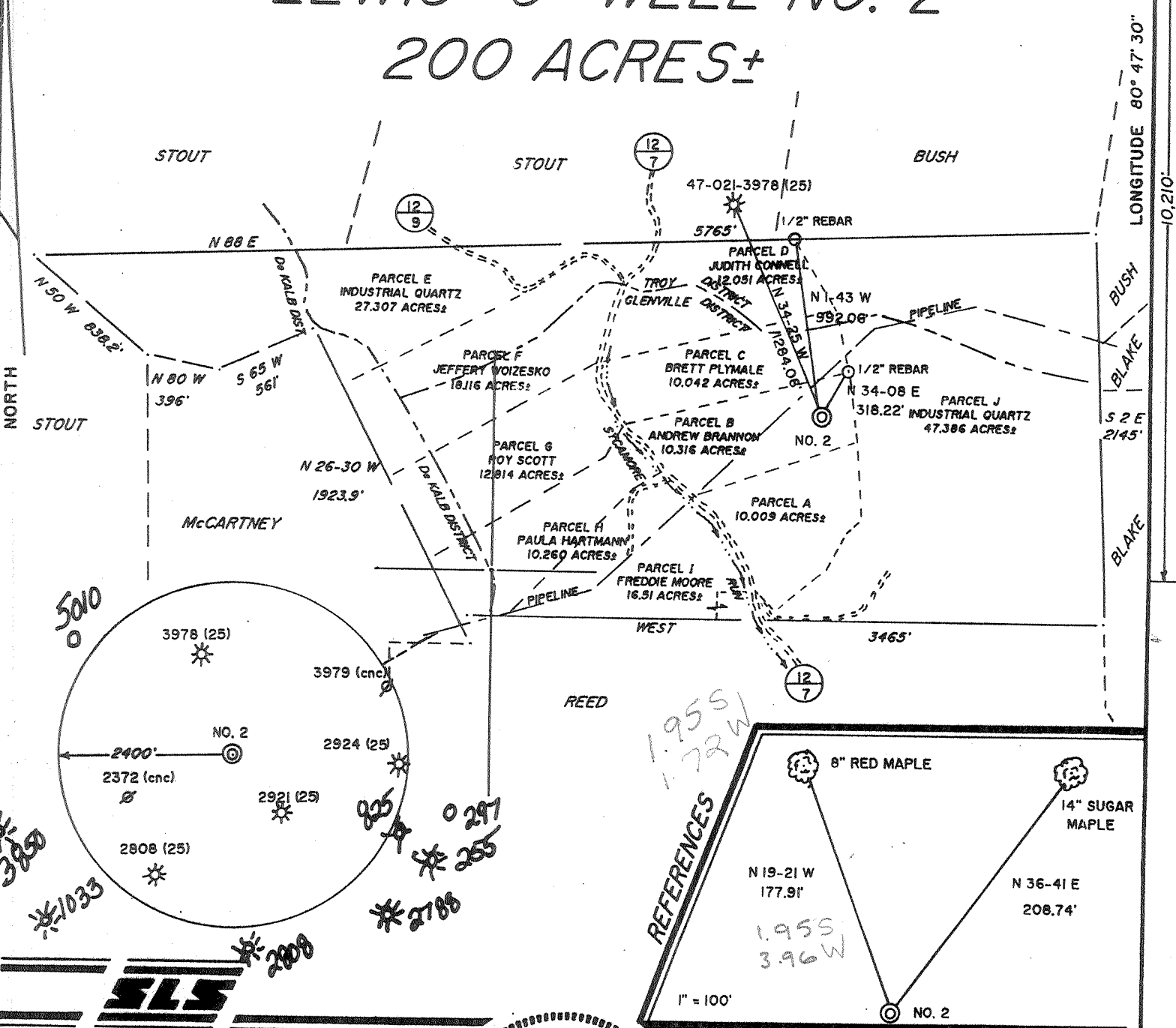
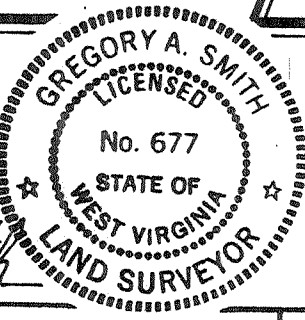


# LEWIS "C" LEASE LEWIS "C" WELL NO. 2 200 ACRES±

*Jamie  
6/12/92*



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE APRIL 15, 19 92  
 OPERATORS WELL NO. LEWIS "C" NO. 2  
 API WELL NO. 47 - 021 - 5055  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1631 (39-39)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1309' SCALE 1" = 800'

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

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

LOCATION: ELEVATION 1134' WATERSHED SYCAMORE RUN  
 DISTRICT GLENVILLE 3 COUNTY GILMER QUADRANGLE GLENVILLE 7.5' 115'

SURFACE OWNER ANDREW BRANNON ACREAGE 10.316  
 ROYALTY OWNER MARY LOUISE LEWIS ET. AL. LEASE ACREAGE 10.316 OF 200

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS SHALE  
 ESTIMATED DEPTH 6100'

WELL OPERATOR ANGERMAN ASSOCIATES Inc. 34 DESIGNATED AGENT WILLIS J. MAXWELL  
 ADDRESS 109 ZETA Dr. PITTSBURGH, PA 15238 ADDRESS RI. 65 BOX 7 GLENVILLE, WV 26351

Environmental Protection

State of West Virginia

Division of Environmental Protection  
Section of Oil and Gas

Permitting  
of Oil Well

Operator's Report of Well Work

Farm name: BRANNON, ANDREW Operator Well No.: LEWIS C-2

LOCATION: Elevation: 1134.00 Quadrangle: GLENVILLE

District: GLENVILLE County: GILMER  
Latitude: 10210 Feet South of 39 Deg. 0 Min. 0 Sec.  
Longitude 9060 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: ANGERMAN ASSOC., INC.  
109 ZETA DRIVE  
PITTSBURGH, PA 15238-0000

Agent: WILLIS J. MAXWELL

Inspector: CRAIG DUCKWORTH  
Permit Issued: 06/15/92  
Well work Commenced: 11/30/92  
Well work Completed: 12/07/92  
Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 6950' KB LTD  
Fresh water depths (ft) Damp @ 49'  
1/2" @ 700'  
Salt water depths (ft) 1" @ 1750'  
Salinity not recorded  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 1128'-1130'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	346.70'	346.70'	To Surface w/165 sks reg. Portlan
8-5/8"	2001.20'	2001.20'	To Surface w/445 sks reg. Portlan
4-1/2"	6865.00'	6865.00'	116.5 ft Poz/Gils
1-1/2"	6767.00'	6767.00'	

OPEN FLOW DATA

Producing formation Black Shales through Speehlet Pay zone depth (ft) 3112' / 6790'  
Gas: Initial open flow 2 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1238 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 120 Hours  
Static rock Pressure 1675 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.

For: ANGERMAN ASSOC. INC. Arthur E. Yingling, Executive Vice President  
and Chief Operating Officer  
By: \_\_\_\_\_  
Date: January 6, 1993

Reviewed TMG  
Recorded CJA

MAY 24 1993

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

Well Operator's Report of Well Work

Farm Name: Brannon, Andrew  
 Permit No.: 47-21-05055

Operator Well No.: Lewis C-2

Details of Perforated Intervals, fracturing or stimulating, physical change, etc.

<u>Formation</u>	<u>Perforations</u>	Treatment		<u>Rate</u>	<u>Wlhd Pressure</u>
		<u>20/40 Sand Pounds</u>	<u>Volume Form Bbl. 20# gel</u>		
Oriskany	6750-6790 (18)	20,000	628	8.23	3732
Black Shales	<sup>426 835</sup> 5048-6353 (14)	20,000	(80/100) 338	8.68	3820
Riley-Benson	4476-4643 (14)	35,000	448	7.94	2396
Balltown	3840-4276 (14)	5,000	(80/100)		
Speechley	3112-3366 (14)	25,000	299	9.05	2509
		20,000	249	9.80	2076

Well Log

Remarks (Including indication of all fresh and salt water, coal, oil and gas)

<u>Formation Coal Hard or Soft</u>	<u>Top Feet</u>	<u>Bottom Feet</u>	
Red Rock & Sandy Shale	10	50	Damp @ 49'
Sand & Shale	50	108	
Sand	108	187	
Red Rock	187	194	
Sand	194	232	
Red Rock	232	244	
Sand	244	284	
Red Rock	284	308	
Sand & Shale	308	661	
Sand	661	664	
Sandy Shale	664	761	1/2" stream @ 700'
Sand	761	790	
Sand & Shale	790	1128	
Coal	1128	1130	
Sand & Shale	1130	1665	
Sand	1665	1739	1" @ 1750'
Little Lime	1739	1803	Ck. gas @ 1758 20/10 1/2" w/w
Sandy Shale	1803	1831	
Big Lime	1831	1919	
Injun	1919	1981	
Shale	1981	2111	
Weir	2111	2146	Ck. gas @ 2129' - no show

MAY 24 1983

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

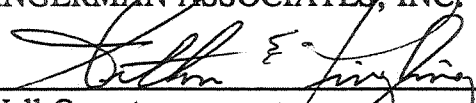
Well Operator's Report of Well Work

Farm Name: Brannon, Andrew  
Permit No.: 47-21-05055

Operator Well No.: Lewis C-2

Stray Sand	2501	2536	Ck. gas @ 2719' - no show
Shale & Sand	2536	3160	
Speechley	3160	3190	
Sandy Shale	3190	3861	Ck. gas @ 3215' - no show
Balltown	3861	3891	Ck. gas @ 3871' - no show
Sandy Shale	3891	4391	Ck. gas @ 4090' - no show
Riley	4391	4420	
Sand & Shale	4420	4630	Ck. gas @ 4493' - no show
Benson	4630	4640	
Shale & Sand	4640	4790	
Alexander	4790	4850	
Sandy Shale	4850	4890	
Black Shale	4890	6465	Ck. gas @ 4896' - no show
Marcellus	6465	6502	Ck. gas @ 5429' - no show
Onondoga	6502	6550	Ck. gas @ 6511' - no show
Lime & Sand	6550	6705	Ck. gas @ 6662' - no show
Oriskany	6705	6800	Ck. gas @ 6920' 1/10 1/2" w/w
Helderberg	6800	6920	DTD

(Attach separate sheets as necessary)  
ANGERMAN ASSOCIATES, INC.



Well Operator

Arthur E. Yingling, Exec. Vice President  
By: \_\_\_\_\_ and Chief Operating Officer

Date: January 6, 1993

6602  
4640  
1862  
DF = 485  
DFT = 475

6050  
1991  
7839

14600

JAN 24 1993

021-5055 Revised

Issued 11/16/92

Expires 11/16/94



STATE OF WEST VIRGINIA  
OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET, EAST  
CHARLESTON, WV 25311

GASTON CAPERTON  
Governor

November 13, 1992

Section of Oil and Gas  
Division of Energy

RE: APPLICATION FOR PERMIT #47 021-05055 TO DRILL DEEP WELL  
COMPANY: Angerman Associates, Inc. 34  
FARM: Andrew Brannon Lewis C-2  
COUNTY: Gilmer DISTRICT: Glenville

The application of the above company is approved for Oriskany <sup>475</sup>  
(Approved or Disapproved)

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; YES.
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of the operator, and, yes\*
- 3.) Provided a plat showing that the proposed location is a distance of 992 feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location:

\*47-021-03376 - 4,800 feet

Sincerely,

*Brett Loflin (cc)*

Brett Loflin  
Petroleum Engineer

REC'D

WV D.  
Environmental

MAY 27

Permitting  
Office of Oil & Gas

1) Date: April 28th, 1992  
2) Operator's well number  
LEWIS "C" WELL NO. 2  
3) API Well No: 47 - 021 - 5055  
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 Andrew Brannon  
Address 211 W. Columbia Street  
Flora, IA. 46929
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_
- 6) Inspector Craig Duckworth  
Address Box 107, Davisson Route  
Gassaway, WV 26624  
Telephone (304) - 364 - 5942

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

XXX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

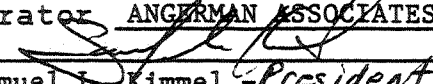
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties; by:

- Personal Service (Affidavit attached)
- XXX 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 ANGERMAN ASSOCIATES, INC.  
By: X   
Its: Samuel B. Kimmel - President  
Address 109 Zeta Drive  
Pittsburgh, PA. 15238  
Telephone (412) 963 - 0550

Subscribed and sworn before me this 28th day of April, 1992

Gregory A. Smith Notary Public  
My commission expires 12-07-92

REC'D  
WV Div.  
Environment

021 5055

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

Issued 6/15/92  
Expires 6/15/94

- 1) Well Operator: ANGERMAN ASSOCIATES, INC. 3200 (3) 372
- 2) Operator's Well Number: LEWIS "C" WELL NO. 2 3) Elevation: 11341
- 4) Well Type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation: Marcellus Shale
- 6) Proposed Total Depth: 6100 feet
- 7) Approximate fresh water strata depths: 150'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"			40'	0'	0 Sacks
Fresh Water	8-5/8"			800'	800'	CPS 38 CSR 18-11.3
Coal						38 CSR 18-11.3
Intermediate						
Production	4-1/2"			6100'	6100'	CPS or 38 CSR 18-11.1
Tubing						
Liners						

13765

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

For Division of Oil and Gas Use Only

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

022511  
32

REC

WV

Page 1 of 8  
Form WW2-A  
(09/87)

Environment

MAY 27

Permit  
Office of Oil

- 1) Date: April 28th, 1992
- 2) Operator's well number  
LEWIS "C" WELL NO. 2
- 3) API Well No: 47 - 021 - 5055  
State - County - Permit

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

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Address \_\_\_\_\_
    - Name \_\_\_\_\_  
Address \_\_\_\_\_
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    - Name N/A  
Address \_\_\_\_\_
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Telephone (304)-364-5942

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