



)	Date:_	March	5,	, 19 83
	Opera			

2)	Well No.	1		
1	A DI Well No.	47	RENEWAL 001	1734-REN.

OIL & GAS	A Oil B (If'		h iong.	a dolo				о збато цен телези		
WELL TYPE: LOCATION: WELL OPERA Address OIL & GAS	A Oil B (If'				W DAT		Color of the book house			
) LOCATION:) WELL OPERA Address) OIL & GAS	B (If	A THE STATE OF THE		V						
) WELL OPERA Address		Cast Dec								
) WELL OPERA Address								Deep liver		/.
Address OIL & GAS	Dietri	at Rel	ingto	n C	orn	_ watersned: _	rhour	alley RiverQuadrangle:	Relingt	on 7=
Address OIL & GAS	TOP E	agter	n Int	erm	nint	ain Energ	W DEGLEVATE	Quadrangle:	o Willis	ams
OIL & GAS	PO	Boy	902	CI III	Juire	To the or State of	Address	P.O. Box 90	02	tino
OIL & GAS	Reli	ngt.on	WW	2621	50	group de haire	Address	Belington,		50
		1180011	*	NO N						
KUTALIYOW	NER _	Crab	Botto	m L.	or.		2) COAL OPERA	tor none	Whole wal	46 3 3 4
ROYALTY OW Address	Bel	ingto	n, WV	20.	250	wiled the state	Address	alite of area Cingo	g a spote 8	6
							of State Diffe	Viairt563 bill illew	(heraterger)	
Acreage	~	cre					3) COAL OWNE	R(S) WITH DECLAR	ATION ON RI	ECORD:
SURFACE OW	NER_S	ame		400				ame		
Address						Tiled, ser "se !	Address	EST LA SETTAN GOALS	Presentau	.(4
									democies	10
Acreage							Name			
FIELD SALE (Address	ing or greatest in	82 11 936	31.5
Address	Unk	nown	COLINICO	inc or	21301	<u>tio o</u> ulerantari	personal firm r	THE STEEDER "TO IS'	gOJ8002	(5.1
						1	4) COAL LESSE	E WITH DECLARAT	ION ON RECO	ORD:
OIL & GAS IN				D			Name) 8		
Name Robe	rt S	tewar	Long	Torr	TATTT		Address	4000	And secretary and affine	W CELL (S)
Address	Dox	242	Jane	Tem	W V	CAMP OF VIGINIE		will be attenuate.	ment 14 to W	1002
		e 00	4//	20		10x Mount 101	THE 36 01 SE30	deiumita 10 garda	MARY	1983
PROPOSED W	ORK:	Drill X	A STATE OF THE RESERVE	Drill d	eeper_	/ Redri	1/ Frac	cture or stimulate	X AND	GASDIV
		Plug off	old form	ation		/ Perforate	new formation	o Son al isomo. S	WY DEPAR	TMENT OF
CEOL COLOR						ecify)		10 To	minya das	
GEOLOGICAL						+				Visit
17) Estimated d	epth of c	ompleted v	vell,	500	0 1	35 feet		miswike i tereb	Dente to	
18) Approxima19) Approxima	te water s	trata depti	is: Fresh	n Owr	, ,		salt,		anitavolo .	X
				110111		Is coa	l being mined in the	area? Yes	No_	Λ
CASING AND	TUBINO	PROGRA	AM			All of the said	and the first that the first the fir	casing program,ci		100
CASING OR		SPE	CIFICATION	NS		FOOTAC	E INTERVALS	CEMENT FILL-UP	PACKE	29
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	113/	30 30 30	PERMIT				40 ft	to surface	Kinds	7.83
resh water						40 ft		-	Kinds	
Coal							P. 10		Sizes	
ntermediate	8 5/8			ल हा विकास विकास	A Land	1000 ft	1000 ft	to surfa		AT
Production	4를					5000 ft	5000 ft	back to 2	600 Set It	71
ubing									Depitie set 2	
iners							Daniel 10	10 10 10 10	Perforations:	
						ACTUAL AC		The second second second	Top	Bottom
			March 1				4 T. C. 10 T. M. O.	4-52 Day 10 V 15	-38 0000	Bottom
Andr Ir	000	a gricerio	Con Street	tank	huh sal	Control of the Control	enit the color	profit of the core	State Save To	it c
EXTRACTION	RIGHTS	nin telual	a version	311276	We jew	into a series of the	Maria Autoria	Jan Dr. et meast A	377	
Check and provide			wing:							
Included i	s the leas	se or leases	or other	continu	ing con	ntract or contracts	by which I hold the	right to extract oil or	gas.	
ine requir	ement o	Code 22-	4-1-(c) (1)	throug	h (4).	(See reverse side fo	r specifics)			
ROYALTY PRO						Box and appearing		ultino u są gladai v		
similar provision	for com	neneation	rket the oi	or gas	based	upon a lease or othe	er continuing contra	ct or contracts providin	g for flat well re	oyalty or a
produced or mar	keted?	Ves A	No T	ner or i	ine on	or gas in place wh	ich is not inherently	related to the volume	e of oil or gas	so extracte
e answer above is	No, not	hing addit	ional is ne	eded. I	f the a	nswer is Yes, you r	nay use Affidavit F	orm IV-60.	residence in a	
Required Copies	(See reve	erse side.)				and the second second				
Copies of this Pe	rmit Ap	plication a	nd the end	losed p	lat and	reclamation plan	nave been mailed by	egistered mail or del	ivered by hand	to the abo
Mines at Charles	nor, coa	l owner(s).	and coal	lessee c	on or b	efore the day of th	e mailing or deliver	of this Permit Applie	cation to the D	epartment
	0.		1	1			a	1. 10	11/	1.
lotary:	ver		Cass		100	us one last orb	Signed:	coupe//x	unce	un
ly Commission Ex	pires	MA	7 20	199	/	22-4-20, U-the	Its: Des	ighated Age	ent	
					-	EFICE LIEP O	NIV	doned into	days of rec	
	47 0	001 170	/ Dru		ACCOMMODISTICS.	FFICE USE O				
	4/-(001-173	4-REN.					March 23		19 83
it number										
nit number	PV SAT	robbio lo	op sittle	3		a folial to as to	THE O	Date d to drill in accordance	and bear her	

Permit expires November 23, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

| Bond: | Agent: | Plat: | Casing | Fee food

Administrator, Office of Oil and Gas

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
 - 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).
 - 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.
 - 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.

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.

WELL WALELED

..... taraki saal avertsi. eri erisa aya inil keseseen acherenta kasaka kasaka kan erisa. erisa erisa ka karana

Total Control of the	E.A.Byles	MAIVER			
The undersigned coal operator	/ owner	/ lessee	/of the coal u	nder this well l	ocation has ex-
amined this proposed well location. If	a mine map exists w	hich covers the are	ea of the well locati	on, the well loo	cation has been
added to the mine map. The undersign operator has complied with all applications.	able requirements of	to the West Virginia	Code and the gov	erning regulation	ions.
operator has complied with an application	reache an entress at matter	B and an			Periodi explies
		1.00.50	13-14	New York	The Control of the Co
Date:, 19	signative and the signature of the signa	Ву	A PARI	nd .	1319
		Its	and it had as barroud	inimae sull Yourcess	NOTE: Keep one

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

DRILLING	CONTRACTOR:	TO X DRILL (If Known)	RESPONSIBLE AGENT:	
NAME	unknown		NAME William E.	Bennett
ADDRESS _			ADDRESS Box 2683	,Charleston,WV 25330
TELEPHON			TELEPHONE345-0	216
		MPLETED WELL: 5000	ROTARYX	CABLE TOOLS
	OFOLOGICAL F	CORMATION: Haverty Sd		
	GEOLOGICAL	OIL GAS _ X CO	MR STORAGE	DISPOSAL
TYPE OF	WELL:			OD OTHER
		RECYCLIN	WAIRN PLO	William Children
	Company State of the control of the			
TENTATIV	E CASING PROG	RAM: V		
CASIN	G AND TUBING	USED FOR	LITT IN	CEMENT LIFE UP
CASIIV	SIZE	DRILLING	WILL	OR SACKS - CUBIC 1-1.
20 - 16			\$1.50	Control of the Contro
13 - 10		40 •	40'	to surface
9 - 5/8			1	
8 - 5/8				to surface
7			The second secon	oo barracc
5 1/2	1			
4 1/2		5000		
100		Called the second		Perf. Top
2			4.4	Perf. Bottom
Liners				Perf. Top
				Perf. Bottom
	The state of the s			
	PPPGU WA	TER DEPTHS 60,135 FEET	SALT WATER	FEET
	IATE COAL DEP			
IS COAL I	BEING MINED IN	THE AREA? no	BY WHOM?	· · · · · · · · · · · · · · · · · · ·
TO DRILL			the state of the s	
No.		PIES OF OG 1, \$100.00 PERMI	T FFE PERFORMANCE RO	OND AND PERMANENT COPY
OF P	The second of th	PIES OF OG 1, \$100.00 PERMI	TELL, TELL ORGANICO	(4) (1) 4 (4)
Or r	LAI.			
	DEEPER OR RE			
SUBM	IIT FIVE (5) COL	PIES OF OG 1, SHOWING ORIGI	NAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON
		OR TO 1929, A PERMANENT CO	OPY OF THE PLAT AND T	THE ORIGINAL WELL RECORD
MUST	ALSO BE SUBM	HITTED.		
TO FRACI	URE - STIMULA	TE:		
		LL ORIGINALLY DRILLED BEFO	RE JUNE 5, 1929, FIVE (5)	COPIES OG - 1, PERFORMANCE
		PLAT AND ORIGINAL WELL REC		
		LL ORIGINALLY DRILLED ON A		9. FIVE COPIES OG - 1, SHOW-
		T NUMBER, AND PERFORMANCE		
\$04E				
		e filed within ninety (90) days of o	completion for bond release.	Inspector to be notified twenty-
four	(24) hours in adva	ince,		1
- paradomentale to real regulations				
	1,44	NA NA		
The	following waiver	must be completed by the coal ope	erator if the permit is to be	issued within ten days of receipt
thereof.				
WAI\'ER	I the undersigned	d, Agent for	Coal Company, Owner	or Operator of the coal under
*****		xamined and place on our mine m		
TO A COMMON				
		Coal Company		
	providing operato	r has complied with all rules and reg	guiations in Articles 4, 5, and	1, Chapter 22 of the West Virginia
	Code.			
The state of the s				£ ***
		The second second		or Coal Company
A.		8	the second second second	or Coart ompany

Orticial Title



RECEIVED

MAR 15 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

	Charleston,	W. Va.		DATE	15 March. 1	982
	0.	rab Bottom Lbr	4-100		110	18.14 P.O. 188.798
	Durinee Owner					ountain Energy
	Address Belin	ngton, WVo-				ton, WV 25330
	Mineral Owner	Same			tom Lbr.	
	Address	same		Location (waters)	Tygart Val	ey River
	Coal OwnerS	Same		Well No1	The Court street	_ Elevation 1710'
	Address	same		District Beling	ton Corp	CountyBarbour
	Coal Operator	none		Quadrangle_Bel	ington 7½	
	Address					
THIS PERMI	T MUST BE POSTED	AT THE WELL OF				
		CORDANCE WITH CHA		NSPECTOR		
ARTICLE 4	OF THE W. VA. COD	E, THE LOCATION IS	HEDESY TO	D BE NOTIFIED _	Mr Rober	t Stewart
APPROVED	FORdrilling	. THIS PERMIT SE	HALL EXPIRE			
F OPERATIO	ONS HAVE NOT CO	MMENCED BY 11-3	0-82 A	DDRESS Box 34	5, Jane Lew	V WV
Y	Unfi		The state of the s	HONE 884-772	8	
	GENTLEMEN:					
		vell operator is entitled	to drill upon the	above named farm	or tract of land fo	r oil and gas, having fee
	and the second s	the case may be) unde				
		made to Eastern				
				and recorded	on the Zha	uay or
		Country	Deal	Dage .		
700				Page		
				make Tolking Street		URE OR STIMULATE
-	X NEW W		LL DEEPER	REDRILL _	X_FRACT	URE OR STIMULATE
	NEW W	VELLDRII	LL DEEPER	REDRILL DEFORE JUNE 5,	XFRACT	URE OR STIMULATE
	NEW W OIL AN The enclosed plat nave been notified as The above named	WELLDRII D GAS WELL ORIGI was prepared by a reg of the above date. coal owners and/or op	LL DEEPER	REDRILL 5, or licensed land survey	X FRACT 1969. eyor and all coal of the co	owners and/or operators o make, or are required
	NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this noti	WELLDRII D GAS WELL ORIGINATE OF THE PROPERTY OF THE PR	NALLY DRILLED gistered engineer of erator are hereby e received by, or for	REDRILL D BEFORE JUNE 5, or licensed land surventified that any objected with the Department registered mail, or described the surventified that any objected with the Department registered mail, or described the surventified that any objected with the Department registered mail, or described the surventified that any objected with the Department registered mail, or described the surventified that any objected the surventified that any objected with the Department registered mail, or described the surventified that any objected the surventified the surventified that any objected the surventified that any objected the surventified that any objected the surventified the surven	X FRACT 1969. eyor and all coal election they wish to ment of Mines with the selection of	owners and/or operators o make, or are required nin ten (10) days. * we named coal operators
	NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notifier coal owners at the	WELLDRID DRID D	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address	REDRILL DEFORE JUNE 5, or licensed land survey motified that any objected with the Department of the	X FRACT 1969. eyor and all coal election they wish to ment of Mines with the short of the about day FRACT	owners and/or operators o make, or are required nin ten (10) days. * we named coal operators before, or on the
	NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notifier coal owners at the	WELLDRID DRID	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with the section the about the section the section they wish the section that section they wish the section that section they wish the section that section they wish the section they will be section the section the section they will be section the section they will be section the section the section they will be section the sectio	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notifier coal owners at the	WELLDRID DRID D	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, E.2	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with the section of	owners and/or operators o make, or are required nin ten (10) days. * we named coal operators before, or on the
	X NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this noti or coal owners at the same day with the magnetic section of the section of	WELLDRID DRID	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, E.2	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with the section of	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	X NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this noti or coal owners at the same day with the management of the same day with the same day with the management of the same day with the same day with the same day with the management of the same day with the same	WELLDRII D GAS WELL ORIGI was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed pl eir above shown respectable or delivery of the OPIES OF ALL S DIRECTLY TO:	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address is copy to the De	REDRILL BEFORE JUNE 5, In licensed land survey motified that any object of the desired mail, or department of Mines at Very truly yours, (Sign Name)	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with the section of	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	X NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notified or coal owners at the same day with the management of the coal owners at the coal ow	was prepared by a regof the above date. coal owners and/or op of the Code, must be dice and the enclosed pleir above shown respectabiling or delivery of the CoPIES OF ALL S DIRECTLY TO:	NALLY DRILLED gistered engineer of erator are hereby e received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey notified that any objected with the Departre registered mail, or department of Mines at Very truly yours, (Sign Name)	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with the section of	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	X NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this noti or coal owners at the same day with the management of the same day with the same day with the management of the same day with the same day with the same day with the management of the same day with the same	was prepared by a regof the above date. coal owners and/or op of the Code, must be dice and the enclosed pleir above shown respectabiling or delivery of the CoPIES OF ALL S DIRECTLY TO:	LL DEEPER NALLY DRILLEI gistered engineer of erator are hereby e received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, (Sign Name) Box 2	X FRACT 1969. eyor and all coal of the section they wish the ment of Mines with delivered to the about the section, West compared to the section of the sec	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	X NEW WOLL AN OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notion coal owners at the same day with the management of the coal owners at the same day with the management of the coal owners at the same day with the management of the coal owners at the same day with the management of the coal owners at the same day with the management of the coal owners at the same day with the management of the coal of the	WELLDRID DRID DRID DRID DRID DRID DRID DRID Was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed ple eir above shown respectabling or delivery of the OPIES OF ALL S DIRECTLY TO: EOLOGICAL AND	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, (Sign Name) Box 2	X FRACT 1969. eyor and all coal of the section they wish the section they wish the section of Mines with selivered to the about the section. West stern Interval of the section west stern Interval of the section street.	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	The enclosed plat have been notified as The above named to make by Section 3 Copies of this notifier coal owners at the same day with the missing CEOPHYSICAL LOG	WELLDRID DO GAS WELL ORIGIO Was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed ple eir above shown respectabling or delivery of the OPIES OF ALL S DIRECTLY TO: EOLOGICAL AND T VIRGINIA 2650	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, (Sign Name) Box 2	X FRACT 1969. eyor and all coal of the section they wish the section they wish the section of Mines with selivered to the about the section. West stern Intervention of Mines with selivered to the about the section of the section o	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	NEW WOLL AN OIL AN OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Secondary Second	WELLDRID DO GAS WELL ORIGIO Was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed ple eir above shown respectabling or delivery of the OPIES OF ALL S DIRECTLY TO: EOLOGICAL AND T VIRGINIA 2650	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Department of Mines at Very truly yours, (Sign Name) Box 2	X FRACT 1969. eyor and all coal of the section they wish the section they wish the section of Mines with the section of M	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	NEW WOLL AN OIL AN OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Secondary Second	WELLDRID DO GAS WELL ORIGIO Was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed ple eir above shown respectabling or delivery of the OPIES OF ALL S DIRECTLY TO: EOLOGICAL AND T VIRGINIA 2650	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Departr registered mail, or department of Mines at Very truly yours, (Sign Name) BOX 2 ator Char	X FRACT 1969. eyor and all coal of the section they wish the section they wish the section of Mines with selivered to the about the section. West stern Intervention of Mines with selivered to the about the section of the section o	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	NEW WOLL AN OIL AN OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 Copies of this notion coal owners at the same day with the marked by Secondary Second	WELLDRID DO GAS WELL ORIGIO Was prepared by a reg of the above date. coal owners and/or op of the Code, must be dice and the enclosed ple eir above shown respectabling or delivery of the OPIES OF ALL S DIRECTLY TO: EOLOGICAL AND T VIRGINIA 2650	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De	REDRILL D BEFORE JUNE 5, or licensed land survey motified that any objected with the Departr registered mail, or department of Mines at Very truly yours, (Sign Name) BOX 2 ator Char	X FRACT 1969. eyor and all coal of the section they wish the section they wish the section of Mines with the section of M	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	The enclosed plat have been notified as The above named to make by Section 3 Copies of this notion coal owners at the same day with the marked by Section 3 CEOPHYSICAL LOG WEST VIRGINIA GECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WES AC-304 - 292-6	WELL	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De Addre of Well Oper	REDRILL Description BEFORE JUNE 5, or licensed land survey anotified that any objected with the Department of Mines at the partment of Mines at the Very truly yours, (Sign Name) Box 2 Box 2 Separtment of mines, with department shall for the department shall shal	x FRACT 1969. eyor and all coal of the ection they wish they wish the ection they wish they wish the ection they wish they wish the ection they wish	o make, or are required nin ten (10) days. * ove named coal operators before, or on the Virginia.
	NEW W OIL AN The enclosed plat have been notified as The above named to make by Section 3 Copies of this notifier coal owners at the same day with the material owners at the same day with the same day with the same day of the same day o	WELL	NALLY DRILLED gistered engineer of erator are hereby received by, or f at were mailed by ctive address is copy to the De Addre of Well Oper	REDRILL Description of Before June 5, or licensed land survey anotified that any objected with the Department of Mines at Very truly yours, (Sign Name) Box 2 Separtment of mines, with department shall for perators or found thereto	x FRACT 1969. eyor and all coal of the ection they wish they wish the ection they wish they wish the ection they wish they wish the ection they wish	o make, or are required in ten (10) days. * ve named coal operators before, or on the Virginia. emountain Energy en days from the receipt coal operator apermit reciting

BLANKET BUND

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date

Date

Date(s)

Application received

Follow-up inspection(s)

Well work started

Completion of the drilling process and any follow-up inspection of the drilling process and any follow-up inspection and the drilling process and the drill

FILE COPY

K4



)	Date:	November 18	_, 19	83
)	Operator	S Donorrol 1	at the National	

Well No. Renewal 1

3) API Well No. 47 - 001 - 1734-REN State County Permit

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

				Al	PLICA	TION FOR A WELI	WORK PERMIT		
	DE 4 6			X	Χ ,		ne ver vez	DIFICATIONS	
4) WELL IY	PE: A C	If "Gas"	Production	as	X	/ Underground st	Orage	/ Deen	/ Shallow V
5) LOCATIO	N. Fl	evation. I	710	"	^	Watershed:	Tygart Va	lley River	_/ Shallow _X/)
s) LOCATIC	Di.	strict: I	Beling	gton	Cor	D County: Ba	arbour	Ouadrangle:	Belington 7½
6) WELL OP	ERATOR	Caster	n In	term	ount	ain Energy) DESIGNATEI	AGENT Geor	ge Williams
Addres	s I	P.O. I	30x 90)2			Address	P.O.	Box 902
	I	Beling	gton,	WV	2625	0		Beli	ngton, WV 26250
8) OIL & GA				FIED		9) DRILLING CO		
Name P	hillip						Name U:	nknown	
Addres		Elkir					Address		
		Phone							vv
0) PROPOSE	ED WELL	WORK:			_/ Drill			/ Stimulate	XX_/
						n/ Perfora	te new formation	/	
			Other p	hysical	change i	n well (specify)			
11) GEOLOG	ICAL TAR	GET FOR	MATION	500	0			- 19 A 19	
12) Estim	ated depth	of complet	ed well,	60	135	feet; salt,		fact	
13) Appro	oximate tra	ta deptins:	rresn, _	nkno	wn		l being mined in the		
14) Appro						Is Coa	i being inned in the	carca: res	/ NO/
CASING OR	II		CIFICATION	9		FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	11 3	//.	per it.	1464	Oscu	40ft	40ft	(Cubic Icci)	Kinds
Fresh water	111)	14				4010	4010		
Coal								1 m 1 m 2 m 2 m 3	Sizes
Intermediate	8 5	18				1000ft	1000ft	to surface	by rule 15.05
Production	11=					5000ft	5000ft	back to 260	Offents set Gr as
Tubing	172					E USE ONLY)IPFO		reg. by rule 15
Liners									Perforations:
		20000	ha ii qil	walio	Syna h	A COMPRESS AT	dates of certai	di biocerot di (i	Top Bottom
13-1	Batels						3180		
				(8)1181	torani	OFFICE USE C	NIV	10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	berioses notissitani
	30371	7				DRILLING PE			
		45 001	1504	DEM		DRILLING I L	AIVIII	D	Vell work started
Permit number	12.70	47-001	-1734-	REN				Decem	
									completion of the dellist
This permit cov	ering the v	vell operate	or and we	ll locati	on show	n below is evidence o	f permission grant	ed to drill in accordar	nce with the pertinent legal re- il and Gas Inspector, (Refer to
No. 8) Prior to	the constru	uction of r	oads, loca	tions an	d pits fo	r any permitted work	In addition, the w	rell operator or his cor	ntractor shall notify the proper
						work has commenced			A STANCOLD LEGGIAGR
The permitted v	vork is as d	lescribed in	the Notic	ce and A	Applicati	on, plat, and reclama	tion plan, subject	to any modifications a	and conditions specified on the
reverse hereof.	D	ecemb	er 5. 19	985					- Ostoriju in matramaticas
Permit expires		cccino	CI 0, 1.	,00		unless well	work is commenced	d prior to that date and	prosecuted with due diligence.
									THER INSPECTIONS
Bond:	Age	nt:	Plat:	Casin	ng	Fee			
Ch	m.	11 4	mul	m	14	164		-10	Reason
	///	N /	1111	1//	- 1		-	11,	1
							Adm	ninistrator, Office of C	Oil and Gas
NOTE: Keep	one conv o	f this pern	nit posted	at the	rilling lo	ocation.	Auli	imistrator, Office of C	Zii aiiu Gas
Reep	cop; o	- IIII porti	Posica						File

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8a 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-lm, 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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Crab Bottom Lumber, Inc.	Eastern Intermore	ntain 1/8	89,	1626

FORM	IV-2 (A)
Obver	se	
[8-83]]	



1) Date: November 18 ,1983 2) Operator's Well No. Renewal 3) API Well No. 47 001 1734

State County Permit

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

	NOTICE OF APPLICATION :	FOR A WELL	WORK PERMIT	
4) SUR	RFACE OWNER(S) OF RECORD TO BE SERVED		COAL OPERATO	D 37
	Nome	3(1)	Address	None
				The state of the s
	Address Belington, WV 26250	5(ii)	COAL OWNER (S) WITH DECLARATION ON RECORD
(ii) 1	Name		Name Same	
	Address		Address	
			December 12 - Spirite 19	The state of the s
(iii) 1	Name		Name	and the second s
	Address		Address	
				Carlo Taranti di Taranti di Carlo Tarant
	and the same of th	5(iii)	COAL LESSEE V	VITH DECLARATION ON RECORD:
			Name	TO HELD IN
			Address_	
	TO THE PERSON(S) NAMED ABOVE: You should	have received th	is Form and the falls	
	(1) The Application for a Well Work p	ermit on Form Til	2/01 /	
	cementing program:	catton and, if a	oplicable, the propos	sed casing and
	(2) The plat (surveyor's map) showing (3) The Construction and Real markets	the well location	on on Form IV-6; and	9/2
	plug a well), which sets out the	plan on Form IV-9		ork is only to
	reclamation for the site and access	ss road.	and sediment control	and for
	THE REASON YOU RECEIVED THESE DOCUMENT	TO TO TRIBUTE VOICE IN	VE RIGHTS RECARDING	THE ADDITIONAL
	(FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU ACTION AT ALL.	J. HOWEVER, YOU	ARE NOT REQUIRED TO	TAKE ANY
	Take notice that under Chapter 22 of t	the West Virginia	Code the undersion	od in 11
	erator proposes to file or has filed this N for a Well Work Permit with the Administra	Notice and Applic	ation and accompanyi	ng documents
	Department of Mines, with respect to a sell	or the Office	of Oil and Gas, Wes	t Virginia
	and depicted on attached Form IV-6. Copies Construction and Reclamation Plan have been	of this Notice,	the Application, the	ed Application
	by hand to the person(s) named above (or be	manifed by regis	tered or certified m	ail or delivered
	before the day of mailing or delivery to the	publication in me Administrator.	certain circumstance	s) on or
	6) EXTRACTION RIGHTS			
	Check and provide one of the following:			
	Included is the lease or leases or other	her continuing co	ontract or contracts	ber subside
	I hold the right to extract oil or The requirement of Code 22-4-1-(a) (1)	gas.	silated of contracts	by willdi
	The requirement of Code 22-4-1-(c) (1) 7) ROYALTY PROVISIONS	through (4). (Se	ee reverse side for s	specifics.)
	Is the right to extract, produce or market or other contract or contracts providing for compensation to the compensation to	for flat well m	based upon a lease	or leases
	for compensation to the owner of the oil of the volume of oil or gas so extracted	or gas in place w	hich is not inherent	ly related
		, produced or mar	keted? Yesh No	
	If the answer above is No, nothing you may use Affidavit Form IV-60.	ng additional is	needed. If the answe	r is Yes,
				01.10
	See the reverse side for line item i	instructions, and	for instructions con	Marrian
	the required copies of the Notice an Reclamation Plan.	nd Application, p	lat, and Construction	n and
The to	ruth of the information on the		//	
Notice	re and Application is in the	WEIL	11,	
and a	ce and Application is verified	OPERA	MEastern I	ntermountain Energy, In
aim si	sworn to and the Notice is		11/10/	10 1
in me	ed on behalf of the Well Operator	By	Your Start	& fellen
TI IIIY	County and State by	Its	1	
this	Gday of M	Addi	ress P.O. B	ox 902
Mr.	19day of Movember, 1983.	/		ton WV 26250
MA	commission expires March 1993	Tele	ephone	823-1746
	There Ellober			22/ = 140
Not	tary Public, Barbary County,			
	ate of //			

COAL OWNER'S COPY





1)	Date: No	vembe	er 18		, 1983
2)	Operator's Well No.	Rei	newal	1	
3)	API Well No.	47	001		1736
		State	Cour	nty	Permit

Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELLTY	PE: A	Oil	/ Gas	TX.					
	В	(If "Gas",	Production	X	/ Underground	d storage	/ Deep	_/ Shallow	v _ × /)
5) LOCATIO		Elevation: _			Watershed:		lley River		
	D	District:	Beline	ton Corp	County:	Barbour	Quadrangle:	Beling	ton 73
6) WELL OF	PERATOR	Pasta	rn Int	ermount			AGENT Geo	rge Wil	liams
Addres	s	20.	Box 90	2		Address		. Box 9	02
		Bolin	eton.	WY 26250			Bel:	ington,	WV 2625
8) OIL & GA	S INSPE	CTOR TO	BE NOTIFI	ED		9) DRILLING CO	ONTRACTOR:		
Name	h:11:	to Tra	C7			Name	nknown		
Addres	s	Plki	ne. WV			Address			
		Phone	636-8	798					
10) PROPOSE	ED WELL	WORK:		/ Drill	deeper	/ Redrill	/ Stimulate	XX,	
						orate new formation			
				sical change in w					
11) GEOLOG	ICAL TAI	RGET FOR	MATION,	Haverty	Sd.				
				5000		t			
				60,135		lt	feet.		
				lenown		oal being mined in the		/ No_	XX,
(5) CASING	AND TUB	BING PROC	GRAM				100		
CASING OR	H	SPEC	CIFICATIONS	11	FOOTAGE	INTERVALS	CEMENT FILL-UP	ll PAC	CKERS
TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in well	OR SACKS	, and	RERO
Conductor				Oscu		LOF+	(Cubic feet)	V. 1	
Fresh water	hat.	3/4			-40ft	- WIL		Kinds	
Coal									
Intermediate		1				10000		Sizes	
Production	8	5/8			1000ft	1000ft	to surface	00.00	
Tubing	42				5000ft	5000ft	back to 26	Depths set	
Liners									
Liners								Perforations:	
								Тор	Bottom
The undersign xamined this prodersigned has ne West Virgini.	ed coal op oposed we no objecti a Code an	The followho has redays of the eratorell location.	l operator, control of the by Code §22 by the Departure wing waiver recorded a determine of the line o	pal owner(s), and 2-4-3 must be filed the the complete claration under Ce Application. / owner p exists which cold to be done at those	coal lessee are d with the Depart of by the coal of Code §22-4-20, i WAIVER	perator and by any c f the permit is to be i / lessee The well location, the	in objection they wish in fifteen (15) days after oal owner or coal less saued within fifteen (1	er the receipt ee 5) al under this v	mine man The
CD.				7774616	7			1	
oate:			, 19			Ву		7	
						Its			

FORM IV-2(B) (Obverse) 7-83

SURFACE OWNER'S COPY



1) Da	te: Nove	mber 18	, 19_83
	erator's ll No.	Renewal :	1

County

3) API Well No. 47
State

Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TYP	PE: A O	il	/ Ga	IS XX						
,						Underground s	storage	/ Deep	_/ Shallow _	
5) LOCATION		vation:					Tygart Val	ley River		
	Dis			ton C	orro	County:		Quadrangle:	Belingto	n-7章
6) WELL OPE	ERATOR	acter	en Int	armon	mtair	Energy	7) DESIGNATED	AGENTGOOT	ze Willi	ama
Address		0	302 90	13		_	Address	PaUa	DOX YUE	
			ton		250			Beli	ngton, W	V 25250
8) OIL & GAS	STATE OF THE PARTY OF	COLUMN THE STATE					9) DRILLING CO	ONTRACTOR:		
Name 101			017				Name	nknown		
Address	e man reger beginning to		20 107	7			Address			
		bana	636	1708						
10) PROPOSE		BANKA WAR	Drill		Drill	deeper	/ Redrill	/ Stimulate	XX /	
U) PROPOSE	D WELL	WORK.					ate new formation			
11) GEOLOGI	CAL TAD	CET FOR	MATION	Have	artv	Sd.				
12) Estima	ted denth	of comple	ted well	5000		feet				
13) Approx				60.1	35	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	,	feet.		
13) Appro-	ximate trai	l seem do	ather Th	NAME OF TAXABLE PARTY.				e area? Yes	/ No	CX ,
				C. P. L. C. C.		15 00	ar ourig minou in the			
15) CASING A	IND TUB		CIFICATIONS	c	11	FOOTAGE	INTERVALS	1 CEMENT FILL-UP	PACKE	CRS
CASING OR TUBING TYPE		SPE	Weight	1 1			1	OR SACKS (Cubic feet)	The second	
	Size	Grade	per ft.	New U	Jsed	For drilling	Left in well	(Cubic feet)	Kinds	
Conductor	11 3	/				40£t	AUTT		Kinus	
Fresh water									S:	
Coal									Sizes	
Intermediate	0 5	/8				1000ft-	1000ft	o surface	C-24	
Production						5000ft	5000ft	hack to 200	Depths set	
Tubing	14.10								D. C. Linn	
Liners									Perforations:	Pottom
									Тор	Bottom
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 Janua Gram	
	The	law requi	res a comm	nent period	for surface	ce owners. How	ever, the permit can	be issued in less than luntary Statement of N	Objection"	
	the filing	of the Ap	plication if	the surfac	e owner(s)	Application.	s) the following vo.	functify blacement of the		
	on a facs	imile of t	nis surface	Owner's Co	opy of the	Application				
				VOLU	INTARY	STATEMENT	OF NO OBJECTIO	N		
										I have received
I hereby sta	ate that I h	ave read t	he instructi	ions to surf	ace owner	s on the reverse	side of this Applica	tion for a Well Work P	Form IV 2(R)	1 have received
copies of (1) a N	Jotice of A	pplication	for a Well	Work Per	mit on For	rm IV-2(A), (2)	an Application for a	Well Work Permit on	as described th	erein.
on Form IV-6,	other of A			clamation	Plan on F	orm IV-9, an I	or proposed wer we	ork on my surface land	nit being issued	hased on those
- 0 .1 .	1 / 11	Construct	ination to	the planner	work des	cribed in these	materials, and I have	ino objection to a peri		Duseu on mose
I further sta	1 / 11	Construction ave no ob	ojection to	the planned	d work des	scribed in these	materials, and I have	e no objection to a perr		oused on most
I further sta	1 / 11	Constructi ave no ob	ojection to t	the planned	d work des		materials, and I have	e no objection to a peri		
I further sta	and (4) a (ate that I h	ave no ob	ojection to t	the planned	l work des		or execution by natu	e no objection to a peri		
I further sta	and (4) a (ate that I h	ave no ob	ojection to t	the planned	work des		materials, and I have	e no objection to a peri		
I further sta	and (4) a (ate that I h	ave no ob	ojection to t	the planned	work des		materials, and I have	ral persons)	Date	
I further standard materials.	and (4) a (ate that I h	ave no ob	ojection to t	the planned	work des		materials, and I have	e no objection to a peri		
I further standard materials.	and (4) a (ate that I h	ave no ob	ojection to t	the planned	d work des		materials, and I have	ral persons)		

FORM IV-2(B) Reverse

INSTRUCTIONS TO SURFACE OWNERS EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Adminisatrator's office or an Oil and Gas Inspector to obtain a copy of the list.

Carroll Radabaugh gives permission for Crab Bottom Lumber Co., Inc. to drill a well within 200 feet of his property on Gall Street and Huff Street in Belington, WV.

James C. Radabangh

I, Alexa E. William a Notary Public in and for said County of Barbour, do certify That James Carroll Radataugh signed the writing above March 7, 1993.

STATE OF W. VA COUNTY OF Barbour.:
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) / (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) / (3) Plat showing the well location on Form IV-6, and (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)
all with respect to operator's Well Nolocated in
Crab Bollom Lunber.
on the 29 day of November, 1983 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual: [Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to
For a limited partnership: [] Handing it to the general partner, named , or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation: [] Handing it to the corporation's employee // officer // director // attorney in fact // named
(Signature of person executing service)
Taken, subscribed and sworn before me this $\frac{29}{9}$ day of $\frac{Navel}{1993}$.
Flora E. Williams

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

Legend: Property Boundry

Road = = = =

Existing Fence

Planned Fence

Stream

Open Ditch

Signatures

12cm

Diversion
Spring O
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.

PIT PROPOSED -WELL SITE TRAILER 150' ACCESS & Comments: Disturbed area to be kept to a minimum. Cut slopes to be 2:1. New culverts to be at natural drain areas or at 300' maximum spacing. 3) Ditches to be cut on uphill side of road where necessary. 4) Timber to be cut stacked, and burned. 5)

and the delimer sport retion to protect new or one for one growing season.

Augress

Phone Number

(01-80) Date August 18 :081
RECEIVED API No. 4? - Barbour - 1734-Ren. Tygart Valle Soft WEST VIRGINIA
Conservatiffustactof OLL AND CAS
Address P.O. Box 26 7 OTTIS Address P.O. Box 2683 Telephone Charleston. W. Va. 25330 Telephone Charleston, W. Va. 25330
Lendowner Crab Botton Lumber Co. Inc. Soil Cons. District Tygart Valley SCD
Revegetation to be carried out by Eastern Antermembrain Frerow Itd (Airn)
This plan has been reveived by Tygot Vallat scolall corrections and additions become a part of this plan. 11-5-131 Allay of fillings
Access Road Location
Structure 12" CMP culvert (A) Structure
Spacing one only Material
Page Ref. Manual I-8
Structure (2)
Page Ref. Manual Page Ref. Manual
Structure (C) Structure
Page Ref. Manual Page R
All structures should be inspected regularly and repaired if necessary 1 5 1982
Revegetation OIL AND GAS DIVISION WY DEPARTMENT OF MINES
Treatment Area I
or correct to ph 6.5
Fertilizer 600 lbs/acre Fertilizer 600 lbs/acre (10-20-20 or equivalent)
Mulch Hay 2 Tons/Acre Mulch Hay 2 Tons/Acre
Seed*Kentucky 31 40 lbs/acre Birdsfoot Trefoil 10 lbs/acre Ryegrass 10 lbs/acre Ryegrass 10 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 Belington, W. Va. 7.5'

Legend:

Dwell Site



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

Perforated Fox & Elk; (4855-4990) 14 holes, Frac with 500 gal., mod 202

100 sks. 80/100, 200 sks. 20/40, Avg psi 3000, Avg. rate 28

Perforated Elk: (4042-4220) 16 holes, Frac with 750 gal. 15% HCl, 150 sks. 80/100,

300 sks. 20/40, Avg. psi 2550, Avg rate 37 BPM

Perforated Benson & Riley: (3729-3818) 16 holes, Frac with 750 gal. 15% HCl, 150 sks. 80/100, 300 sks. 20/40

WELL LOG

ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
sd/sh	0	70	Formations
coal	70	74	Little Lime 1280
sd/sh	74	890	Dig Time 1325
RR	890	950	Elizabeth 2450 Balltown 2835
sd/sh	950	1280	Benson 3818
L-Lime	1280	1290	Haverty 4985
sh	1290	1325	
B-Lime	1325	1451	
Injun	1451	1574	The second part of the second
sh/sd/sh	1574	2230	market and the second
sd	2230	2248	Charles Carles Marketing at Charles
sh/sd/sh	2248	2857	in the same of the
	2857	2907	
sh sd/sh	2907	5325	The state of the s
		5325	The state of the s
TD	3.3		A CONTRACTOR OF THE CONTRACTOR
	apri.	580 13.	TRI Maga Grand State Sta
	, media	670,400	Paragraph of the state of the s
			+
and the state of t		914	TROUBLE H. FEMAL MAD UNITED
Storn March			Bas refalgree, to the
		300	TOTAL TOTAL PROPERTY OF THE PARTY.
The second of the second participation is a second			
			APMENT OF STREET
	10.70		The second secon

(Attach separate sheets as necessary)

ntermountain Energy Eastern

Regulation 2.02(i) provides as follows:

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

Date Feb.

IV-35 (Rev 8-81)

State of Mest Wirginia

Bepartment of Mines Gil und Gas Division

Date	Feb.	9, 1	984	
Opera	tor's		" 1	
Well	No		#1	
Farm	Crab B	ottom	Lumber	Co.
ADT N	lo /17	- 00	1 -	173/

WELL OPERATOR'S REPORT OF

			OI			
DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

	Tygart Vall	ey River		
District: Belington Bar	bour	Quadrangle	e Belingt	on
encireman ' ne				
- Very Law Committee Commi				
COMPANY Eastern Intermountain Energy				T = .
ADDRESS Box 902, Belington, WV 26250	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT George Williams	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Box 902, Belington, WV 26250	Size			
SURFACE OWNER Crab Bottom Lumber Co.	20-16 Cond.			
ADDRESS Kyser St., Belington, WV 26250	13-10"		200'	CTS
MINERAL RIGHTS OWNER Crab Bottom Lumber Co.				
ADDRESS Kyser St., Belington, WV 26250	9 5/8		1151'	CTS
OIL AND GAS INSPECTOR FOR THIS WORK Phil	8 5/8		11.71	O10
Tracy ADDRESS	7	-		
PERMIT ISSUED	5 1/2			
DRILLING COMMENCED 12/28/83	4 1/2		5070'	2920'
DRILLING COMPLETED 1/3/84	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Elk		Dep	th 5000	·feet
Depth of completed well 5326 feet	Rotary X	/ Cable	e Tools_	
Water strata depth: Fresh 15 feet;				
Coal seam depths: 70'-74'				area? No
OPEN FLOW DATA	7-		LL /OFF /	000 FL
Producing formation Fox-Elk				
Gas: Initial open flow show Mcf/d		The state of the s	-	
Final open flow 1,200 Mcf/d				
Time of open flow between ini				
Static rock pressure 1850 psig(surfa	ace measure	ment) afte	r ₈ hou	irs shut in
	on)			
(If applicable due to multiple completion	The state of the s	y zone dep	th 3729-	4220 feet
	Pa			
(If applicable due to multiple completion			flow	Bb1/d
(If applicable due to multiple completion Second producing formation Benson-Piley	Oil: In	itial open		

DEPARTMENT OF MINES



OIL & GAS DIVISION DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. <u>00/-17</u>	34		an in product a secure Astron	Oil o	r Gas Well
Company Existing	n Intermentain	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address		Size			
Farm Crab- Both	tom Lumber con	16	4.1%		Kind of Packer
Well No.	(14.16.87)	13	1 3 3	777.4	a service service.
Distric Belleyla	Cely County Bestan	2 81/4	1150	1150	300 Sheenuf
Drilling commenced	The second of th	65%	and the second second		Depth set
Drilling completed	Total depth 1605	5 3/16			
Date shot	Depth of shot	32			Perf. topPerf. bottom
Initial open flow	/10ths Water inI	nch Liners Used		- To	Perf. top
Open flow after tubing_	/10ths Merc. inIr	nch			Perf, bottom
Volume	Cu.	Ft. CASING CEME	NTED	SIZE	No. FTDat
Rock pressure	lbsh	rs. NAME OF SER	RVICE COMPA	NY	The second of th
Oil	bbls., 1st 24 h	rs. COAL WAS EN	COUNTERED	AT	FEETINCHE
Fresh water	feetfe	eetFEET_	INCH	ES	FEETINCHES
Salt water	feetfe	et FEET_	INCH	ES	FEETINCHES
Orillers' Names					3.41
Remarks:					

1-1-84 DATE Phillip Swell INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY	1.75		ADDRESS		1121	
FARM		DISTRIC	agreement of the second of			
gargary and	W 17 18 18 18 18 18 18 18 18 18 18 18 18 18			UNTY		
Filling Material Used						
Liner Loca	ition	Amount	Packer	Location	carriers on Free	
PLUGS USED AN	D DEPTH PLACED		BRIDGES		G AND T	IBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
	2811	1138	The second second	10.7		2001
	2 2 11					
				and the second second	ar sugar	manana yezak
			The state of the s	100 - may - 110 -	Anna Clar	angoar takén
	× 1, 4 × 1 × 1 × 1 × 1 × 1	election		v Christian		
The state of the s	a contra service of the service					
The second secon			Manage And March 2 And			
The second secon	process of the second second	(46)		a Property	w 12 - 19 - 1	200 m. 2 m.
		70.				9
ata la pierma la Martin						
			SV Everynamical Source			
A TOTAL SECTION OF THE SECTION OF TH	2.2.2.16.23					
And the second s						
rillers' Names	and the second of the second	I was a second		-		
emarks:	20808			and the second second		
and the second section of the second section sec						
The second secon			a second second second second second second second			
			and the second s			
			ve well on this date.			
	Annahar	-24 - 3 +1 1				

DISTRICT WELL INSPECTOR

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

INSPECTOR'S WELL REPORT

The state of the s	_
601 1961	
Permit No.001-1734	

Company Easter	Intermentain	CASING AND	USED IN DRILLING	LEFT IN	PA	CKERS
Address	the state of the s	Size				
Crah Sall	ton Lumber co	16		202 1	Kind of D	acker
A CONTRACT OF STREET	exa more compact compacts	13			Kind of P	acker
ell No.		10	e (-)	a-cili-a	Size of_	41.
strict Belington	Cife County Busham	81/4		 		
illing commenced		65%			Depth set.	
illing completed	Total depth 3320	5 3/16				
and the second second	and the second s	3	and the second s	, compared with the control of	Perf. top_	
te shot	Depth of shot	2	and the second		Perf. botto	om
tial open flow	/10ths Water inInch	Liners Used			Perf. top_	
en flow after tubing	/10ths Merc. inInch				Perf. botto	m
lume	Cu. Ft.	CASING CEMEN	TED	CIZE		
ck pressure	lbs,hrs.	NAME OF SERV			No. FT	Date
	bbls., 1st 24 hrs.	COAL WAS ENG	COUNTERED	T	DEDO	enginerasianos e
sh water	feetfeet	College Commence of the College College College			The latest the East of	
		FEET_	INCHE	S	FEET	INCHES
water	feetfeet	FEET_	INCHE	S	FEET	INCHES
lers' Names						
				ותו	3(6) []	VEM
arks: M. 5	320			- IN	2	- 5



OIL & GAS DIVISION

DEPT. of MINES

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

And the second s					II No	76
COMPANY			ADDRESS		Link	3 9 00
FARM		DISTRICT		OUNTY		-
Filling Material Used	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)					S
iner Lo	cation					and the second
		Amount	Packer	Location		
	AND DEPTH PLACED		BRIDGES	CASIN	G AND TO	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
					A Section	No see See
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					in Arrive	
			5. 20 32 E E Sugar	70		
			the same that th	3. 34 S. 35 Sames on	are a series print	-
			The state of the state of the state of	cations of the		
					gaa.;	68 1 58 54 5
	men, with the state of the state of		A Second			

			As required to the control of			10.00,10
		1				· · · · · · · · · · · · · · · · · · ·
			ten and a second a			
illers' Names						
	1 13/		The same of the sa			
marks:					,	
					-	
				0781		
BENESO TO						

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES



OIL & GAS DIVISION

INSPECTOR'S WELL REPORTPT. OF MINES

Permit No. 00/-173					or Gas Weil
Compan Eastern	Subremation	CASING AND TUBING	DWITTING ASED IN	LEFT IN WELL	PACKERS
Address.		Size			and the second s
Farm Crob Bolls	n Limber co.	16	i i i i i i i i i i i i i i i i i i i		Kind of Packer
Well No		13			
ristrict Belington	Cily County Barbour				Size of
Orilling commenced		6%			Depth set
Drilling completed	Total depth	5 3/16			
Pata shot	Depth of shot	G representation consistence of the construction of the constructi			Perf. bottom
nitial open flow	/10ths Water inInch	Liners Used		endina alikulistikka sepertina kunandahnyi terpahuna	Perf. top
pen flow after tubing	/10ths Merc. inInch	One constitution of the second control of the contr	THE SECTION CONTRACTOR CONTRACTOR THE CONTRACTOR CONTRA	n tid sekkerte fra krister kalender krister krister krister fra sekkerte fra sekkerte fra sekkerte fra sekkert Sekkerte fra sekkerte fra sekker	Perf. bottom
olume	Cu. Ft.	CASING CEMEN	TED	SIZE	No. FT.
ock prescure	lbshrs.	NAME OF SER			
	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED .	AT	FEETINCH
esh water	feet				FEET_INCH
lt water-					
rillers' Names	A STATE OF THE STA	o Africansko i Afrikas kozanda estatutusko o esta arasinda estatutusko estatutusko estatutusko estatutusko est	PROJEKTURE SERVICESKE ODBIODRAG BUTTERIA (SELECTION OF LA THE EQUIPMENT		
· · · · · · · · · · · · · · · · · · ·	2	Control Contro		AND AND THE SPECIAL PROPERTY AND	dental and the research of the control of the contr
marks: Checked	location with	George	Welle	vil	ANNELS SPECIMENT AND THE CONTRACT OF A SPECIMENT OF

Jul 12, 84

Allys Levey

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

MPANY	radiët pach in Chay radjoning is Auflie (Stockhautolog Stockhautolog), in die despesant is retigien wir outsteam	Openin major ganis mengar yake mikiper menganggan paga paga gani agan major paga paga paga paga paga paga paga	ADDRESS		III for a citizen den antennada inche an	
RM		DISTRICT	CC	UNTY		
ling Material Used						
	cation	Amount	Packer	Location		
	NO DEPTH PLACED		BRIDGES	CASIN		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	Los
		THE REPORT OF THE PROPERTY OF	and the second s		e a comprehensia de la comprehen	A KOOKITA KARALISTA SAGALIA KARALISTA SAGALI
на в наменя на «Монтов» и на на виду брам на ут со учени до институтори да до друго учени до на на на на на на						
					-	mendel fillen akenny vilostilan syameju jer kurisu s
	3					to-attickenselver (att hant tagen ket on 1,545 no.
	4		-			
						eth un'enthe selffer (propuese relative selfer to by systemate et
						Overhite equalities relating new process music
						*
	TETER A Artificing continue controller to the second controller controller and co		The supplies the place of the supplies of the	Proprietary and the American Control of the Control	AND THE PARTY OF T	TO THE RESIDENCE OF STREET
lers' Names		A CONTRACTOR OF THE CONTRACTOR	`			mener storrituden dicho-sirori di avada, so-
arks:	CONTROL AND STATE OF A CONTROL OF THE STATE			7. Transaction (1994)	-	

I hereby certify I visited the above well on this date.

DATE





DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of West Birginia

Bepartment of Mines Enby Gil and Gas Division

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 31. 1984

	May 31, 1984		
COMPANY	Eastern Intermountain Energy	PERMIT NO	001-1734 REN (12-05-83)
P. 0.	Box 902	FARM & WELL N	NO Crab Bottom Lumber #1
Belir	ngton, West Virginia 26250	DIST. & COUNT	TY Belington Corp./Barbour
			IN COMPLIANCE
RULE	DESCRIPTION		IN COMPLIANCE MES NO
23.06	Notification Prior to Starting Work	•	4
25.04	Prepared before Drilling to Prevent W	laste	
25.03	High-Pressure Drilling		-
16.01	Required Permits at Wellsite	-	2
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		L
15.01	Adequate Production Casing		1-
15.04	Adequate Cement Strenght		L
15.05	Cement Type	_	1-
23.02	Maintained Access Roads		1
25.01	Necessary Equipment to Prevent Waste		1-
23.04	Reclaimed Drilling Pits		1/
23.05	No Surface or Underground Pollution		1-
23.07	Requirements for Production & Gatheri	ng Pipelines	L
16.01	Well Records on Site		V
16.02	Well Records Filed		
7.05	Identification Markings		
I HAVE I	NSPECTED THE ABOVE CAPTIONED WELL AND	RECOMMEND THAT	IT BE RELEASED:
1		SIGNED (h)	wolf Elle
		DATE % -	7-85 61
Your wel	l record was received and reclamation	requirements ap	proved. In accordance
with Cha	pter 22, Article 4, Section 2, the abo	ve well will re	main under bond
coverage	for the life of the well.		
		11	1-16
		Administrator	-Oil & Gas Division
		August	22, 1985
		DA	

FERC-121

APR 6 100

FT7900806/2 2

		1984
1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-1734	OIL & GAS DIVISION
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	Devonian Shale Minimo
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)		feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Eastern Intermountain Energ Name Box 902 Street	Seller Code
অবচৰ হাদৰ		State Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) If Authors in Openius Mos is	County we will seave, while minimum, the man	State
(b) For OCS wells:	Area Name origing and and an area name origing and an area of Lease:	Block Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	Crab Bottom Lumber #1	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Too to me made
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name	Buyer Code
(b) Date of the contract:	Mo. Day	Yr.
(c) Estimated annual production:	65	MMcf.
	(a) Base Price (b) Tax	(c) All Other (d) Total of (a), Prices [Indicate (b) and (c)
7.0 Contract price: (As of filing date. Complete tp 3 decimal places.)	98 99 49 	
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		
9.0 Person responsible for this application:	George Williams	Agent
Agency Use Only	Name Mane	Title
APR 6 1982	Signature Cong Land	Chan
Date Received by FERC	Feb. 9, 1994 Date Application is Completed	823-1746 Phone Number

PARTICIPA	DATE: MAY -1 1984	BUYER-SELLER CO
WEI.L OI	PERATOR: Eastern Intermountain Energy	
FIRST I	PURCHASER:	-
OTHER:		
	Department of Mines, Oil & Gas Division LL DETERMINATION FILE NUMBER	
140	406 107 001 1734 APPROVED	
Uso Al	bove File Number on all Communications	
Rel	ating to Determination of this Well	
	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO	FERC -121 Items not completed - Line No	
	IV-1 Agent	
3.	IV-2 Well Permit	/
4.	IV-6 Well Plat	
5.	IV-35 Well Record Drilling Deepen:	100
6.	IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	Ratio
7.	IV-39 Annual Production years	
8.	IV-40 90 day Production Days off line:	
	IV-48 Application for certification. Complete?	
	IV Form 51 - 52 - 53 - 44 - 55 - 56 - 57 - 58 Complete?	Affidavit Signed
	Other: Survey Logs Geological Charts	
	Structure Map 1: 4000 Map Well 7	
(5)	Date commenced: Date completed Deep	nened
	Production Depth:	
	Production Formation:	
	Final Open Flow:	
	After Frac. R. P.	
	Other Gas Test:	
	Avg. Daily Gas from Annual Production:	
(8)	Avg. Daily Gas from 90-day ending w/1-120 days	
(8)	Line Pressure:	PSIG from Daily R
(5)	Oil Froduction: From Completion Report	
10-17.	Does lease inventory indicate enhanced recovery being done	
10-17.	Is affidavit signed?Notarized?	
Does of	ficial well record with the Department confirm the submitted information	tion
Additio	nal information Does computer program confirm?	
was Det	erination Objected toBy Whom?	

	*			
FORM IV-55WC			Date Feb. 9,	:= 84
[12-78]	STATE OF WES	ST VIRGINIA	2	
	DEPARTMENT OF MINES, C	OIL AND GAS DIVISION	Crab Botto	Lumber #
			API Vell 001 - 001 - Frate County	. 1734
			State County	fort.
	WELL CLASSIFIC	CATION FORM		
	HIGH COST GAS WELL -	DEVONIAN SHALE		
	NGPA Secti	lon 157		
		DESIGNATED AGENT	George Williams	
		ADDRESS	Box 902	
• •				5250
WELL OPERATOR FACTOR	n Intermountain Energy	y LOCATION Elevat:	ion 1710	
ADDRESS Box 90		Watershed Tyg		
The same of the sa	ton, WV 26250	Dist Belingto	n Barbour Guad	Belington
GAS PURCHASER	Market de un region de la compansa de la production de la compansa del compansa de la compansa de la compansa del compansa de la compansa del la compansa de	Gas Purchase		
ADDRESS_		Contract No.		
NDURE 33		Meter Chart Code Date of Contract		N.
	began: 12-28-83 le pressure of the well a	nd explain how this	was calculated	
	$Pf=Pw e^{xGLS} = 203$	6.85		
•	AFFI	DAVIT		
less than 0.7 if a Gamma R port described in subparag shale footage is equal to	ay log described subparagraph (raph (3)(ii)(B); I have demonst or less than five (5) percent or bed in the application which is	(3)(i) or (3)(ii)(A) has trated that the percentage	to law, state that, I have calcus indicated by a Gamma Ray ind been filed, or as indicated by see of potentially disqualifying interval; and I have no knowled the control of the control	ex of the re- non-
				,
TATE OF WEST VIRGINIA.				
OUNTY OF BOLL				

I. Hora E. William, a Notary Public in and for the state and county aforesaid do certify that Guy B. Foling, whose name is signed to the writing above, bearing date the 9 day of 9th., has acknowledged the same before me, in my county

Given under my hand and official seal this 9 day of 7el. 1988.

My term of office expires on the 7 day of March 1993

Flora & William

[NOTARIAL SEAL]

	DEPARTMENT OF MINES, OIL	AND CAS DIVISION	Operator's Co	rab Bottom Lumber #
			API Well	001 - 1734
•	· : : :		nu.	County Fermit
	STATE APPLICATION FOR LE	LL CLASSIFICATION	Previous File	
				(II Applicable)
TIL OPERATOR TO	Intermediate Energy	DESIGNATED AGENT	George Willaim	s
	11/11/11/11/11/11/11/11/11	ADDRESS	Box 902	Der Miller and Description of the Control of the Co
DDRESS Pox 90?		ADDICES	Belington, WV	26250
	on, WV 26250		, and the same of	
as Purchase Contract No.	and Dat	(Honth, day and	year)	
eter Chart Code				
ame of First Purchaser				
	(Street or P.	O. Box) .		
	(City) (State	(Zip Code)	
ERC Seller Code		FERC Buyer Code		
THE OF DETERMINATION BET	NG SOUGHT:		•	
	ation (See FERC Form 121.)	107	Devon	ian Shale
7 (2) Determination th	at increased production is t	he result of enhan	ced	
recovery technol	ogy. a seasonally affected well.	17		
] (3) Determination of		George Villian	Age	
	Na	me (Princ)	Do William	itle
	, si	gnarure	A Comment	
		/30x 902		
	St	Belington, WV	26250	
	C3		te (Zip Code)	
	(3	804) 823-1746		
		rea Phone Num	ber	
ertificate of Proof of	Service to Purchaser)			
effillence of floor of				
	•			
ll of the above to be c	ompleted by the Operator/App	licant)		
	dictional Agency. Executed	conv to be returne	d to Onerator/Ann	licant and
cchaser, if known).				
The Departm	ent of Mines has received a	request . for ce	rtification of th	e above described
ll as meeting the requi	rements of Section	ction is the resul	t of enhanced rec	overy technology
der Section 108 of (NGP	A): Of for determination	DI & SPASONALLY &	Trected well bitte	
All interested	parties are hereby notified Gas Division in Charleston.	West Virginia, or	as soon therealt	er as it may
heard, there will be a	public hearing, if requested	i, or if objection	is filed.	
	n is assigned File No.			
	of information submitted ind as claimed under the Natura			of this evidence
any additional eviden	ice will be made at the time.	appointed_for_a pu	blic hearing or a	s_soon.thereafter
the matter may be hear	d.			
Unless objection	ons are timely filed or a req be held except on ex parte m	quest for a hearing notion of the depar	ment and the mat	ter vill
to determination.				
	WES	ST VIRGINIA DEFARTS	ENT OF MINES	
		•		
A D I	R 61984 :		Diversit	7
AP	N U WWW.	Bv	/ An	10
received by		Title		:
isdictional Agency		11116		

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

FORM 1V-48UC [12-78] Date _ Feb. 9, _____ . 19 84

APPLICATION FOR DETERMINATION OF THE MARIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Eastern Intermountain Energy	Agent: George Williams
Type Determination being sought - 10	7 (Devonian Shale)
API Well No.: 47-001-1734	Well Name: Crab Bottom Lumber #1
West Virginia Office of Oil and Gas References: SJA File No.	County: Barbour

Vol. ___ Page ___ Line ___

- A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing $0.7\ x$ (Shale Base Line), (c) intervals with Gamma Ray units less than $0.7\ x$ (Shale I. NOTE: Base Line) and that log is included with this analysis.
- II. Gamma Ray elevation indices:
 - Shale Base Line (API Units)
 - GR Value at Base Line = 160 * API Units
 - Remarks:

Taken from 4250' to 4550'

- Gamma Ray Log Value at 0.7 \times Value at Base Line

 - GR Value = 160 * API Units Calculation: 0.7 (GR Value at Base Line) 0.7 (160 *) = 112 API Units
- II. Intervals with GR index less than 0.7 x (Value at Base Line):

Inter	val	Thickness	Feet of less than*
From	To***	of Interval Feet	0.7 (Shale Base Line) Feet
1854	2600 .	746	110
2600 .	3000	400	38
3000	4000	1000 .	. 0
4000	5000	1000	1
5000	5326	326	0
		•	

Total Devonial Interval 3472 otal Less Than 0.7 (Shale Base) 149

Less Than 0.7 (Shale Base Line) = $.04291 \times 100 = 4.291 \%$

*Marked on log included with analysis. *Top of Devonian Section Recorded on First Interval in this Column.
*Lesser of TD or juttom of Devonian Section Recorded as last Interval in this Column.

certify that	1000 11700	thom Tumby	0 1	County of Ke		,
		o the writing hereto and	nexed bearing di	. 10	Tuburan	, whose name
this da		e same before me, in m	17 0 - 40	one nistano	tern Interno	areal adir
Given under	my hand and office	cial seal, this /64	day of	Jahan hant to	wy	A. D., 192
		e de la completa del completa de la completa de la completa del completa de la completa del la completa de la c	of region of the	illion /	3 15 un	neth
commission	expires 6 Se	et 1988	Notary P	ublic in and for_	Manauta	to have been
2 - 3 - 3		No to the few editions.		ain	ant Vine	la ntare ha-
		7				
DADBOUR	COUNTY. W.V.	STATE OF WEST	VIRGINIA. C	County of Barbo	our, To-wit:	
FILED 0	R RECORDED		Propst, Clerk of	of the County C writing, with Ce	commission of said	County, do nnexed, was
0/25 BOOK 8	9 PAGE 626	Witness my hand.				
EE PAID	PROPEI	witness my nand.	Suma	D. Grope		
RK BARBOUR C	OUNTY COURT					1 10
		in the Later all			o ad ton their	
		s sing from to near odd	orad year inst	in anid oil or gan	royalty or interest	County, W
commission	expires	Clarks College and the bire	to	ala a a a a a a a a a a a a a a a a a a	have even that this	Provided,
	5.00	artin. Notober	na two	iw eastmann blea M 9910 i.	off no batalquan ad	Hade Hee one
		ounty,	e rentle 6	District,	of stick is they	dou Hill on
		o O	19		19 19	1 di en
ase	J	E X 7	10 CA2 C	The series	ttem Lumicen	los est
Lea	14t	s of the feducated eye. The second care for	no er	or V to the electry	oce gu 10 by: lou gu in ayi g ip	or such pur
and Gas Lease	MC 10 10	mpr tions ct les or	i islam ba. I	No other transport	of at y bring	net milly fre
9 P	FROM					
a l	en de la companya de La companya de la co	to the first of the control of the c	rodled	and sed to Allans The Sabrane sign	of saidn ve suito Imai fin d ac sin	is Ir imo oc If vier vran
5	ress	and the second s	l la va	and the state of	To your man a series as a seri	ng here u sh.
	Addr	4		1986.	d for R	ţ,
	P. 0.	State State	Date	Term Term	ner Pm Beco	
La Leigne	11.	o ri sed offi ov	Jon Mtiw.	ide lessor	xoad Spirox	Lessor
		ra wallowe bac		5 10 1991 5 10 .91 4	MISTINGEN	Trian Aug
	ST VIRGINIA,	prenius s	Troppy I'v	irketed	or when the the	digital hus
UNTY OF		, a Notary Public i		enfter be fully did tot.	et part & and there the toric content the foregroing content	ime to the fit ulfillment of t
andife that		Town A Notary Public 1	r terr inempets	narties to this many igns of the resp	ration; hatveen the	. whose name
certify that_		the writing hereto ann			ESS WHEREOF, T	
this day		same before me, in my	127638188			JO CONTRACT
		ial seal, this				A. D., 19

My commission expires ...

0-		17	34
	66		
BOOK 89 PAGE 626	V	A LATERITY OF	W TO STATE OF W
BOOK 89 PAGE 626 This Hease, Made and entered into this by and between Crab Bottom Lum	/6 day of	February	10 82
by and between Crab Bottom Lum	ber Inc. di	The court of the second	TO YTHUM)
ABox 155	Licentaldetanicaliductore.	dering to Brooken no.	7777777
Belington, WV 2	6250	Line L. Sant Tripper	
by and between Crab Bottom Lum Box 155 Belington, WV 2	1333 Jan	Same of the second of the second	
of the County of Barbour and Eastern Intermountain En	buring Land State of L.	West Virginia.	lessor
and Eastern Intermountain En	ergy Ltd.	, in garanta de la lessee	, WITNESSETH:
The lessor in consideration of Seven is hereby acknowledged, do hereby grant, dender the following described tract of land, and als	ty-five	dollar_S_paid by the lessee,	the receipt of which
is hereby acknowledged, dohereby grant, den	ise and let unto the lessee	the burness and with the evelue	head gas in and un-
and operating thereon for said oil and gas, together	er with the right of way, and	the right to lay pipes to convey	water, oil, steam, and
gas, and to have sufficient water and gas from necessary for conducting said operations, and the			
Lessee to pay a reasonable damage to growing	No second by	an property placed thereon by	ne lessee
All that certain tract of land situate in Ci	No. of the second	District. Barbour	trisely acourty.
and State of West Virginia			
		d described as follows, to-wit: er Addition to the (
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	scribed as follo	ows: Lots 2.44, 6, 8	10, of
*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1, 2, 3, 4, 5,	6, 7, 8, 9, 10, 11,	12, &
Anther West by right of Block 4			2 AO 1 4 AC 1(2.)
containing	Libratel substantial disvipant	12W. 0	CRES more or less
	200	<u> </u>	
but no wells are to be drilled within	200	feet of the dwelling h	ouse or barn now on
but no wells are to be drilled withinthe premises without the lessor's consent. To have and to hold the same unto the lessee said premises are being operated for the producti	for the term of NO Xees	onths from the date hereof and as	much longer as the
said premises are being operated for the producti	on of oil or gas, or as oil o	r gas is found in paying quantit	ies thereon, yielding
and paying to the lessorthe one-eighth ($\frac{1}{6}$) parof expense into tank or pipe line to the lessor's cr	rt or abare of all the oil cave	ed from that produced on the	
to justify marketing the same in Gas		pipe line, the lessor shall	he neid at the rate
to justify marketing the same inGas of one-eighth (%) of the market price for such monthly as marketed.	gas so long as the gas ther	refrom is conveyed and sold off the	ne premises, payable
Said lesseeshall not be required in any even	vent, to increase the rate of	f said gas well payments or sa	d royalty of oil be
reason of any royalty or interest in said oil or ga	s that may have been heret	ofore sold, reserved or conveyed	by said lessor or
	tspredecessors	s in title or otherwise.	notesimones yM
Provided, however, that this lease shall become	ne null and void and all the	e rights thereunder shall cease a	nd determine unless
one well shall be completed on the said premises we the lesseeshall pay at the rate ofmonths such completion is delayed from the time a	ithin 18 months	from the d	ate hereof, or unless
the lesseeshall pay at the rate of	hove mentioned for the com	Dollars in advance for e	ach additional three
All payments may be made direct to Cra	b Bottom Lumber,	Inc. or deposited to pro	duct is markete
credit in		9. 1	by check mailed to
Crab Bottom Lumber Incat Bel	ington	P. O. Barbour	(0)
State ofor in the same n for such purpose; and 10 days grace shall be	nanner to	who is here	by appointed Agent
for such purpose; and 10 days grace shall be	illowed on all payments th	at may become due under provis	ons of this lease.
If gas is found in paying quantities to the les	seeand conveyed from th	ne premises, the lessormay hav	A 80,000 feet of gas
annually, free of cost by laying the necessary lin	ne and making connections	at lessorcost at such point as	may be designated
			
economical appliances subject to the approval of	the legged a sold man to 1	the Moanston Mickey on said premis	l ver
economical appliances subject to the approval of the in any way liable for insufficient supply of gas ca	used by the use of pumping	stations, breakage of lines or oth	er causes, but noth-
ing herein shall prevent the lesseefrom aband	loning any well or wells and	d removing the pipe therefrom.	British in
The state of the s		and the second second	
	AL THE CONTRACT OF THE CONTRAC		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM
TEN CONTROL AND CONTROL OF THE TENT OF THE	w deamand-Less		and the same of th
Pipelines must be buried a			99 (m)
Lessor is to provide lessor	with notorized	affidavit granting	permission
to drill within 200 feet of a	ll neighbors dwe	ellings. Lessee shal	l not drill
any well within 1500 ft. of and gas or oil is marketed or	Lessors premise	iress and until a we	il is completed
and gas or oil is marketed or it is further agreed, that the second party si	iall, by paying all moneys	due, have the right to surrender	this grant at any
time to the first partand thereafter be fully d fulfillment of the foregoing contract.			
It is understood between the parties to this a	greement that all condition	ns between the parties hereunto	shall extend to the
nens, executors, successors and assigns of the res	pective parties.		1 18 111 1
IN WITNESS WHEREOF, The said parties	have hereunto set their hand		
Signed, sealed and delivered in the presence of	the state of the warrant of the state of	ds and seals the day and year fir	st above written.
		ds and seals the day and year fir	
D));;(C	ENGRAM		
REG	EINE Jamo	ds and seals the day and year fir	
NOV	EIVE Jamo	nd Sirkle Pars	12 A(11(SEAL)
	2-1-1983	nd Sirkle Pars	12.71d1(SEAL) (SEAL) (SEAL)
OIL & (2-1-4983 GAS DIVISION	nd Sirkli Pres	**************************************
OIL & (2-1-1983	nd Sirkli Pres	12.71(1(SEAL) (SEAL) (SEAL)



EASTERN INTERMOUNTAIN ENERGY INC.

OIL & GAS EXPLORATION

AND DEVELOPMENT

CRIM AV. BOX 902, BELINGTON, WV 26250 P.O. BOX 444, OLD GREENWICH, CT 06870

Crab Bottom Lumber Belington, WVa. 26250

November 15, 1983

Scholtes

Sincerel

Mr. Armond Zirkle, Enclosed is Eastern Intermountain Energy check of \$300.00 for additional three months on original lease as specified in the original lease.

PJS/few

RECEIVED

OIL & GAS DIVISION
DEPT. OF MINES

THIS WAIVER, Entered into this 24 day of March, 1982, by and between James Carroll Radabaugh, Single, and Eastern Inter-Mountain Energy, LTD. and Crab Bottom Lumber Company,

WHEREAS, Eastern intends to drill a gas well on property owned by Crab Bottom Lumber Company and there is a possibility that said well will be located within 200 feet of the residence owned by said Radabaugh, and the said Radabaugh desires to grant a Waiver of said limitation,

NOW THEREFORE, For and in consideration of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, the above Radabaugh does hereby waive the 200 foot limitation prescribed by law insofar as it concerns the drilling of said oil and gas well on property owned by Crab Bottom Lumber Co., Inc.; provided further that said well shall be drilled on property owned by the lumber company and not on the lot owned by Radabaugh, situate on Huff and Gall Streets, in the City of Belington, Barbour County, West Virginia.

WITNESS the following signature:

James Carroll Radabaugh

STATE OF WEST VIRGINIA, COUNTY OF BARBOUR,

SS:

The foregoing instrument was acknowledged before me this day of March, 1982, by James Carroll Radabaugh.

My commission expires 18 aug 1991

David & Brodley
NOTARY PUBLIC

3AP 1734 Consentived WiceO Fisch



EASTERN INTERMOUNTAIN ENERGY INC.

OIL & GAS EXPLORATION

AND DEVELOPMENT

CRIM AV. BOX 902, BELINGTON, WV 26250 P.O. BOX 444, OLD GREENWICH, CT 06870



DEPT. OF MINES

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

May 4, 1984

Attention: Mr. Patrick E. Lewis

Dear Mr. Lewis,

Enclosed are the two completed Well Records form (IV-35) which you returned to EIE for corrections per your request, dated April 23, 1984.

Regarding Form IV-36, our wells have not yet been connected to the transmission line. When this event occurs, EIE will file this form within the proper period.

Sincerely,

Paul J. Scholtes

President



EASTERN INTERMOUNTAIN ENERGY INC.

CRIMAY SON SON, BELIEF TON, SY RASHI

THE SHARE EXPLICATION

THE THE GREEN VIOLET CO.

8 3 1 1 1 1 1 1 1 1

The second

