

FORM IV-35 (Obverse) [08-78]

May 24 Date: , 19<u>8</u>3 Operator's

J-741 Well No. 47 _ 095 _ 1018 API Well Ho.

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

HA7 8 1983

C C GAS CIVISION

NH 0 6 1883

DEPT. OF MINES WELL OPERATOR'S REPORT

DESCRIPTION OF MINES AND/OR STEWULATERS, OR PHYSICAL CHANGE

LOCATION: E	levatio:	n:	1140		_ _ *	atershed: S	hort Run	Эеер <u></u> /	ShallowX_/)	
5	Lstrict	. <u>C</u> e	nterv	ille	_ :	Sounty: Tyl	er a	wairangle: West	Union	
WELL OPERATOR	J	[&J E	nterp	rises	, In	c.	DESIGNATED AS	Richard F	Reddecliff	
Address								P.O. Box		
•						26201			on, WV 26201	
SECTIMES	Plu	g of:	old fo	rmati	:n	/ ?erfora	te new format		oture or stimulat	e ?
PERMIT ICSUED	CN	1/	15		, 19	83	OIL & GAS INS	SPECTOR FOR THIS	WORK:	
	_							rt A. Lowther		
CONTINUO REWORKIN	CORF EU C. VER	RESSI Bal P	CN FRC: PERMISS:	K DRI: Ion di	LLING ETAIN	or ED		Gen. Delive		
									ourne, WV 2614	19
					Ale	xander			feet	
								able Tools		
						et; salt,				
Coal sea	m depth	s: 2	70 - 73,	670-	73	Is coal be	ing mined in	the area: No		
Work was	соплел	ced _		4-5		, 19 <u>_83</u> _,	and completed	4-10	, 19 <u>83</u>	
CASING AND TU										
CASING OR 1		SPECI	(FICATI	ons L.	}	FOOTAGE	intervals 1	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
Conquetor		302	cer ::	1.15%	USed	1	1		1	
Fresh water						30	0	0 sks.	Kinds	
Ccal	85/8 E		23	x		1251.35 1251.35	1251.35 1251.35	300 sks. 300 sks.		
Intermediate								300 5kg.	Sizes	
ii	4 ¹ 2 J	J-55	10.5	×		5025.05	5025.05	175 skg		
Tubing						3023.03	3023.03	173 585.	Dettns set	
Liners									Perforacions:	
				İ					Top Box	_
				·					4510 4536	
									4904 4907	
Jas	g format : Init:	ial o	pen flo	w, _		Mcf/d	Cil: Initial	open flow,	4904-07 251/1	:•
Combine	d Fina	l ope	n flow,	4	92)	He f/d	Final o	pen flow,	361/1	(
		Time	of ope	n flo	w bet	ween initial	and final tes	ts, 4 hours		i
							measurement)	after hou	rs shut in	
					-	tion]		•		
Second p	roducin	g for	mation		**************************************	Riley		Pay zone depth	4510-36 361/d	:•
Cas	Init:	ial o	pen flo	·		Mc f/d	Oil: Initial	open flow,	3b1./d	
	Fina							pen flow, os, hours		
			_							

PORM IV-35 (Reverse)

187-80

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

Benson: Perforations: 4510-19 (8 holes) 4535-36 (2 holes)
Fracturing: 10,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand: 500 gal. Acid: 424 Bbls. fluid.

Riley: Perforations: 4904-4907 (9 holes)
Fracturing: 10,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand: 500 gal. Acid: 424 Bbls. fluid.

-ELL 103

	T			,	
		Hard or Soft		Bottom.	Including indication of all freen
Red Clay	Color	Soft	Tim Feet	Feet	and sait water, scal, sil and sas
Red rock & sand			0	12	
			12	95	
Red rock & shale			95	135	
Red rock, sand & sha	le		135	270	'a" stream @ 300'
Coal			270	273	
Red rock & shale			273	300	Damp @ 1500'
Sandy shale			300	445`	
Red rock & shale			445	535	Gas ck @ 3530' No show
Sandy shale & sand			535	670	
Coal			670	673	Gas ck @ 3993 No show
Sandy shale & red roo	k		673	- 815	
Shale & red rock			815	900	Gas ck @ 4644 20/10-1" w/water
Sand & shale			900		
Sand, shale & sandy s	hale	•		1150	33,679 Cu.ft.
Shale & shite sand		•	1150	1380	
Shale & sandy shale		*	1380	1540	Gas ck @ 3530 No show
Sand & lime			1540	1880	
Big Lime			1880	1905	Gas ck @ 3993 No show
Sand & shale	ı	•	1905	2065	•
Shale & sand	1		2065	2860	Gas ck @ 4644 20/10-1" w/water
Sand & shale			2860	3800	33,679 cu.ft.
	1		3800	4115	·
Sandy shale & shale Benson			4115	4510	
2.1			4510	4536	
Sand & shale	- 1		4536	4865	
Lt. Brown sand	I		4865.	4875	
Sand			4875	4904	
Benson		Ī	4904	4907	mt -
Dark Brown sand	I	1	4907	4925	${f v}$
Gray sand	1		4925	5270	
Shale		j	5270	(5511)	0.4
	· }			TD	Rhinestreet@ 7D
	1	İ	j		
		ı		l	
/ I	**	l	1		
		•	•		

(Attach separate sheets to apoplete is messesary.

TOTE: Regulation 2.32(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematio, detailed geologial record of all formations, including coal, encountered in the drilling of a well."



1)	Date:	, 19
2)	Operator's	
	Well No.	

3) API Well No. 47
State County Permit

11/17/ T (77/17)	26201	4		OIL A	AND GAS	WELL PERMI	APPLICATION			
STITLE T PROFESSION										
WELL TYPE						40.000.000.000				
LOCATION:	B (II 'C	jas", Pro	auction _	×		Underground st	orage	_/ Deep	/ Shallow _	×
DOCITION.								Quadrangle:	Disease The San	
WELL OPER								AGENT		
Address		P.O. 1	80x 48		1113		Address	P.O. P.	0x 48	
	-	Buckle	nnon,	WV	26201			Buokha	nnon, WV 2	6201
OIL & GAS ROYALTY O	WNED							TOP.		
Address	WINER _	Gatre	l Hel	-10		1.	Address	IOR		-
	- 47	Cream	to General	CAL	00000		Addiess			
Acreage		OT GEHA	130	75	20300	13) COAL OWNER	(S) WITH DECLAR	RATION ON RE	CORD:
SURFACE O	WNER	lbert	Gatre	12 H	eirs		Name	ext Catroll	Reiro	
Address	- 0/0	Camio	Gatre	11		_	Address	/O Camio Gat	roll	
Agranga	- 6	CO 75	od, w	2 20	5360	_		Greenwood	, WV 2636	0
Acreage FIELD SALE		A 40 5 4 4 4				_	Name			10.
Address		Tinkenes					Address			
		- I LI LI LI LI	***			14) COAL LESSEE	WITH DECLARAT	TION ON RECO	RD:
OIL & GAS I	NSPECTO	R TO BE	NOTIFIE	D			Name			
Name	Robert	A. Lou	ther				Address			
Address	Coner	-	the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the party of the p				-			
DROBOSER		diebou				-		war construction		
PROPOSED								ture or stimulate	**	
		Other phy					ew formation			
GEOLOGICA						1)				
7) Estimated						feet				
							alt,	feet.		
9) Approxim	nate coal sea	m depths:	_0			Is coal	being mined in the	area? Yes	/ No	- 1
CASING ANI	D TUBING	PROGRA	M							
CASING OR	1	SDE	CIFICATION	10	II	FOOTAG	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	II		
TUBING TYPE			Weight				INTERVALS	OR SACKS	PACKER	S
nductor	Size	Grade	per it.		Used		Left in well	(Cubic feet)		
sh water	B B/R	T/050 /	23	X		1200	1200	To surface	Kinds	
al	8 5/8	10 RSV	23	- 32		1200	1200	To surface	Sizes	
ermediate										
duction	44	7-55	10.5	30		5450	5450	300 sks.	Depths set	
bing										
ers			1/1						Perforations:	
									Тор	Bottom
			- 1							
VTPACTICI	N RIGHTS									
Check and pro	a is the lease	Code 22-	or other (4-1-(c) (1)	through	th (4) (Se	ect or contracts be reverse side for	y which I hold the	right to extract oil o	r gas.	
Check and pro Included	uirement of		(0) (1)	oug	(-). (50	Toverse side 10	specifics.)			
Check and pro Included The req	uirement of				hased un				ing for flot well re	
Check and pro Included The req COYALTY PR s the right to e	uirement of ROVISIONS extract, prod	S luce or ma	rket the oi	l or gas	baseu up	on a lease or othe	continuing contrac	t or contracts providi	ing for that well re	yalty or
Included The request to estimate the right t	uirement of ROVISIONS extract, prod on for comp	luce or ma pensation	to the own	l or gas	the oil or	gas in place whi	continuing contract ch is not inherently	t or contracts providi related to the volun	ne of oil or gas s	oyalty or so extrac
Included The requestion of the requestion of the region of	uirement of ROVISIONS extract, prod on for comp arketed?	S luce or ma pensation Yes \(\square\)	to the own	ner of	the oil or	gas in place whi	ch is not inherently	related to the volun	ne of oil or gas s	oyalty or so extrac
Included The required COYALTY PRotes the right to estimate provision roduced or manswer above the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the required Coping and the requ	uirement of ROVISIONS extract, prod on for comp narketed? Ye is No, noth es (See rever	luce or ma pensation Yes 1 hing additions	to the own	ner of eded. 1	the oil or	gas in place whi	ay use Affidavit Fo	related to the volun	ne of oil or gas s	so extra
The required copies of this	uirement of ROVISIONS extract, prod on for comp narketed? Ye is No, noth es (See rever Permit Appl	luce or ma pensation Yes 1 hing additions rse side.)	to the own	eded. I	the oil or If the answ	gas in place whi	ay use Affidavit Fo	related to the volun	ne of oil or gas s	to the al
The required Copies of this lamed coal ope	extract, prod on for comparketed? Ye is No, nothes (See rever Permit Apple erator, coal	duce or ma pensation Yes 1 hing additions and its rise side.) lication and owner(s),	to the own	eded. I	the oil or If the answ	gas in place whi	ay use Affidavit Fo	related to the volun	ne of oil or gas s	to the al
Included The required COYALTY PF s the right to est milar provision roduced or m accordanced or m accordanced Copi opies of this amed coal ope lines at Charle	extract, prod on for comparketed? Ye is No, nothes (See rever Permit Apple erator, coal	duce or ma pensation Yes 1 hing additions and its rise side.) lication and owner(s),	to the own	eded. I	the oil or If the answ	gas in place whi	ay use Affidavit Fo ave been mailed by mailing or delivery	related to the volun orm IV-60. registered mail or de of this Permit Appl	ne of oil or gas s elivered by hand to ication to the De	to the al
Check and pro Included The required OYALTY Property of the right to emilar provision of the property of the right to emilar provision of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the p	eston, West	duce or ma pensation Yes 1 hing additions and its rise side.) lication and owner(s),	to the own	eded. I	the oil or If the answ	gas in place whi	ay use Affidavit For ave been mailed by mailing or delivery Signed:	related to the volun orm IV-60. registered mail or de of this Permit Appl	ne of oil or gas s elivered by hand t ication to the De	to the al
Check and pro Included The required Coyal Provision of this important to the control of the control of the control of the control of the control of this important tary.	eston, West	duce or ma pensation Yes 1 hing additions and its rise side.) lication and owner(s),	to the own	eded. I	the oil or If the answ	gas in place whi	ay use Affidavit For ave been mailed by mailing or delivery Signed:	related to the volun orm IV-60. registered mail or de of this Permit Appl	ne of oil or gas s elivered by hand t ication to the De	to the ab
Check and pro Included The required COYALTY Property of the right to estimate provision roduced or manswer above dequired Copies of this lamed coal opelines at Charles of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of	eston, West	duce or ma pensation Yes 1 hing additions and its rise side.) lication and owner(s),	to the own	eded. I	the oil or If the answ lat and recon or before	gas in place whitever is Yes, you melamation plan have the day of the	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: Den	related to the volun orm IV-60. registered mail or de of this Permit Appl	ne of oil or gas s elivered by hand t ication to the De	to the ab
Check and pro Included The required COYALTY PF s the right to e similar provision roduced or m answer above dequired Copic copies of this in amed coal ope fines at Charle otary: y Commission	eston, West	duce or ma pensation Yes 1 hing additions and incomparison and owner(s),	to the own	eded. I	the oil or If the answ lat and recon or before	gas in place whi	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: Den	related to the volun orm IV-60. registered mail or de of this Permit Appl	ne of oil or gas s elivered by hand t ication to the De	to the ab
Check and pro Included The required COYALTY PF s the right to e similar provision roduced or m answer above dequired Copic copies of this lamed coal ope lines at Charle otary Commission	eston, West	duce or ma pensation Yes 1 hing additions and incomparison and owner(s),	to the own	eded. I	the oil or If the answ lat and recon or before	gas in place whitever is Yes, you melamation plan have the day of the	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: Den	related to the volunterm IV-60. registered mail or de of this Permit Appl	elivered by hand to ication to the De	to the ab
Check and pro Included The req COYALTY PF s the right to e imilar provision roduced or m answer above Required Copi copies of this amed coal ope fines at Charle otary y Commission t number	uirement of ROVISIONS extract, produced on for comparketed? Ye is No, nothers (See reverpermit Applerator, coal eston, West Expires	duce or man pensation (res 1 thing addition and owner(s), Virginia.	to the own No ional is ne and the encl and coal ional is ne and coal ional io	leded. I	of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of	gas in place whitever is Yes, you melamation plan have the day of the FICE USE OULLING PER	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: NLY MIT	related to the volumerm IV-60. registered mail or de of this Permit Appl	elivered by hand to ication to the De	to the abpartmen
Check and pro Included The req ROYALTY PF s the right to e imilar provision roduced or m answer above Required Copi copies of this amed coal ope fines at Charle otary: y Commission t number	g the well of the condi	duce or man pensation (res 1 thing additions and owner(s), Virginia.	to the own No ional is ne and the encl and coal ional is ne and coal ional io	eded. I	of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of the answer of	gas in place whith ver is Yes, you much a series and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: NLY MIT permission granted fileation must be gi	related to the volumer IV-60. registered mail or de of this Permit Appl Date of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District	elivered by hand to ication to the De	to the abpartmen
Check and pro Included The req ROYALTY PF s the right to e imilar provision roduced or m answer above Required Copi copies of this is amed coal ope fines at Charle otary y Commission t number permit covering nents subject to No. 10) Pri	g the well of to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the conditio	duce or man pensation of the pensation are side.) lication and owner(s), Virginia.	to the own No ional is ne and the encl and coal !	eded. I	OF ORI Shown beld on the re- on or bero OF ORI Shown beld on the re- ons and pits	gas in place whi wer is Yes, you m clamation plan h re the day of the FICE USE O LLING PER ow is evidence of verse hereof. Not	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: NLY MIT permission granted fication must be gifted work. In addition	related to the volumerm IV-60. registered mail or de of this Permit Appl	elivered by hand to ication to the De	to the abpartmen
Check and pro Included The req COYALTY PF s the right to e initial provision conduced or m answer above Required Copi copies of this in amed coal ope fines at Charle otary y Commission t number permit covering nents subject to to No. 10) Pri r district oil an	g the well of to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the conditor to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the condition to the conditio	duce or man pensation of the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person and the person	to the own No ional is ne and the encl and coal !	eded. I	OF ORI Shown beld on the re- on or bero OF ORI Shown beld on the re- ons and pits	gas in place white ver is Yes, you much that the day of the rethe ret	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: NLY MIT permission granted dification must be gid dwork. In addition menced.)	related to the volumerm IV-60. registered mail or de of this Permit Appl Dat to drill in accordant ven to the District O, the well operator or	elivered by hand to ication to the De te te te te te the with the pertibil and Gas Insper his contractor sh	to the abpartmen
Check and pro Included The req ROYALTY PF s the right to e imilar provision roduced or m answer above Required Copi copies of this is amed coal ope fines at Charle otary y Commission t number permit covering nents subject to No. 10) Pri	extract, prodon for comparketed? Ye is No, nothers (See rever Permit Applerator, coal eston, West Expires	duce or man pensation of the pensation are side.) lication are owner(s), Virginia.	to the own No ional is ne and the encl and coal !	eded. I	OF ORI Shown beld on the re- on or bero OF ORI Shown beld on the re- ons and pits	gas in place white ver is Yes, you much that the day of the rethe ret	ay use Affidavit For ave been mailed by mailing or delivery Signed: Its: NLY MIT permission granted dification must be gid dwork. In addition menced.)	related to the volumer IV-60. registered mail or de of this Permit Appl Date of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District Of the District	elivered by hand to ication to the De te te te te te the with the pertibil and Gas Insper his contractor sh	to the abpartmen

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
 - 5) Where well is located
 - 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
 - 7) Use separate sheet if necessary
 - 8) Present surface owner at time application is filed.
 - 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - 15) Work that will be attempted—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.
 - 16) Anticipated formation for which well will be completed
 - 17) Self explanatory
 - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
 - 19) All coal seam depths
 - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
 - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1)A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4)A brief description of the royalty provisions of each such lease or contract.
 - 22) Code 22-4-11(d) and 22-4-11(e).
 - 23) 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.
- 24) 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.

	_	•	•	nd by any coal owner or coal lessee nit is to be issued within fifteen (15)
	,		WAIVER	
amined this added to the	proposed well location. If a e mine map. The undersigned	mine map exists w I has no objection	hich covers the are to the work propos	
Date:	, 19	······································	By	