

WK 2V-35 (Rev 8-81)

## RECEIVED DEC 1 6 385



State of Mest Airginia

DIVISION OF OIL & GAS DEPT. OF ENERGY Bepartment of Atthes

	2/13/8	35
Operator's		
Well No	#1	
Farm Harness		
API No. 47 -	107	- 1355

WELL OPERATOR'S REPORT OF

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

WEIL TYPE: Oil 'x / Gas X / Liquid Injection (If "Gas," Production / Undergrou	/ Wast	e Disposal e/ Deep	/ / Shal	llow <u>x</u> /)
IOCATION: Elevation: 685' Watershed E	ull Creek			<del></del>
District: Union County Wood		Quadrangle	<u>Willow</u>	Island
COMPANY Cuyahoga Exploration & Development Corp.			·	Cement
ADDRESS Route #1, Marietta, Ohio 45750	Casing	Used in	Left	fill up
DESIGNATED AGENT Roger Hunter	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Box 1386, Charleston, WV 25325	Size			
SURFACE OWNER Lulu Harness et al	20-16 Cond.			
ADDRESS Highland Ave. Williamstown, WV 26187	13-10"			
MINERAL RIGHTS OWNER Lulu Harness	9 5/8	208	208	SURFACE
ADDRESS Highland Ave., Williamstown, WV 26187	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7	1843	1843	1000
General Delivery Lowther ADDRESS Middlebourne, WV 26101	5 1/2	1 2 1 1		
PERMIT ISSUED 3-1-85	4 1/2	3820	3820	1977
DRILLING COMMENCED 4-12-85	3	Janu	3000	
DRILLING COMPLETED 4-17-85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners used			
REWORKING. VERBAL PERMISSION OBTAINED ON N/A	usar			
GEOLOGICAL TARGET FORMATION Devonian Shall	e	Dep		32' feet
Depth of completed well 3832' feet	Rotary X	/ Cabl	e Tools_	
Water strata depth: Fresh N/A feet;	Salt_16	05' feet	:	
Coal seam depths: N/A	Is coal	being min	ed in the	e area? No
				•
OPEN FLOW DATA	Pa	v zone det	oth 2027-	2046 feet
Producing formation Berea  Gas: Initial open flow N/A Mcf/d				
Final open flow N/A Mcf/d	Fi	nal open f	low	N/A Bbl/d
Time of open flow between init	ial and f	inal tests	N/A bo	ours
Static rock pressure 475 psig(surface	ve measure	ment) afte	er N/A hot	urs shut in
(If applicable due to multiple completion	Re Re	ree and Gar	tz Frac t	ogether
(If applicable due to multiple completion	ps De	n some dei	oth 2144-	2148 <b>feet</b>
Second producing formation Gantz  Gas: Initial open flow N/A Mcf/d	Oil. T	itial oper	n flow N/	A Bbl/c
Gas: Initial open flow N/A Mcf/d  Final open flow N/A Mcf/d	Oil. F	nal open	flow	Bbl/c
Final open flow N/A MCI/d	tial and t	Final tocto	5 N/A h	ours
Time of open flow between init	mar am	nont) after	r N/A ha	urs shut ir
Static rock pressure N/A psig(surface	= "Easme		·	

FORM IV-35 (PEVERSE)

Berea Gantz Gordon Frac Together
Gordon Pay Zone Depth 394' - 7430
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANCE, ETC.

PERFORATION 105 Sacks 20/40 Sand Breakdown 1700 PSI 3 pump trucks 950 gal HCL 15% Avg. PSI 200	4' 4' 5' 3' 4'	4 holes 4 holes 5 holes 4 holes 6 holes	2030' - 2034' Barea 2040' - 2044' Barea 2143' - 2148' Gardz 2403' - 2406' 2411' - 2415' Gordan 2420' - 2426'
AVG.BBL Per Min 41	61	6 holes	2420' - 2426
Total Gal pumped 56,1	30.		

## WELL LOG

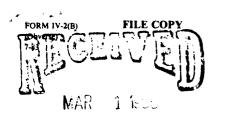
			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
Red Rock & Clay	01	800'	
First Salt Sand	934	9661	
Second Salt Sand	1060	1200 <b>'</b>	
Third Salt Sand	1250'	1330'	
Maxton Gerato	1375	1420	
Big Injun-Squaw	1490'	1721'	
Weir	1774'	1791'	
Welsh Stray	1968'	1970'	
Berea	20291	2044 1	
Devonian Shale	2044 1		
Gantz	21431	2149'	
Thirty-foot	2268	2295'	
Gordon	23941	2428'	
Speechly/Balltown	34691	3487'	
Total Depth		38321	
on reorby well to the throws		Hurona	TD.
on reorphymall top thickness		1,00	
Husen 32 Au			
			•
			٠
			_

(Attach separate sheets as necessary)

Cuyahoga	Exploration and Development Corporation	
Well	operator ( / / / / /	
By://m	This Field Co-ordinator	
Date:	9	

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."





1)	Date: February 26,	19_85_
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2) Operator's Well No. Harness #1

3) API Well No. 47 - 107 - 1355

State County Permit

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

	OIL & G	AS DI	VIS	ION	•	A	PPLICA	TION FOR A WEI	LL WORK PERMIT			
3	EVELTTY	REF <sub>A</sub> l	M	NES	— ¥ ∕ Ga	ıs	<b>X</b> /					
٠,					Production		X	/ Underground	storage	/ Deep	/ ShallowX	Λ
5)	LOCATIO		-	vation:	CO.			Watershed: _		•	Silatiow	/)
•			Dist	trict:U	Jnion				Wood		willow Islan	d
6)	WELL OP					p. &	Dev.		7) DESIGNATED		r Hunter	. Th
-	Address	_1	Rοι	ite 1					Address	P. O. Box	1386	
		_1	Mar	cietta	, OH	4575	0	12123		Charleston	, WV 25325	<del></del>
8)	OIL & GA	S INSP	EC1	OR TO	BE NOTIF	FIED		100	9) DRILLING CO	ONTRACTOR:		
	Name	Robe	rt	Lowth	er				Name not	yet determin	ned	
	Address		Ger	neral	Delive	ry			Address			
		_1	Mic	<u>idlebo</u>	urne,	WV	26149					
10)	PROPOSE	D WEL	L V	VORK:	Drill	X	_/ Dril	l deeper	/ Redrill	/ Stimulate	X /	
•					Plug of			•	rate new formation			
	•				_			in well (specify)				
11)	GEOLOGI	CAL T	ARC	GET FOR					nson Formati	on		
	12) Estima							feet	-			
	13) Approx							feet; sal	t <u>, 1,500</u>	feet.		
										area? Yes	/ NoX	. /
15)	CASING A											
	ASING OR	H		SPEC	IFICATIONS	;		FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS	
TL	IBING TYPE	Size	. 1	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Con	ductor	11			38.0	X	-	60'	60'	(Cabit lett)	Kinds	<del></del>
	h water	11	5/		36.0	X	<b>.</b>	200'	200'	The has	rule 15.	01
Coa			٠,,		30.0		<b> </b>	200	200	13 19	Sizes	2
	rmediate	7	$\exists$		20.0	X	<b>†</b>	2500'	2500'	300 sacks	Sizes	
	duction	4.	5		10.5	X	l	5000	5000'	300 sacks	Dunbards O. M.	
Tub		- 4 -	_		10.7	^			3000	be to	Depths ey / 1	Aura
Line						·				1 19 10	Perforations:	$\nu_{}$
		<b> </b>	1									
			寸					<b>,</b> 3			Top B	Bottom
		Ц			<u></u>		1	J			Ш	
		·				,		OFFICE USE	ONLY	" 1	:	
						·		DRILLING PH				
	•			. 7 10	7 1255					Ma	mah 1	0.5
Peri	mit number_			4/-10	7-1355			•			rch 1,	19 85
	4.4						_		•	Da		
Inis	permit cove	ring the	e we	il operato	or and well	location	on show	n below is evidence	of permission grante	ed to drill in accordar given to the District (	ice with the pertinen	it legal re-
No	. 8) Prior to	the con	stru	ction of re	oads, locat	ions ar	d pits fo	or any permitted wo	rk.In addition, the w	ell operator or his cor	ntractor shall notify	the proper
								work has commence		•	,	/::
The	permitted we	ork is a	s de	scribed in	the Notice	e and A	pplication	on, plat, and reclam	ation plan, subject to	o any modifications a	and conditions specif	ied on the
reve	rse hereof.					*						
Peri	nit expires _	<u> </u>	ar	ch 1,	198/			unless wel	l work is commenced	prior to that date and	prosecuted with due	diligence.
_										•		
В	ond:	A	gent	:/ 1	Plat:	Casir	ng	Fee				1.
	62	1	, ,	, h		bs	11/		7/		- 1	
L	90	_ <i>M</i>	14	<u> </u>	WI		UV	240	YY In	garit	9/1	
									'   (U/)	'aarite	1/XIU	se.

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

NOTE: Keep one copy of this permit posted at the drilling location.

Administrator, Office of Oil and Gas

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