

DATE: API#: 09/25/01 47-107-1/3/58 F

## State of West Virginia Div

vision of Environmental Protection Section of Oil and Gas	Roviewed

Se	ection of Oil a	ınd Gas		1	unnanog		
Well Ope	rator's Repor	t of Wel	l Work		-	Andrews Programme,	
Farm name: Anderson		Opera	tor Well	No.:_	Harness	#5	
LOCATION: Elevation: 719'		Quadr	angle: _	Wil	low Island	1 7.5	5 '
District: Union		Count	y:	Wo	bо		
Latitude: 3270 Feet South of	<b>39</b> Deg.	19	Min.	34	.4 Sec.		
Longitude 5120 Feet West of	<b>81</b> Deg.	21	Min.	5	. 2 Sec.		
Company: <u>GasSearch Corporatio</u>	Casing Tubin	g	Used in drilling		Left in well	up C	ent fill u. Ft.
Address: #13 Industrial Blvd.		5/8"		.3'			surfac
Parkersburg, WV 2610			188	15'			1000'
Agent: Noble Zickefoose	4	1/2"			3818'	to	2020
Inspector: Larry Parrish							
Date Permit Issued: 05/30/01				_			
Date Well Work Commenced: 6/5/01				1	RECEIVED		
Date Well Work Completed: 6/5/01				<u> </u>	ffice of Oil & Gas		
Verbal Plugging:					ł	1 #	
Date Permission granted on:				9	EP 28 2001		
Rotary Cable Rig							
Total Depth (feet): 3826				W	V Department of		
Fresh Water Depth (ft.): None Recorde	ea		1	⊏nviro	nmental Protection		
					(200)	11	
Salt Water Depth (ft.): 1406							
Is coal being mined in area (N/Y)? N					·		
Coal Depths (ft.):		l					
OPEN FLOW DATA							
Producing formation Berea-Gord Gas: Initial open flow N/A MCF/d Final open flow 38.52 MCF/d Time of open flow between initial static rock Pressure 500 psig (see	Oil: Initial of Final ope	open flow ts I	4.7 N/A	A ] B Hou	3bl/d bl/d rs	2469	•
Final open flow 200 MCF/d Time of open flow between initial Static rock Pressure 350 psig (static rock Pressure 350 psig (st	Oil: Initial of Final operand final test ourface pressored HE FOLLOWATING, PHYLED GEOLO	open flow ts No ure) aft WING: I	ow N/ 8 /A er 48  1). DET	Hour Hour Ho	urs OF PERFORAT ETC. 2). THE W	ED ELI.	
INCLUDING COAL ENCOUNTERED BY 7	THE WELLB	ORE.		0	I OIWIN	-10110	,
							•

Signed:		noble zulefor
	By:	Noble Zickefoose
	Date:	09/25/01

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Berea, Gantz, Gordon (2076' to 2469') 11,000 1b 20-40 Sand, 1,388 BBL of treated water. 1st Stage (1985):

Berea, Gantz, Gordon, Speechly, Balltown (2076' to 3556') 955 MCFN<sub>2</sub> at 50 MPM. 2nd Stage (2001):

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Sand, Shale, Red Rock	0	985	
Salt Sands	985	1338	
Shale	1338	1433	
Maxon	1433	1466	
Shale	1466	1525	
Big Injun-Squaw	1525	1763	
Siltstone, Shale	1763	2075	
Berea	2075	2097	
Shale	2097	2191	
Gantz	2191	2195	
Shale	2195	2306	
Thirty Foot Sand	2306	2340	
Shale	2340	2442	
Gordon	2442	2470	
Shale	2470	3050	
Speechly	3050	3350	
Balltown	3350	3650	
Shale	3650	3826 - TD	

WR-35

# State of Mest Nicginia

DEPARTMENT OF ENERGY

Date 1	2/13/8	5						
pate 12/13/85 operator's Well No. #5								
Farm_F	larness							
ADT NO	47 -	107	_	1358				

feet

Bb1/d

Bbl/d

DIVISION OF OIL & GAS **DEPT. OF ENERGY** 

Gil und Gas Bivision

DEPI. O. L. WELL OPERATOR'S	S REPORT		•	
OF DRILLING, FRACTURING AND/OR STIMU	LATING, OR	PHYSICAL	CHANGE	
WEIL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production _ / Underground  IOCATION: Elevation: 719 Watershed B  District: Union County Wood	ull Creek			
•				
COMPANY Cuyahoga Exp. & Dev. Corp.				[a
ADDRESS Route #1, Marietta, Ohio 45750	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Roger Hunter	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O.Box 1386, Charleston, WV 25325 SURFACE OWNER Lulu Harness et al	Size 20-16 Cond.			
ADDRESS Highland Ave., Williamstown, WV 26187	13-10"			
MINERAL RIGHTS OWNER Lulu Harness et al	9 5/8	213'	2131	213'
ADDRESS Highland Ave., Williamstown, WV 26187	8 5/8			
CAS INSPECTIOR FOR THIS WORK Mike	7	1885'	1885'	1000
Underwood ADDRESS Salem, WV 26426	5 1/2			
PERMIT ISSUED 3-5-85	4 1/2	3818'	3818'	1933'
DRILLING COMMENCED 5-4-85	3		<u> </u>	
DRILLING COMPLETED 5-9-85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN_N/A		De	pth 38261	feet
GEOLOGICAL TARGET FORMATION Devonian Shale Depth of completed well '3826 feet	Rotary x			
Depth of completed well 3826 feets	Salt 14	06' fee	t	•
Water strata depth: Fresh N/A feet; Coal seam depths: N/A	Ts coal	L being mi	ned in th	me area? No
Coal seam depths:				
OPEN FLOW DATA	_	40		oonet fee
Producing formation Berea	P	ay zone de	pu <u>i 2076</u>	fee
Gas: Initial open flow N/A Mcf/d	011: I	inglan ope	flow (4.7	Bb1/
mind flow (38.52) McI/d	r	nar der	7.70	
Time of open flow between in	itial am	IIMI UESI	2/ •	chirt i

Static rock pressure N/A psig(surface measurement) after N/A hours shut (Continue on reverse side) BEREA-GANTZ-GORDON ALL FRAC AT SAME TIME

Time of open flow between initial and final tests N/A hours

Static rock pressure 500 psig(surface measurement) after 24 hours shut in

Final open flow N/A Mcf/d Oil: Final open flow N/A

Second producing formation Gantz Pay zone depth 2191-2195

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow N/A

(If applicable due to multiple completion--)

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

total sand 115 sacks 20/40

total fluid 58,330

Cla Chek
NE 50
4500 lbs KCL
NDL - 100
Dura Surf
Unislik
Pen Surf

OTS COM**WAIT TOC** 

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and ga
Red Rock and Sand First Salt Sand Second Salt Sand Third Salt Sand Maxton Big Injun-Squaw Weir Welsh Stray Berea DEVONIAN SHALE Gantz Thirty Foot Gordon Speechly/Balltown Total Depth  Wenn Acade 2007 1250	0' 985' 1154' 1324' 1433' 1525' 1822' 2015' 2075' 2097' 2191' 2306' 2442' 3\$508'	800' 1015' 1241' 1338' 1466' 1763' 1844' 2017' 2097'  2195' 2340' 2470' 3532' 3826'	
Ups Devenolyti 2097 1250			
••			
•			•

(Attach separate sheets as necessary)

Cuyahoga Exploration

By: fimithy

Date:

Note: Regulation 2.02(i





1)	Date: Fel	19_85			
2)	Operator's Well No	Harnes	s #5		
3)	API Well No.		107-	1358	
ĺ		State	Cou	inty	Permit

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

DE	11 Q GA	S DIVIS	ON	Al	PPLICAT	ION FOR A W	ELL WORK	PERMIT			
	7T. 0	F MI	NES	v							
4) WELL TY							•				
6) LOCATIO			719			_/ Undergroup	nd storage	Crook	/ Deep	_/ Shallow	<u>x</u> _/)
5) LOCATIO			Union			_ watersned: _ County:			Quadrangle:	17:11 0	Taland
6) WELL OP:					Dozz	•			Quadrangle: AGENT <u>Roger</u>		LSTanu
Address		ute 1	Oga DA	μ. α	Dev.	- /			P. 0. Box 1		
Address			, OH	4575	n	12125	, A	auress	Charleston,		25
8) OIL & GA			-			<del>10.</del>	0) DDI	LLING CO	ONTRACTOR:	HV 233	
Name}				ILD					t yet determi	ned	
Address			Box 13	5	***			ddress	e yet determi	<u>iiicu</u>	
71001000		•	2642				,	duics			
0) PROPOSE		•	Drill		_/ _/ Drill	doorer	/ Da		/ Stimulate	<b>X</b> ,	
(iu) PROPOSE	D WELL	WOKK:				/ Per				<u></u>	
						well (specify)_	iorate new.	iomination	/		
ii) GEOLOGI	CALTAD	CET EOD	MATION	nysicai D	evon i a	n Shale/F	Senson F	ormati	on		
12) Estima	ted denth	of complet	ed well	<del></del>	5.000		eet		,		
13) Appro	vimate trat	a denths:	Fresh	1	00		salt,	1,500	feet.		
14) Appro	vimate coa	l seam den	the no	t ar	plicab				area? Yes	/ No	Х /
14) Apple				<u> </u>	<u></u>	.==	coar ocing in	mica m m	arca: 1es		
CASING OR	II (2 1 0 2)		IFICATIONS		Ħ	FOOTA	GE INTERVALS	<b>.</b>	] CEMENT FILL-UP	PAC)	/FDC
TUBING TYPE	67-	i	Weight	!			1		OR SACKS	FACE	LERS
Conductor	Size 11 3/	Grade	per ft. 38.0	New	Used	For drilling 60 <sup>1</sup>		t in well 60 <sup>1</sup>	(Cubic feet)		
Fresh water	9 5/		36.0	X		200'		200'	CT3 NE	Kinds	
Coal			30.0	- 11	1	200		200	100 /Ve	5	
Intermediate	7		20.0	Х		2500'	2	500'	300 sacks	Sizes	
Production	4.5		10.5	X		5000'		000'	300 sacks	Depths set	
Tubing			1000	••				000	JOU SACKS	Deptils set	
Liners	1	<u> </u>								Perforations:	
								·	1	Тор	Bottom
									•		Dottom
		***************************************			•				<u> </u>	<u></u>	•
					(	OFFICE US	E ONLY				× -
					I	DRILLING I	PERMIT				
		47 10	77 7750	•					Mas	rch 5,	19 85
Permit number_		4/-10	7-1358	<u> </u>					Dat		19 03
This permit cov	ering the w	ell operate	or and wel	l locati	on chown	halow is avidan	ce of permis	cion grant	ed to drill in accordan		
quirements subj	ect to the c	onditions	contained	herein :	and on the	reverse hereof.	Notificatio	n must be	given to the District O	il and Gas Insi	oector. (Refer to
No. 8) Prior to	the constr	uction of r	oads, loca	tions a	d pits for	any permitted	work.In addi		ell operator or his con		
district oil and g	as inspecte	or 24 hour	s before ac	tual pe	rmitted w	ork has comme	nced.)			* *	• • •
	ork is as d	escribed in	the Notic	e and A	Application	i, plat, and recl	amation plai	1, subject t	o any modifications a	nd conditions s	specified on the
reverse hereof.	V.	-ah 5	1027			,					
Permit expires _	ma	rch 5,	1987			unless	well work is c	ommenced	prior to that date and	prosecuted wit	h due diligence.
Bond:	Agei	nt:	Plat:	Casi	16	Fee				ا در فرزهٔ در از در ام	•
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·			•	, .			"   K	WW	and I	Kas	u
				_				<b>/A</b> ∮m	inistrator, Office of C	il and Gas	· ·
NOTE: Keep o	one copy o	f this pern	nit posted a	at the c	Irilling loca	ation.					File
								• /			

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