



Well No. B.K.K. 18
Farm Michael Ingram
API # 47 - 073- 1254
Date _____

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: 960' Watershed: French Creek
District: Washington County: Pleasants Quadrangle: Raven Rock, WV

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 Michael & Margaret Ingram
Address Route # 2
St. Marys, WV 26170
Acreage 71

COAL OPERATOR _____
Address _____

SURFACE OWNER Michael & Margaret Ingram
Address Rt. # 2
St. Marys, WV 26170
Acreage 71

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME _____
Address _____
NAME _____ JUL 16 1981
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip Tracy
Address Route # 3
Alma, WV 27320
Telephone 304-758-4573

RECEIVED
JUL 16 1981
OIL & GAS DIVISION
DEPT. OF MINES
RECEIVED
JUL - 8 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 X / other contract ___ / dated 6/1/ 81, to the undersigned well operator from Michael & Margaret Ingram.

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

Recorded on June 15, 1981, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 164 Book at page 322. 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

B.K.K. 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) _____

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	13-5/8			X			X	To surface	Kinds
Fresh water									
Coal									Sizes
Intermed.	8-5/8		20	X		1060'	250 1040	590 sks	
Production	4+1/2"		10.5	X		5900'	5900	or as regd	Depths set
Tubing								rule 15.01	
Liners									Perforations:
									Top Bottom

NOTE: Regulation 2.02 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 3-20-82

[Signature]
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: *[Signature]*

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.V. 26170
Telephone 216-652-5991 Telephone 684-7493
Landowner Michael + Margaret Soil Cons. District Upper Ohio
Revegetation to be carried out by Ingram Jim Renner (Agent)
This plan has been reviewed by Clayton Ohio SCD. All corrections
and additions become a part of this plan. 7/1/81 (Date) Deborah R. Dean (SCD Agent)

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

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
JUL - 8 1981.

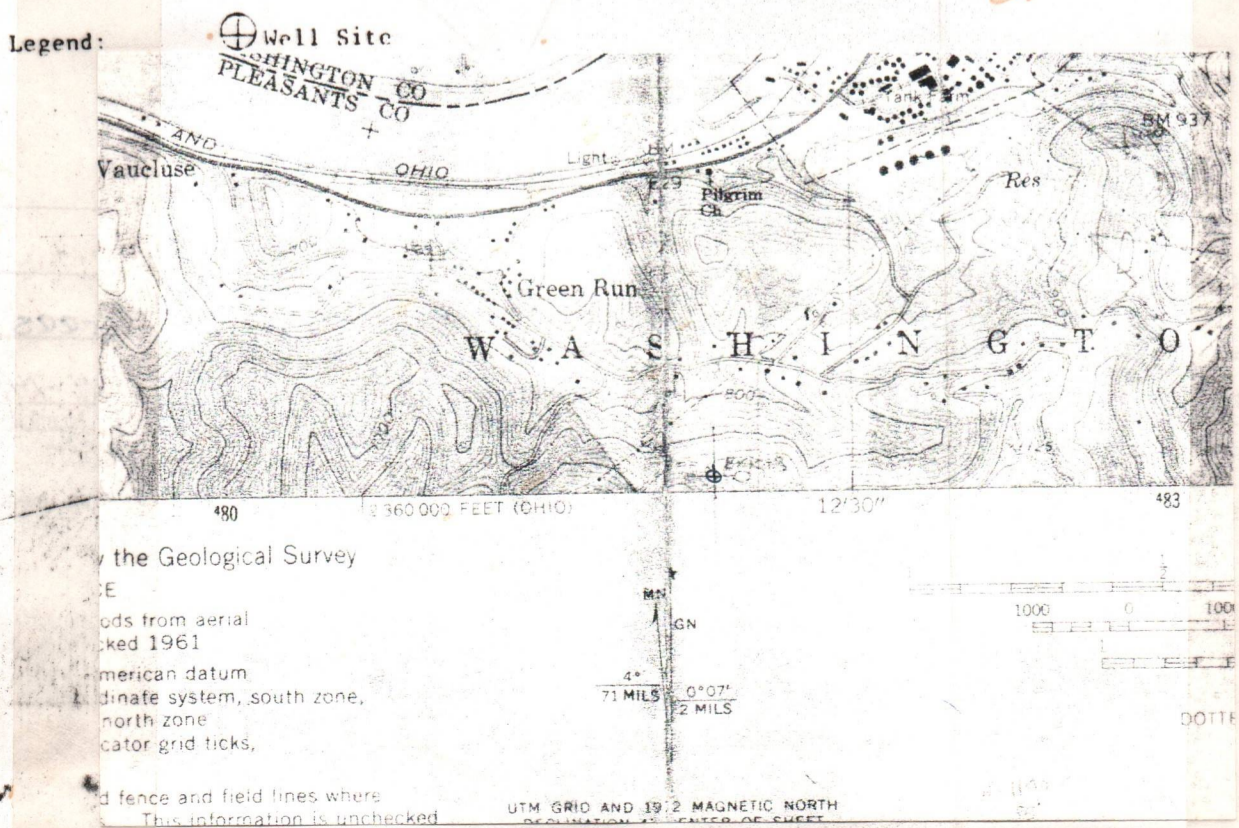
All structures should be inspected regularly and repaired if necessary.

OIL & GAS DIVISION
DEPT. OF MINES

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



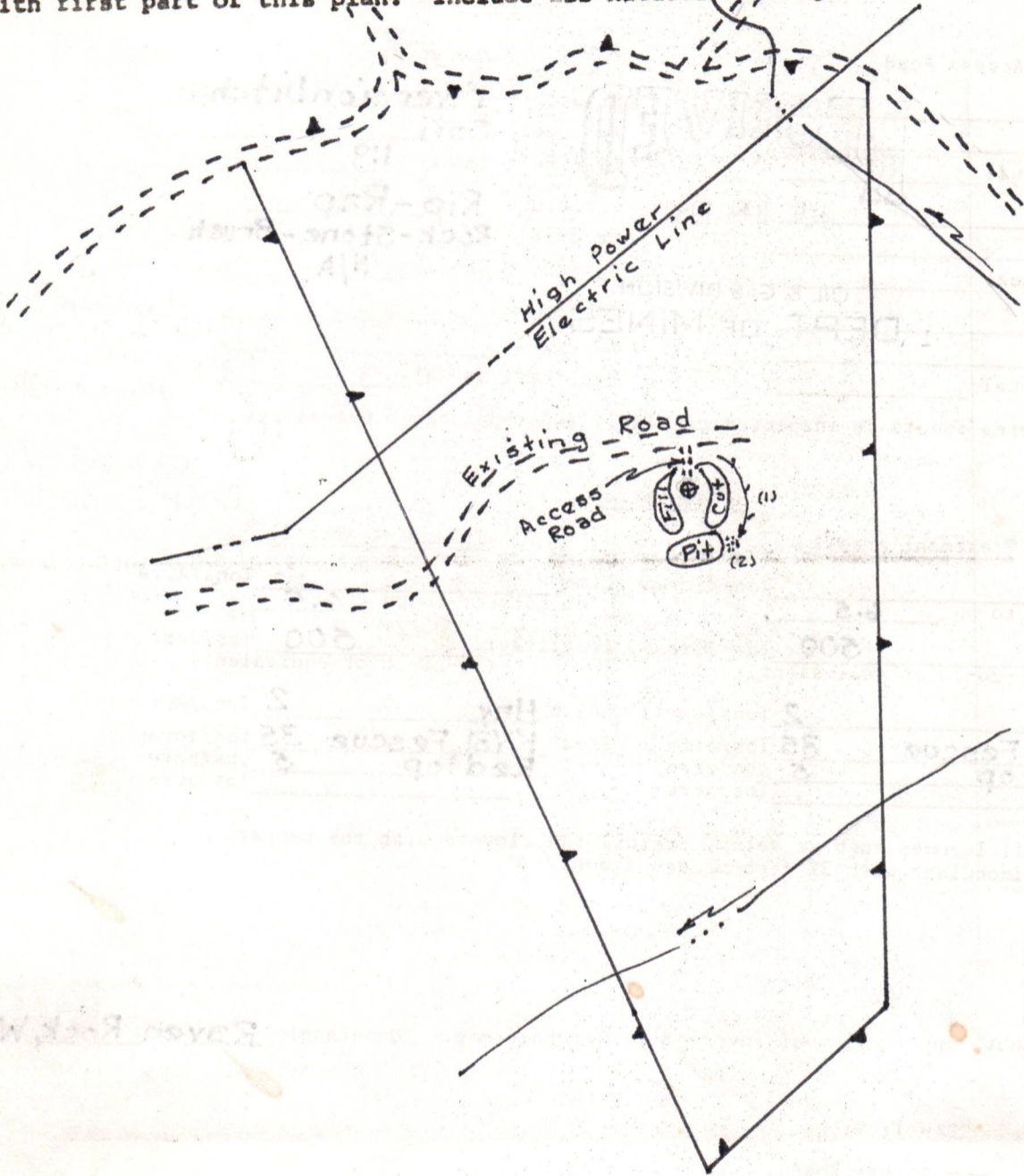
Well Site Plan

0-71 (10-10)

- 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 0%
 (2) Length of Access Road 75'
 (3) Location Located in Field - No Brush or Trees

Signature: John Mahan Agent 209 2nd St St Mary's Address 684-7493 Phone Number

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



Date 6-22-84
 Operator's Well No. BKK 18
 Farm Ingram
 API No. 47 - 073 - 1254

State of West Virginia
 Department of Mines
 Oil and Gas Division

RECEIVED
 FEB 22 1985

OIL & GAS DIVISION
 DEPT. OF MINES
 WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 960 GL Watershed
 District: Washington County Pleasants Quadrangle

COMPANY BKK Prospecting Ltd.
 ADDRESS 45 North Rd, Niles, Ohio 44446
 DESIGNATED AGENT JOHN GRAHAM
 ADDRESS 209 Second St. St. Marys, WV
 SURFACE OWNER MICHAEL & MARGARET INGRAM
 ADDRESS RT #2, St. Marys, WV 26170
 MINERAL RIGHTS OWNER MICHAEL & MARGARET INGRAM
 ADDRESS RT #2, St. Marys, WV 26170
 OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
 ADDRESS RT #3, Alma, WV
 PERMIT ISSUED 7-16-81
 DRILLING COMMENCED 10-4-81
 DRILLING COMPLETED 10-11-81

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	1000	1000	300 sks
7			
5 1/2			
4 1/2	4817	4817	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Ohio Shale Depth 4817 feet
 Depth of completed well 4822 feet Rotary X / Cable Tools
 Water strata depth: Fresh feet; Salt feet
 Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Ohio Shale Pay zone depth feet
 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 120 Mcf/d Final open flow 1 Bbl/d
 Time of open flow between initial and final tests 6 hours
 Static rock pressure 1000 psig (surface measurement) after hours shut in
 (If applicable due to multiple completion--)
 Second producing formation 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

(Continue on reverse side)

Pleas. - 1254

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

Perforated: 4299 - 4301 (2)
 4394 - 4400 (3)
 4440 - 4484 (8)
 4658 - 4660 (2)

Breakdown- 950 psi, Treating Rate- 30 B/M @ 1500 psi, Instant Shut in -
 775 psi, 66,000 gallons water treated 9/28/83

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale & Sand			surface	1020	
Sand			1020	1175	
Shale			1175	1225	
Sand			1225	1380	water
Sand			1380	1412	Maxon- gas
Shale			1412	1480	
Shale & Sand			1480	1600	water
Lime & Sdy Lime			1600	1650	Keener
Sand			1650	1810	?Big Injun - Water
Shale			1810	2144	
Sand			2194	2196	Berea - gas
Shale			2196	2450	
Sand			2450	2456	thirsty foot - gas
Shale			2456	2592	
Shaly Sand			2592	2634	Gordon - gas oil
Shale			2634	TD	Drilled TD - 4822 gas @ 3500' - 4450'

(Attach separate sheets as necessary)

BKK Prospecting Ltd.

Well Operator

By: 

Date: 9/28/83

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

RECEIVED

SEP 1 0 1984

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 073-1254

County. Pleasants

Company. BKK Prospecting LTD

Farm. Michael Ingram

Inspector. Robert Lowther

Well No. 18

Date. August 30, 1984

Issued. 7-20-81

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 not been Reclaimed

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 6, 1984



RECEIVED
MAR 12 1985
OIL & GAS DIVISION
DEPT. OF MINES

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 26, 1985

COMPANY BKK Prospecting, Ltd.
45 North Road
Niles, Ohio 44446

PERMIT NO 073-1254
FARM & WELL NO Michael Ingram #18
DIST. & COUNTY Washington/Pleasants

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 Strenght	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

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

SIGNED R.A. Lowther

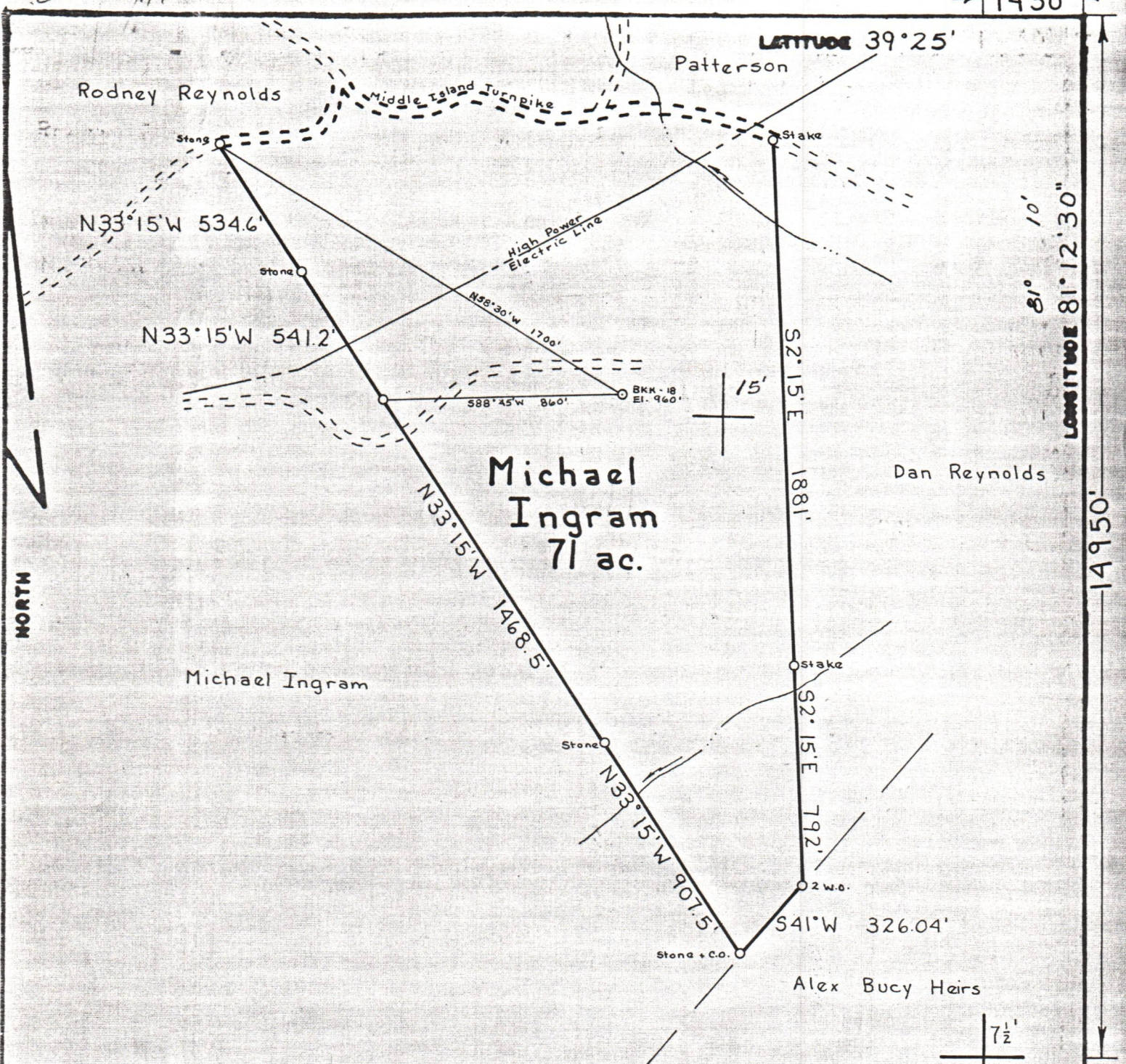
DATE Mar 4, 1985

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.L. ...

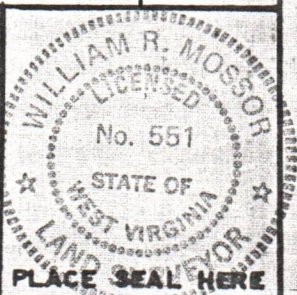
Administrator-Oil & Gas Division

March 15, 1985
DATE



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION 620' BM at RR. Bridge

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 16 June, 19 81
 OPERATOR'S WELL NO BKK-18
 API WELL NO. 47-073-1254
 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 960' WATER SHED French Creek
 DISTRICT Washington COUNTY Pleasants
 QUADRANGLE Raven Rock, W.V. 7 1/2' Quad.
 SURFACE OWNER Michael + Margaret Ingram ACREAGE 71
 OIL & GAS ROYALTY OWNER Michael + Margaret Ingram LEASE ACREAGE 71
 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 John Graham
 ADDRESS 24 North Road Niles, Ohio 44446 ADDRESS 209 Second St. St. Marys, W. Va. 26170