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State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

JUL 1 5 91

Well Operator's Report of Well Work

Farm name: MULLINS, IRA, ETAL

Operator Well No.: A-2 S-133551

LOCATION: Elevation: 869.64 Quadrangle: CHAPMANVILLE

District: GUYAN County: LOGAN
Latitude: 8510 Feet South of 38 Deg. 0 Min. 0 Sec.
Longitude 3560 Feet West of 82 Deg. 0 Min. 0 Sec

	01 02	Deg. 0 Mi	n. U Sec	•
Company: ASHLAND EXPLORATION, INC.				
P.O. BOX 391, A1-6 ASHLAND, KY 41114-0391	Casing	Used in	Left	Cement
Agent: FORREST BURKETT	Tubing	Drilling	in Well	Fill Up Cu. Ft.
Inspector: TIM BENNETT	Size			
Permit Issued: 01/18/91 Well work Commenced: 4/26/91 Well work Completed: 6/25/91	_16''	37'	<u> </u> 37	8.26
Verbal Plugging Permission granted on:	8 5/8"	1157'	1157	566
Rotary X Cable Rig Total Depth (feet) 3965 Fresh water depths (ft) 1/4"stream 141"	5 1/2"	39391	39391	537
Salt water depths (ft)	1.9 @	2055' kb		
Is coal being mined in area (Y/N)? N Coal Depths (ft): None noted while drlg.	1.9 @	 3841' kb	 W/ADL-1 @	2072'

OPEN FLOW DATA

Producing formation Devonian Shale Gas: Initial open flow 15 MCF/d Oil:	
Time of open flow between initial	Final open flow Bbl/d
Static rock Pressure 560# psig (surf	and final tests 3 Hours ace pressure) after 72 Hours
Second producing formation Berea Injun Gas: Initial open flow MCF/d Oil	Pay zone depth (ft) 1991-2001
Time of open flow between initial Static rock Pressure 425# psig (surf	and final tests 3 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE,

For: ASHLAND EXPLORATION, INC.

By: J. L. Stephens - Eng. Tech.

Date: July 11, 1991

Breathitt formation 0 Lee Formation 364 Pennington formation 980	
Pennington formation 980	364
L. Maxton 1175-1186	980 1206
Little Lime Big Lime Borden formation 1173-1100 1206 1253 1458	1253 1458
Injun Sand 1511-1518 Sunbury Shale Berea Sand Devonian Shale Onondaga Ls. 1458 1957 1984 2011 3952	1957 1984 2011 3952 TD

Well treatment

Perf L. Dev. Shale 17H/3710-3909, N. frac using 500 gal 7% inh fe acid, 807,000 scf N 2 84,900 scf/min. BD @ 2847#, ATP 4300#, MTP 4410#, ISIP 2889, & 15 min 1975#.

Perf M. Dev. Shale 24H/3084-3503. N frac using 500 gal 7 1/2% inh fe acid, 807,000 scf n @ 107,800 scf/min. BD @ 2889#, ATP 3203#, MTP 3250#, ISIP 1982#

Perf. U. Dev. Shale 18H/2233-2635. No fractusing 500 gal 8% inh fe acid, 810,000 scf. 2 @ 93,943 scf/min. BD 3407#, ATP 4268#, MTP 4458#, ISIP 2665# & 15 min 1200#.

Perf Berea 15H/1991-2001. 75 Quality foam frac using 250 gal 17 1/2% inh fe acid, 31,000# 20/40 sand& 230,160 scf n @ 7672 scf/min. BD @ 2600# ATP 3385# @ 20 BPM, MTP 4700#, ISIP 4500# & TF 157 bbls. Screen out.

Perf Injun Sand 15H/1511-1518. 75 Quality foam frac using 250 gal 16% inh fe acid, BD erfs with acid & 40,000 scf n $_2$ @ 8,000 scf/min. BD @ 2230#, ATP 2860# @ 20 BPM foam ate, MTP 4741#. Well screened out.

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045-115 Dosud 1/18/91 Expres 1/18/93 Page 1 of 1

(Type)

STATE OF WEST VIRGINIA

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DEPT.	ODEPART	MENT	OF	ENE	RGY,	DIV	/IS:	ION	OF	OIL	AND	GAS
321.	J	יי יבול אי	r	MODE	ם יש	MIM	ADI) T T (י א מיז	140		

_	A Company of the Comp		m mail	APPLICATION		
1) Well Ope	rator:_	Ashland Ex	xploration,	Inc. 27	50 (4)	288
2) Operator	's Well		F. Ferrell -2, Serial #		3) El	evation: 869.64
4) Well typ	e: (a)	0il_/	or Gas	5 <u>X</u> /		
	(b)	If Gas:	Production	n <u>X</u> / Undergr	ound Storag	
			Dee	441	Shallo	wX/
5) Proposed	Target	Formation	(s): Devon	ian Shale		·
6) Proposed	Total D	epth:	3960'KB	feet		
7) Approxim	ate fres	h water s	trata depi	hs: 625'KB (Map WV-12)	
8) Approxim	ate salt	water de	pths: 40	0'KB (Map WV-1	2)	
9) Approxim	ate coal	seam dep	ths: Not	Operated - Sol	id Coal	
10) Does lan	d contai	n coal se	ams tribut	ary to acti	ve mine? Y	es/ No_X/
11) Proposed	Well Wo	rk:			In the later	
12)		THE	C Z Stin	nulate Mi	Marie	
		CASIN	G AND TUB	ING PROGRAM		
TYPE	i s	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						38CSR-1811-3
Coal			And the second s		7	38CSP-18-11-2.
Intermediate	8 5/8	J55	24.0	1000	1000	Lead w/Cl A (2% Gel, 3% CaCl Tail w/100 sx.
Production	5 1/2	J55	15.5	3960	3960 7	Tail w/100 sm.
	1.9	J55	2.76			3BCSF18-11.
Tubing	107		4.0		3910	Siphon
Liners	ACCUSATION AND ACCUSATION ASSAULT CONTROL OF A CONTROL OF					
PACKERS : Kin	es					
/ L	ths set					
, 05	F /		n or Oll a ork Permit	ind Cas Use	Only	1

	WW2-A	1001	2)		's well number
(UJ/O Fila	37) Copy	JAN 0 2 1991	21	O.F. Ferre	ell, et ux #A-2, Serial #133551 No: 47 - 045 - 1152
	CODY	A SEPT. OF WHERE !	3)		State - County - Permit
		The state of the s			state - County - Permit
		STATE OF	WEST	VIRGINIA	
		DEPARTMENT OF ENERG			
		NOTICE AND APPLICAT	ION FO	OR A WELL	WORK PERMIT
4)	Surface C	wner(s) to be served	•	5) (a) C	oal Operator:
	(a) Name	Ira Mullins		Name	
	Address _	Ira Mullins P.O. Box 24		Address	
		Chapmanville, WV 25508 Alvin Dingess			
	(b) Name	Alvin Dingess			Owner(s) with Declaration
	Address _	P.O. Box 351		Name	Ira Mullins
	(a) Name	Chapmanville, WV 25508			P.O. Box 24
	Address			Namo	Chapmanville, WV 25508
			***************************************	Address	
			Maritime of the same		
6)	Inspector	Tim_Bennett		(c) Coal	Lessee with Declaration
	Address _	Route 2. Box 61-B		Name	
		Chapmanville, WV 255	508_	Address	
	Telephone	(304) - <u>855-7705</u>			
		TO THE DESCONCE NAME	מג מים	NITE MARIE	NOME OF MUSM.
		TO THE PERSON(S) NAM	EU ABC	JVE TAKE I	NOTICE THAT:
	Included	is the lease or leas	es or	other co	ntinuing contract or
contr	acts by w	hich I hold the right	t to e	extract o	il and gas OR
_X	Included	is the information re	equire	ed by Chai	pter 22B. Article 1.
Secti	on 8(d) o	of the Code of West V	irgini	ia (see pa	age 2)
	I certify	that as required und	der Ch	napter 221	B of the West Virginia Code
I hav	e served	copies of this notice	e and	applicat:	ion, a location plat, and
accom	mpanying d	ocuments pages 1 thre	ough	2 on the	e above named parties, by:
	Pers	onal Service (Affida	vit at	tached)	
	_X Cert	ified Mail (Postmark	ed pos	stal rece:	ipt attached)
	Publ	ication (Notice of Pr	uplica	ation atta	acned)
	I have re	ad and understand Ch	enter	22B =nd :	38 CSR 11-18, and I agree
to th	e terms a	nd conditions of any	permi	t issued	under this application.
	I certify	under penalty of law	w that	: I have p	personally examined and am
famil	iar with	the information subm	itted	on this a	application form and all
attac	hments, a	nd that based on my :	inquir	y of thos	se individuals immediately
respo	nsible fo	r obtaining the info	rmatic	on, I beli	ieve that the information
is tr		ate, and complete.			
infor	I am awar	e that there are sign	nitica	int penalt	ties for submitting false
THLOT	macron, 1	ncluding the possibil	itty c	or rine ar	Exploration, Inc.
		By: <u>J. T.</u>			MI DOCC
		Its:Vi			July 2010
		Address P			
		A	shland	, KY 41114	
O		Telephone	606-	329-5450	
o u DSC	ribed and	sworn before me this	31st	_day of _	<u>December</u> , 19 <u>90</u>
	7/1/18	11. Sonto			Motoric Diblic
Му со	mmission	expires November 23.	1994		Notary Public
		- /			West Market Communication of the Communication of t

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Date: December 31, 1990

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Page 1 of 2 Form WW2-A