





# DIVISION OF OIL & GAS State of Mest Hirginian DEPARTMENT OF ENERGY Bepartment of Mines Gil und Cas Bivision

Date August 2, 1985							
Operator's							
Well No	Well No. Hively #1						
Farm	Roy Hively						
API No.	47 - 039 -	4202					

#### WELL OPERATOR'S REPORT

OF

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

VEIL TYPE: Oil $\underline{x}$ / Gas $\underline{x}$ / Liquid Injection (If "Gas," Production $\underline{x}$ / Underground	/ Waste nd Storage	e Disposal e/ Deep	/ / Sha	110w_X_/)
OCATION: Elevation: 1.063 Watershed Bi	a Fork of	Little Sa	ndv Creek	
District: Big Sandy County Kanaw				
			,	
COMPANY Key Oil Company				
ADDRESS P. O. Box 729, Spencer, WV 25276	Casing	Used in	Teft	Cement
DESIGNATED AGENT Barry K. Lay	Casing Tubing	1		fill up Cu. ft.
ADDRESS P.O. Box 729, Spencer, WV 25276	Size			
SURFACE OWNER Roy Hively	20-16 Cond.			
ADDRESS 866 Wills Creek Rd., Elkview, WV 25071	13-10"			
MINERAL RIGHTS OWNER Roy Hively	9 5/8			
ADDRESS 866 Wills Creek Rd., Elkview, WV 25071	8 5/8	469	469	119 sks
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Carlos Hively ADDRESS 223 Pinch Ridge Rd, Elkview	5 1/2			
PERMIT ISSUED July 3, 1985	4 1/2	2125	2125	212 sks
DRILLING COMMENCED July 12, 1985	3			
DRILLING COMPLETED July 16, 1985	2		2080	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners useđ		·	
GEOLOGICAL TARGET FORMATION Big Injun		Der	oth 2050	o feet
Depth of completed well 2160 feet	Rotary X	/ Cab	le Tools	
Water strata depth: Fresh 40 feet;				
Coal seam depths: N/A				e area? no
	•	· <b>3</b>		<del></del>
OPEN FLOW DATA	<b>n</b> -	a.	<b>5-b</b> 2222	and foot
Producing formation Big Injun	Pa	y zone dej	51 <u>2022</u> -	0 Bb1/d
Gas: Initial open flow 0 Mcf/d	011: 10	nal open	flav.	2/0 Bb1/d
Final open flow 30 Mcf/d				
Time of open flow between init				
Static rock pressure 325 psig(surface		ateric, aro	CI_40_1k	,013 3.100 2.
(If applicable due to multiple completion		av zone de	nth	· feet
Second producing formation	F	nitial one	n flow	Bb1/d
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between ini Static rock pressurepsig(surface				
Static rock pressurepary(surface	C Measure			TUCT 25 Se
		101		namanca craa

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

Perforated from 2026 to 2061 with 30 - 0.49" holes
Stimulated with 250 gal. 15% HCl Acid
396 bbls. water with 16,000 lb. 10/20 sand

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
Soil	0	14	
Shale	14	116	Fresh water 40'
Sandstone	116	140	
Shale and sandstone stringers		602	
Sandstone	602	742	
Shale	742	856	
Sandstone	856	968	Show salt water
Shale and sandstone stringers		1350	
lst salt sand	1350	1490	
Shale	1490	1538	
2nd salt sand	1538	1706	
Shale	1706	1740	
3rd salt sand	1740	1830	
Shale	1830	1880	
Big Lime	1880	2022	Show oil - 1910
Big Injun Ger	2022	2074	Show oil - 20222045
Shale	2074	TD	
Share		TD 2160	
		102100	
			•

(Attach separate sheets as necessary)

•	KEY OI	L COMPANY		
Well O	perator			
By: By	m	Lan	Barry K. Lay	
Date:	August	2, 1985		
-	$\overline{}$			

Note: Regulation 2.02(i) provides as follows:

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

PORM IV-2(B)	FI	LE COPY	
(Obverse)		and the	D
1/6			
27	JUL	3 <b>1985</b>	



Date: July 1	19	, 85
--------------	----	------

2) Operator's HIVELY #1

1)

3) API Well No. \_47 -039-4202

State County Permit

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

c	iL & GAS	DIVIS	ION	A	PPLICA	TION FOR A WI	ELL WORK PERMI	Ţ			
4) WEDGE				in c	,						
			Production		$\overline{\mathbf{x}}$	/ Undergroup	d storage	/ Deep	/ Challa		^
5) LOCATIO	,	vation:		063		Watershed:	Big Fork	of Little	_/ Snailo Sandy	w Creek	/)
		trict:	Bia		ly	County:	Kanawha	Quadrangle:			
) WELL OF	ERATOR_	Key	Oil	Camp	any	(475)	7) DESIGNATE	DAGENT Barr	y Lay		
Addres	s <u>P</u>	.O. I	30x 7	29		· · · · · · · · · · · · · · · · · · ·	Address	P.O. Box	729		
	S	pence	er. W	V 25	2766	25-65-0		Spencer,		276	
OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED	~ .		9) DRILLING C	CONTRACTOR:			
Name	Ròdney	<u>Qi1:</u>	Lon	(	CAR	clos ,	Name	Unknown			
Addres	s 🐙	·0.	36x\7		/	HIVELY	Address				
	W	<u>il/1</u> 2	msto	WIR.	WV 2	6187					
) PROPOSI	ED WELL V	VORK:	Drill	<u>X</u>	Drii	ll deeper	/ Redrill	/ Stimulate	X /		
	•		Pfug o	ff old	formatic		orate new formation		<del></del> /		
						in well (specify)		<del></del>			
) GEOLOG	ICAL TAR	GET FOR					5)				
12) Estim	ated depth o	f complet	ed well,		2,40	0 fee	t				
	oximate trata						dt. 600	feet.			
	ximate coal					Is o	coal being mined in th	e area? Yes	/ No	X	,
CASING .	AND TUBI	NG PRO	GRAM					,			
CASING OR	H	SPEC	CIFICATION	s		FOOTAGE	E INTERVALS	CEMENT FILL-UP	Î PA	CKERS	
UBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS	l	CALING	
nductor	11.75		38	1	X	30	0	(Cubic feet)	W:- 4.		
sh water	8 5/8		23	х		475'	475'	135 sks.(	Kinds	<del>             \</del>	7.
al						1	1,3	233 815.		by ru	M.
ermediate	1	****	<b>†</b>	<u> </u>	<b> </b>				Sizes		
oduction	4.5	ıΤ	9.5	Y		2400'	2400'	250 sks.	Danah		
bing				1		2.100	2400	230 SRS.	Depths set		
ners									Perforations:		
										D	
									Тор	Bottom	
					1						
			1	•	<b>-</b>	<u> </u>		_11	d		
			,			OFFICE USE	ONLY				
						DRILLING P					
	47-0	39-42	0.2		*				71 2		0.5
mit number_	<del></del>	37 42				-			July 3	19	85
is <b>narmit</b> aan		11		11.	,			Date			
irements subi	ect to the co	nditions	or and well	ii iocatio herein s	on snow and on the	n below is evidence he reverse hereof	of permission grant	ed to drill in accordangiven to the District Oi	ce with the p	ertinent lega	l re-
v. <i>8) Pr</i> ior to	tne construc	uon of re	Dads, loca	tions an	id bits fo	r any permitted wo	ork in addition, the w	ell operator or his conf	ractor shall	spector, (Ket notify the pr	er to oper
trict oil and g	as inspector	24 hours	before a	ctual pe	rmitted	work has commend	ced.)	•		, , , , , , , , , , , , , , , , , , ,	
e permitted w	ork is as de	scribed in	the Notic	e and A	pplicati	on, plat, and reclar	nation plan, subject i	to any modifications ar	nd conditions	specified or	the
erse hereot.		3, 19									
mit expires	July	J, 1				unless we	ell work is commenced	prior to that date and	prosecuted w	ith due dilige	nce.
Bond:	L/Agent	:   1	Plat:	Casin	ng	Fee					
	413	1	~ N	h	113	244	1 0				
	Nall	$\bot I$	IM	''	<del>ر</del> رہ	~//	WI.		, , 1		
							// / W	garet		Su	
ITE: Vaar -	ne com: -f	thia +	is ======		_:11: 1		Adm	inistrator, Office of O	l and Gas		
TE: Keep o	me copy of	uns perm	n posted a	at the d	runng lo	cation.		/		F	ile
								<i></i>		1	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

<b>Y</b>					
Page	₫ of 4		1	) [	Date:April 26, 1990
	WW2-A				perator's well number
(09/				_	PRICHARD & ROBSON NO. 50
File	Сору		. 3	) 1	API Well No: 47 - 039 - 4204 - FR
					State - County - Permit
			STATE OF WE	ን ጥድና	VIRGINIA RECEIVED
		DEPART			SION OF OIL AND GAS
					APR 30
,		NOTICE	AND APPLICATION	1 FOF	APR 30 1990  R A WELL WORK PERMIT  SO (2) COOL CROSSES
4)	Surface O	wner(s)	to be served:	5	(a) Coal Operator:
	(a) Name	Eastern	Associated Coal		Name
	Address _	P.O. Bo	x 70	_	Address
			, W. Va. 25801		
	(b) Name			_ (	b) Coal Owner(s) with Declaration
	Address _	<del></del>		- ,	Jame H. A. Robson, Trust
	(a) Name				Address c/o O. Jennings Rife et.al.
	Address				P.O. Box 542, Huntington, WV 25710
	Address				Jame Frank Gaddy, Agt. Address 945 - 4th Avenue, Suite 300
					Huntington, WV 25701
6)	Inspector	Carlo	s Hively		c) Coal Lessee with Declaration
•	Address	223 P	os Hively Pinch Ridge Rd.	_	lame
		Elkvi	lew, WV 25071		ddress
	Telephone	(304)-	965-6069		
	•	TO THE I	PERSON(S) NAMED	ABOV	E TAKE NOTICE THAT:
			_		
	Included	is the ]	lease or leases	or c	ther continuing contract or
cont:	racts by w.	nich 1 i	nold the right t	o ex	tract oil and gas <u>OR</u>
Sect	included	is the :	information requ	iired	by Chapter 22B, Article 1,
SECL	T certify	that a	ode of West Virg	ginia	(see page 2) pter 22B of the <u>West Virginia Code</u>
Tha	ve served :	cnat as	of this notice :	nd =	pplication, a location plat, and
acco	mpanving d	ocuments	s pages 1 throug	sh 4	on the above named parties, by:
	Pers	onal Ser	rvice (Affidavit	- att	on the above hamed parties, by:
					al receipt attached)
	Publ	ication	(Notice of Publ	icat	ion attached)
	I have rea	ad and u	inderstand Chapt	er 2	2B and 38 CSR 11-18, and I agree
to the	he terms a	nd condi	itions of any pe	ermit	issued under this application.
	I certify	under p	penalty of law t	hat	I have personally examined and am
famı.	liar with	the info	ormation submitt	ed o	n this application form and all
atta	enments, a	nd that	based on my inc	luiry	of those individuals immediately
ic	onsible for	r obtair	ling the informa	tion	, I believe that the information
IS C.			i complete.	:: ~ ~ ~	t nonalties for submitting false
info	rmation i	e that d	the possibilit	.ican	t penalties for submitting false fine and imprisonment.
		•••••	Well Operato	.y or	Pennzoil Products Company
VEFT .	OFFICIAL S		By: Court		
	NOTARY PU STATE OF WEST				gineering Tech.
第三次)	JOYCE M. B	OARD			ox 5519
	P.O.Box 5 Vienna, West Virgi				. W. Va. 26105-5519
	y Commission Expire	s Oct. 24, 1999	Telephone	304-4	22-6565
eda B~	riped aud	SWOIN	efore me this _	26th	day of, 19_90
(,	hi In 1	R. n			
<del></del>	super///	mard		100	Notary Public
My &	ommission (	expires	OCTOBER 24,	1999	/

16

FORM WW-2B

# STATE OF WEST VIRGINIA EXPLICATION Page 3 of 4 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Op	erator:_	Pennzoil	Products Con	pany 3745	0 (2) 2	284
2) Operato	r's Well	Number:_	PRICHARD-R	OBSON NO. 50	3) E	levation: 172
			or Ga			
	(b)	If Gas:	Productio Dee	n/ Underg	ground Stora Shall	ge/ ow/
5) Propose	d Target	Formatio	n(s):We	ir 387		
6) Propose	d Total I	Depth:	5245	feet	REC	EIVED
			strata dep			0 1990
			epths:			ENERGY
			oths:			
					ive mine? V	es/ No_X
12)					MacHad	mossell .
		CASIN	IG AND TUB	NG PROGRAM	Much	
TYPE	s I	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
resh Water	9-5/8"		·	1472	1472	450 Sks. Existing
Coal				1	1 tus	
ntermediate	7''			2800	2800	175 Sks. Existing
roduction	4-1/2"			5200	5200	250 Sks. Existing
ubing					July 1200	
iners				MOMINY		
ACKERS : Kin						
	es ths set _					
19	F	Divisor	n of Oil a	nd GasyUse	Only	- Ch

Reclamation Fund