



IV-35 (Rev 8-81)

RE	NOV S O 1983	
17/7	NOV 2 9 1983	ت

Department of Mines

Operator's	
Well No. 1 - 1915	
Farm William E. Kirk	
197 16	

Date November 1, 1983

OIL & GAS DIVISION

. DEPT. of MINES

WELL OPERATOR'S REPORT

((CORRECTED on 11/28/83))

DRILLING, FRACTURING AND/OR STERL	LATEIG. O	R PHYSICAL	. क्यां				
WEIL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production x / Underground Storage / Deep / Shallow xx/)							
IOCATION: Elevation: 579 14 Watershed Fla	tfoot Cree	k					
District: Clendenin County Maso	on	Quadrangle	Apple Gr	ove			
•							
CC-PANY Union Drilling, Inc.				Cerent			
ADDRESS p. O. Drawer 40, Buckhannon, WV 26201	Caşing	Used in	Left .	fill up			
DESIGNATED AGENT Joseph C. Vanzant, Jr.	Tubing	Drilling	in Well	Cu. ft.			
ADDRESS P. O. Drawer 40. Buckhannon, WV 26201 SURFACE OWNER William E. Kirk	Size 20-16		•	•			
ADDRESS Gallipolis Ferry, WV 25515	Comi.						
MINERAL RIGHTS OWNER William E. Kirk	9 5/8	497.90	497.90	212 cf			
ADDRESS Gallipolis Ferry, WV 25515	8 5/8						
OTT AND GAS INSPECTOR FOR THIS WORK	7	1896.15 XXXXXX	678.55	212xcf			
Jerry Route 31, Box TUIA Tappaloh ADDRESS Ripley, WV 25271	5 1/2	AGAGAZ	0,000				
PERMIT ISSUED August 17, 1983	#pob/20000	000000000000000000000000000000000000000	00000000	00000000			
DRILLING COMMENCED 09/12/83	3x 4½"	3277.60		4 _			
DRILLING COMPLETED 09/19/83	2						
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners		·				
REFORKING. VERBAL PERMISSION OBTAINED ON	used		<u> </u>	<u>'</u>			
GOLOGICAL TARGET FORMATION Devonian Shale			•	feet			
Depth of completed well 3300 feet 1	Rotary_x	/ Cabl	e Tools_	•			
Water strata depth: Fresh feet;	Salt 615 ₁	feet					
Coal seam depths: 275/281	Is coal	being min	ed in the	area? no			
OPEN FLOW DATA -							
Producing formation Devonian Shale							
Gas: Initial open flow show Mcf/d							
Final open flow 146 Mcf/d			-				
Time of open flow between init	ial and fi	nal tests	?ho	urs .			

(If applicable due to multiple completion--) Second producing formation___ Pay zone depth_ fee: Gas: Initial open flow____ Ebl/d Oil: Initial open flow_ Mcf/d Bb1/6 Mcf/d Oil: Final open flow_

Static rock pressure 400 psig(surface measurement) after 24 hours shut is

Final open flow____ Time of open flow between initial and final tests_ hours hours shut in Static rock pressure psig(surface measurement) after_

'(Continue on revonde side

DETAILS OF PERFORMED DITERVALS, FRACTURING OR STEMLATENC, PHYSICAL CHANCE, ETC.

On 10/5/83 Halliburton Foam Fractured the Devonian Shale with 60,000 # sand, 212 BBL Water, 1,009,000 SCF Nitrogen

Perforations at 2366/2968 (49 shots)

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all and salt water, coal, oil an
Clay River Gravel Sand and Shale Coal Sand and Shale Big Lime Sand and Shale Berea Devonian Shale	0 10 95 275 281 1145 1205 1808 1834	10 95 275 281 1145 1205 1808 1834 TD 3300	Water at 615' 1½" stream Water at 1130' 3" stream
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•••		•	
•			•
•	•		

(Attach separate sheets as necessary)

UNION DRILL	ING, INC.
By: Coupl (Ithey Date: 11/1/83	Joseph C. Pettey Vice President of Prod.
Date: 11/1/83 0	



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Bepartment of Mines Dil und Cas Division

Date November 1, 1983	
Operator's	
Well No. 1 - 1915	
Farm William E. Kirk	
APT NO. 47 - 057 -	0702

OIL & GAS DIVISION

DEPT. OF MINES WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STEMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Undergro	on/Wast	e Disposa e/ Dee	l/ p/ Sha	llow_xx/)
LOCATION: Elevation: 579.14 Watershed F	latfoot Cree	ak		
District: Clendenin County Ma		Quadrangle	e Apple Gi	rove
COMPANY Union Drilling, Inc.				
ADDRESS P. O. Drawer 40, Buckhannon, WV 26201	Casing	Used in	Left .	Cement fill up
DESIGNATED AGENT Joseph C. Vanzant, Jr.	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Drawer 40. Buckhannon, WV 26201	Size			•
SURFACE OWNER William E. Kirk	20-16 Cord.		·	
ADDRESS Gallipolis Ferry, WV 25515	13-10"			
MINERAL RIGHTS OWNER William E. Kirk	9 5/8	497.90	497.90	
ADDRESS Gallipolis Ferry, WV 25515	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	7	678.55	678,55	212 cf
Jerry Route 31, Box TOTA Tapbaloh ADDRESS Ripley, WV 25271	5 1/2			
PERMIT ISSUED August 17, 1983	4 1/2	3314	3314	161 cf
DRILLING COMMENCED 09/12/83	3	1 0021		
DRILLING COMPLETED 09/19/83	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON		-		
CONTINUOUS PROGRESSION FROM DRILLING OR REVORKING. VERBAL PERMISSION OBTAINED	Liners used		•	
ON	LES CO.			:
GEOLOGICAL TARGET FORMATION Devonian Shale		Dept	-h_ 3300	feet
Depth of completed well 3300 feet	Rotary x	/ Cable	⊇ T∞ls_	
Water strata depth: Freshfeet;	Salt_615 ₁	₃₀ feet		
Coal seam depths: 275/281	Is coal	being mine	ed in the	area? no
OPEN FLOW DATA -				
Producing formation <u>Devonian Shale</u>	Pav	zone dent	-h 2968	foot
Gas: Initial open flow show Mcf/d				
Final open flow (146) Mcf/d				
Time of open flow between init				
Static rock pressure 400 psig(surface		_		
(If applicable due to multiple completion		ait, arter		.s shut III
Second producing formation		zone dept	-h	feer
Gas: Initial open flowMcf/d				
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressure psig(surface				. O 7 ~ O

DETAILS OF PERFORMTED INTERVALS, FRACTURING OR STIPULATING, PHYSICAL CHANGE, ETC.

On 10/5/83 Halliburton Foam Fractured the Devonian Shale with 60,000 # sand, 212 BBL Water, 1,009,000 SCF Nitrogen

Perforations at 2366/2968 (49 shots)

100, Let 2366-2030 Huan 2020-2068

WELL LOG

	₩.	ELIL III					
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all franchist water, coal, oil and				
Clay River Gravel Sand and Shale Coal Sand and Shale Big Lime Sand and Shale Berea Devonian Shale	0 10 95 275 281 1145 1205 1808 1834	10 95 275 281 1145 1205 1808 1834 TD 3300	Water at 615' 1½" stream Water at 1130' 3" stream Rhineshart				
		1540 827 A-3080	<u>cl</u> 500'-66				
•••		Rha r yo Optimie	Processor and the second secon				
	•	·					

(Attach separate sheets as necessary)

UNION DRILLI	ING, INC.
By: Cord (they	Joseph C. Pettey Vice President of Prod.
Date: 11/1/83 0	

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."

DETAILS OF PERFORMED INTERVALS, FRACTURING OR STIPULATING, PHYSICAL CHANGE, ETC.

On 10/5/83 Halliburton Foam Fractured the Devonian Shale with 60,000 # sand, 212 BBL Water, 1,009,000 SCF Nitrogen

Perforations at 2366/2968 (49 shots)

10, Let 2365-27636 Human 2020-2968

WELL LOG

	· W	ELL LOG		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indicati and salt water, co	on of all f
Clay River Gravel Sand and Shale Coal Sand and Shale Big Lime Sand and Shale Berea Devonian Shale	0 10 95 275 281 1145 1205 1808 1834	10 95 275 281 1145 1205 1808 1834 TD 3300	Water at 615' 1 Water at 1130' 3	년½" stream 3" stream
		from GR log.	ch 590'-46	· · · · · · · · · · · · · · · · · · ·
		Popular 2,620 Novo sam	300 1834	
		A-3080	1466	
•		Phospan Control		•
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			•	
	•			

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By:

Date: 11/1/83

UNION DRILLING, INC.

Joseph C. Pettey
Vice President of Prod.

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:	Augus	t 1	, 1	<u>83</u>
2)	Operator's Well No	1 -	1915	,	*
3)	API Well No.	47 _	053 -	0302	·
		State	Coun	ty	Permit

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

APPLICATION FOR A WELL WORK PERMIT

4)	WELL TY										
							✓ Underground s			_/ Shallow _	X/)
5)	LOCATIO						Watershed:				
				<u>lenden</u>					Quadrangle:		
6)	WELL OP				G.	,		7) DESIGNATEI	AGENT Joseph		t, Jr.
	Address			<u>Draw</u>				Address	P. O. 1	Orawer 40	
					•	26201		•	Buckhai	nnon, WV	26201
	OIL & GA							9) DRILLING CO			
	Name				736-4	1885		Name Unior	Drilling, I		
	Address		RFD #					Address	P. O. Drawe		
			Barbo	ursvi 1	le, V	VV 255	04		<u>Buckhannon</u>	<u>WV 2620</u>	1
10)	PROPOSE	D WELL	WORK:	Drill	Χ	_/ Drill	deeper	/ Redrill	/ Stimulate	X /	
				Plug of	f old	formation_	/ Perfora	te new formation	/		
	,			Other p	hysical	change in	well (specify)		ATT TO THE RESERVE OF THE PARTY		
11)	GEOLOGI	CAL TAR	GET FOR	MATION	,	Devoni	an Shale				
1	2) Estima	ted depth o	of comple	ted well,		3500	feet				
1	3) Appro	ximate trat	a depths:	Fresh, _		?	feet; salt,	??	feet.		
1	4) Appro	ximate coa	l seam der	oths:		?	Is coa	l being mined in the	area? Yes	/ No X	. /
15)	CASING A	ND TUBI	NG PRO	GRAM				•			
CAS	ING OR		SPEC	CIFICATIONS	3	11	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKE	RS
TUB	ING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Condu	ctor	9 5/8		36#	x	-	300	300	11	W-1	
Fresh		3 37 0		1 20"		†			to surface	Kinds	
Coal				† · · · · ·		†				g:	
Interm	ediate	7		20#	32	† †	2250	2250	400 -1	Sizes	
Produc		4 1/2		10.5#	X	l		2250	400 sks.		
Tubing		4 1/2	<u> </u>	μυ. 5π	X			3500	350 sks. or	Depths set	
Liners	· · · · · · · · · · · · · · · · · · ·			†					as required		·
Pillel 9				<u> </u>		 				Perforations:	
				<u> </u>		 				Тор	Bottom
				<u> </u>		 			 		
			L	1		II_			<u>l</u>		
	•						EEICE LICE O	NIT W		***	
				····			FFICE USE O				
		, -	050 0	000		ע	RILLING PER	CMIII			
ermi	it number_	4/-	-053-0	302					August	17	19 83
	-								Date	2	
This r	ermit cove	ring the we	ell operato	or and well	locatio	on shown h	elow is evidence of	f nermission grante	ed to drill in accordance		mame land
uirer	nents subje	ct to the co	onditions	contained	herein a	and on the	reverse hereof. Not	ification must be o	iven to the District Oil	and Cas Inspect	nent legal re-
lo. 8) Prior to th	ie construc	ion of ro	ads, locati	ons and	i pits for an	ly permitted work.	In addition, the we	ell operator or his cont	ractor shall noti	fy the proper
istric	t oil and ga	as inspecto	r 24 hour	s before ac	tual pe	rmitted wo	rk has commenced	.)			
The p	ermitted wo	ork is as de	escribed in	the Notice	e and A	pplication,	plat, and reclamat	ion plan, subject to	o any modifications ar	nd conditions spe	cified on the
evers	e hereof.	August									
Permi	t expires _	.10500	,				unl e ss well v	vork is commenced	prior to that date and	prosecuted with c	lue diligence.
_											
Boı	ndi	Agent	ı: l 1	Ples	Casin		ree l				
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425		370	40		0	70					
	-		•					1-1	-6/		
								Admi	nistrator, Office of O	l and Gas	
OTE	E: Keep or	ne copy of	this perm	it posted a	t the di	rilling locat	ion.				
											File
. •			See	ine reverse	side of	the APPI	JCANT'S COPY	for instructions to	the well operator.		