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[08-7	•	0 15	OU .		WELL OPERAT	TOR'S REPO	RT 29			AND Z	107 0960
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ELL TYPE	PT	OF N	NES Gas	/ I.	iquid Injecti	on /	*1==*				
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CATION:	Eleva	tion: _	830		Watershed	: Branc	h Of St	illwell Cre	ek		
					_ County:	***************************************	HARMAN COLUMN TO THE OWNER OF THE OWNER	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT		b eth	
ELL OPERAT	or <u>Bl</u>	ue Sp	ruce Oi	.1 & Ga	as Associate	s pest	Tilent A	35::7 <u>J.&</u> E	Trans	771 8 1	
Addres	s <u>P.O.</u>	Box 5	003# Tr	enton	N.J. 08638			Pullman We			
	-		El (wilder action to your Esperature State of a contract of the contract of th	av entrementant fatalores				Phone 659	1000		
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Work wa	is comm	enced	4/24/	an and the second secon	. 19 9	O and	nined in	the area: _ a 4'30			80
		•		TOTAL TOTAL CONTRACTOR	**************************************	2 > 0.5 5 mg to	- ompacte	ROUND CONTRACTOR AND CONTRACTOR C		9	- Discontinue de la contraction de la contractio
CASING AND T											
CASING OR TUBING TYPE	Cira	13770	Weight	ons 1 1.	Foot Sed For dril	AGE INTER	VALS	CENEUT FILL		Ī.A.T	FEEC
aguetor	0		The second second			ling Left	<u>in well</u>	Cubic fee	- 1		
Fresh water	8 5/8	24	625	Х	269 1	20	691	To Surfac	-		100/05 Towns
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duction	44	R.2	10.50	X		2380) !	Appox 500'	Pi 1.	. 32 0. 5 6 5	
ing		<u> </u>	MATERIAL PROPERTY OF THE PROPE			238	30 '				
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And the second desired to the second desired			······································				THE REAL PROPERTY OF THE PROPE		558	,2287	
Annual Control of the		And the Control of th		COLUMN CO			and growth and we want to stand the transfer of the standard stand				tigi Terlight til de klemmen skill blemger med blev gjerne blev gjerne men
The transfer of the transfer o		anami (1) tabuman historian	A CANAL PRODUCE OF THE PARTY OF	teres and an interest of the same	A STATE OF THE PARTY OF THE PAR		or and the second second				
Produci:		ation_	Berea_					lay zone de		2 283 *	
Gas	: Ini	tial o	oen flo	w, Sh	OW Ncf/d	011:	Initial	open flow.	Show	W 51.75	***
	Fin	al one:	n flow,	(3	OH Merido		Final o	pen flow,	(10	E61/a	
		Time	of ope	n flow	between init	ial and	imal tes	ts, 30 ho	urr		
St	tic ro	ck pre:	ssure,	onesida in remedia (minhii linn	psig (surf	ace measu	cement)	arter	hours	shut ir.	
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Second p				elines men elitamini diperint dell'Althonio	www.monocontributeria.com.com.com.com.com.com.com.com.com.com			Pay zone de			
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					Mcf/d between init:					Eb1/1	
S:a	tio ro				_ psig (surfa					Shur ir	
			٠					etherical and a second		JU	IL 25 1980

8-78]

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

This we I was fractured with 600 bbls water & 30,000 lbs sand treated 21 1055 average psi. 500gal acid.

WELL LOG

FOR ATION	Color	liard or Soft	Z 9 Top Feet	Bottom	Including indication of all fresh
Surface	Top Soil	Soft		Feet	and sait water, coal, oil and jas
R. Rock.	Red	Soft	10.	40	
Wh. Slate	Wh.	Soft	401	90	이 그는 병이 되지 않는 생활을 당살하면 모든
Red Rock	Red	Soft	901	145	
Bk. Sla =	Bk.	Soft	145	200	
R.Rock	Red	Soft	500 4	310'	
Wh. Slate	Wh.	Soft	310*	360'	
Red Rock.	Red	Soft	360	4451	
Bk. Slate	Bk.	Soft	445	4651	
Sand	Wh.	Hard	465	475	
Red Rock.	Red	Soft	475	545	
Bk. Slate	Bk.	Soft	545	625	
Red Rock.	Red	Soft !	6251	680 '	The state of the s
Sand	Wh.	Hard	6801	720	
Bk. Slate	Ek.	Soft	7201	745	
Red Rock	Red	Soft	745	760	
Bk. Slate	Bk.	Soft	760	810	
Sand	Wh.	Hard	£10°	8951	The state of the s
Red Rock,	Red	Soft	895	10001	
Wh. Slat:	Wh.	Soft	1000	1030'	
Red Rock.	Red	Soft	1030	1080	
Bk, Slate	Bk.	Soft	1080	1100'	
Gy. Lime	Gy.	Hard	1100	1135	
Sand	Wh.	Hard	1135'	1165	
Wh. Slat:	Wh.	Soft	1165	12051	
Sand	Wh.	Hard	12051	13351	
Lime Shell's	Gy.	Hard	1335	1395	
Sand	Wh.	Hard	1395	1560	
Bk. Sla	Bk.	Soft	15601	1720	
Sand	Wh.	Hard	17201		Hole Full Of Water 1800' To 1890
Bk. Slate	Bk.	Soft	1900	2000	Trote rary or haver 1000 to 1990
Sand	Wh.	Hard	2000	2050	
Bk. Slat	Bk.	Soft	2050	2282	Top Of Barea Sand Show Of Oil
Sand BENEA	Wh.	Hard	22821	2286	Bottom Of Berea Sand
Bk. Slat	Bk.	Soft	22861	23801	T.D.

(Attach separate sheets to complete as necessiry)

Blue Spruce Oil & Gas Associates, Well Operator

By J. & E. Drilling & Dev. Co.

Regulation 2.02(i) provides as follows: NOTE:

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

FORM IV-		STATE OF WIDEPARTMENT OF MINES	EST VIRGINIA , OIL AND GAS DIVISION	Date: March 20th	10 80
[08-78]	,	- Carried	OIL AND GAS DIVISION	Operator's	
		OIL AND GAR WELL	PERMIT APPLICATION	Well No. No-2	
WELL TYPE:	Oil/ Gas _	/		API Well No. 47 -107	-0960
			und stance / -	eep/ Shallow	
LOCATION:	Elevation: 820	Watershed	: Stillwell Creek	eep/ Shallow	()
	District: Walker	County:	Wood Oust	rangle: Elizaberth	_
WELL OPERATO	p J.& W. Drillin	C 8 D	7000	rangle: <u>Elizaberth</u>	
Address	Post Office Box	E coca/	DESIGNATED AGENT	E.C. Currey In	
	Trenton N.J. 086		Addressp	nllman West Va. 26421	
•	2,000)0	-		
OIL & GAS ROYALTY OWNER	R Floyd J. Cale				
Address	Walker Rt #2			ne	
	11		Address		
Acreare	24&==				
	Floyd J. Cale		COAL OWNER(S) WIT	PRESCOSSI CHARTAI	
	Walker Rt. 2#		Name	NE COLOR	
	27		Address	L L	
Acresta	24 & 4		**************************************	MAR 2 1 1980	
FIELD SALE (1			Name	OIL & GAS DIVISION	
			Address .	EPT. OF MINES	
Address				1	The commitment of the control of the
				DECLARATION ON RECORD:	
-OIL & GAS INS	PECTOR TO BE NOTIFI	1770	Name		
Name Paul		עאַ	Address		Mariana
Address			***************************************		
	477–3660				
The	undersigned well o	perator is entitled	to operate for oil or	gas purposes at the above	
location under	a deed/ le	ase X / other co	ntract / dated A	ipril, 1979,	ve
undersigned we	ll operator from _	H.H.Elder		, 19 <u>79</u> ,	
[If said deed,	lease, or other co	ontract has been rec	orded:]		*
Recorded on M	ay 4th, 19_	79, in the office	of the flank of the a	ounty Commission of Wood	
		BOOK /21	at paire 674 A.	rower to the second	
PROPOSED V	WORK: Drill_X_/	Drill deeper /	Redrill / Fracture	e or stimulate/	Allewa:
	Plug off old	i formation /	Perforate new formation	or stimulate/	
	Other physic	cal change in well (specify)	on/ A selection of the selection of	
		, , , , , , , , , , , , , , , , , , , ,	specify)		· ·
	planned as	shown on the work of	order on the reverse s		Marie Control of the
The a	bove named coal op	erator coul owner/o	duer on the reverse s	side hereof.	
objection they	wish to make or ar	e required to make b	o, and coal lessee ar	re hereby notified that a	ny
of Mines within	fifteen (15) days	ofter the receipt	y code § 22-4-3 must	be filed with the Depart	ment
Copie	S of this Permit A	uplianting receipt o	f this Application by	the Department.	
by registered m	ail or delivered by	phileacion and the e	nclosed plat and recl	amation plan have been m	aileo
on or before the	e day of the mutat	y nand to the above	named coal operator,	coal owner(s), and coal	lespe-
Charleston, Wes	t Virginia	ng or delivery of th	is Permit Application	to the Department of Min	nes a:
	456427944494537AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				
PLEASE SUBMIT CO GEOPHYSICAL LOGS	OPIES OF ALL S DIRECTLY TO:				The second secon
WEST VIRGINTA OF		<u>.</u>	J.& E. Drilling & D.	OT	
	COMMISSION STREET RAST		We	ll Operator	
	25311	RIANKET BOND			

TELEPHONE: (304) 348-3092

BLANKET BOND

By E.C. Currey Jr.

Its algert Emory E, Euney D.

PROPOSED WORK ORDER

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

DRILLING CO	NTRACT	OR (IF	KNOWN)	a-outrouve	Not Kn	own			V/N	
				Addre	85			<u>.</u>		
								_		
GEOLOGICAL 1	TARGET	FORMAT	ION,		Berea				\$ ·	
Estimat	ed de	oth of	complet	ed we]	11, 2400	ſeet	Rota	ny X	Cable tools/	
Approxi	lmate ;	ater s	trata d	epths:	: Presh <u>Sur</u>	face feet;	salt.	feat	cable tools/	
Approxi	mate o	coal se	am dept	hs:	None	Is coal be	ing mined	in the area	17 Yes/ No	
CASING AND T				•						
CASING OR	n	SPEC								
TUBING TYPE	Size	용	محاسة ملياه		Mi	OTAGE INTERVA	LS CEM	ENT FILL-UP OR SACKS	PACKERS	
Conductor 5				1		AAAANS DELU I	II METTI (C.			
Fresh water	8"			X	250	250'	Fi	11 to sur	Kinds ace	
Coal				5-20					CA	
Intermediate	-								Sizes	
Production	43	200	10.50	X		2400'	F	ill Appox	400 ° Depths set	
Tubing									Depths Set	
Liners									Perforations:	
									Top Botton	
	<u>.</u>					10 D				
THIS PERM where a constant of the W. for drill operations to Deputy I	Tractured as a construction of the constructio	other other other or the nequire the product of the comme	(ii) a securit reclama the said by Co posed u securit the Form location i This p need by Gas Divis	bond in y allo tion reme well ode \$	in one of the pwed by Code required by 1, the fee 22-4-8a from the state of the sta	\$ 22-4-2, (i Code \$ 22-4-1 required by Con the owner of the word for art of the word connection the	ribed by R ii) Form J 2b and Reg ode § 2%-4f any water fracturing k for which herewith.	plat in the egulation V-9, "Recoloution 23, -12a, and or well or day or stimuth a permit	ne form prescribed 12, or in lieu amation Plan", , (iv) unless (v) if applicable, celling within lating a well is sought and	
The Or (is)	follow coal la to be	ving wa 288ee u i88ued	iver mi Tho has Within	ist be record fifte	en (15) day	by the coal of ration under (s of receipt t	perator and code § 22-4 thereof:	d by any co 1-20, if th	al owner e permit	
The	unders	signed	coal or	erato		V E R				
ne work prope	, the w	Aell lo	cation	has be	en added to	wher / 1 If a mine map the mine map ovided, the we and the gover	The und	ersigned h	oal under this well rs the area of the as no objection to lied with all	
		·			• -				No.	

By ____ Its __