



Well No. B.K.K. 33 Mc Knight
Farm Harry D. Scadden
API # 47 -073 - 1290
Date August 20, 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: 1102' Watershed: Wolf Run
District: Union County: Pleasants Quadrangle: Raven Rock

WELL OPERATOR BKK Prospecting LTD
Address 45 North Road
Niles, Ohio

DESIGNATED AGENT John Graham
Address 209 Second Street
St. Marys, WV

OIL AND GAS ROYALTY OWNER S.E. & Della Mc Knight
Address St. Marys, WV 26170

COAL OPERATOR _____
Address _____

Acreage 50

SURFACE OWNER Harry David Scadden
Address St. Marys, WV 26170

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

Acreage 50

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME Phillip Tracy
Address Route # 3
Alam, WV 26320
Telephone 304-758-4573

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

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AUG 21 1981

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 / other contract ___ / dated May 19, 1981, to the undersigned well operator from James A Renner

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

Recorded on May 29, 19 81, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 164 Book at page 9. A permit is requested as follows:

PROPOSED WORK: Drill / 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

B.K.K. Prospecting, LTD

Well Operator

By: John Graham

Its: Designated Agent

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Shale

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

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	13-5/8			X			X	To surface	Kinds
Fresh water									Sizes
Coal									Depths set
Intermed.	8-5/8		20	X		1202'	1202'	To surface	7
Production	4+1/2"		10.5	X		5900'	5900'	590 sks	
Tubing								Cement	Perforations:
Liners									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 18, or in lieu thereof the other security allowed by Code §22-4-5, (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 §22-4-3a 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 4-25-82.

J. H. Murray
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____.

B.K.K. Prospecting, LTD

By: *John Graham*

Its: Designated Agent

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name BKK Prospecting Designated Agent John Graham
Address 45 North Rd. Niles, Ohio 44446 Address 209 Second St. St. Marys, W.Va. 26170
Telephone 216-652-5991 Telephone 684-7493
Landowner Harry David Scadden Soil Cons. District Upper Ohio
Revegetation to be carried out by Jim Renner (Agent)
This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan. 8/19/81 (Date) Renner R. Mason (SCD Agent)

Access Road	Location
Structure _____ (A) Spacing _____ Page Ref. Manual _____	Structure _____ (1) Material _____ Page Ref. Manual _____
Structure _____ (B) Spacing _____ Page Ref. Manual _____	Structure _____ (2) Material _____ Page Ref. Manual _____
Structure _____ (C) Spacing _____ Page Ref. Manual _____	Structure _____ (3) Material _____ Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

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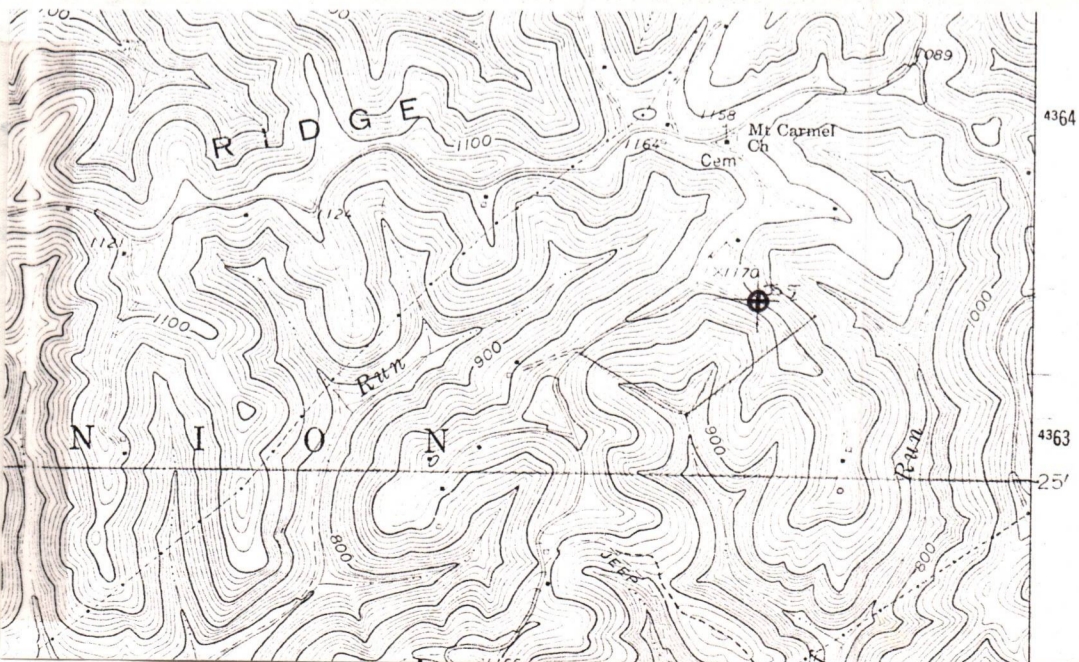
Revegetation

Treatment Area I	Treatment Area II	OIL & GAS DIVISION DEPT. OF MINES
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/acre or correct to pH <u>6.5</u>	
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	
Mulch <u>Hay</u> <u>2</u> Tons/Acre	Mulch <u>Hay</u> <u>2</u> Tons/Acre	
Seed* <u>KV31 Fescue</u> <u>35</u> lbs/acre	Seed* <u>KV31 Fescue</u> <u>35</u> lbs/acre	
<u>Redtop</u> <u>5</u> lbs/acre	<u>Redtop</u> <u>5</u> 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





IV-35
(Rev 8-81)

Date November 12, 1981

State of West Virginia

Department of Mines
Oil and Gas Division

Operator's
Well No. BKK 33 McKnight

Farm Harry D. Scadden

API No. 47 - 073 - 1290

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FEB 22 1985

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal
(If "Gas," Production X / Underground Storage / Deep / Shallow /)

DEPT. OF MINES

LOCATION: Elevation: 1102' Watershed Wolf Run
District: Union County Pleasants Quadrangle Raven Rock

COMPANY BKK Prospecting, LTD
ADDRESS 45 North Road Niles, Ohio 44446
DESIGNATED AGENT John Graham
ADDRESS 209 Second St. St. Maryw, WV
SURFACE OWNER Harry Scadden
ADDRESS St. Marys, WV 26170
MINERAL RIGHTS OWNER S.E. & Della Mc Knight
ADDRESS St. Marys, WV
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
ADDRESS Rt #3 Alma, WV 26320
PERMIT ISSUED August 20, 1981
DRILLING COMMENCED 8/26/81
DRILLING COMPLETED 8/29/81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1162	1162	350 sks
7			
5 1/2			
4 1/2	4944	4944	460 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Upper Devonian Shale Depth 4971' feet
Depth of completed well 4971' feet Rotary X / Cable Tools
Water strata depth: Fresh 105,140 feet; Salt feet
Coal seam depths: 1360, 1455 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Shale Elizabeth Pay zone depth 3800' feet
Gas: Initial open flow 120,000 Mcf/d Oil: Initial open flow 15 Bbl/d
Final open flow Testing Mcf/d Final open flow Testing Bbl/d
Time of open flow between initial and final tests Testing hours
Static rock pressure 500 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson, Riley Pay zone depth 460 4690' feet
Gas: Initial open flow 120,000 Comb Mcf/d Oil: Initial open flow 15 comb Bbl/d
Final open flow Testing Mcf/d Oil: Final open flow Testing Bbl/d
Time of open flow between initial and final tests Testing hours
Static rock pressure 500 comb psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

Pleasants - 1290

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

Perforated shale 4429-4906 18 shots
 Foam fractured with 60,000# sand with 250 BBLs Water 710000 SCF Nitro
 Set frac plug 4376
 Perf Shale 3593-4345 18 shots
 Foam frac with 60,000# sand with 250 BBLs Water 656,000 SCF Nitro

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale	Gray	Hard	0	1162	Fresh Water
Shell	Gray	Soft	1162	1226	
Sand	Gray	Soft	1226	1300	
Shale	DK Gray	Hard	1300	1368	Coal Seam
Sand	Gray	Med.	1368	1441	
Slate	Dark	Soft	1441	1492	Coal Seam
Sand	Gray	Med.	1492	1556	
Sand	Gray	Med.	1556	1658	Gas
Shell	Gray	Hard	1658	1728	
Sand	Light	Hard	1728	1930	
Shale	Gray	Hard	1930	1948	
Sand	Dark	Soft	1948	2015	Gas & Oil Big Injun
Shale	Gray	Hard	2015	2766	Gas
Sand	Gray	Med.	2766	2778	Gas Gordon
Shale	Gray	Hard	2778	4971	Devonian upper

(Attach separate sheets as necessary)

B K K Prospecting LTD
 Well Operator
 By: John Graham
 Date: November 12, 1981

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."

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
STATUS INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

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SEP 11 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 073-1290 County. Pleasants
Company. BKK Prospecting LTD Farm. Harry D. Scadden
Inspector. Robert Lowther Well No. McKnight #33
Date. August 30, 1984 Issued. 8-25-81

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent Waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at Wellsite	_____	_____
15.03	Adequate Fresh Water Casing	✓	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	✓	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	✓	_____
25.01	Necessary Equipment to prevent Waste	✓	_____
23.03	Reclaimed Drilling Site	✓	_____
23.04	Reclaimed Drilling Pits	✓	_____
23.05	No Surface or Underground Pollution	✓	_____
7.03	Identification Markings	✓	_____

COMMENTS: ~~_____~~
This well was drilled, site has been Re Claimed

I have inspected the above well and (Have/Have Not) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas-Department of Mines of the State of West Virginia.

SIGNED: R. A. Lowther
DATE: Sept 7, 1984



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

Barton B. Lay Jr.
 Director

Theodore M. Streit
 Administrator

March 15, 1985

BKK Prospecting LTD
 45 North Road
 Niles, Ohio 44446

In Re: PERMIT NO: 47-073-1290
 FARM Harry D. Scadden
 WELL NO: McKnight #33
 DISTRICT: Union
 COUNTY: Pleasants
 ISSUED: 8-25-81

Gentlemen;

The FINAL INSPECTION REPORT for the above captined well has been received in this office. Only the column checked below applies:

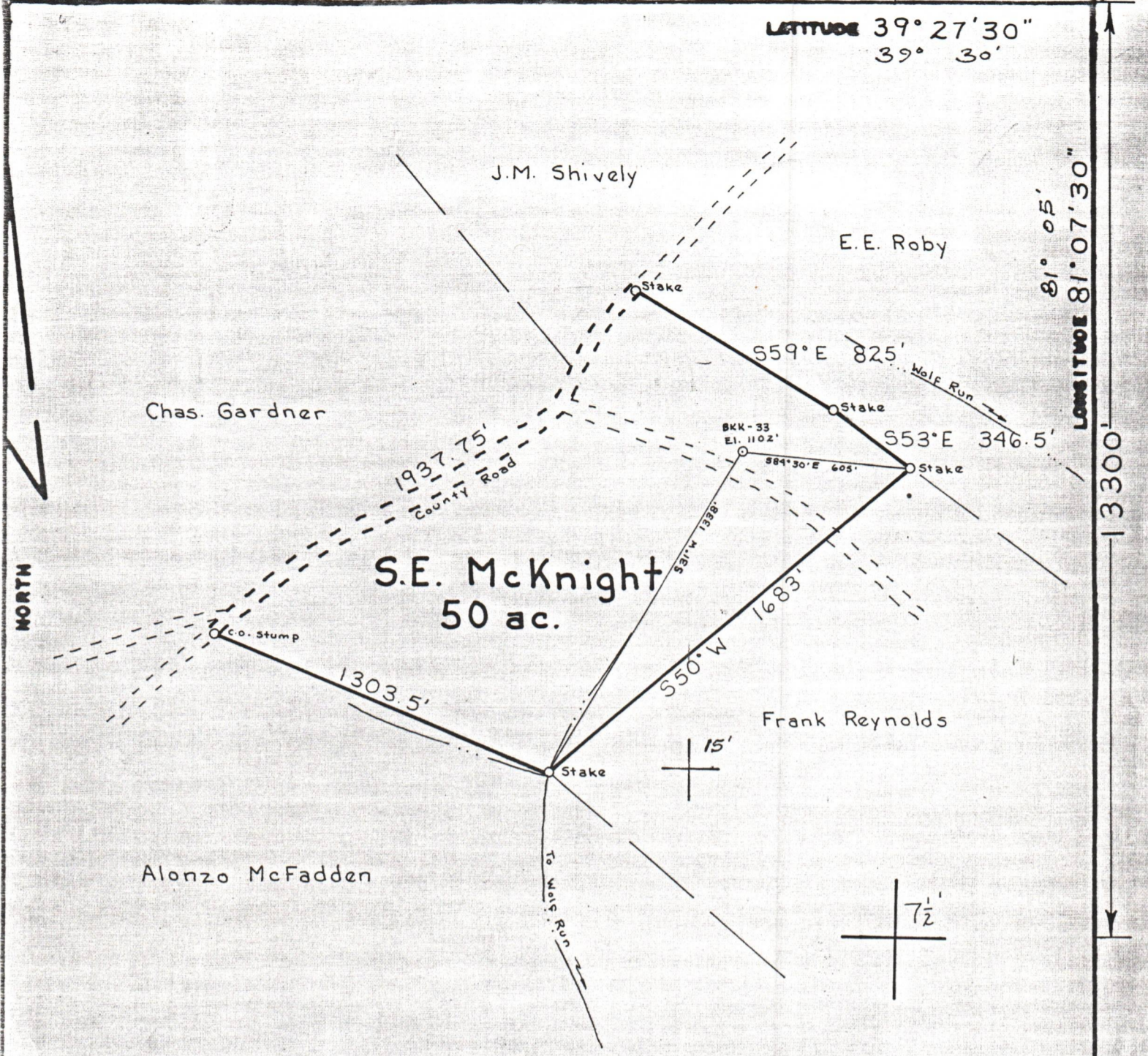
The well designated by the above permit number has been released under your Blanket Bond.

Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

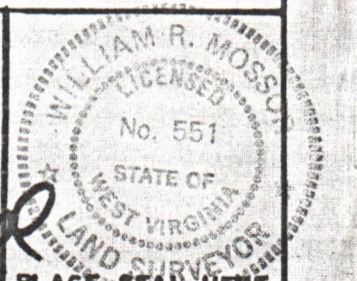
Very truly yours,

Theodore M. Streit, Administrator
 Office of Oil & Gas--Dept. Mines



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION High Point 1170'

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. Moss*
 R.P.E. _____ L.L.S. 551



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



DATE 27 July, 19 81
 OPERATOR'S WELL NO BKK-33
 API WELL NO. 47-073-1290
 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 1102' WATER SHED Wolf Run
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Raven Rock, W. Va. 7 1/2' Quad.
 SURFACE OWNER Harry David Scadden ACREAGE 50
 OIL & GAS ROYALTY OWNER S.E. + Della McKnight LEASE ACREAGE 50
 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) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Shale ESTIMATED DEPTH 5900'
 WELL OPERATOR BKK Prospecting DESIGNATED AGENT John Graham
 ADDRESS 45 North Road Niles, Ohio 44446 ADDRESS 209 Second St. St. Marys, W. Va. 26170