572'	2595'	
Thirty Ft.	Wt	H	2595'	2600'	SG (Audio)
SH & Slst	Gy	S	2600'	2638'	
Gordon	W	H-S	2638'	2684'	SG
SH	Lt Gy	S	2684'	2717'	
Fourth	Wt-Clr	H-S	2717'	2761'	SG
SH & Slst	Gy	S	2761'	2785'	SG
Fifth	Wt-Clr	H-S	2785'	2798'	SG
SH & Slst	Gy	S	2798'	2848'	
Bayard	Gy	H	2848'	2853'	SG
SH & Slst	Gy	S	2853'	2980'	
Elizabeth	Gy	S	2980'	2986'	SG 120 MCFPD Nat.
SH & Slst	Gy-Bn	S	2986'	3327'	
Warren 1st	Lt Gy	S	3327'	3358'	
SH & Slst	Gy-Bn	S	3358'	3382'	
Warren 2nd	Lt Gy	S	3382'	3438'	
SH & Slst	Gy-Bn	S	3438'	4945'	SG
Alexander	Gy	H-S	4945'	4949'	SG
SH & Slst	Gy-Bn	S	4949'	6972'	SG
Tully	Tan	H	6972'	7001'	
SH	Gy-Bk	S	7001'	7100'	
Marcellus SH	Bn-BK	S	7100'	7151'	SG
Onondaga	Tan	H	7151'	7373'	SG
Oriskany	Wt	H	7373'	7490'	SG
Helderberg	Gy	H	7490'	7707'	SG
Bass Island	Gy-Bn	H	7707'	8000' TD	SG

8000  
2800  
5200 EXPL FT

(Attach separate sheets as necessary)

Haddad & Brooks, Inc.

Well Operator

By: Carl A. Boe Geologist

*Carl A Boe*

Date: September 15, 1982

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."

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

2475 (4) 254

18287

Well Operator: ~~CNG Transmission Corp.~~ <sup>0053</sup> *Applied Mechanics Corp.*

Operator's Well Number: 12771 3) Elevation: 972'

Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow \_\_\_

*Issued 11/12/93  
Expires 11/12/95*

Proposed Target Formation(s): Benson 435

Proposed Total Depth: 4500 feet

Approximate fresh water strata depths: None

Approximate salt water depths: None

Approximate coal seam depths: 614'

Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /

Proposed well work: Clean out, log and complete according to log evaluation.

*Temporary Plugback from New Formations Remove Plug Coningle*

*This well was previously plugged back by CNG Trans, the Benson was*

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT
Size	Grade	Weight per ft.	For drilling
Left in well	Fill-up (cu. ft.)		
Conductor	11 3/4		133
Fresh Water			
Coal	8 5/8		2019
Intermediate			
Production	4 1/2		5233
Tubing			
Liners			

*going to frac the Gordon.*

*Expanding in Well*

RECEIVED  
WV Division of Environmental Protection

PACKERS : Kind \_\_\_\_\_ Sizes \_\_\_\_\_ Depths set \_\_\_\_\_

NOV 10 93  
Permitting Office of Oil & Gas

For Division of Oil and Gas Use Only  
Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond *Blanket CO*  Agent  
(Type)

WV Division of  
Environmental Protection  
NOV 10 93  
Permitting  
Office of Oil & Gas

1) Date: November 5, 1993  
2) Operator's well number  
AM 93-1  
3) API Well No: 47 - 103 - 1244-PP FRAC  
State - County - Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Calvin N. Barr  
Address Box 64  
Burton, WV 26562  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Randal Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304)- 986-3324

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Mid Allegheny Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
Name Western Pocahontas Properties  
Address 601 Jefferson St., Suite 4000  
Houston, Texas 77002  
(c) Coal Lessee with Declaration  
Name Consolidated Coal Co.  
Address 1800 Washington Road  
Pittsburgh, PA 15241

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:

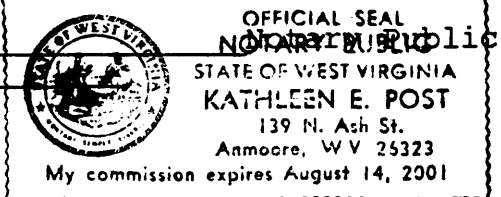
- X Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 Applied Mechanics Corporation  
By: Charles J. [Signature]  
Its: President  
Address Route 1 Box 41-J  
Bridgeport, WV 26330  
Telephone (304) 624-6822

Subscribed and sworn before me this 10th day of November, 1993  
Kathleen E Post  
My commission expires Aug. 14, 2001



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

- 1) Well Operator: CNG Transmission Corp. 10900, 4, 254
- 2) Operator's Well Number: 12771 3) Elevation: 972'
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 4500 feet
- 7) Approximate fresh water strata depths: None
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 614'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Clean out, log and complete according to log evaluation.
- 12)

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4				133	
Fresh Water						
Coal	8 5/8				2019	
Intermediate					to 5028'	1987
Production	4 1/2				7985	
Tubing						
Liners						

**RECEIVED**  
 JUL 11 1988

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 21 Well Work Permit Blanket Reclamation Fund Blanket WPCP  
 Plat 21 WW-9 Blanket WW-2B Blanket Bond Blanket Agent

(Type)

**RECEIVED**  
JUL 11 1988

1) Date: June 6, 1988  
2) Operator's well number 12771  
3) API Well No: 47 - 103 - 1244 - FRA  
State - County - Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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 Calvin N. Barr  
Address Box 64  
Burton, WV 26562  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Robert Lowther  
Address Gen. Del.  
Middlebourne, WV 26149  
Telephone (304) - 758-4764

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Mid Allegheny Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
Name ~~Mid~~ Western Pocahontas Properties  
Address 601 Jefferson St., Suite 4000  
Houston, Texas 77002  
(c) Coal Lessee with Declaration  
Name Consolidated Coal Co.  
Address 1800 Washington Road  
Pittsburgh, Pa. 15241

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- \_\_\_\_\_ Publication (Notice of Publication attached)

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NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
FELICIA M. CAPUTO  
218 Westwood Ave.  
Bridgeport, W. Va. 26330  
My Commission Expires January 20, 1998

Well Operator CNG Transmission Corp.  
By: [Signature]  
Its: Manager of Production  
Address 445 West Main Street  
Clarksburg, West Virginia  
Telephone 623-8000

Subscribed and sworn before me this 7th day of July, 19 88

Felicia M. Caputo

Notary Public

My commission expires January 20, 1998



well no. #1  
Farm C. Barr  
API #47 - 103 - 1244  
Date 2-2-82

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas X /

(If "Gas", Production \_\_\_ / Underground storage \_\_\_ / Deep X / Shallow \_\_\_ /

LOCATION: Elevation: 972.5 Watershed: Willey Fork  
District: Grant County: Wetzel Quadrangle: Big Run, WV

WELL OPERATOR Haddad and Brooks, Inc.  
Address 905 Washington Road  
Washington, PA 15301

DESIGNATED AGENT Henry M. Parsons  
Address 121 Glenwood Drive  
New Martinsville, WV 26155

OIL AND GAS  
ROYALTY OWNER see attached list  
Address \_\_\_\_\_

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 110.25

SURFACE OWNER Calvin N. Barr & John Gump  
Address Coburn, WV 26565

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 30.58

NAME \_\_\_\_\_  
Address \_\_\_\_\_  
FEB 4 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME Consolidation Coal Company  
Address 1800 North Washington Road  
Pittsburgh, PA 15241

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone \_\_\_\_\_

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease X / other contract \_\_\_ / dated Dec. 16, 1964, on the undersigned well operator from Lester and Gertrude Ice and ratified by William Y. Morris et al.  
(If said deed, lease, or other contract has been recorded:)

Recorded on February 17, 1965, in the office of the Clerk of County Commission of Wetzel County, West Virginia, in 48th Book at page 299. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
113 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

BLANKET BOND

Haddad and Brooks, Inc.  
Well Operator

By: S.L. Brooks S.L. Brooks

Its: Vice President





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

PARTIAL PLUGBACK  
AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Mid-Allegeny Corporation (operator)  
Coal Operator or Owner  
P. O. Box 2827 Huntington, WV 25727  
Address

Consolidation Coal Company  
Coal Operator or Owner  
450 Racetrack Road, Washington, PA 15301  
Address

John Gump  
Lease or Property Owner  
Box 62, Burton, WV 26562  
Address

Haddad & Brooks, Inc.  
Name of Well Operator  
P.O. Box 714, 905 Washington Road, Washington, PA 15301  
Complete Address

Barr #1 November 6 19 87  
WELL AND LOCATION

Grant District

Wetzel County

WELL NO. 1

Calvin Barr Farm

STATE INSPECTOR SUPERVISING PLUGGING Mike Underwood

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Wetzel ss:

Phillip Pulliam and Larry Grubb

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Haddad & Brooks, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 3rd day of November, 19 87, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
7145 - 7050'	Cement Plug			
7050 - 6350'	6% Gel			
6350 - 6250'	Cement Plug			
		11 3/4" csg.	0	132
		8 5/8" csg.	0	2040
		*4 1/2" csg.	1277	6703
		2 3/8" tubing	7145	0
*Note: Partial plugback - 4 1/2" csg. was cut at 6329' and pulled up to 5052' GL. Ownership has been transferred to Consolidated Gas Supply Corp.				
Coal Seams		Description of Monument		
(Name)		4 X 2" Swedge		
(Name)				
(Name)				
(Name)				

and that the work of plugging and filling said well was completed on the \_\_\_ day of November, 19 87.

And further deponents saith not.

Sworn to and subscribed before me this 6th day of November, 19 87.

X Phillip C. Pulliam  
X Larry Grubb

Notary Public  
FEB 29 1988

My commission expires:  
June 16, 1993

Permit No. 47-103-1244-P P