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JUL 16 1990

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

DEPT. OF ENERGY

Well Operator's Report of Well Work

Farm name:

CASTO, DAVID D. ADM. Operator Well No.: 29-S-120681

LOCATION:

 $\alpha x - 22$

Elevation: 1038.22 Quadrangle: KENTUCK

District: WASHINGTON

County: JACKSON Latitude: 13500 Feet South of 38 Deg. 45Min. 0 Sec.

Longitude 4200 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.

- P.O. BOX 391, A1-6

ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: JERRY TEPHABOCK Permit Issued: 04/04/90 Well work Commenced: 5/9/90 Well work Completed: _6/25/90 Verbal Plugging Permission granted on:__ Rotary X Cable Rig
Total Depth (feet) 5425 Fresh water depths (ft) 71' 1/4" stream, 143 1/2" stream, 826
Salt water depths (ft) 1 1/2" stream @ 1900* Is coal being mined in area (Y/N)?

Coal Depths (ft): Not noted during drl'g

	Casing	& j		Fill Up	
	Tubing	Drilling	in Well	Cu. Ft.	
	Size				
	16"	47 "	47"	7 cuft.	
	9 5/8"	870*	870	324 cuft	
	7"	2315	2315'	324 cuft	
o campas consequentes	4 1/2"	5361'	5361'	 298 cuft	
	2 3/8" ti	g @ 5257' KB			

OPEN FLOW DATA

Producing formation Devonia	n Shale Pav z	one depth (ft) 3800_5280
das. Inicial open flow o	MCF/d Ull: Initial	open flow shi/d
Final open flow 561	MCF/d Final on	en flow Bhl/d
Time of open flow between	en initial and final	tests 2 Pours
Static rock Pressure 1060	psig (surface press	ure) after to Hours
	_po-5 (ourrace bress	are, areer // nours
Second producing formation	Pay z	one depth (ft)
Gas: Initial open flow	MCF/d Oil: Initial	one depth (ft) open flow Bbl/d
Gas: Initial open flow Final open flow	MCF/d Oil: Initial MCF/d Final on	open flow Bbl/d
Gas: Initial open flow Final open flow Time of open flow between	MCF/d Oil: Initial MCF/d Final on	open flow Bbl/d
Gas: Initial open flow Final open flow Time of open flow between	MCF/d Oil: Initial MCF/d Final on	open flow Bbl/d en flow Bbl/d tests 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: James L. Stephens, Engr. Tech. Date: 7/13/90

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JEFT OF ENERGY

FORMATION		TOP	BASE
Sand & Shale		0	1868
Lower Lee Sand	-	1868	2067
Shale	253 Part 1	2067	2118
Big Lime	7666	2118	2171
Shale		2171	2189
Injun		2189	2253
Shale		2253	2631
Coffee Shale	<u> </u>	2631	2655
Berea	4 4841	2655	2666
Devonian Shale	. 1013	2666	5403
Onondaga LS	Rh 5116	5403	TD

DTD 5425 LTD 5410

WELL TREATMENT

Perf L. Dev. Shale 25H/4937-5280. N₂ frac using 500 gal 15% Inh. Fe acid & 1,000,025 SCF N₂ @ 86,000 SCF/min. BD @ 3058#, ATP 4398#, MTP 4068#, ISIP 1844# & 15 min 1728#.

Perf U. Dev. Shale 25H/3890-4548. N2 frac using 1000 gal 7 1/2% Inh. Fe acid & 1,000,014 SCF N2 @ 85,000 SCF/min. BD @ 2307#, ATP 3831#, MTP 4160#, ISIP 2106# & 15 min 1529#.

FORM WW-2B MAR 16 1995

035 2208 Issued 4/4/90

1_4-Agent

(Type)

Page 1 of 1

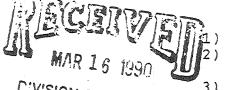
DEPARTMENT STATE OF WEST VIRGINIA COMES 4/4/92

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

		•	- MERE MO		<u>APPLICATION</u>	-	
1)	Well Ope	erator:		OC43 uploration,]		(5)	414
2)	Operato	r's Well		E. W. Perkins 29, Serial #1		3) E	levation: 1038.2
4)				or Gas			
					 n <u>X</u> / Undergr	ound Store	ae /
					2441	Shall	
5)	Proposed	l Target	Formation	n(s): Devon			
5)							
7)	Approximate fresh water strata depths: 671, 936						
3)	Approximate salt water depths: 2023'KB						
3)	Approximate coal seam depths: None						
10)	Does lar	nd contai	n coal se	eams tribut	ary to acti	ve mine?	Yes/ No_X_/
Ll)		d Well Wo		つ ' <i>1</i> .	Einelote.		
12)			W/	un Z	umuare.	ppen poo q	
			CASIN	NG AND TUBI	NG PROGRAM	•	
CABE		S	PECIFICAT	CIONS	FOOTAGE IN	TERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ıctor	16	LS	42.0	30	30	CTS
	n Water	95/4	7/40	32.3	956'	956	645 ·
Coal		100				14	38391811.3
	mediate	8.38	J55	24.0	2303	2303	DENTINA
	ction	12/2	J55	15.5	5413	//	38CBR-11.
Cubir		1.9	J55	2.76	J413	5413	As Needed
		1.0		2.70		5363	Siphon
Liner							
PACKE		es					
	Dep	ths set					
,845		Ţ	or Diviso	on of Oil a	nd Gas Use	Only	\mathcal{O}_{2}
0	Fee(s) p	oaid:	Well W	ork Permit	Recl	amation Fur	IN WPCP

Plat | WW-9 | WW-2B | Bond June 1

Form WW2-A (09/87)File Copy



C'V'SICN OF OIL & GAS

Date: March 13, 1990 Operator's well number E. W. Perkins, etal No. 29, Serial #120681 API Well No: 47 - 035 -State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4 /	(a) Name	wher(s) to be served:	<pre>5) (a) Coal Operator: NameN/A</pre>	•
	Address _		Address	
	(b) Name	David D. Casto, Adm.	(b) Coal Owner(s) wit	h Declaration
		Route 2, Box 25A	Name No Coal	
	(c) Name	Kenna, WV 25248	Address	
	Address		Namo	
			NameAddress	
6)	Inspector	Jerry Tephabock	(c) Coal Lessee with	Declaration
	Address _		Name	
		Ripley, WV 25271	Address	
	Telephone	(304) - 372-6805		
		TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:	
-	Included	is the lease or leases o	r other continuing cont	* ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
F 17 17 17 17 1	tacts by w	nich i hold the right to	extract oil and dad on	
~ Y F	ructuded	15 the information requi	red hy Chanter 220 and	icle 1
Sect	ron o(a) o	I the Code of West Virgi	nia (cee name 2)	•
	I certify	that as required under	Chanter 220 of the West	Virginia Code
I hav	AC DETACM	CUDIES OF ENIS NOTICE and	d application a locati	
accor	"Fanling a	ocuments pages I through	4 on the above named	narties by:
	FELS	onal Service (Affidavit ;	attached)	pareres, by.
	_XCert	ified Mail (Postmarked n	ostal receipt attached)	
	Publ	ication (Notice of Public	cation attached)	
	I certify	ad and understand Chapte: nd conditions of any peri under penalty of law the	mit issued under this ar	oplication.
famil	rad Mirit	ule information submitted	d on this appliantion s	
~~~~~	rimerica, ar	iu tiat based on my indii	lrv of those individual.	
-6356	MIDITULE IO	couldining the informati	ion, I believe that the	information
TO LI	-ue, accura	are, and complete.		
infor	r am aware	that there are signific	cant penalties for submi	itting false
1111 01	-Macron, 1	icluding the possibility	of fine and imprisonmen	1t,
		Well Operator	Ashland Exploration Ind.	
		AHC By: J. T. Melli	nger	now
		Its: Manager	Eastern Region	
		Address P.O.		
		— ASNIA	and, KY 41114	
Subsc	ribed and	Telephone $\underline{606/}$ sworn before me this $13th$	329-5450	<u> </u>
	1/ 1	paoru perore me curs inc	day of March	, 19 <u>90</u>
	Vicke.	11. Nonta		
му со	ommission e	expires November 23, 1990	)	Notary Public