



Sinte of Mest Nirginia

Bepartment of Mines Gil und Cas Bivision

Date	July 11, 1985	
Operato Well No		
Farm	Haislip est.	
API NO	.47 -091 -	0494

OIL & GAS DIVISION DEPT. OF MINES

WELL OPERATOR'S REPORT DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

CATION: Elevation: 1640 Watershed_	Frog Run			and the second s
District: Knottsville County Tay	lor	Quadrangle	Thornton]
MPANY J&J Enterprises, Inc.				Cement
DRESS P.O. Box 48, Buckhannon, WV 26201	Caşing	Used in		fill up
SIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	Cu. It.
DRESS P.O. Box 48, Buckhannon, WV 26201	Size			
RFACE CWNER Charles Haislip, et ux	20-16 Cond.			
DRESS 1836 Locust Ave., Fairmont, WV 26554	13-10"			
NERAL RIGHTS OWNER Charks, Bruce Haislip,	9 5/8	32	0	0 sks.
DRESS Nancy Craig	8 5/8	1193.60	1193.60	300 sks.
L AND GAS INSPECTOR FOR THIS WORK Donald	7			
ADDRESS acod duck Apple Lane	5 1/2			
EMIT ISSUED 5/22/85 Fairmont, WV 26554	4 1/2	5312.95	5312.95	500 sks.
RILLING COMMENCED 6/14/85	3			
RTILLING COMPLETED 6/12/85	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON				
ONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
EWORKING. VERBAL PERMISSION OBTAINED	used			
N		Dei	o th 5840-	₋₉₀ fee
EOLOGICAL TARGET FORMATION Haverty	Potari			
Depth of completed well 5999 feet	cole	fee	- -	
Water strata depth: Fresh 800 1100 feet;	Sait_	l boing mi	ned in th	ne area?
Coal seam depths: 135-37, 530-34	_ IS COA	T DETTIG HE		
PEN FLOW DATA				
Producing formation Benson	P	ay zone de	pth_4547	_51fee
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	n flow	BbL
Combined Final open flow 730 Mcf/d	F	inal open	flow	Bbl.
Time of open flow between in	itial and	final test	s4	hours
Static rock pressure 1675 psig(surf	ace measui	rement) aft	er ⁹⁶ h	ours shut
Static rock pressure 10/3 psig(sur)	on)			
irs applicable due to multiple completion			epth 517	1-74 fe
its applicable due to multiple completion	1	ray zone or		
(If applicable due to multiple completion 3rd. ELk]	Pay Zone of Initial op	en flow_	Bbl
(If applicable due to multiple completion Second producing formation 3rd. ELk Gas: Initial open flow Mcf/d	Oil:	Initial op	su itom_	
(If applicable due to multiple completion 3rd. ELk	Oil:	Initial ope Final open	flow	Bbl

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

Benson: Perforations: 4547-51 (16 holes)

Fracturing: 450 sks. 20/40 sand: 1500 gal. acid: 522 Bbls. fluid.

3rd Elk: Perforations: 5171-74 (12 holes)

Fracturing: 360 sks. 20/40 sand: 382 Bbls. fluid.; Foam frac.

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (0.0075 \times 5313) + 459.7 = 560 \times \overline{53.35 \times 560} = 29876 0.000033$ Pf= 1675 x 2.72

 $(0.000033)(0.619)(4861)(0.9) = 1675 \times 2.72^{0.09} = 1675 \times 1.09$

Pf = 1826 psi

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - Ground Level Soil & shale Sand & shale Coal Sand & shale Lime Sand & shale Benson Sand & shale Sand & shale Sand & shale Sand & shale	0 10 30 135 137 260 530 534 720 910 1120 1200 1350 1480 1590 2505 2619 4547 4751 5171 5174 5840 5890	10 30 135 137 260 530 534 720 910 1120 1200 1350 1480 1590 2505 2619 4547 4751 5171 5174 5840 5890 5999 T.D. Brailier	

(Attach separate sheets as necessary)

J&J Enterprises, Inc. Robert Dahlin-Geologist 7/11/85 Date:

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 earl, encountered in the drilling of a well."





)	Date: May 15	19_85
	O	

Permit

2) Operator's Well No. J 1217

3) API Well No. 47 091 -049
State County

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

OIL & GAS DIVISION DEPT. OF MINES

APPLICATION FOR A WELL WORK PERMIT

4) WELL T	YPE: A C)il	/ G:		/				
		f "Gas",			· /			/ Deep	\bot Shallow X
5) LOCATI		vation:					Frog Run		
		strict:K				County:T	•		Thornton
6) WELL O					es, I	nc	7) DESIGNATE		ard Reddecliff
Addre	ess		30x 48			24150	Address		ox 48
	***************************************		thanno	-	V 26	20]		Buck	<u> hannon, WV 26</u> 2
8) OIL & G				FIED			9) DRILLING C		
. —	Donal						Name <u>SW</u>	Jack Drill	ing Co.
Addre					ane	-	Address	PO Box 48	-
	⊬a.i	rmont	-						n, WV 26201
10) PROPOS	SED WELL	WORK:	Drill_2		Drill			/ Stimulate	<u>X</u> /
							ate new formation		
11) GEOLOG									
	nated depth					feet	_		
.13) App	roximate trat	a depths:	Fresh, _	65				feet.	
				J to	450	ls coa	al being mined in th	e area? Yes	/ NoXX/
15) CASING	AND TUB	NG PRO	GRAM						
CASING OR TUBING TYPE		SPEC	IFICATION:	s		FOOTAGE II	NTERVALS	CEMENT FILL-UP	PACKERS
TCDING TITE	Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor		H-40	42	X		30	0	0 sks	Kinds
Fresh water		ERW	23	X		1140	1140	to surface	neat
Coal	8:5/8	ERW	23	X		1140	1140	to surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.	5 X		5950	5950	450 sks	Depute guired by
Tubing									Rule 15.01
Liners									Perforations:
									Top Bottom
		·					***************************************	****	
						FFICE USE C			
					Dl	RILLING PE	RMIT		
Permit number	47-	-091-04	494						May 22 19 85
	***************************************		1.2.1				***** · · · · · · · · · · · · · · · · ·	Date	2
This permit co	vering the w	ell operato	or and wel	ll location	shown be	elow is evidence o	of permission grant		ce with the pertinent legal re-
quirements sub	oject to the c	onditions (contained	herein an	d on the re	everse hereof. No	tification must be g	iven to the District Oil	and Gas Inspector, (Refer to
No. 8) Prior to	the construc	tion of ro	ads, locati s before a	ions and p	pits for any	y permitted work. k has commenced	In addition, the w	vell operator or his con	tractor shall notify the proper
i ne permitted reverse hereof.	work is as d	escribed in	the Notic	e and Ap	plication,	plat, and reclama	ition plan, subject	to any modifications ar	nd conditions specified on the
Permit expires	1.0	7 22, 1	1987			unless well	work is commenced	d prior to that date and	prosecuted with due diligence.
z erini enpires	***************************************					diness wen	work is commenced	i prior to that date and	prosecuted with que diffgence.
D	1/2 .								
Bond:	Ager	it:]	Plat:	Casing	F	ee	1		
82	A/13	1	MU	MX	1 196	6	$\mathcal{N}I$. 1	. 1
\$	1			- "!			1 Pm.	agret)	Llano
						<u></u>	Adir	nistrator, Office of O	il and Gas
NOTE: Keep	one copy of	this perm	it posted	at the dri	lling locati	on.	7	1	
									File
		See	the revers	e side of	the APPL	ICANT'S COPY	for instructions to	the well operator.	