



Date:_	July	25	, 19_8
Dutt.	Town In the second		,

2) Operator's Well No. 2053

Well No. 2033 3) API Well No. 47 - 083 - 0945

State County Permit

OIL & GAS DIVISION

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

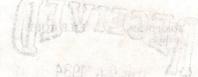
DEPT.	OF IVI			AP	PLICAT	TION FOR A WE	LL WORK PERMIT			
4) WELL T	YPE: A O	inwa	20/ G	as XX	LOV	ONS OF ANY	AND CONDITIO	DELLICATIONS	PERMIT	7
								/ Deep		(
5) LOCATI	ON: Ele	vation:	2437			_ Watershed:	Hooker Run	MTB31	G3	
			idd1e	Fork	5	_ County:	Rando1ph	Quadrangle:	Pickens	545
6) WELL O	PERATOR_	Union	Drill	ing,	Inc.	50550	7) DESIGNATED	AGENT Joseph	C. Vanzant	t, Jr.
Addre			ice Dr				Address	Post Office	Drawer 40	
	Buc	khann	on, WV	26	201			Buckhannon, J	W 26201	
8) OIL & G			AND DESCRIPTION OF THE PERSON				9) DRILLING CO	ONTRACTOR:		
	Phillip						Name Un	ion Drilling,	Inc.	6. 14 g 14.
Addre	ss Fore	est Fe	stival	Terr	ace #	24	Address	Post Office		
			WV 2					Buckhannon,		
10) PROPOS					/ Drill	deener	/ Redrill	/ Stimulate		
10) PROPOS	SED WELL	WORK:					orate new formation			
							orate new formation.			
11) GEOLOG		CET FOR								
						fee				
12) Estir	nated depth o	of complet	led well,	40	2			feet.		
						Maria Carlos Carlos			/ No 3	, , , , , , , , , , , , , , , , , , ,
	roximate coal				-	IS C	coal being mined in the	e area? Yes	/ No	(X
15) CASING	AND TUBI								lı .	
CASING OR TUBING TYPE		SPEC	CIFICATION Weight	S		FOOTAGI	E INTERVALS	OR SACKS	PACKER	S
TOBING TITE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	11-3/4		32	X		30'	30'		Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8-5/8		23	X		1000'	1000'	to surface	by rul	e 15.0
Production	4-1/2	J	101/2	X		4000'	4000'	as required		
Tubing						VATIOU HEU!	S. S. OFFICE	by rul	15.01	
Liners								/	Perforations:	
		2 marrus	ezm nu	mode i	Tire is	in egopotianoso	rigines to setals.	In hymner of all id	Тор	Bottom
	all rold				BEAT IN		sin()			
						OFFICE USE	ONLY			
	99					DRILLING P			24.2	A. A
	. 7	000	00/5					A a a .		10 0%
Permit number	r4/	-083-	0945		38.0			August		19 84
									e limb on pito, a	
This permit co	overing the w	ell operat	or and we	ll locatio	on shown	below is evidenc	e of permission grant	ed to drill in accordan	ce with the pertin	nent legal re-
quirements sul	bject to the co	onditions	contained	herein a	nd on the	e reverse hereof.	otification must be g	iven to the District Oil ell operator or his con	tractor shall notif	y the proper
district oil and	gas inspecto	or 24 hour	s before a	ctual pe	rmitted w	ork has commen	ced.)	en operator or ms con	D391.32-1.13	y the proper
								o any modifications a	nd conditions spe	cified on the
reverse hereof		escribed ii	n the Noti	ce and A	ррпсано	n, piat, and recia	mation plan, subject	o any mounications a	na conditions spe	ciffed on the
Permit expires	A 11	igust	17, 19	86		unless w	ell work is commenced	prior to that date and	prosecuted with d	ue diligence.
I crimit expires	1	1000				No. of the State o			JUNET THE WALL	AL BUILDIN
· N				Service States						ALEKS LINES
Bond:	Agen	it:	Plat:	Casin	g	Fee	1		1 - 100	
	V	1	nh	mi) -	2 020/	m		1 / 10	
		1/	1/2	111		20296	1/10-	garet)	X lans	
						_		/	oil and Cas	<u> </u>
							Adyn	inistrator, Office of C	ni anu Gas	

NOTE: Keep one copy of this permit posted at the drilling location.

FORM	IV-2(B)
D	

FILE COPY





DIL & GAS DIVISION

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

	/ Shallow XX	Deep	Anno storage			", Production	B (M//Gas	
	673	MTB 31	the Hooker Rule	Watership			Elevation	MOLTADOJ (
		Owner nowle			77.		Districts	
		LAGENT JOSEPA	7) DESIGNATED				ATOR JULE	6) WELLOPE
			Addiess					Address
					20402			
	Inc.	- builting po	Name Libb		GER	NTOM 38 O	inspector i Llid Turk	Name The
	OALBoutstil	Past Office	Kadhes		Terresce	levise.		Address
-		- Bir qidhaaanon ş.					Edition	
		Stilmulate					WELL WORK	O) PROPOSED
			erforate new formation.					
			(
								D GEOLOGIC
			foot					
		1001	sah,??					(13) Approxi
	The state of the s	20 1 8715	Is coal being mined in the					14) Approxì
		A COMENTARIA DE	AGE İVELEVALS	recor				S) CASING AN
		ORSACKS				PECHTONYONS		CASSIGNER TUBING TAPE
		(PakajesG)	10 st m 350 5		had June	में 19व	Sine Gra	
								ASIL V first
150	by rule	costate of				TE 1		160
	1 Depth as all	Les reculires					T. TYTEL	nteamediate contraction
	e Kell	Ly rul	OFFICE U	SE ONLY				i and a
	Perforations :	3 3 1 1 3						Sa Sharu.
This par	rt of Form IV-20	(b) is to record the	e dates of certain occ	currences an	d any follow	-up inspect	ions.	
			Date				Dat	e(s)
						-	Dat	.c(3)
Applica	tion received		W110 73	Follow-up	inspection(s))		
XV-11	-11		1 PERMIT	DIG,,LINC	,,			
well wo	ork started							
Comple	tion of the drilling							redmon rimes
Comple			ence of permission grant	,,	,,			
process		yen in the District this						
process	and Gos Inspector. (sen in the District City oil operator or the com	work in addition, the w	helling, q rus	101 2010 3,18 200			e Ar iffor to Inc. estruct oil and goa
process Well Re	cord received		work in addition, the w	any permitted work has come	of slig 4,4 and both permitted	e <mark>minis, kaceti</mark> Guis Batora a	onstruction of prepartor 24 b	a. As Prior to Inc. strict oil and gas be permitted wor
Well Re	cord received		work. In addition, the winced.) ecksmation plan, subject t	heiter,, a van amoo sad alow or blue,, id no	of slig 4,4 and both permitted	e <mark>minis, kaceti</mark> Guis Batora a	onstruction of prepartor 24 b	 a. As Prior to The estrict oil and gus be permitted wor everse hereof.
Well Re	cord received	ell operator og tils com oseny modifications ar prior to that date, and	wers, in addition, the warranced.)	heiter,, a van amoo sed klow or blue,, id no	of slig 4,4 and both permitted	e <mark>minis, kaceti</mark> Guis Batora a	onstruction of prepartor 24 b	a. As Prior to Inc. strict oil and gas be permitted wor
Well Re	cord received	ell operator og tils com oseny modifications ar prior to that date, and	work. In addition, the winced.) ecksmation plan, subject t	on pie, illed to one on pie, and re	ons meet germitted grand, specially and, specially and, specially and, specially and specially approximately approximately approximately approximately and specially approximately appro	enuts, Depti ours Before as dun the Morie	unspector 24 h	 a. As Prior to The estrict oil and gus be permitted wor everse hereof.
Well Re Reclama	cord received ation completed	ell operator og tils com oseny modifications ar prior to that date, and	work. In addition, the winced.) ecksmation plan, subject t	heiter,, a van amoo sed klow or blue,, id no	of slig 4,4 and both permitted	e <mark>minis, kaceti</mark> Guis Batora a	onstruction of prepartor 24 b	 a. As Prior to The estrict oil and gus be permitted wor everse hereof.
Well Re Reclama	cord received	ell operator og tils com oseny modifications ar prior to that date, and	work. In addition, the winced.) ecksmation plan, subject t	on pie, illed to one on pie, and re	ons meet germitted grand, specially and, specially and, specially and, specially and specially approximately approximately approximately approximately and specially approximately appro	enuts, Depti ours Before as dun the Morie	unspector 24 h	o. 83 Pilos re ine istrict oil and gas be permitted wor everse hereof. ermices, ires

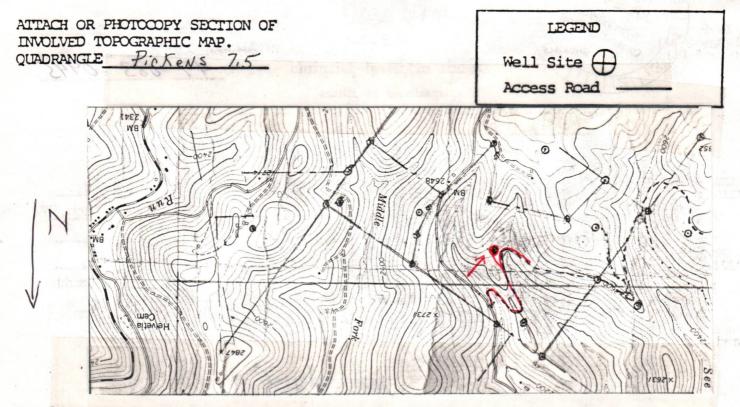
See the reverse side of the APPER APPER OF TO instructions to the well operator,



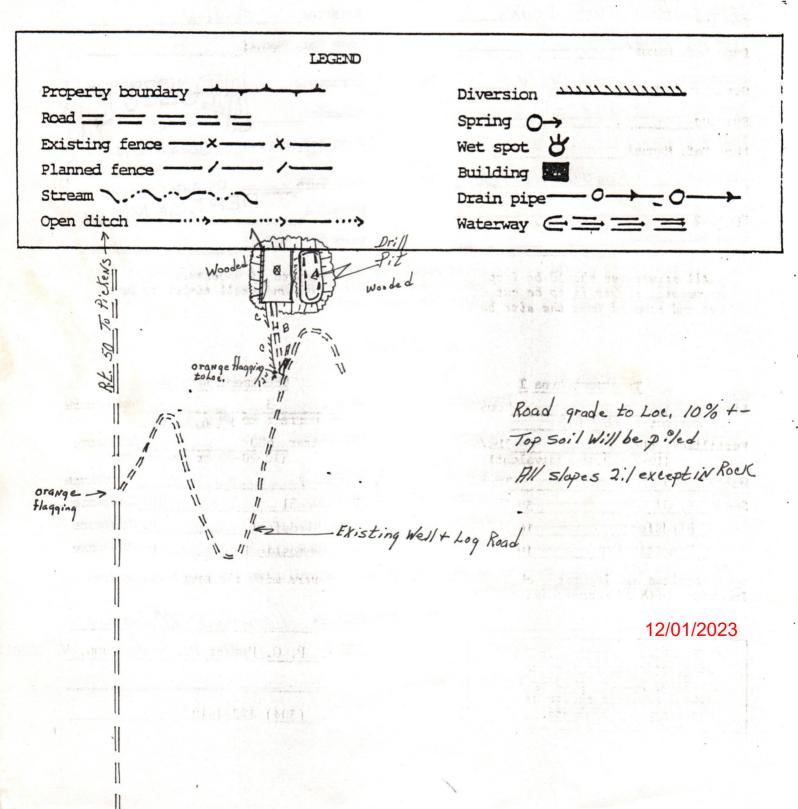


State of Mest Nirginia Bepartment of Mines Gil and Gas Bivision

CONSTRUCTION	AND RECLAMATION PLAN
COMPANY NAME Union Drilling, Inc.	DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon,	
Telephone 472-4610	Telephone 472-4610
LANDOWNER Mildred Jones	SOIL CONS. DISTRICT Tygart Valley
Revegetation to be carried out by	Union Drilling, Inc. (Agent)
This plan has been reviewed by To	garts Valley SOD. All corrections
and additions become a part of this plan:	
	(Date)
	(SCD Agent)
a series and a series are a series and a ser	v – v
ACCESS ROAD	LOCATION . SOLUTION .
tructure Culvert Pipe (12"MiN.)	(A) Structure Diversion (1)
pacing At Natural Drains	Material Earthen
age Ref. Manual	Page Ref. Manual
	Table 1
tructure Cross Drains	B) Structure DECERRO
pacing 250' + -	Material Material
age Ref. Manual	Page Ref. Manual JUL 2 6 1984
	rage Ref. Marital JUL 2.6. 1984
tructure Roadway Ditch 1	C) Structure Oll & Case (3)
pacing	Material DEPT. OF MIN.
age Ref. Manual	
	Page Ref. Manual
commercial timber is to be cut and star	egularly and repaired if necessary. All cked and all brush and small timber to be
cut and removed from the site before d	irt work begins.
REVI	DEFIATION
Treatment Area I	Treatment Area II
ime3Tons/acre	Lime 3 Tons/acre
or correct to pH 6.5 ertilizer 600 lbs/acre	or correct to pH_6.5
ertilizer 600 lbs/acre (10-20-20 or equivalent)	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
ilch 2 Tons/acre	Mulch 2 Tons/acre
eed* Ky-31 30 lbs/acre	Seed* Ky-31 30 lbs/acre
Birdsfoot 10 lbs/acre	Birdsfoot 10 lbs/acre
Domestic Rye 10 lbs/acre	Domestic Rye 10 lbs/acre
*Inoculate all legumes such as vetch, t	trefoil and clovers with the proper bacterium.
noculate with 3% recommended amount.	1
	THE PREPARED BY Wanney O' Margarando
NOTES: Please restrict lendsument	12/01/2023
MOTES: Please request landouneme' ecoperation to protect new	ADDRESS P. O. Drawer 40, Buckhannon, WV 2
NOTES: Please restate Tandounent	12/01/2023



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



FORM IV-2(A) Obverse [8-83]

1) Date: July 25 ,1984

2) Operator's Well No.

2053

3) API Well No. 47 - 083 - 0945
State County Permit

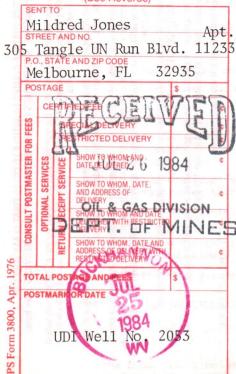
STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

		NOTICE OF APPLICATION	FOR A WELL	WORK PERMIT	
4) SU	RFACE OWN	TER(S) OF RECORD TO BE SERVED		COAL OPERATOR	
			J(1)	Address	
(1)	Address	dred Jones 305 Tangle UN Run Blvd. Apt.	11277		
		felbourne, FL 32935	5(ii)	COAL OWNER(S) WITH	DECLARATION ON RECO
(ii)	Name			Name Mildred Jones	
	Address				e UN Run Blvd. Apt.
	_			Melbourne, FL 32	935 1123
(111)	Name			Name	
	Address_			Address	
	_		5(iii)	COAL LESSEE WITH DEX	TADATION ON DECORE
				Name	CLARATION ON RECORD:
				Address	
		TO THE PERSON(S) NAMED ABOVE: You should	d have received th	is Form and the fellowing	
		(1) The Application for a Well Work	Permit on Form TV	2(0) /	
		to be plugged, which sets out the and describes the well and its comenting programs			
					and
		(2) The plat (surveyor's map) showin (3) The Construction and Reclamation plug a well) which sets cut the	I Plan on Form TV-	1 \ 1 = 1 = = + 1 = - 1 = - 1 =	' to
		plug a well), which sets out the reclamation for the site and acc		and sediment control and for	
		THE REASON YOU RECEIVED THESE DOCUME	AFRC TC MEDIC HOST IN	AVE RIGHTS RECARDING THE APPLIC	ATTON
		(FORM IV-2(B) OR FORM 4, DESIGNATED FOR V	OU. HOWEVER YOU	DE OF THE COPY OF THE APPLICA	TION
		Take notice that under Chapter 22 of erator proposes to file or has filed this for a Well Work Permit with the Administr Department of Mines, with respect to a we and depicted on attached Form IV-6. Copi	ator of the Office	of Oil and Gas, West Virginia	ts
		and depicted on attached Form IV-6. Copi Construction and Reclamation Plan have be by hand to the person(s) named above (or before the day of mailing or delivery to	en mailed by regis	tered or certified mail or del	CEIVE
		6) EXTRACTION RIGHTS		<u>C</u>	1111 0
		Check and provide one of the following	e one constitution		JUL 26 1984
		Included is the lease or leases or of I hold the right to extract oil	other continuing or	ontract or contracts by which	
		Included is the lease or leases or of I hold the right to extract oil of the requirement of Code 22-4-1-(c) (1) ROYALTY PROVISIONS Is the right to extract, produce or man or other contract or recovery.	l) through (4). (Se	ee reverse side for specifics	OIL & GAS DIVISION
		7) ROYALTY PROVISIONS		В	EPT. OF MINIC
		for compensation to the owner of the ail	a rot ride well lo	yarty of any similar provision	
		,	a, produced of mar	keted? Yes No XX	
		If the answer above is No, noth you may use Affidavit Form IV-60.	ing additional is	needed. If the answer is Yes,	
		See the reverse side for line item the required copies of the Notice Reclamation Plan.	instructions, and and Application, p	for instructions concerning	
The t	truth of	the information on the			
Notic	ce and Apr	plication is verified	WELL	OD Inion Duilling	Tmo
and s	sworn to	and the Notice is	OPERA	OR Union Drilling,	inc.
signe	ed on beha	alf of the Well Operator	Ву	Variable La	X
In m	y County a	and State by	Its	Vice President o	f Production
	oseph C. I		Addi	cess Post Office Draw	
-	25 day of	July , 19 84.		Buckhannon, WV	26201 : novec
A-1)	y cominss.	ion expires 13-19, 1991.	Tele	ephone 304-472-4610	
-	amu	A. Billy TI			
	otary Publ				12/01/2023
30	tate of _	West Virginia			

P33 8926193

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)



RUCTIONS TO APPLICANT

number.

the Office of Oil & Gas.

f necessary.

record to be served with Notice and Application. However, I-lb(b) if "more than three tenants in common or other it described in subsection (a) of this section hold interests

is any person, firm, partnership, partnership association or oposes to or does operate a coal mine.

:). However, in lieu of filing the lease(s) or other conthe Applicant may fill out the information in the space

(d, e).

S FOR FILING AND SERVICE:

nd Regulation 7.02 provide that the original and required Application must be filed with the Administrator, accomble form prescribed by Regulation 11, (ii) a bond in one of egulation 12, or in lieu thereof the other security allowed the reclamation required by Code § 22-4-12b and Regulation

the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that-

- the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantee, lessee, etc.	Royalty	Book Page
ickeye Petroleum Co.	1/8	327/101
exroad Land Services		7/79
nion Drilling, Inc.		7/74
nion Drilling, Inc.		345/607
	Grantee, lessee, etc. uckeye Petroleum Co. exroad Land Services nion Drilling, Inc. nion Drilling, Inc.	uckeye Petroleum Co. 1/8 exroad Land Services nion Drilling, Inc.

IV-35 (Rev 8-81)



State of Mest Airginia

Department of Mines Wil und Was Division

Date	September 26, 1984						
Operator's							
Well 1	No. 3 - 2053						
Farm	Mildred Jones #3						
APT N	o. 47 - 083 - 0945						

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 2437' Waters	ned Hooker Run
District: Middle Fork County	Randolph Quadrangle Pickens
COMPANY Union Drilling, Inc.	
ADDRESS P.O. Drawer 40, Buckhannon, WV	26201 Casing Used in Left Cement
DESIGNATED AGENT Joseph C. Vanzant, Jr.	illi up
ADDRESS P.O. Drawer 40, Buckhannon, WV SURFACE CWNER Mildred Jones	26201 Size
ADDRESS 305 Tangle UN Run Blvd.Melboure	FL. 12 10" 201 201
Saille Saille	9 5/8
ADDRESS	8 5/8 804.00' 804.00' 232 cf
OIL AND GAS INSPECTOR FOR THIS WORK	The state of the s
Phil Tracy ADDRESS Forest Fest.Apts, El	kins, 5 1/2
- O/17/04	4 1/2 3988.45' 395 cf
DRILLING COMMENCED 8/29/84	— 3 335 CI
DRILLING COMPLETED 9/6/84	_ 2
F APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used
EOLOGICAL TARGET FORMATION Benson	Depth 4000' fee
Depth of completed well 4100' fe	
Water strata depth: Fresh 40', 580'fe	et; Salt none feet
Coal seam depths: 45/47, 555/59, 685/	88 Is coal being mined in the area? no
PEN FLOW DATA	
Producing formation Riley, Benson	Pay zone depth 3866' fee
cas: Initial open flow 14 Mcf	d Oil: Initial open flow Bb1/6
Final open flow 1,678 Mcf	/d Final open flow Bbl/
Time of open flow between	initial and final tests 2 hours
Static rock pressure 800# psig(su	rface measurement) after 24 hours shut in
(If applicable due to multiple comple	tion-1
Second producing formation	Pay zone depth feet
Gas: Initial open flow Mcf	/d Oil: Initial open flow Rb1/6
Final open flow Mcf	/d Oil: Final open flowBbl/d
Time of open flow between	initial and final tests hours
Static rock pressurepsig(sur	face measurement) afterhours shut in
	'(Continue on reverse side

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

Nowsco - 2 stage - Foam Frac - 9/12/84

3546/48 - 1st Riley - 45,000# sand, 230 Bbls water and 435,000 scf nitrogen 3674/76 - 2nd Riley

3862/66 - Benson - 45,000# sand, 312 Bbls water and 435,000 scf nitrogen

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Gard of Chale	0	45	hole wet @40'
Sand & Shale	45	47	NOTE WEE CTO
Coal	47	555	
Sand & Shale	555	559	particular China and All Maintine and
Coal	559	685	l" stream water @580'
Sand & Shale	685	688	
Coal	688	1345	
Sand & Shale	1345	1484	
Big Lime	1496	1632	
Injun	1638	1655	
Squaw	1950	2012	
4th Sand	2056	2012	
5th Sand	2116	2146	
Bayard	2166	2245	
Lower Bayard	3546	3624	
1st Riley	3667	3692	
2nd Riley	3860	3868	
Benson	3860	4100'	T.D. 2/10ths thru 1" water = 14:
그리고 그렇게 보는 그리고 가는 그림은	- 1	4100	1.B. 2/100115 51124
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	and the state of the state of		
4.00 - V X	TENE		
	2004	s i d	Bert Arthresistan 1570
			Viver Colombia Lab
	1		

(Attach separate sheets as necessary)

Union Drilling, Inc

Well Operator

Date: Joseph C. Pettey

9/26/84

Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and the drilling of a well."



State of West Birginia Bepartment of Mines Gil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

	NOV 1 - 1984	M
17.7	NOV 1 - 1984	שש

OIL & GAS DIVISION

	This Drilling		83-945	
	P.O. Drawer 40	FARM & WEL	L NO Comes	2053
	Buckhannon, WV 26201	DIST. & CO	UNTY Middle	Frek Rosa
			IN COMPLIA	NCE
RULE	DESCRIPTION		YES	NO
23.06	Notification Prior to Starting W	lork		
25.04	Prepared before Drilling to Prev	ent 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			A
15.05	Cement Type			
23.02	Maintained Access Roads			
25.01	Necessary Equipment to Prevent W	aste		
23.04	Reclaimed Drilling Pits			
23.05	No Surface or Underground Pollut	ion		
23.07	Requirements for Production & Ga	thering Pipelines		
16.01	Well Records on Site			-
16.02	Well Records Filed			
7.05	Identification Markings			
T HATTE	THERECARD MILE ADOLE CARMIONED INT.	AND DECOMMEND OF		
HAVE	INSPECTED THE ABOVE CAPTIONED WELL	AND RECOMMEND THA	AT IT BE REL	EASED:
		SIGNED X	hiller 2	well
		DATE	1-30-8	4
Your we	11 record was received and reclama	tion requirements	approved. I	n accordance
with Ch	apter 22, Article 4, Section 2, the	e above well will	remain unde	r bond

Administrator-Oil & Gas Division

DATE

coverage for the life of the well.

