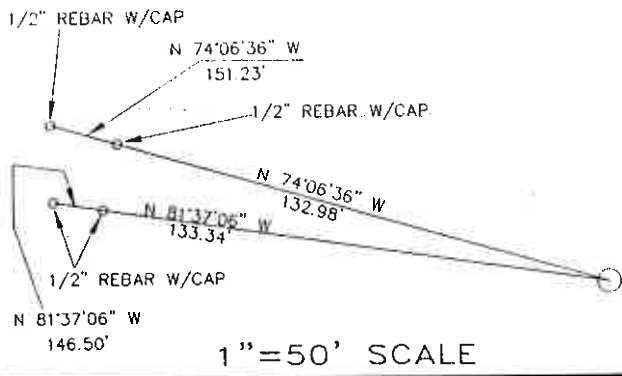


REFERENCE POINTS



LATITUDE 37° 50' 00"

LONGITUDE 82° 22' 30"

0.085
0.25W

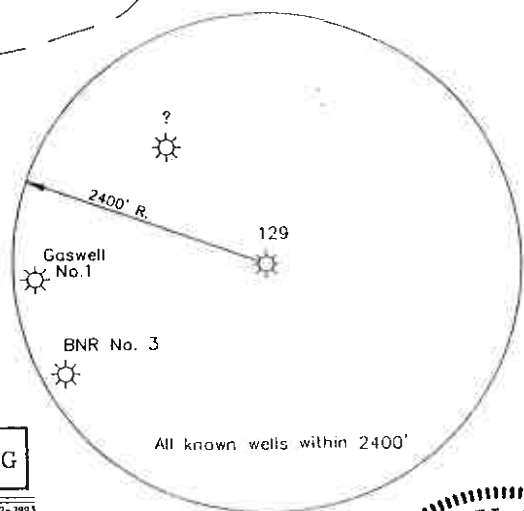
Burning Creek Marrowbone Land Co.

Burning Creek Marrowbone Land Company - Fee 1165.8 Ac.

East Ky. Energy Corp. - Coal Lessee

Well Loc. BNR No. 4

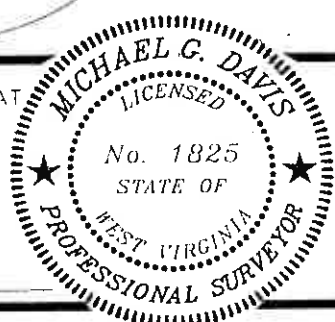
Burning Creek Marrowbone Land Company - Fee 387.8 Ac.



ELKHORN ENGINEERING INC. 109 LONESOME CEDAR DR., PIKEVILLE, KY (606) 432-2993

NOTES: Property Lines shown are those established by Coal Company. All surveying based on control provided by Coal Company.

I, THE UNDERSIGNED, DO 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.



P.S. 1825 Michael Davis

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

DATE August 25, 2000

OPERATOR'S WELL NO. BNR #4

ALL WELL NO. 047 059 01396
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1:25,700 FILE NO. 0050-03-4
PROVEN SOURCE OF ELEVATION Kermit Coal Co. Sta. 33 = 648.66
SCALE 1" = 400'

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 975.96 WATERSHED Upper Burning Creek
DISTRICT _____ COUNTY Mingo QUADRANGLE Kermit

SURFACE OWNER Burning Creek Marrowbone Land Company ACREAGE 387.8
ROYALTY OWNER Burning Creek Marrowbone Land Co. LEASE ACREAGE 387.8

PROPOSED WORK:
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION Devonian Shale
ESTIMATED DEPTH 3200'

WELL OPERATOR Tug Fork Development DESIGNATED AGENT Sid Wheeler
ADDRESS 3930 Brandywine Drive ADDRESS Box 101
Collettsburg, KY 41129 Fenova, WV 25530

6-6 243

DEC 01 2000

MINGO 1370

WR-35

DATE: 5/16/01
API #: 47 59 01396
AJB

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

Well Operator's Report of Well Work

Farm name: BURNING CK MARAUBOU LAND Operator Well No.: BNR# 4

LOCATION: Elevation: 975' Quadrangle: KERMIT

District: KERMIT County: MINING
Latitude: 6300 Feet South of 37 Deg. 51 Min. 00 Sec.
Longitude 1400 Feet West of 02 Deg. 22 Min. 30 Sec.

Company: TUG FORK DEVELOPMENT

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>3930 BRANDYWINE DR</u>	<u>13 3/8</u>	<u>30</u>	<u>30</u>	<u>DRIVE PIPE</u>
<u>CATLETTSBURG, KY</u>	<u>9 5/8</u>	<u>300</u>	<u>300</u>	<u>118</u>
Agent: <u>SIDNEY WHEELER</u>	<u>7</u>	<u>1594</u>	<u>1594</u>	<u>292</u>
Inspector: <u>OFIE HELMICK</u>	<u>4 1/2</u>	<u>3367</u>	<u>3367</u>	<u>190</u>
Date Permit Issued:				
Date Well Work Commenced: <u>12/10/00</u>				
Date Well Work Completed: <u>1/10/01</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): <u>3370</u>				
Fresh Water Depth (ft.): <u>145</u>				
Salt Water Depth (ft.): <u>1020</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>610</u>				

RECEIVED
Office of Oil & Gas
Permitting
MAY 24 2001
WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 2487-3203
 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
COMMINGLED OPEN FLOW 357 RP 237
 Second producing formation INTUN Pay zone depth (ft) 1818-1827
 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 72 Hours
 Static rock Pressure _____ psig (surface pressure) after 72 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.

Signed: _____
By: W.D. LUBBECKE
Date: 5/16/01

MAY 25 2001

MINING - 1396

BNR #4
47-59-01396

FORMATIONS	INTERVAL	SHOWS		PERFORATIONS
		GAS	WATER	
FILL	0-30			
SAND AND SHALE	30-704		180-FRESH	
SAND	704-744			
SAND AND SHALE	744-950			
SALT SAND	950-1210		1100-SALT	
SAND AND SHALE	1210-1480			
MAXON	1480-1496			
LIME AND SHALE	1496-1586			
LITTLE LIME	1586-1610			
BIG LIME	1610-1818			1800-1809 (4 HOLES)
INJUN	1818-1854			1820-1869 (12 HOLES)
WEIR	1854-1942			
SLATE	1942-2352			
COFFEE SHALE	2352-2372			
BEREA	2372-2476			
BROWN SHALE	2476-2548			2487-2545 (6 HOLES)
WHITE SLATE	2548-2750			
BROWN SHALE	2750-2834			2810-2828 (4 HOLES)
WHITE SLATE	2834-3058			
BROWN SHALE	3058-3310			3064-3283 (30 HOLES)
WHITE SLATE	3310-3370			

NO SHOWS

STIMULATION

INJUN 85 QUALITY FOAM FRAC 41,000# 20/40 SAND, 400,000 SCF OF N2
BROWN SHALE N2 FRAC W/ 1.8 MMSCF OF N2