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WR-35



Sizie of West Birginia

DEPARTMENT OF ENERGY
Gil und Gas Bivision

Pate March	24, 1987
operator's Well No.	
Farm Southe	
API No. 47	- 005 - 1468

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

DRILLING, FRACTURING AND/OR STIMU	LATING, U	R PHISICAL	L CHANGE	
WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	nd Storag	e/ Deep	p/ Sha	llow X /)
LOCATION: Elevation: 1747.2' Watershed Roc	klick Bra	nch of Pon	d Fork	
District: Crook County Boom				nob
		•		
COMPANY A 1.1 and Erroll model on True				
COMPANY Ashland Exploration, Inc. ADDRESS P. O. Box 391, Ashland, KY 41114				Community
	Caşing	Used in		Cement fill up
DESIGNATED AGENT Forrest Burkett	Tubing	Drilling	in Well	Qu. ft.
ADDRESS P. O. Box 379, Brenton, WV 24818 SURFACE OWNER Southern Land Co. etal	Size 20-16	<u> </u>		
	Cond.			
ADDRESS P. O. Box 1385, Charleston, WV 25325 MINERAL RIGHTS OWNER Southern Land Co. etal	13-10"	27'	27'	5 sks
*	9 5/8	731'	731'	335 sks
ADDRESS P. O. Box 1385, Charleston, WV 25325	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry *	7	2097'	2097'	250 sks
Holcomb ADDRESS Rt. #2, Box 159, Hamlin, WV	5 1/2	2011		230 GRB
PERMIT ISSUED Dec. 19, 1986 25523	4 1/2	3518'	3518'	65 sks
DRILLING COMMENCED Feb. 20, 1987	3	3310	3310	05 583
DRILLING COMPLETED Feb. 27, 1987	2		34361	`
IF APPLICABLE: PLUGGING OF DRY HOLE ON	 	<u> </u>	3400	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			
CN :	used			
GEOLOGICAL TARGET FORMATION Lower Weir	*C	rc cmt to Dep	0.517	feet
Depth of completed well 3529 feet R	otary X	/ Cable	€ Tools	
Water strata depth: Fresh 200 feet;				· .
Coal seam depths: 379-409 Open Mine w/pill	afs coal	being mine	ed in the	area? yes
OPEN FLOW DATA			;	
Producing formation L. Weir & Big Lime	Pav	zone dept	3434-1 -2172-	3447 3176 fee t
Gas: Initial open flow No show Mcf/d				
Final open flow 622 Mcf/d			-	Bbl/d
Time of open flow between initi	•			
Static rock pressure 675# psig(surface		-		
(If applicable due to multiple completion-		·		
Second producing formation	Pay	zone dep	<u>Lh</u>	feet
Gas: Initial open flow Mcf/d		_	***************************************	
Final open flow Mcf/d			***************************************	Bbl/d
Time of open flow between initi		_		
Static rock pressurepsig(surface		-		rs shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Perf L. Weir 8H/3424-3428 - 24H/3435-3447 - 75 Q foam fractusing 500 gal 15% HCl, 42,000# 20/50 sand & 333,000 SCF N2 @ 20,000 SCF/min. BD @ 2350#, ATP 2350# @ 56 B/M foam, MTP 2400#, ISIP 1400#, 15 min 900#, TF 246 bbl.

Perf Big Lime 12H/3172-3176 - Acidize w/500 gal 15% HCl w/Fe agent, 1000 gal 20% CHA & 500 gal 15% HCl w/Fe agent. Displ. w/60 bbl. treated wtr. BD @ 1400#, ATP 500# @ 2-3 B/M, ISIP 0#, TF 132 bbl.

WELL LOG

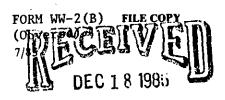
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and c
Sand & Shale L. Pottsville Sand Shale Ravenscliff Shale Avis LS Shale Stray Maxton Shale Upper Maxton Shale Break Middle Maxton Shale Lower Maxton Shale Little Lime Pencil Cave Big Lime Shale Injun Shale U. Weir Shale Lower Weir Shale Lower Weir Shale Lower Weir Shale	0 1347 2067 2140 2177 2198 2236 2277 2356 2372 2480 2482 2543 2711 3738 2770 2854 2864 3208 3210 3267 3312 3336 3419 3453	1347 2067 2140 2177 2198 2236 2277 2356 2372 2480 2482 2543 2711 2728 2770 2854 2864 3208 3210 3267 3312 3336 3419 3453 TD	MAR 25 198/ DIVISION OF OIL& GAS DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

ASHLAND EXPLORATION	N, INC.
Well Operator	Lengineering Technician
By: Kleck XI. China	Engineering Technician
Date: March 24, 198	7

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 that, encountered in the drilling of a well."





1) Date: Dece	ember 1	.8	86 ور
1) Date: Dece 2) Operator's 15 Well No.	Souther Seria	n Land Co il No. 110	57.1
3) API Well No.	47 _	005 -146	8
<i>b</i> , 111 2 · · · · · · · · · · · · · · · · ·	State	County	Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

		_					Y .							
4)	WELL TY	E:	A O)ii	/ Ga	S	<u> </u>				(D		/ Challess	Х
			B (I	f "Gas", l vation:	Production	, 		Vatershed:		ick P	/ Deep Branch of	Pond	J SHAHOW . Fork	
5)	LOCATIO	N:	Ele	evation: strict:	Crook	<u> 50</u>	<i>31</i>	-			25 Quadra			546
								County:			ED AGENT FO			7 (0
6)			TOR	ASILLAID	T EXPT	<u>Jrac</u>	TOICODI	2130			EDAGENI <u>IX</u>	O B	ox 379	
	Address								,	Address				818
					DE MOTIFIE				n Dei	LING	CONTRACTOR			
	OIL & GAS					IED					WA Drilli		mpany. In	c.
				2 Bo		-,				Address				
	Address			mlin.		523		 		10u: C 33	Elkvie			
10)	PROPOSE	D W	ELL	WORK:			_/ Drill				/ Stime	ilate	<u>^</u> /	
					-			/ Perfe	orate new	Iormati	on/			
								well (specify)						
							3517	eir 387				 		
	12) Estima		-	-			697	fec	t base k <u>san</u> e	e of	01 6.			
]	13) Appro.	xima	ite trai	la depths:	Fresh,	חי ח		feet; sa ne With _{Is c}				v		Y
	14) Appro						Pillar	HE WILL ISC	oal being r	ninea in	tne area? Yes_	^	/ No	/
•	CASING A	 עמאי	LOB				TTTAL						h	
	ING OR ING TYPE	1 .		SPEC	IFICATIONS Weight		. 1	FOOTAGE	INTERVAL	\$	CEMENT F		PACKERS	
		,	Size	Grade	per fl.	New	Used	For drilling	Le	î la well	(Cubic f	eet)		
Condu	uctor	13		H-40	48	_X_	 	30	- -	30_	CTS		Kinds	
Fresh	water	9	5/8	H-40	32.3	_X	∤	727		727	CTS			
Coal		ļ. <u>.</u>					 _ 						Sizes	
Intern	nediate	7		J-55	20	<u>X</u>	1	2100		2100	CTS			
Produ	ction	4	$_{1/2}$	J-55	10.5	_X_	↓	3517		3517	As Requ	ured	Depths set	·
Tubin	£						11							
Liners	<u> </u>			<u> </u>			1		<u> </u>				Perforations:	
		<u> </u>			<u> </u>								Тор	Bottom
		L		 										
				L	<u></u>		<u>il</u>			<u>.</u>	l		<u> </u>	
														
							(OFFICE USE	ONLY					
							1	DRILLING P	ERMIT					
				47-005	1/60						т	اده معا	oer 19	19 86
erm	it number_			7 /_00_	1400							Dati		
This i	permit cove	rino	the w	ell operato	r and well	locatio	on shown	below is evidence	of nermis	ssion era	inted to drill in s			inent legal re.
uire:	ments subje	ct to	the c	onditions of	contained	rerein a	and on the	reverse hereof	etification	must be	oiven to the Dis	trict Oil :	and Gas Inspect	or (Refer to
0. 8)	Prior to the	coi	istruct	lion of roa	ds, locatio	ns and	pits for ar	reverse hereof No	, In addi	tion, the	well operator of	r his con	tractor shall not	ify the proper
istric	ct oil and g	as in	specto	or 24 hours	before ac	tuai pe	rmitted w	ork has commend	ed.)				•	
•		ork i	s as d	escribed in	the Notic	and A	application	, plat, and reclar	nation pla	n, subjec	ct to any modific	ations ar	nd conditions sp	ecified on the
	se hereof.			Dacami	er 19.	109	ìΩ							
Perm	it expires _			Decem	JEL 19	130		unless we	H WOTK IS C	commen	ced prior to that o	date and	prosecuted with	aue ailigence.
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Be	ond:	A	genț	: P	184	Casi	ng I	ee WPp	∦ [∨] s	SAE	Other			
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							74	,	/		/11/ 1			
ידהע	E: Keep or	ne c	onv of	this nerm	it nosted s	t the d	tilling locs	rion.			A The			
	Recp U			- ma perm	posted a	c u		I	irect	200	Westen of	011	and Gas	File
				See	the reverse	side o	f the APP	LICANT'S COP	For Insti	ructions	to the well open	stor.		<u> </u>

