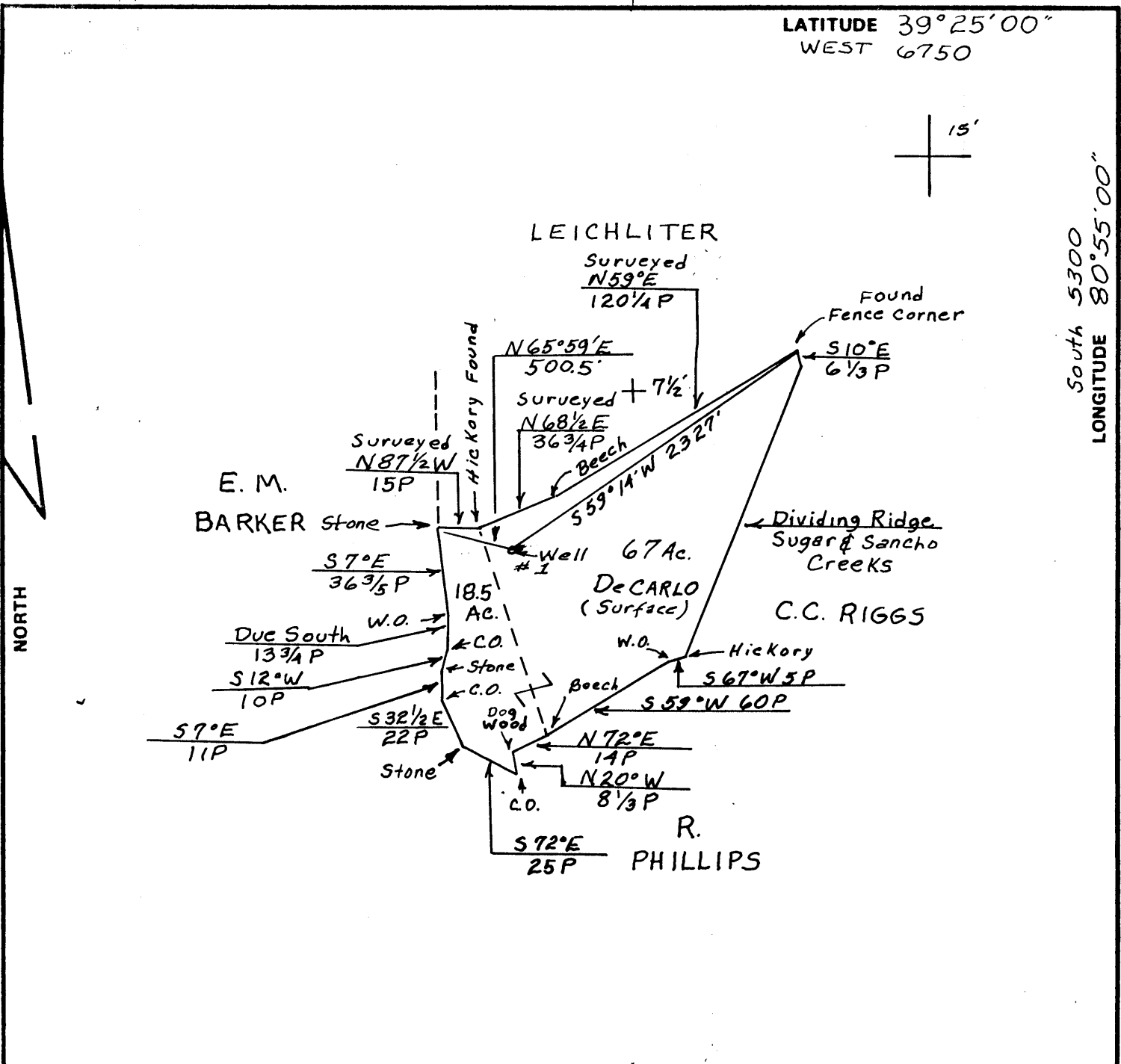


ch 9/11

LATITUDE 39°25'00"  
WEST 6750

South 5300  
LONGITUDE 80°55'00"



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION B.M. 809, 2,000'+ East of Wick, W. Va

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) W. F. Woodhewer  
R.P.E. 5404 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE SEPTEMBER 8, 1981  
OPERATOR'S WELL NO. \_\_\_\_\_  
API WELL NO. \_\_\_\_\_  
47 - 095 - 0951-P  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1003 WATER SHED SUGAR CREEK  
DISTRICT MEADE COUNTY TYLER  
QUADRANGLE MIDDLEBOURNE 7 1/2  
SURFACE OWNER MIKE DECARLO, et al ACREAGE 85.5  
OIL & GAS ROYALTY OWNER SNYDER ET AL'S LEASE ACREAGE \_\_\_\_\_  
LEASE NO. \_\_\_\_\_  
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 5500' APR 27 1987  
WEI AD BEM Drilling Company 2800-28th. St. Suite 153 Santa Monica, California 90405  
ESIGNATED AGENT W. E. Browning ADDRESS P.O. Box 5249 - Vienna, WVa. 26105 PH: 304-428-0576





IV-35  
(Rev 8-81)

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 2/6/87  
Operator's \_\_\_\_\_  
Well No. Snyder #1  
Farm Snyder Et Al Farm  
API No. 47 - 095 - 0951

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 \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1012 Watershed Sugar Creek Watershed  
District: Meade County Tyler Quadrangle \_\_\_\_\_

COMPANY Browning & Evans  
ADDRESS P O Box 5249, Vienna, WV 26105  
DESIGNATED AGENT W.E. Browning  
ADDRESS P O Box 5249, Vienna, WV 26105  
SURFACE OWNER Mike & Grace Decarlo  
ADDRESS RFD 1, Box 193F, Hope Mills, NC 28348  
MINERAL RIGHTS OWNER Snyder Et Al  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
Bob Lowther ADDRESS Middlebourne  
PERMIT ISSUED 8-14-81  
DRILLING COMMENCED 11-25-81  
DRILLING COMPLETED 12-18-81

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	30	10
9 5/8			
8 5/8			
7	1100	1100	220
5 1/2			
4 1/2	2800	280	300
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2800 feet  
Depth of completed well 2800 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 280 feet; Salt 1150 feet  
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1994-2042 feet  
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 15 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 600 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation N/A 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

FEB 18 1987

(Continue on reverse side)

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

Perforated  
1988 to 1994 - 3 Shot  
2042 to 2075 - 12 Shot

Crosslink Frac with 38.200 lbs of sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
No Samples Caught		Above	1,100		
Sand	Grey	Soft	1,100	1,170	
Shale	Grey	Soft	1,170	1,225	
Sand	Grey	Soft	1,125	1,320	
Sand	Brown	Soft	1,320	1,480	
Shale	Grey	Soft	1,480	1,625	
Sand	White	Soft	1,625	1,690	
Lime	Buff	Soft	1,690	1,820	
Sand/Shale	Grey	Soft	1,820	1,900	
Sand	White	Soft	1,900	1,980	
Sand/Shale	Grey	Soft	1,980	2,160	
Sand	Grey	Soft	2,160	2,800	
				TD	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Browning & Evans  
Well Operator

By: *W.E. Browning*

Date: 2-6-87

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."

FEB 18 1987

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

Date: August 9, 1981

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Snyder #1  
API Well No. 47-095-0951  
State County Permit

WELL TYPE: Oil XX / Gas XX /  
(If "Gas", Production XX / Underground storage      / Deep      / Shallow      /)

LOCATION: Elevation: 1000' Watershed: Sugar Creek  
District: None County: Tyler Quadrangle: Middlebourne 7X

WELL OPERATOR Klondike Development Corp.  
Address P.O. Box 44  
Middlebourne, WV 26149

DESIGNATED AGENT Frank E. Pethtel  
Address 417 1/2 Second Street  
St. Marys, WV 26170

OIL & GAS ROYALTY OWNER Snyder et al's  
Address Winterville, WV

COAL OPERATOR None  
Address     

SURFACE OWNER Mike Beards, et. ux.  
Address     

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name None  
Address     

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SEP 10 1981

FIELD SALE (IF MADE) TO:  
Name       
Address     

COAL LESSEE WITH DECLARATION ON RECORD:  
Name       
Address     

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Mr. Phillip Tracey  
Address Middlebourne, WV 26149

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed      / lease XX / other contract      / dated Sept 17, 1979, to the undersigned well operator from Jessie Baker  
[If said deed, lease, or other contract has been recorded:]

Recorded on Sept 25, 1979, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 221 at page 325. A permit is requested as follows:

PROPOSED WORK: Drill XXX / 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 the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

**BLANKET BOND**

Klondike Development Corporation  
Well Operator

By Frank E. Pethtel  
Its Vice President

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown  
Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5500 feet Rotary XXX / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: none Is coal being mined in the area? Yes \_\_\_\_\_ / No XXX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	16"	H40	38lbs		XXX	20'		Kinds
Fresh water								
Coal								Sizes
Intermediate	5/8"	H42	23 lbs	XX			1103'	To surf.
Production	4 1/2"	J55	10 1/2 lbs	XX			5500'	650 sacks
Tubing	2"	erw	4.71 lbs	XX			5500'	Depths set
Liners								Perforations:
								Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well. THIS PERMIT MUST BE POSTED AT THE WELL SITE as part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-14-82

*Fred R. Russell*  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_

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MAY 20 1987

AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, 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.

NONE	BEM Drilling Program 1981-1
Coal Operator or Owner	Name of Well Operator
Address	2800-28th St, Suite 153, Santa Monica CA 90405
Coal Operator or Owner	Complete Address
Address	Snyder #1 19
Mike & Grace De Carlo	WELL AND LOCATION
Lease or Property Owner	Meade District
RFD 1, Box 193F Cypress Lanes Rd.	Tyler County
Mt. Hope, NC 28348	WELL NO. 47-095-0951
Address	De Carlo Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert A. Lowther

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Wood ss:

W.E. Browning and Deon D. Sturm

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 BEM Drilling Program 1981-1, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 13<sup>th</sup> day of May, 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
Big Injun	Gel & Cement	Cement Plugs 100 ft.	-0-	2800ft
	CEMENT	CEMENT PLUG 1/2	0	2800
		Gel TO		2700
		CEMENT PLUG 1/2	1900	1-1
		Gel TO		1800
		CEMENT PLUG 1/2	1900	0
		Gel TO		300 FT
		CEMENT PLUG 1/2		300 FT
		TO Surface		
Coal Seams		Description of Monument		
(Name)		3 foot piece of 4 1/2" casing		
(Name)		with flat plate welded to top		
(Name)		API number welded to on the		
(Name)		4 1/2"		

and that the work of plugging and filling said well was completed on the 13 day of May, 19 87.

And further deponents saith not.

W.E. Browning  
VP

Sworn to and subscribed before me this 13<sup>th</sup> day of May, 19 87.

OFFICIAL SEAL  
NOTARY PUBLIC - STATE OF WEST VIRGINIA  
Ferry E. Slaughter  
Central Building  
Five Forks, W. Va. 26145  
My Commission Expires: October 1, 1996

My commission expires:  
10/1/92

Ferry E. Slaughter  
Notary Public  
JUN 29 1987  
Permit No. 47-095-0951-P