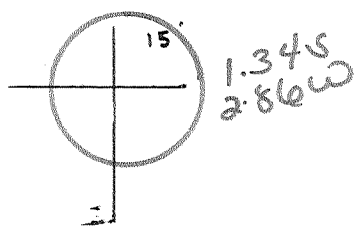
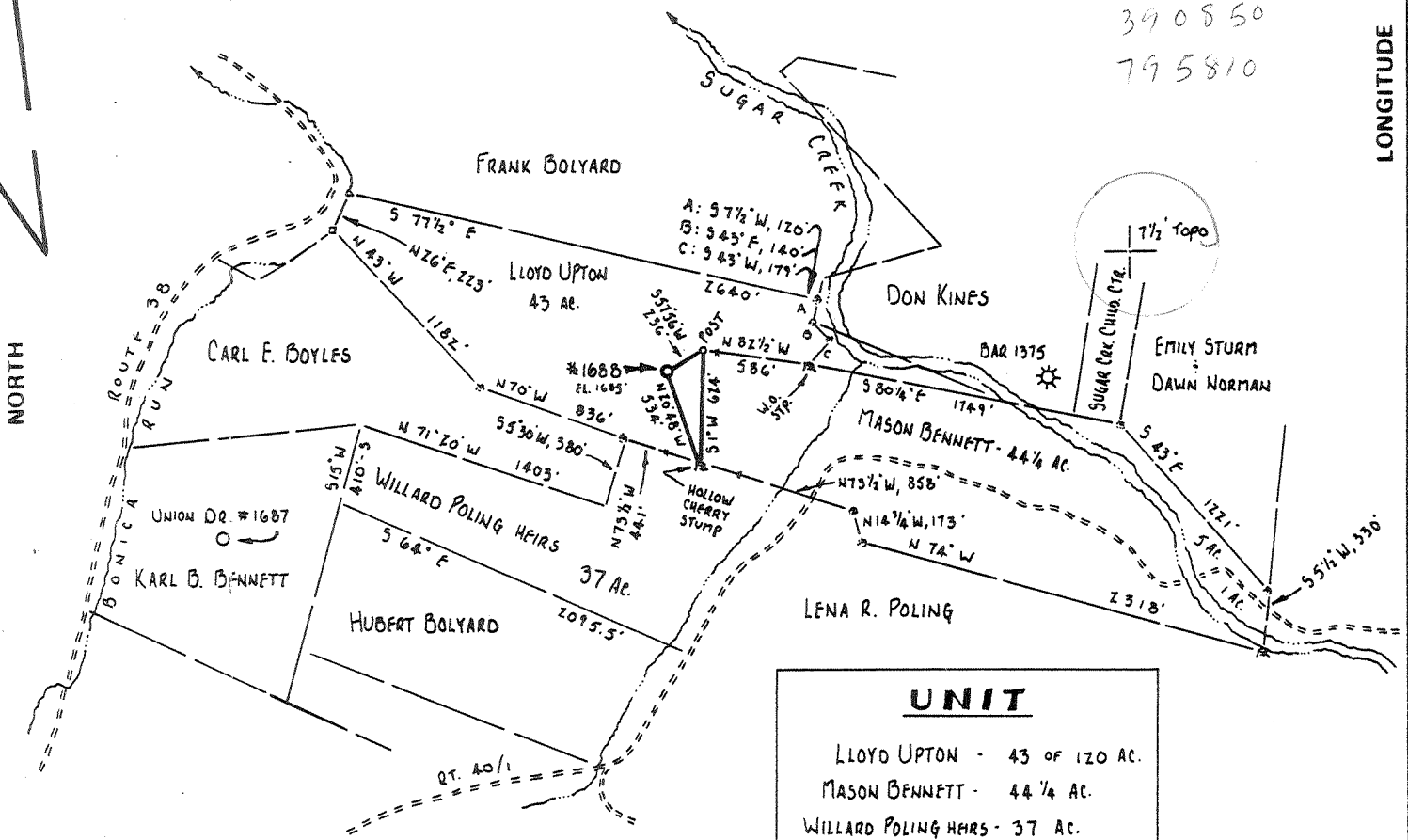


NOTES:

BENNETT 44 1/4 AC. IS RESIDUE OF 59 1/2 ACRES DESCRIBED.
BOLYARD 5 AC. & WILLIS 1 AC. ARE ALSO WITHIN 59 1/2 AC.
FRANK BOLYARD IS SURFACE OWNER OF UPTON 43 AC.;
ROY MOUSER IS SURFACE OWNER OF BOLYARD 5 AC.



390850
795810



UNIT	
LLOYD UPTON	- 43 of 120 AC.
MASON BENNETT	- 44 1/4 AC.
WILLARD POLING HEIRS	- 37 AC.
HUBERT K. BOLYARD, JR.	- 5 of 40 AC.
JOHN G. WILLIS	- 1 ACRE.

CONS. GAS B-1737

FILE NO. WUDI 1-48
 DRAWING NO. 8-21 VAR 4-50
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD JUNCTION 1500' ± EAST OF LOCATION. ELEVATION 1618'

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) Richard M. Howard
 R.P.E. _____ L.L.S. 706

PLACE SEAL HERE

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



DATE APRIL 13 1987
 OPERATOR'S WELL NO. 1688
 API WELL NO. _____
47 - 001 - 1775
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1685' WATERSHED SUGAR CREEK
 DISTRICT GLADE COUNTY BARBOUR
 QUADRANGLE NESTORVILLE 7 1/2' Belington 15' WC
 SURFACE OWNER FRANK BOLYARD ACREAGE 43 of 114.4
 OIL & GAS ROYALTY OWNER LLOYD UPTON LEASE ACREAGE 43 of 120
 LEASE NO. 74661
 PROPOSED WORK: DRILL X 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 HAVERTY ESTIMATED DEPTH 5400'
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC.
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

JUN 2 1982

RECEIVED



IV-35 (Rev 8-81)

JAN 24 1983

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date August 12, 1982 Operator's Well No. 1-1688 Farm Lloyd Upton (unit) #1 (1 API No. 47-001-1775

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 x /)

LOCATION: Elevation: 1685' Watershed Sugar Creek District: Glade County Barbour Quadrangle Nestorville

COMPANY Union Drilling Inc. ADDRESS P O Drawer 40, Buckhannon WV 26201 DESIGNATED AGENT Union Drilling Inc. ADDRESS P O Drawer 40, Buckhannon WV 26201 SURFACE OWNER Frank Bolyard ADDRESS Elk St., Philippi WV 26416 MINERAL RIGHTS OWNER See supplemental sheet ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart ADDRESS P O Box 345, Jane Lew WV 26378 PERMIT ISSUED 4/22/82 DRILLING COMMENCED 6/9/82 DRILLING COMPLETED 6/15/82 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Haverty Depth 5400' feet Depth of completed well 5529' feet Rotary x / Cable Tools Water strata depth: Fresh 80', 90' feet; Salt feet Coal seam depths: 111', 424', 635' Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Riley Pay zone depth 3588' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 311 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1700# psig (surface measurement) after 16 days hours shut in (If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 3947' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 311 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1700# psig (surface measurement) after 16 days hours shut in

JAN 31 1983

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

Newsco Water Fractured 6/23/82

3584/88 Riley 40,000 lbs. sand 395 Bbls. Water

3943/47 Benson 40,000 lbs. sand 385 Bbls. Water

4454/58, 4560/62 1st Elk 40,000 lbs. sand 397 Bbls. Water

4812/15 2nd Elk
5191/93 3rd Elk } 40,000 lbs. sand 397 Bbls. Water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	4'	
Sand & Shale			4'	90'	1/4" stream water @ 80'
Open Hole			90'	94'	3" stream water @ 90'
Sand & Shale			94'	111'	
Coal			111'	118'	Coal @ 111'
Sand & Shale			118'	424'	
Coal			424'	427'	Coal @ 424'
Sand & Shale			427'	635'	
Coal			635'	639'	Coal @ 635'
Sand & Shale			639'	1077'	
Big Lime			1077'	1157'	
Big Injun			1157'	1302'	
Sand & Shale			1302'	1403'	
Weir			1403'	1485'	
Sand & Shale			1485'	1989'	
5th Sand			1989'	2069'	
Sand & Shale			2069'	2129'	
Bayard			2129'	2178'	
Sand & Shale			2178'	2355'	
Warren			2355'	2412'	
Sand & Shale			2412'	2774'	
Balltown			2774'	2797'	
Sand & Shale			2797'	3579'	
Riley			3579'	3602'	
Sand & Shale			3602'	3930'	
Benson			3930'	3949'	
Sand & Shale			3940'	4449'	
1st Elk			4449'	4563'	
Sand & Shale			4563'	4806'	
2nd Elk			4806'	4841'	
Sand & Shale			4841'	5158'	
3rd Elk			5158'	5202'	
Sand & Shale			5202'	5358'	
4th Elk			5358'	5385'	
Sand & Shale			5385'	5529' TD	Show

(Attach separate sheets as necessary)

Union Drilling Inc.

Well Operator

By:

Joseph C. Petrey, Vice President of Production

Date:

August 12, 1982

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."

SUPPLEMENT TO WELL OPERATOR'S REPORT

Date August 12, 1982

Operator's

Well No. 1-1688

Farm Lloyd Upton (unit) #1 (1688)

API NO. 47-001-1775

Third producing formation 1st Elk Pay zone depth 4562'

Gas: Initial open flow show Mcf/d Oil: Initial open flow ----- Bbl/d

Final open flow 311 Mcf/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1700# psig(surface measurement) after 16 days ~~XXXXX~~ shut in

Fourth producing formation 2nd & 3rd Elk Pay zone depth 5193'

Gas: Initial open flow show Mcf/d Oil: Initial open flow ----- Bbl/d

Final open flow 312 Mcf/d Final open flow ----- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1700# psig(surface measurement) after 16 days ~~XXXXX~~ shut in

Fifth producing formation _____ Pay zone depth _____

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 measurement) after _____ hours shut in

Sixth producing formation _____ Pay zone depth _____

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 measurement) after _____ hours shut in

Mineral Rights Owners:

Lloyd Junior Upton, et. al.
RD #2
Philippi, WV 26416

Mason H. & Eleanor Bennett
RD #2
Philippi, WV 26416

Willard & Lena Poling
Route #2, Box 128
Philippi, WV 26416

Hubert & Elaine Bolyard
Route #2
Philippi, WV 26416

John G. & Datha Mae Willis
Route #2
Philippi, WV 26416

JAN 31 1983



IV-35
(Rev 8-81)

Date August 12, 1982
Operator's
Well No. 1-1688
Farm Lloyd Upton (unit) #1 (168
API No. 47 - 001 - 1775

State of West Virginia
Department of Mines
Oil and Gas Division

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 x /)

LOCATION: Elevation: 1685' Watershed Sugar Creek
District: Glade County Barbour Quadrangle Nestorville

COMPANY Union Drilling Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
DESIGNATED AGENT Union Drilling Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
SURFACE OWNER Frank Bolyard
ADDRESS Elk St., Philippi WV 26416
MINERAL RIGHTS OWNER See supplemental sheet
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
ADDRESS P O Box 345, Jane Lew WV 26378
PERMIT ISSUED 4/22/82
DRILLING COMMENCED 6/9/82
DRILLING COMPLETED 6/15/82

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"	Pulled		
9 5/8			
8 5/8	935.84'	935.84'	387
7			
5 1/2			
4 1/2	5291.25'	5291.25'	1148
3			
2			
Liners used			

RECEIVED

SEP 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
5400'

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

GEOLOGICAL TARGET FORMATION Haverty Depth 5400' feet
Depth of completed well 5529' feet Rotary x / Cable Tools _____
Water strata depth: Fresh 80', 90' feet; Salt _____ feet
Coal seam depths: 111', 424', 635' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Riley Pay zone depth 3588' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 311 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1700# psig (surface measurement) after 16 days ~~hours~~ shut in
(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 3947' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 311 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1700# psig (surface measurement) after 16 days ~~hours~~ shut in

(Continue on reverse side)

SEP 04 1982

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

Newsco Water Fractured 6/23/82

3584/88 Riley 40,000 lbs. sand 395 Bbls. Water

3943/47 Benson 40,000 lbs. sand 385 Bbls. Water

4454/58, 4560/62 1st Elk 40,000 lbs. sand 397 Bbls. Water

4812/15 2nd Elk
5191/93 3rd Elk > 40,000 lbs. sand 397 Bbls. Water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	4'	
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Big Injun			1157'	1302'	
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Sand & Shale			1485'	1989'	
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3rd Elk			5158'	5202'	
Sand & Shale			5202'	5358'	
4th Elk			5358'	5385'	
Sand & Shale			5385'	5529' TD	Show

(Attach separate sheets as necessary)

Union Drilling Inc.

Well Operator

By: Joseph C. Petley
Joseph C. Petley, Vice President of Production

Date: August 12, 1982

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 ..., encountered in the drilling of a well."

Date: April 21, 19 82

Operator's Well No. 1 - 1688

API Well No. 47 - 001 - 1775

State County Permit

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

Lloyd Upton (Unit) #1 (1688)

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 1685' Watershed: Sugar Creek District: Glade County: Barbour Quadrangle: Nestorville

WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC. Address P. O. Drawer 40 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER SEE ATTACHED SHEET COAL OPERATOR Address

SURFACE OWNER Frank Bolyard Address Elk Street Philippi, WV 26416 Acreage 43 of 114.4

FIELD SALE (IF MADE) TO: Address Not Determined at this time

OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Stewart Address P. O. Box 345 Jane Lew, WV 26378

RECEIVED APR 22 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

Consolidated Unit

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 , 19 , to the undersigned well operator from

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

Recorded on , 19 , in the office of the Clerk of the County Commission of Barbour County, West Va. in Book at page . A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate X / 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

UNION DRILLING, INC. Well Operator By Joseph C. Pettey, Vice President of Production

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Haverty

Estimated depth of completed well, 5400 feet Rotary x / Cable tools _____ /

Approximate water strata depths: Fresh, ? feet; salt, ? feet.

Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No x /

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	Left in well			
Conductor	11 3/4"			x		20'	20'		Kinds	
Fresh Water										
Coal									Sizes	
Intermediate	8 5/8"		20#	x		800'	800'	to surface		
Production	4 1/2"		10 1/2#	x			5400'	400 sks. or as req. by rule 15.01	Depths set	
Tubing										
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,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 1-20-83.
BY [Signature]

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.

WAIVER

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 _____