



## JUL 1 8 385 OIL & GAS DIVISION

DEPT. OF MINES

ST. Hart	

## State of Mest Nieginia

DEPARTMENT OF ENERGY Gil und Gas Bivision

Date_	7-12-85
Opera	
Well	No. 1
Farm	Ingraham Heirs
_	6. 47 - 107 - 1307

WELL OPERATOR'S REPORT

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

WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production / Undergroun	<b>A</b> 0001091		/ / Shal	llow/)
LOCATION: Elevation: 685 KB Watershed Ca	arpenter	Run		
District: Union County Wood	d (	Quadrangle	Valley	Mill
COMPANY Carl Heinrich				Cement
ADDRESS Box 305, Reno, OH 45773	Casing	Used in		fill up
DESIGNATED AGENT John S. Bailey	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 601 Avery St., Parkersburg, WV	Size			
SURFACE OWNER L. Brookover 26102	20-16 Cond.			
ADDRESS Williamstown, WV	13-10"			
MINERAL RIGHTS OWNER Melvin Ingraham Heirs	9 5/8			
ADDRESS Loveland, Colorado	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Glen	7	161'	161'	27sks
Robinson ADDRESS Mineral Wells	5 1/2	'		
PERMIT ISSUED 3-12-84	4 1/2	2406'	2406'	
DRILLING COMMENCED 4-3-84	3			
DRILLING COMPLETED 4-11-84	2			
TE ADDITIONE: PLUGGING OF DRY HOLE ON				
CONTINUES PROGRESSION FROM DRILLING OR	Liners used			
REWORKING. VERBAL PERMISSION OBTAINED	user			
ON Devenien Shale		De	pth 24	<sub>06</sub> , feet
GEOLOGICAL TARGET FORMATION Devonian Shale	Potary			
Depth of completed well 2406 feet	Colt 1	in fee	<u>-</u>	*
Water strata depth: Fresh None feet;	Sait	l boing mi	ned in th	he area? <u>No</u>
Coal seam depths: None	_ 1s coa.	r bernd un	1164 11. 4	.c .c
OPEN FLOW DATA			199	2 - 1996
producing formation Berea & Devonian	Sh. P	ay zone de	pth_235	42360 <sup>feet</sup>
rinal open flow (16) Mcf/d	F	inal open	ilow	0
mime of open flow between ini	itial and	final test	ts1_	hours
Static rock pressure 520 psig(surfa	ace measur	ment) af	ter 90+h	ours shut i
(TC lingble due to multiple completion	on)			
gamed newtycing formation	I	Pay zone d	epth	fee
con Initial open flow Mcf/d	OIT:	micrar of	G1 1104	
-: .3	Oil:	Final oper	I ITOM	
Time of open flow between in	itial and	final tes	sts	hours 🖖
Static rock pressurepsig(surfa	ace measur	ement) aft	er	hours shut
Static rock pressurepsig(sure				
		(Cor	itirue on	reverse sid

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

Peforated: 1992 - 1996' (16 holes) and 2352 - 2360 (20 holes)

Fraced: 381 bbl wtr. 756 MSCF of  $N_2$  and 70,000# sand (2 stage foam fraction)

#### WELL LOG

	•				
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas		
Shale and red rock	0	440			
Sand	440	456			
Shale	456	758			
Sand (Cow Run)	758	780	Oil show		
Shale	780	860			
Sand	860	910			
Shale and slate	910	940			
Sand	940	965			
Shale	965	994			
Sand	994	1034			
Shale	1034	1074			
Sand and shale	1074	1140			
Shale	1140	1190			
Sand	1190	1225			
Shale	1225	1345			
Sand	1345	1460			
Shale	1460	1514			
Sand	1514	1620			
Shale	1620	1964			
Coffee Shale	1964	1990			
Berea	1990	1994			
Shale	1994	2338			
Sandy shale (Gordon)	2338	2366	Oil and gas show		
Shale	2366	T.D.	<i>₹</i>		
T.D. Up, Dew va	diff @ T.D.	2406			

(Attach separate sheets as necessary)

WELL OPERAGE

By: Date: 12 Jul 85

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 in all, encountered in the drilling of a well."



I)	Date: Fe	bruary	27,	, 19	84
2)	Operator's Well No	1	107		
3)	API Well No.	47 _	107 -	1307	
	*	State	Count	у	Permit

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

#### APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il <u>X</u>	/ G	as			in the second se			
	В (І	f "Gas",	Productio	n		/ Underground	storage	/ Deep	_/ Shallow	_/)
5) LOCATIO	N: Ele	vation: _	680	1		Watershed: _				-
	Dis	trict:	Uni	on		County:	Wood	Quadrangle:	Valley Mills	7.51
6) WELL OP								AGENTJohn	•	
Addres					outh		Address		1, Cooper Rid	lge
					UT 84			Williams	stown, W.V. 2	26187
8) OIL & GA				•	,		9) DRILLING CO			Market Market Color
Name XX	SAN XAR	Glen	Robin	son			•	inbow Drilli	nø	
Address	<u> XX</u>	XXXXX	XXXXXX	XXX F	t1, #6	, Mt. Plea	sant Address P	0. Box 102		
10) PROPOSE	3	MAN OF THE	<b>QARXXX</b>	XXXXX				-Whipple, OH	MCEI	W
,						•	ate new formation			-
			•			well (specify)			MAR O -	1084
11). GEOLOGI	ICAL TAR	GET FOR	_	_		BEREA				manufation (
12) Estim						820 feet			CIL & GAS	BIVID
13) Appro		•	•				•	feet.		
14) Appro					ı/a	•	al being mined in the		DEPT. OF	MATE
15) CASING		_						a. va. 1 co		Market Street,
CASING OR	11		IFICATION	s	11	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS	
TUBING TYPE	Size		Weight	1	l'and	#	1	OR SACKS	IACRERS	
Candustan	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	7"		<del> </del>	V		150'		1-T-S A	Kinds	
Fresh water	<del>                                     </del>		<del> </del>	_		750	<del>  150 ft.</del>	C/3-/	EAT	-
Coal	<u> </u>			<del> </del>		- · · · · · · · · · · · · · · · · · · ·			Sizes	
Intermediate	4/2"		<del> </del>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		112	0-1	1	<del></del>	
Production	712		<del>                                     </del>	A		1820	1820'	to cover 3	Destis ses and	
Tubing	1	,	<del>                                     </del>					,		
Liners	-		<del> </del>				<del>}</del>		Perforations:	
	-		<del> </del>			· · · · · · · · · · · · · · · · · · ·	<u> </u>		Top Botto	om
<del>-</del>	<b> </b>									
	<u>lbra</u>		<u> </u>	<u> </u>			<u> </u>			
i dari 1	; <del>4</del>									
4.2						FFICE USE				
	265 .				D	RILLING PE	RMIT			
Permit number_	107-136	)7					Mar	ch 12,		84
This permit cove	ering the w	ell operato	or and wel	Llocatio	n shown h	elow is evidence	of permission grants		ce with the pertinent le	egal ra
quirements subje	ect to the co	onditions of	contained	herein a	nd on the r	everse hereof. No	otification must be gi	ven to the District Oi	l and Gas Inspector, (R	lefer to
No. 8) Prior to t	the construc	tion of ro	ads, locat	ions and	pits for an	y permitted work k has commence	. In addition, the we	ll operator or his con	tractor shall notify the	proper
The permitted w reverse hereof.	ork is as de	scribed in	the Notic	e and A	pplication,	plat, and reclam	ation plan, subject to	any modifications a	nd conditions specified	on the
Permit expires _		1	March	12, 1	.986	unless well	work is commenced	prior to that date and	prosecuted with due dil	igence.
			T				•		*	
Bond:	Agen		Plat:	Casin	- 1	ee H			<b>~</b> ;	
LB		<i> </i>	mu!	m	1 10			<del>/</del> /		
<u> </u>		<u>_</u>	- // -	• • //	¥ 1,0	<b>-</b>			•	
			•				Admir	nistrator, Office of O	il and Gas	-
NOTE: Keep o	ne copy of	this perm	it posted	at the di	illing locat	ion.	Adilli	monator, Office of O	n anu Uas	
	• •	•	-			-			•	T221 -

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