



Well No. #1
Farm Carl & Delores Elder
API # 47-073-1223
Date June 4, 1981

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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 965' Watershed: Middle Island Creek
District: Union County: Pleasants Quadrangle: Raven Rock, W.Va.

WELL OPERATOR BKK Prospecting, Ltd.
Address 55 North Road

DESIGNATED AGENT John Graham
Address 209 Second St.

OIL AND GAS Niles, Ohio 44446

ROYALTY OWNER Carl & Delores Elder
Address St. Marys, W.Va.

COAL OPERATOR Na
Address

Acreage 15.89

SURFACE OWNER Carl & Delores Elder
Address St. Marys, W.Va.

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

Acreage 15.89

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phil Tracy
Address Route 23, Alma, W.Va.
Telephone 758-4573

COAL LESSEE WITH DECLARATION ON RECORD:
NAME Na
Address

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OIL & GAS DIVISION
DEPT. OF MINES

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 May 15 19 81 to the undersigned well operator from Carl & Delores Elder.

(If said deed, lease, or other contract has been recorded:)

Recorded on June 2, 1981, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in #164 Book at page #215 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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

BKK Prospecting, Ltd.
Well Operator
By: John Graham
Its: Designated Agent

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Harry Wilson Drilling Contractor

Address _____

GEOLOGICAL TARGET FORMATION shale

Estimated depth of completed well 5900 feet. Rotary / Cable tools /
Approximate water strata depths: Fresh, 150' feet; salt, _____ feet.
Approximate coal seam depths: _____
Is coal being mined in this area: Yes / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drill-ling			Left in Well
Conductor	<u>13-5/8"</u>			<input checked="" type="checkbox"/>				<u>To surface</u>	Kinds
Fresh water									
Coal									Sizes
Intermed.	<u>8-5/8"</u>		<u>20</u>	<input checked="" type="checkbox"/>		<u>250'</u>	<u>250'</u>	<u>To surface</u>	
Production Tubing	<u>4 1/2"</u>		<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5900"</u>	<u>5900"</u>	<u>Back to top of producing zone</u>	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 where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 2-12-82.

John Burdette
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 regularions.

Date: _____, 19____.

BKK Prospecting, Ltd.
By: John Cochran
Its: Designated Agent

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Date 11 May 1981

Well No. BKK-1

API No. 47 - 073 - 1223
State County Permit

OIL & GAS DIVISION
STATE OF WEST VIRGINIA
DEPT. OF MINES
OFFICE OF OIL AND GAS

Company Name BKK Prospecting Designated Agent Edward A. Kleese
Address 45 North Road, Niles, Ohio 44446 Address 45 North Road, Niles, Ohio 44446
Telephone 216-652-5991 Telephone 216-652-5991
Landowner Carl + Delores Elder Soil Cons. District Upper Ohio
Revegetation to be carried out by Jim Renner (Agent)
This plan has been reviewed by Upper Ohio SCD. AVI corrections
and additions become a part of this plan. 6/3/81 Kenneth R. Mason
(Date) (SCD Agent)

Access Road

Structure	<u>Cross Drain</u>	(A)
Spacing	_____	
Page Ref. Manual	<u>1:3</u>	
Structure	<u>Rip - Rap</u>	(B)
Spacing	_____	
Page Ref. Manual	<u>N/A</u>	
Structure	_____	(C)
Spacing	_____	
Page Ref. Manual	_____	

Location

Structure	<u>Diversion Ditch</u>	(1)
Material	<u>Soil</u>	
Page Ref. Manual	<u>1:9</u>	
Structure	<u>Rip - Rap</u>	(2)
Material	<u>Rock - Stone - Brush</u>	
Page Ref. Manual	<u>N/A</u>	
Structure	_____	
Material	_____	
Page Ref. Manual	_____	

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All structures should be inspected regularly and repaired if necessary.

Revegetation

OIL & GAS DIVISION
DEPT. OF MINES

Treatment Area I

Lime	_____	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>500</u>	lbs/acre
	(10-20-20 or equivalent)	
Mulch	<u>Hay</u>	<u>2</u> Tons/Acre
Seed*	<u>KY31 Fescue</u>	<u>35</u> lbs/acre
	<u>Redtop</u>	<u>5</u> lbs/acre
		lbs/acre

Treatment Area II

Lime	_____	Tons/Acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>500</u>	lbs/acre
	(10-20-20 or equivalent)	
Mulch	<u>Hay</u>	<u>2</u> Tons/Acre
Seed*	<u>KY31 Fescue</u>	<u>35</u> lbs/acre
	<u>Redtop</u>	<u>5</u> lbs/acre
		lbs/acre






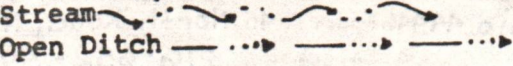
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

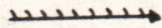



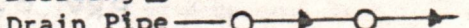
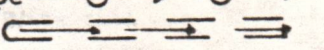
Attach or photocopy section of involved Topographic map. Quadrangle Raven Rock, W. Va.

Legend:  Well Site
 Access Road

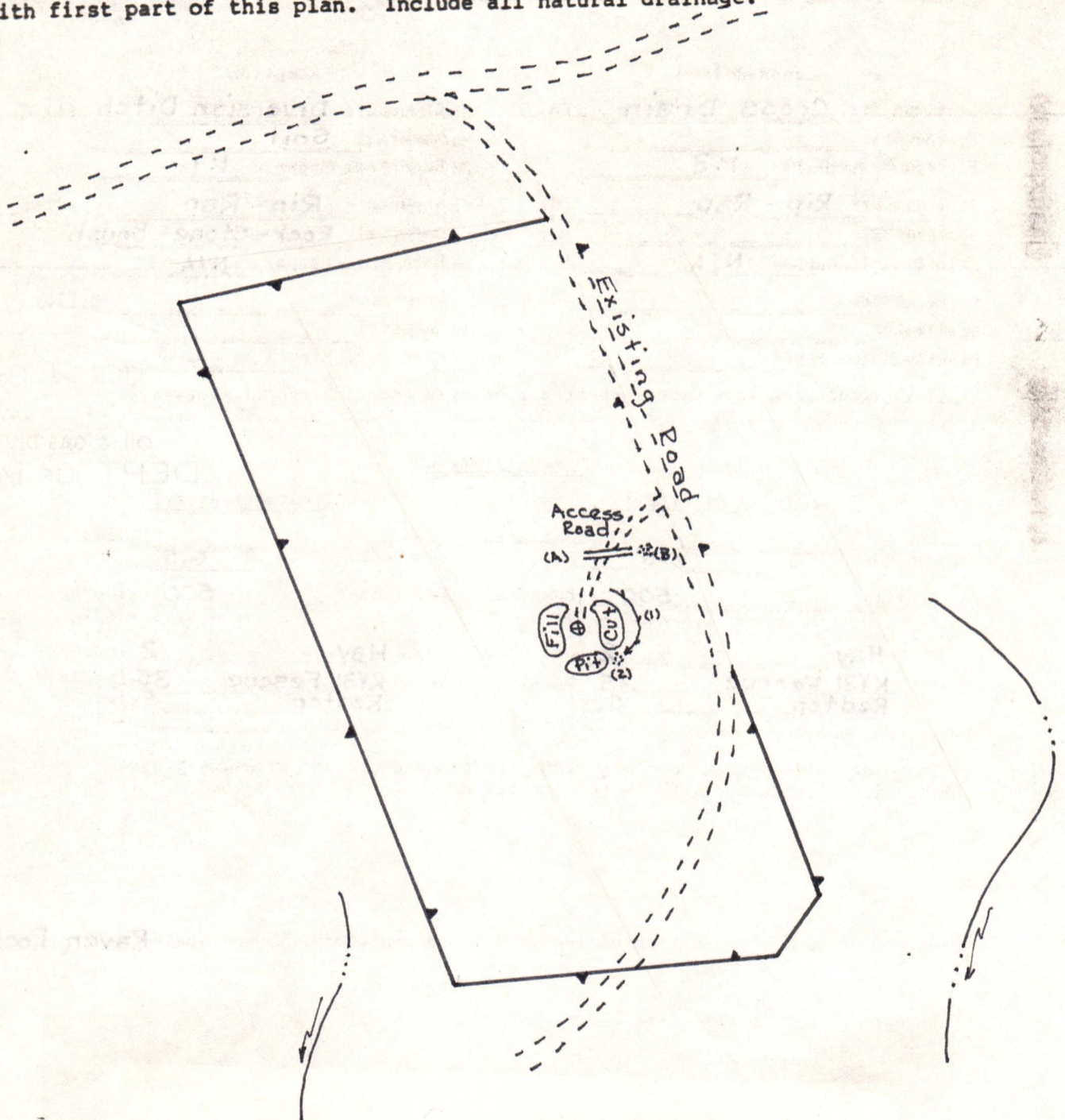


Well Site Plan

Legend: Property Boundry 
 Road 
 Existing Fence 
 Planned Fence 
 Stream 
 Open Ditch 

Diversion 
 Spring 
 Wet Spot 
 Building 
 Drain Pipe 
 Waterway 

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments: (1) Average Slope of Access Road 10%

(2) Length of Access Road 350'

(3) Brush and Trees to be Piled at Site

Signature: _____

Agent

Address

Phone Number

Please request landowners cooperation to protect new seeding for one growing season.



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Raven Rock
Permit No. 47-073-1223

Company B.K.K. Prospecting, LTD
Address 45 North Road Niles, Ohio 44446
Owner Carl & Delores Elder Acres 15.89
Location (waters) Middle Island Creek
Well No. B.K.K. -1 Elev. 965'
District Union County Pleasants

The surface of tract is owned in fee by Carl & Delores Elder

Address St. Marys, WV 26170

Mineral rights are owned by Same

Address _____

Drilling Commenced 6-15-81

Drilling Completed 6-23-81

Initial open flow 0 cu. ft. 0 bbls.

Initial production Testing cu. ft. per day Testing bbls.

Well open 2 hrs. before test 1100 RP.

Well treatment details:

Attach copy of cementing record.

Perforated from 4374 - 4478 11 shots fractured 60,000# sand 250 BBLS Water
700 Foam

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			To surface 460 sks Cement
Cond. 13-10"			
9 5/8			
8 5/8	957'	957'	
7			
5 1/2			
4 1/2	4592'	4592'	
3			
2			
Liners Used			

Formation encountered at _____ Feet _____ Inches
Water _____ Feet _____ Salt Water _____ Feet _____
Cementing Sand Devonian Shale 400 Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Gray	Hard	0	957		
	Gray	"	957	1025		
	Brown	"	1025	1153		
	Gray	"	1153	1238		
	Gray	Soft	1238	1298		
	Gray	Hard	1298	1340		
	Dk Gray	"	1340	1378		
	Gray	"	1378	1461		
	Gray	Soft	1461	1495		
	Gray	Hard	1495	1513		
	Gray	"	1513	1560		
	Sand	Gray	"	1560	1601	
Gray		"	1601	1790		
Limestone	White	"	1790	1817		
	Gray	"	1817	1849	Saltwater	365 Big Injun
	Gray	"	1849	2574		
	Gray	"	2574	4592	Oil & Gas	419 Gordon

(over)

Electric Log tops in the remarks section.

Pleasants 1223

DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 73-1223

Oil or Gas Well _____
KIND

Company <u>BKK Prospecting</u> Address <u>Niles OH.</u> Farm <u>Carl Elder</u> Well No. <u>1</u> District _____ County <u>Pleasants</u> Drilling commenced _____ Drilling completed _____ Total depth <u>1028</u> Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet Salt water _____ feet	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
	Size			Kind of Packer
	16			
	13			
	10			Size of _____
	8 1/4	957	957	
	6 3/4			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
	Liners Used _____			Perf. top _____ Perf. bottom _____
	CASING CEMENTED <u>8 5/8</u> SIZE <u>957</u> No. FT. <u>6-17-81</u> late			
	NAME OF SERVICE COMPANY <u>Dowell</u>			
	<u>310 Sk. Used</u>			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

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DEPT. OF MINES

Phil Tracy 572
DISTRICT WELL INSPECTOR

6-17-81
DATE



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DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
July 25, 1984

COMPANY BKK Prospecting, Ltd. PERMIT NO 073-1223 (6/12/81)
45 North Road FARM & WELL NO Carl & Delores Elder #1
Niles, Ohio 44446 DIST. & COUNTY Union/Pleasant

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.A. Lowther
DATE July 31, 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. [Signature]
Administrator-Oil & Gas Division

September 27, 1984

DATE

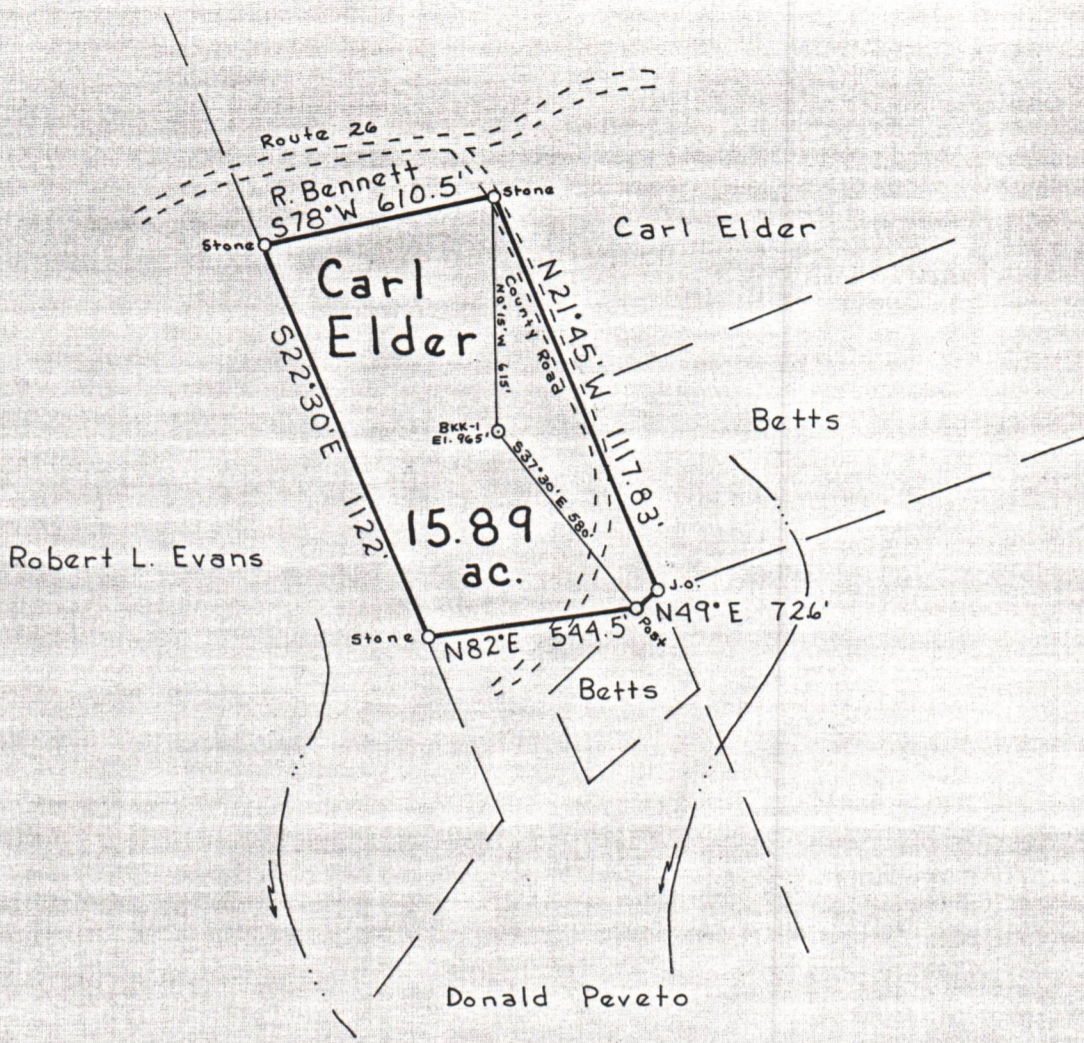
LATITUDE 39°25'

560'

7 1/2'

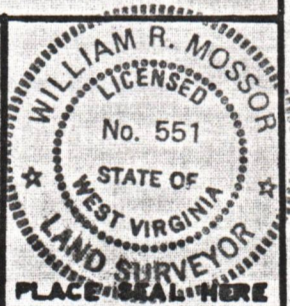
605'

LATITUDE 81°10'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION Road Int. 1069'

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) *William R. Mossor*
 R.P.E. _____ L.L.S. 551



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

FORM IV-6
(8-78)



DATE 11 May, 1981
 OPERATOR'S WELL NO BKK-1
 API WELL NO. 47-073-1223
 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 965' WATER SHED Middle Island Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Raven Rock, W.Va. 7 1/2' Quad.
 SURFACE OWNER Carl + Delores Elder ACREAGE 15.89
 OIL & GAS ROYALTY OWNER Carl + Delores Elder LEASE ACREAGE 15.89
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Shale ESTIMATED DEPTH 5900'
 WELL OPERATOR BKK Prospecting DESIGNATED AGENT _____
 ADDRESS 45 North Road ADDRESS John T. Graham
 Niles, Ohio 44446 209 2nd St. St. Marys, W. Va. 26170