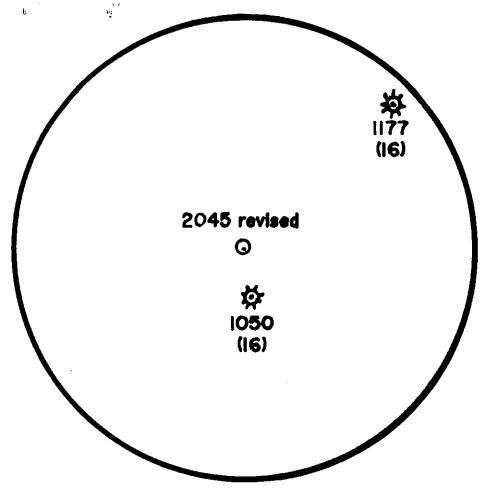


7 1/2'

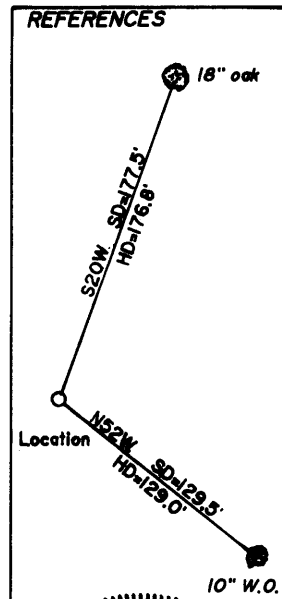
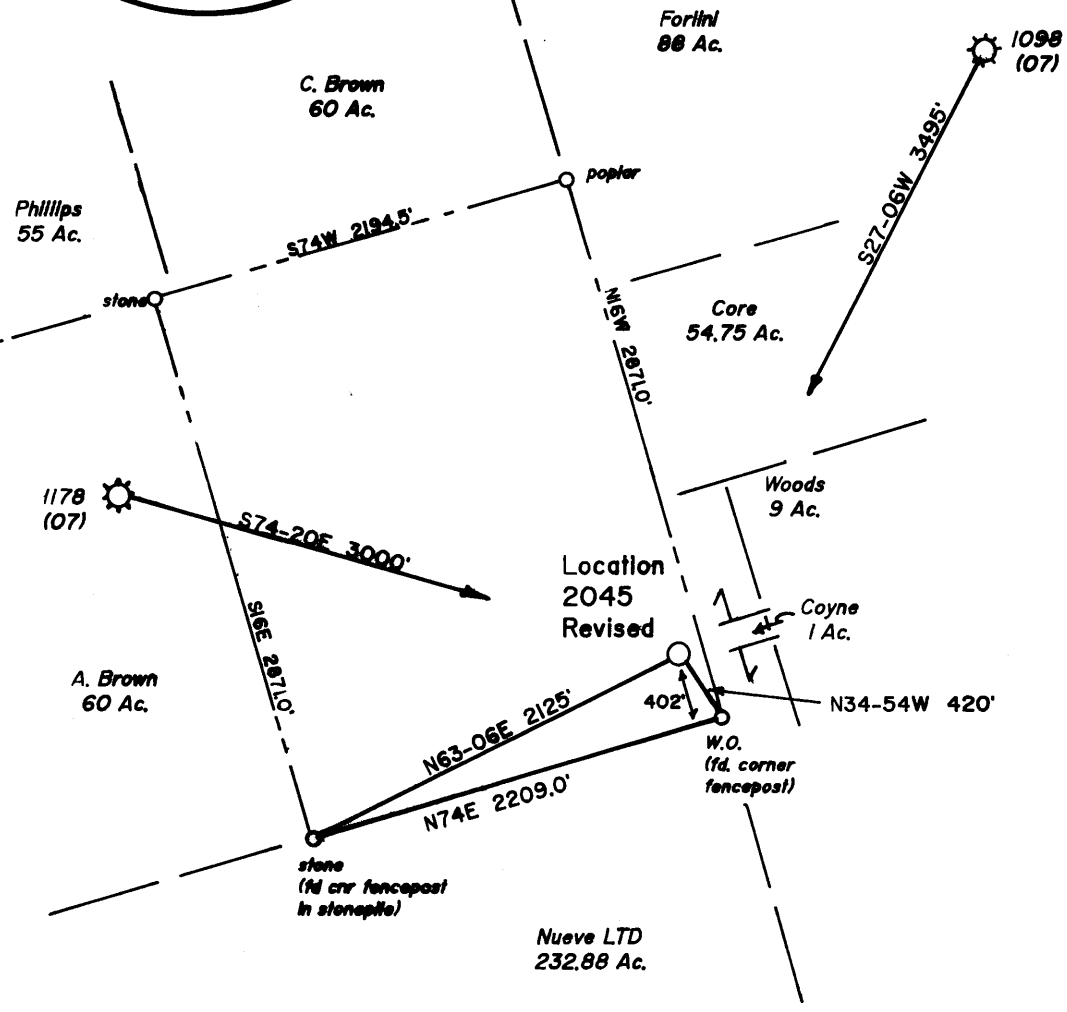
0.455  
0.450

LONGITUDE 76-55-00 W

NORTH



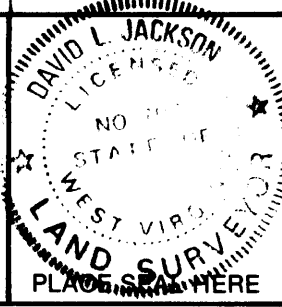
*James*  
*4/26/95*



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 2  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Top of knob 5700'  
NW of location: elev. 1917'

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) David L. Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS



DATE April 18, 19 95  
 OPERATOR'S WELL NO. 2045 revised  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 1950 WATER SHED Laurel Run  
 DISTRICT Clinton COUNTY Monongalia  
 QUADRANGLE Gladesville 7 1/2' shown NW

SURFACE OWNER Darlie R. Britton ACREAGE 145  
 OIL & GAS ROYALTY OWNER Darlie R. Britton et al LEASE ACREAGE 145  
 LEASE NO. 5069

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Oriskany ESTIMATED DEPTH 8400  
 WELL OPERATOR Alamco Inc. DESIGNATED AGENT Marty Perri  
 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740

FORM WW-6

COUNTY NAME PERMIT

DEEP WELL

6-6 313

**RECEIVED**

WV Division of Environmental Protection

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

26-Apr-95  
API # 47- 61-01193

**JUN 07 1995**

Well Operator's Report of Well Work

Permitting Office of Oil & Gas  
Farm name: DARLIE ET VIR, Operator Well No.: 2045

LOCATION: Elevation: 1,950.00 Quadrangle: GLADESVILLE

District: CLINTON County: MONONGALIA  
Latitude: 2400 Feet South of 39 Deg. 30Min. 0 Sec.  
Longitude 2475 Feet West of 79 Deg. 55 Min. 0 Sec.

Company: ALAMCO, INC.  
P. O. BOX 1740  
CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: RANDAL MICK  
Permit Issued: 04/26/95  
Well work Commenced: 05/05/95  
Well work Completed: 06/01/95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 8076  
Fresh water depths (ft) 45, 699, 852

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 16'-18'; 20'-22'; 35'-38'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	301'	301'	To surface
8-5/8"	2093'	2093'	To surface
4-1/2"	-	7992'	338 Cu. Ft.

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 7680'-7806'  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 2600 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 3300 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: ALAMCO, INC.

By: [Signature]  
Date: \_\_\_\_\_

**JUN 9 1995**

Formations: 0-301' from Drillers Log Book - 301' to TD from Gamma Ray Log

<u>Top</u>	<u>Bottom</u>	<u>Type</u>	<u>Water, Coal, Gas</u>	
0	5	Fill	<u>Water:</u> Wet @ 45'	
5	16	RR & SH	Damp @ 699'	
16	18	Coal	1/2" Stream @ 852'	
18	20	SH		
20	22	Coal	<u>Coal:</u> 16'-18'; 20'-22'; 25'-38'	
22	35	SD & SH		
35	38	Coal	<u>Oil:</u> None	
38	418	SD & SH		
418	428	RR	<u>Gas Checks:</u>	
428	667	SD & SH		
667	770	Big Lime	1348'	N/S
770	860	Big Injun	2431'	N/S
860	930	SH & SD	3332'	N/S
930	1080	Weir	4335'	N/S
1080	1753	SD & SH	5332'	N/S
1753	1810	Fourth	6359'	N/S
1810	1840	SH	7298'	Odor
1840	1855	Fifth	7610'	N/S
1855	1934	SH & SD	7829'	Odor
1934	1946	Bayard	7891'	Odor
1946	2140	SD & SH	8076'	Odor
2140	2560	SH		
2560	2586	Speechley		
2586	2970	SD & SH	<u>Treatment and Perforations:</u>	
2970	7228	SH	Huntersville Chert	
7228	7320	Tulley	Perforations: (7680-7806')	
7320	7450	SH	28 Holes	
7450	7648	Marcellus	WF-30# with 5% HCl throughout	
7648	7659	Onondaga	15,000# 80/100 Sand	
7659	7830	Huntersville Ch.	60,000# 20/40 Sand	
7830	7848	Needmore		
7848	7860	Lime		
7860	7922	Oriskany		
7922	8083	Helderberg		
	8076	Driller TD		

D61-1193

Issued 04/26/95  
Expires 04/26/97

20532

**RECEIVED**  
WV Division of  
Environmental Protection  
FORM WW-2B

APR 14 1995

Page 3 of 12

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

Permitting  
Office of Oil & Gas

975 (4) 368

- 1) Well Operator: ALAMCO, INC. 010
- 2) Operator's Well Number 2045 3) Elevation: 1,994'
- Well type: (a) OIL     / or GAS XX /  
(b) If Gas: Production XX / Underground Storage     /  
Deep XX / Shallow     /
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 8,400 feet
- 7) Approximate fresh water strata depths: 105', 609'
- 8) Approximate salt water depths: 1,100'
- 9) Approximate coal seam depths: 155'
- 10) Does land contain coal seams tributary to active mine? Yes     / No XX /
- 11) Proposed Well Work: SEE ATTACHED

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT			
	SIZE	GRADE	WEIGHT PER FT	FOR DRILLING	LEFT IN WELL	Fill-Up (Cu. Ft.)
CONDUCTOR	16"	LS	32#	30'	0'	NONE
FRESH WATER						
COAL						
SURFACE CSG	11"	J-55	32#	300'	300'	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
INTERMEDIATE	8-5/8"	J-55	24#	2,200'	2,200'	As required by 38 CSR 18-11-3 38 CSR 18-11-2.2
PRODUCTION	4-1/2"	M-75	11.60#	8,140'	8,140'	As required by 38 CSR 38-11-1

PACKERS: Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths Set \_\_\_\_\_

8 7856

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond WC Blanket  Agent

APR 14 1995

ATTACHMENT TO:  
FORM WW-2B

Page 4 of 12

Permitting  
Office of Oil & Gas

WELL OPERATOR           ALAMCO, INC.  
OPERATOR WELL NO:     2045  
FILE NUMBER            47-061- 1193

---

---

11. Proposed Well Work:

Well 2045 will be drilled to approximately 300' KB. The 11-3/4" casing will be set at approximately 300' KB and then cemented to surface. The well will then be drilled to 2,200' KB and the 8-5/8" casing set at approximately 2,200' KB and then cemented to surface. The well will then be drilled to 8,400' KB and the 4-1/2" casing set at approximately 8,400' KB. The 4-1/2" casing will be cemented to 7,525' KB. The well will then be hydraulically fractured in the Huntersville Chert Formation.

12. Plan for partial abandonment:

**RECEIVED**  
WV Division of  
Environmental Protection

APR 14 1995

- 1) Date: March 23, 1995
- 2) Operator's well number 2045
- 3) API Well No: 47 - 061 - 1193  
State - County - Permit

Permitting  
Office of Oil & Gas

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 Darlie Britton, et vir  
Address Route 9, Box 195  
Morgantown, WV 26505
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name NO RECORD DECLARATION
  - Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration
    - Name Darlie R. Britton, et vir
    - Address Route 9, Box 195  
Morgantown, WV 26505
    - Name Dorothea R. King
    - Address Route 5, Box 531  
Morgantown, WV 26505
  - (c) Coal Lessee with Declaration
    - Name NO RECORD DECLARATION
    - Address \_\_\_\_\_
- 6) Inspector Randal Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304)- \_\_\_\_\_

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  
 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 11 on the above named parties, by:  
 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 ALAMCO, INC.  
 By: Marty Kern  
 Its: Manager, Land  
 Address 200 West Main Street  
Clarksburg, WV 26301  
 Telephone 304 623-6671

Subscribed and sworn before me this 29th day of March, 1995  
Robert M. Coy Notary Public  
 My commission expires December 9, 2003