

REVISED MAY 22, 1992

FORM WW-2B

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	ST	ATE	<u>of</u>	WEST	VIRGI	NIA				Issued	6	12
DEPARTMENT	OF	ENE	RGY	, DIV	ISION	OF	OIL	AND	GAS	Expres		
					APPLI					~ Chouse	4	((4

1)	Well Operator: Ashland Exploration, Inc.	2750 (5) 363
2)	Leckie-Ramsay Coal Co. Operator's Well Number: A-7, Serial # 140551	3) Elevation: 1534'

4) Well type: (a) Oil__/ or Gas_X_/

> (b) If Gas: Productionxx/ Underground Storage__/

> > Deep__/ Shallowxx/

5) Proposed Target Formation(s): Devonian Shale

6) Proposed Total Depth: 6060'KB

7) Approximate fresh water strata depths: 494'KB (Map WV-12)

8) Approximate salt water depths: 1019'KB (Map WV-12)

9) Approximate coal seam depths: Gilbert Seam - 344'KB - Mined Out

Does land contain coal seams tributary to active mine? 10) Nox/

Proposed Well Work: Drill and Stimulate New Well 11)

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTA	P.D. Cement	
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu.ft.)
Conductor	16	LS	36,91	30	30	3805918-11,3 CTS
Fresh Water —	P/13/4	,		,550'	550'	CTC
Coal	11 3/4	H40	42,0	550'	550'	CTS
Intermediate '	8 5/8	J55	24.0	1825	1825	385818-11-21
Production	5 1/2	J55	15.5	6060		AS NEEDED
Tubing	1,9	J55	2.76	-	6010	38/39/01/11 SIPHON
Liners	Offer allocates in the control of th					O LI HON

through fresh water + Open mine **PACKERS**

Division of Oil and Gas Use Only

Well Work Permit Reclamation Fund

•		Permitting	3)	API Well	No: 47	- <u>109</u>	- 1273
		Office of Oil & Gas			State -	County	- Permit
		STATE O	r wrcm	VIRGINIA			
	DE	EPARTMENT OF ENER	GY, DI	VISION OF	OIL AND	GAS	
	NO	TICE AND APPLICA	TION F	OR A WELL	WORK PER	MIT	
4)	Surface Owne	er(s) to be serve	d •	5) (a) C	oal Opera	÷~~.	
	(a) Name Ro	dney Hatfield	· ·	Name N	Jai Opela I/A	cor:	•
	MagressDO	X JZ-A		Address			
	На	nover, WV 24839		•			
	(b) Name			(b) Coal	Owner(s)	with De	claration
	Address			Name <u>Hei</u>	rs & Assign	ns of Leck	tie-Ramsav
	(G) Name			Address	Coal Co	See Distr	ibution on
	Address		····	2.5	Cover Lette	er	
	Address			Name			
				Address			
6)	Inspector	Rodney Dillon		(C) Coal	Lessee w	ith Dogl	
	Addrage	D O Dog 121		3.7	1		aracion
		Bradley, WV 25818		Address	HCR 60. Bo	0×12	
	Telephone (3	04)877-2912		•	Iaeger, W	7 24844	

	ro	THE PERSON(S) NA	MED ABO	OVE TAKE I	NOTICE THE	AT:	
	Included :-	<u> </u>					
contr	ante hy which	the lease or lease	ses or	other cor	ntinuing (contract	or
X	Included is	th I hold the right	nt to (extract of	il and gas	S <u>OR</u>	
Secti	on 8(d) of t	the information the Code of West	require	ed by Char	pter 22B,	Article	1,
	I certify th	at as required u	oder Ci	ta (see pa	age 2)		
I hav	e served cop	ies of this notic	re and	napter 221	or the w	west Vir	ginia Code
accon	panying docu	ments pages 1 th	rough	2 on the	on, a roc	cation p	iat, and
	rersona	T SELATCE (VILIGS	avit ai	rtached)			cies, by:
	X Certifi	ed Mail (Postmar)	ked pos	stal recei	ipt attack	ned)	
	Publica	tion (Notice of P	Publica	ation atta	ched)	ica,	
	•						
4- 4-1	i have read	and understand Cl	napter	22B and 3	88 CSR 11-	-18, and	I agree
ro tu	e cerms and	conditions of any	v perm	it issued	under the	ie annli.	+:
	T CETCITA MII	uer behaltv of la	aw thai	r I have r	.orcom=11.		
2++20	TOT ATCH FILE	Incormation subr	nitted	on this =	nnlianti	- F	
respo	nsible for o	that based on my	inquii	y of thos	se individ	duals im	mediately
is tr	ue, accurate	btaining the info , and complete.	ormatio	on, I beli	eve that	the inf	ormation
	I am aware t	hat there are significant	nific:	ant nonale			
infor	mation, incl	uding the possibi	ility	of fine ar	les for s	submitti	ng false
	•	Well Open	ator	Ashland Ex	nd Impriso	nment.	
	•	Made By: W. N	lark Par	ks W	an a sun	IIIC.	
		Its:	peratio	ns Manager	132	4	
		Address _	P.O. F	30x 391			
			Ashlar	d KY 4111	4		
Suber	ribed and	Telephone	606-	329-5989			
- unsc	TINEM WHO SW	orn before me thi	s <u>7th</u>	_day of _	May		<u>, 19 92</u>
	-Ulle 11	1. Umta				Q.T 4	
Му со	mmission exp	ires <u>November 23</u>	. 1994				ary Public

1)

2)

Date: May 7, 1992

Operator's well number

Leckie-Ramsay Coal Co. #A-7, Serial #140551

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(09/87)

W. **Environm**ent

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Recorded	mananan da salahaha da salahan dalahaha da salah salaha salah salah salah salah salah salah salah salah salah s	akanin dipenganakan jaran kasa senga anaga pada kasa senga anaga senga senga senga senga senga senga senga se

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work Operator Well No.: A-7 S-140551 Farm name: HATFIELD, RODNEY LOCATION: Elevation: 1534.15 Quadrangle: GILBERT Environmental accessors OT 2 6 District: HUFF CREEK County: WYOMING Latitude: 10180 Feet South of 37 Deg. 35 Min. 0 Sec. Pernitting Longitude: 2980 Feet West of 81 Deg. 47 Min. 30 Sec. Office of Oil & Gas ASHLAND EXPLORATION, INC. Company: P. O. BOX 391, A1-6 Casing Used in Left. Cement ASHLAND, KY 41114-0391 & Drilling in Well Fill Up Tubing Cu. Ft. Agent: B. E. WIDENER Size Inspector: RODNEY G. DILLON 16" 32' 32' 11.8 Permit Issued: 06/12/92 Well work Commenced: 07/26/92 11 3/4" Well work Completed: 10/13/92 560' 560' 422 Verbal Plugging: Permission granted on: Rotary X Cable Rig
Total Depth (feet) 6040 8 5/8" 1869 1869' 533 Fresh water depths (ft) 5 1/2" None noted 6000' 6000' 658 Salt water depths (ft) None noted 1.9" @ 5910' w/ R-4 pkr 0 3930' Is coal being mined in area (Y/N)? N 1.9" 0 3887' Coal Depths (ft): None noted OPEN FLOW DATA Berea 3880-3899 Big Lime 3226-3236 Pay zone depth (ft) <u>2476-2492</u> Producing formation <u>Maxton</u> Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d Final open flow 1723 MCF/d Final open flow --- Bbl/d Time of open flow between initial and final tests _____ Static rock pressure _____595#_ psig (surface pressure) after _____72 ___ Hours Second producing formation Devonian Shale Pay zone depth (ft) $\frac{4655-5941}{6as}$: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d Final open flow 676 MCF/d Final open flow --- Bbl/d Time of open flow between initial and final tests ______ 3 Hours ON BACK OF THIS FORM PUT THE FOLLOWING: 1. DETAILS OF PERFORATED INTERVALS,

FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETIALED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: AS	HLAND E	XPLORATI	IONL INCA					
By:	_ Son	 d	Stiplus	James	L.	Stephens,	Eng.	Tech.
Date:			70/22/92					

Formation on Rock Type	TOP	<u>BASE</u>	
Sand and Shale Lee formation Pennington formation Ravenscliff 2000-2122 U. Maxton 2206-2266 M. Maxton 2378-2573 L. Maxton 2722-2754	0 1096 1698	1096 1698 2804	
Little Lime Big Lime Borden formation Sunbury Shale Berea Devonian Shale Onondaga Ls	2804 2877 3297 3856 3879 3919 6022	2877 3297 3856 3879 3919 6022 TD	RECESSION OF THE PROPERTY OF T
DTD 6040 LTD 6041			Permitting Office of Oil & Gas

11 3/4" and 8 5/8" casing cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 18H/5719-5941. N_2 frac using 841,000 scf N_2 @ 97,919 scf/min and 300 gal 9% fe acid. BD 3676#, ATP 4186#, MTP 4300# and ISIP 2898#.

Perf Huron 23H/5043-5390. N_2 frac using 400 gal $7\frac{1}{2}\%$ fe acid, 849,000 scf N_2 @ 107,294 scf/min. BD @ 3026#, MTP 3508#, ATP 3457# and ISIP 2138#.

Perf U. Dev. Shale 22H/4655-4902. N_2 frac using 300 gal $7\frac{1}{2}\%$ fe acid, 903,000 scf N_2 @ 105,458 scf/min. BD @ 3337#, MTP 3337#, ATP 3240# and ISIP 1978#.

Perf Berea 30H/3880-3899. 75 quality foam frac w/ 61,500# 20/40 sand and 299,000 scf $\rm N_2$ 0 8327 scf/min. BD 0 1535#, ATP 1294# 0 20 BPM, MTP 1581# and ISIP 1374# and TF 171 BBls.

Perf Big Lime 21H/3226-3236. Foam acidize using 500 gals 15% fe acid and 3500 gal 28% fe acid and 65-75Q foam, 231,000 scf N_2 @ 7600, 8600, 11,000 scf/min. BD 2326#, MTP 2610#, ATP 2186# @ 13-15 BPM foam rate and ISIP 1836#.

Perf M. Maxton 33H/2476-2492. 75 quality foam frac using 500 gal 14% fe acid, 35,300# 20/40 sand, 174,200 scf $\rm N_2$ @ 9000 scf/min. BD 1525#, MTP 3947#, ATP 2350# @ 40 BPM foam rate, ISIP 3800# and TF 115 BBls.