





# DIVISION OF OIL & 1812 ST 28 281 28 12 28

Date April 8: 1986
Coerator's
Wall No. 1
Farm Berwind Land Co.
AST No. 47 - 019 - 0572

ead but lide	Simmon	428	000000	
WELL OPERATOR	SEEORI	• -		ing the second of the second o
DRILLING, FRACTURING AND /OR STIM	TATING. O	R PHYSICAL		
DRUITING PRACTURAL AND UN DADA	Store division many division - 200 h		A The second sec	
WEIL TYPE: Oil / Gas X / Liquid Injectic	n / Wast	e Disposal	/	
WEIL TYPE: Oil / Gas $X$ / Liquid Injection (If "Gas," Production $X$ / Undergroup (If "Gas," P	rund Storag	e / Dees	X/Sha	11047
E die die Service der F	Innia Promot	of New Ri	ver	
IOCATION: <u>Plevation: 1707' Watershed M</u> District: New Haven County Fay		<u> Madrangle</u>	Favette	ville
Distance New Haven County Fav	ELLE			A COLUMN TEACH CONTRACTOR AND A COLUMN TEACH
	<			
COMPANY Ashland Exploration, Inc.  ADDFESS P. O. Box 391, Ashland, KY 41114	Casing	Tused in	left	Cenent fill up
	Tiping	Drilling		g was
DESIGNATED AGENT Forrest Burkett	Size	Cost the City and Statement		
ADDRESS Box 379, Brenton, WV 24818	20-16	31'	31'	30sks -
SURFACE OWNER Berwind Land Co.	Condi			
ADDRESS 1050 One Valley Square, Charleston, W	13-10"	0001	9981	1500sks
MINERAL RICHIS OWNER Berwind Land Co.	9 5/8	9981	920	
ADDRESS 1050 One Valley Square, Charleston, WV		((00)	((00)	290sks
OIL AND GAS INSPECTOR FOR THIS WORK Rodney		.6608'	4608'	2 JUSKS
Dillon ADDRESS Box 30, Scarbro, WV 259	1/51/2			mina samananananananan karana
PERMIT ISSUED 10/25/85	43/2			
DRILLING COMMENCED 1/13/86				
DRILLING COMPLETED 2/21/86	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners		(see constitution	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERVISSION OBTAINED	used			
3/23/86				
GEOLOGICAL TARGET FORMATION Newburg				Laurence supraince successive .
Denth of completed well 7540 feet	: Rotary	x / Cab	le Twols	
White Areta Benth: Presh 100 feet	: Salt	3500 fee	t	*
Coal seam depths: 493-499	Is coa	l being mi	ned in t	he area?
	COLORO DE SERVERA DE S			
open flow data	Y	er zane di	רל ליציות	
Producing formation NONE		Taitial Co		municana manufanta managa m Managa managa
Gas: Initial open flow Mass/	q vali	To a market	and do do do warm	annonamental de la company de la company Company de la company de la com
Final open flow		mar oben	dire alla WV cinazioni cinazioni dire con	ginetine e francisco
rine of open flow between 1	nicial and	TIME LES	(mail)	i i i i i i i i i i i i i i i i i i i
Static rock pressure psig(sur	face neasu	rement, Ar	diminanimente di mananimente di mana	
(If applicable due to multiple complet	ion - )	_		· Æ
Second producing formation	ny nigona ny kaominina mpikambana ny kaominina mpikambana ny kaominina mpikambana ny kaominina mpikambana ny k	Pay zone c	ar ar Charles II	disk- p gir Allende der der der der der der der der der d
Gas: Initial open flow Mcf/	d Oil:	Initial of	sen rrow	To Man
Final open flow Mcf.	/d Oil:	Final oper	1 Llow	in a superior and a s

Time of open flow between initial and final tests\_\_\_\_

psig(surface measurement) after\_\_\_

Final open flow

Static rock pressure

(Continue on reverse s

hour's

hours since

raid from chas purey

Plug back TD - 6570 w/gel wtr, 6670-6560 cht flug, 6560-2555 gel wtr, P-1 BP @ 2555.

Plug back TD - 6570 w/gel wtr, 6670-6560 cht flug, 6560-2555 gel wtr, P-1 BP @ 2555.

2555-2430 gel wtr, @ 2430 P-1 BP, 2430-2306 gel wtr, 2306-2256 the plug, 2256-970 gel wtr, @ 970 N1-BP, 970-50 gel wtr, 50-surface cmt plug.

Perf L. Dev. Shale 30H/5940-5960 - N2 frac using f,800,000 scr N2 & 500 gal 15% HCl. BD @ 4700# , MTP 4050# @ 78,000 SCF/min, ISIP 2250#, 15 min 1850#.

Perf U. Dev. Shale 30H/4830-4850 - N2 frac using 1,800,000 SCF N2, BD @ 3799#, ATP 3552# @ 80,000 SCF/min, ISIP 2578#, 15 min 1990#.

Perf U. Weir 30H/2460-2494 - 75 Q foam frac using 336,000 SCF N2 @ 10,500 SCF/min, 40,000# 20/40 sand. BD @ 1880#, ATP 1986# @ 36 B/M, ISIP 1930#, 15 min 1510#, TF 206 bbl

#### WELL LOG

· ·	V 6.6	Applications desirates can				
FORMATION COLOR HAPD OR SOFT	TOP Franks	BOILON E. SAN	Including	REMARKS indication mater, coal,	of all	fre d g
Sand & Shale Salt Sand Shale Ravenscliff Avis LS Shale Middle Maxton Shale Lower Maxton Shale Little Lime Pencil Cave Big Lime Shale Injun Upper Weir Shale Lower Weir Shale Coffee Shale Berea Devonian Shale Onondaga LS Oridkany SS Lime w/Dolomite Newburg SS Lime	0 695 1082 1307 1418 1429 1606 1652 1827 1841 1883 1958 2005 2330 2362 2411 2512 2517 2553 2804 2870 6546 6656 6674 7446 7479	695 1082 1307 1418 1429 1606 1652 1827 1841 1883 1958 2005 2330 2362 2411 2512 2517 2553 2804 2831 2870 6546 6656 6674 7446 7479 TD				
DTD 7540 LTD 7540						

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.

By: Alluk XI. Dima

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 of a well."

FORM WR-38 (Affidavit of Plugging)

### STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS WELLS DIVISION

## AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Berwind Land Co.				.,	
Coal Operator or Ow	mer	. N	ame of Well Operat	cor	
		P. O. Bo	ox 391, Ashland, K	Y 41114	
Address	AND		Complete Address		
		Berwind	Land Co. No. 1	19	86
Coal Operator or Ov	mer	WEL	L AND LOCATION	-	
Coar oberator or o	4 4 5 C A	Berwind Land Co. No. 1  WELL AND LOCATION New Haven  Fayette  25301 WELL NO. #1 API #47-019-0572  Berwind Land Co.  Rodney Dillon  FFIDAVIT  and		Distri	ct
Address		Tanatta		<u>.</u> .	
Berwind Land Co.		rayette		County	
Lease or Property	Owner				
1050 One Valley Sa Ch	parleston, WV 25301 WEL	L NO. #1	API #47-019-0572		
Address					
		Berwind	Land Co.		Farm
TATE INSPECTOR SUPERVISIN	G PLUGGING Rodney Di	Llon			
	AFFIDAVIT				
TATE OF WEST VIRGINIA,				-	
	ss:				
ounty of <u>Fayette</u>	Water Control of the				
Ted Payne	and	Tom Ha	tfield .		*
eing first duly sworn acc	ording to law depose ar	nd say tha	t they are experie	ncea m	Line
	ne oil and one wells ar	nd were em	ploved by Ashlan	la.	
Exploration, Inc., wel	l operator, and partici	ipated in	the work of brings	ing and	1111
ng the above well, that s	aid work was commenced	on the	24 day of	March	
9 86, and that the well	l was plugged and fille	ed in the	IOIIOWING manner.		
				<del></del>	
Sand or Zone Record	Filling Material	1	Plugs Used	Cas	sing
Formation			Size & Kind	CSG	
	gel wtr			PULLED	LEF. L.J.D
7540 (TD) - 6670	35 sks cmt plug			+	
6670-6560 6560-2555	gel wtr				
@ 2555 <sup>†</sup>	ger wer		Baker P-1 BP - 7'	•	
2555–2430	gel wtr				
@ 2430			Baker P-1 BP - 7'	1	
2430-2306	gel wtr				
2306-2256	10 sks cmt plug				
2256-970	gel wtr				
@ 970			Baker N-1 BP - 9	5/8"	
970–50	gel wtr		2011	<del></del>	27
50-surface	25 sks cmt plug				998
	·	-////	H H mld/	7 2000	4000
			4- 11-11-0C		
Coal Seams			Description o	i Monum	ent
(Nama) 493-498 - covered w	//9 5/8" csg & cemented	to surface	3' @ surface		
(Name)			w/identificat	tion	
(Name)					
(Name)					
and that the work of of April And further deponent	, 19 <u>.86</u> .	said well	was completed on t	:he <u>8</u>	day
carra a cas carea to prostente	· _ · _ · - · · · · · · · · · · · · · ·	Derek S	S. Hing		
Sworn to and subscribed b	pefore me this <u>8</u> da	ay of	April	<del>, ,</del> 19	86
		-	Wille (1 D)	ulle	_
			Notary Public		
			-		
My commission expires:			Permit No.	010-M	572
9/14/87.			rermit No.	U/7 = U	<del></del>





1) Date: October 18
2) Operator's Berwind Land Company
Well No. 1, Serial No. 106891

3) API Well No. 47
State 019 -0572 Permit

#### STATE OF WEST VIRGINIA

DEP.	ARTMENT OF ENERGY, OIL AND GAS DIVISION
DIVISION OF OIL & GAS	ARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT
DEPARTMENT OF ENERGY	

4) WELL TY							•			37		
() I O O A TITO	B (1:	f "Gas", I vation:	Production	n <u>A</u>		/ Undergroun	id storagi Mart	e rs Branc	/ Deep	Diana	_/ Shall	ow/)
5) LOCATIO		vation: trict: <u>l</u>			1040	watersneo: County:	Fare	otto				
O WELLOR					-ioeone	: 2750	Taye	SECIONATE:	Quad	irangle: Forres	Fayette	:viite
Address		P.O. I				• 4	, /) i		JAGENI _			LL
Address		Ashlar			11/4	Advantage of the second		Address				0/070
8) OIL & GA					<u> </u>		0/ 1	DILLING C			n, WV	24818
	Rodney							DRILLING C				6
Address		. Box					1.					Co.
Address				5917		<del>Accessed to the second to the</del>		Address				., East
0) PROPOSE					_/ Drill		,	To = 2=10		•		<u> </u>
U) PROPOSE	D WELL	WOKK:			_	/ Perf		Redrill		mulate	Δ/	
i) GEOLOGI	GAT IAO	CET EOD	OHIEL P	niysicai Ne	whire	well (specify)						
						fe				-		*
								0051	£			
									feet.			lo/
5) CASING A				<u> </u>	POSSID	mine	coar ben	ig mineo in th	e area / re	5	/ N	10/
•	AND LUBI				&ù				•••		Ł	
CASING OR TUBING TYPE			IFICATION Weight	ı			SE INTERV			FILL-UP		PACKERS
	Size	Grade	per ft.	New	Used	For drilling		Left in well	-	ic feet)		
Conductor	20	H-40	94	X		30		30	CTS		Kinds	
resh water	12 2/0	77 / 0	1.0	<del>  ,,</del>					<b>#</b>	1		
Coal	13 3/8	<del>}</del>	48	X	1	600		600	CTS	By r	sie	15.05
ntermediate	<del></del>	H-40	36	X	1	1000		1000	CTS			
roduction	7	N-80	26	X	-	6350	_	6350	As Ne	<u>eded</u>	Depths set	
ubing	1 1/0	77 55	11.		-		_		<u> </u>	1		
inc. s	4 1/2	K-55	11.6	X		7252		7252	As Ne	eded /	Cycrio/arion	ele 15.0.
				-	+						/ Top	Bottom
			<del>                                     </del>	-								
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						ELICE LICE		* :		*		NP4-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
						FFICE USE						
						RILLING P	LKMI	ı				
ermit number	47-	019-0	572							00	ctober	29 19 85
							•	****		Da		
his permit cove	ering the w	ell operato	or and we	ll locati	on shown t	pelow is evidenc	ce of per	mission grant	ed to drill is	n accordar	nce with the	pertinent legal re-
uirements subj	ect to the c	onditions (	contained	herein	and on the	reverse hereof	√otificat	ion must be g	iven to the I	District Oil	and Gas In	spector, (Refer to Ill notify the proper
). 8) Prior to th	ne construct	ion of roa	ds, location	ons and	pits for an	y permitted wor ork has commen	rk. In a	ddition, the v	vell operator	or his cor	itractor sha	ll notify the proper
•				•								
`he permitted w everse hereof.	ork is as de	escribed in	the Notic	ce and A	Application	, plat, and recla	amation	plan, subject	to any modi	fications a	ind conditio	ons specified on the
	Oct	ober	29. 1	987		unless u	uali mark	i				
ermit expires						uniess w	ven work	is commence	prior to the	at date and	prosecuted	with due diligence.
		į								r		
Bond:	Agent	.   F	lat:	Casi	lng   F	ee WPC	P.	S&E	Other			
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