

(Rev 8-81)



Sinte of Mest Alirginia Well No.

Date October 4, 1983 Operator's 224 Farm W. M. Ritter API No. 47 - 109

(Continue on reverse vide

Department of Allines noieivich and bnu lio

## WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Used in Drilling  40'  1397'	Matheny  Left	Din
Used in Drilling 40' 551'	Left in Well 40' 551'	Cement fill up Cu. ft. 30 sks 275 sks
40' 551' 1397'	Left in Well 40' 551'	Cement fill up Cu. ft. 30 sks 275 sks
40' 551' 1397'	in Well 40' 551'	fill up Cu. ft. 30 sks 275 sks
40' 551' 1397'	in Well 40' 551'	fill up Cu. ft. 30 sks 275 sks
40' 551' 1397'	in Well 40' 551'	fill up Cu. ft. 30 sks 275 sks
40' 551'	40' 551'	30 sks 275 sks
1397!	551'	275 sks
1397!	551'	275 sks
1397!		Shall
1397!	1397'	100 sks
1397!	1397'	100 sks
	2000 10 10 10 10	isdê
	EOS KAR	eggü
50181	5018°	118 sks
3018	Datas of S	LBGS
	5080	Shall
s	evs0 11	Peni
	and the latest	F 40
Dep	th 6155	feet
x / Cabl	e Tools	Веге
feet	no	
al being min	ed in the	area? No
	1506	Class Foot
Pay zone de	63	DL7 /3
Initial open	I ITOM	BD1/0
Final open I	10.4	BDI/O
l final tests	5 ho	ours
irement) after	er216 hou	irs shut in
-		
Final open i	flow	Bbl/d
	5h	ours
	Pay zone der Initial open f Initial open f I final tests urement) after Pay zone der Initial open Final open f I final tests	Pay zone depth 1526- Initial open flow Final open flow I final tests 3 hourement) after 216 hourement Initial open flow Final open flow Final open flow I final tests hourement) after hourement hou

(PEVARSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STHULATING, PHYSICAL CHANGE, ETC.

Devonian Shale - open hole foam frac w/75 Quality foam w/650 sks 20/50 sd & 100 sks

10/20 sd & 1230 MCFN2. BD @ 3400#, ATP 3700#, MTP 3900#, ISIP 1500#,

15 min 1175#, ATR 63.5 B/M, TL&FW 340 bb1, TSLF 240 bb1. open hole below 5080

Berea & L. Weir - perf 31H/3151-3535 w/75 Qualtiy foam frac w/50,000# 20/40 sd &

420 MCFN2. BD @ 1500#, MTP 1700#, ATP 1650# @ 10 B/M, ISIP 950#, 15 min 750#. TL&FW 332 bbl., TSLF 220 bbl.

S. Maxton & Ravencliff - perf 25H/1656-1839 - water frac w/40,000# 20/50 sd & 5 balls (active) BD @ 2300#, ATP 3000# @ 18 B/M. MTP 3300#, ISIP 1500#, TL&FW 710 bb1, TSLF 528 bb1.

Princeton - perf 30H/1526-1556 - Frac w/20#/M gal gel system w/50,000# 20/40 sd. BD @ 1900#, ATP 2500# @ 25 B/M. MTP 2700#, ISIP 1800#, 15 min 1100#. TL&FW 588 bb1, TSLF 520 bb1.

## WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	RÉMARKS Including indication of all fres and salt water, coal, oil and ga
Sand & Shale	0	228	Fresh wtr @ 165'
Shale & Sand	228	414	
	414	514	
Sand & Shale	514	572	molisioles Seeldea YKAGKCO
	572	698	
Sand & Shale	698	724	ADDRESS P. O. Box 391, Aski
· Sand	724	914	DESIGNATED ACENT FORWARD B
Lower Salt Sand	914	1380	THE LIE TATES WELDSTICES
Shale	1380	1521	ADDRESS P. O. Box 156, Brens
Dudasakan	1521	1568	
Shale	1568	1605	SURFACE CAMER Charles & Zel
	1605	1699	ADDRESS Box 81, Matheny, WV
Ravencliff Shale	1699	1700	
Avis LS	1700	1740	MINERAL RIGHTS CRINER GEORGE
AVIS LS	1740	1832	ADDRESS 133 Feachtree, Atlan
Stray Maxton	1832	1845	TO STANDED THE CONTINUE
Shale	1845	1908	OIL AND GAS BASEFFICE FOR
Unner Maxton	1908	1970	an exercise in
Shale	1970	2084	Schoolcraft standed Box
Silate	2084	2133	PERMIT YESDED 3/5/83
Shale & Sand	2133	2331	The state of the s
Lower Maxton	2331	2370	/ DELITING CONNENCED . 1/9/
Shale	2370	2424	CONTRACTOR OF COMME
Little Lime	2424	2501	WEST TRANSPORT OF THE PARTY OF
Pencil Cave	2501	2519	IF APPLICABLES PLUGGENG C
Big Lime	2519	2946	CONTINUOUS PROGRESSION FIN
Shale	2946	3150	REMOTEXATING. VERBEAL PERMISS
Lower Weir	3150	3169	100
Shale & Sand	3169	3482	
Coffee Shale	3482	3514	WTOMERS WINDAW TANKS TOWN
Berea	3514	3544	TOTAL TOTAL CONTROL
Devonian Shale	3544	3677	Depth of completed w
Gordon	3677	3702	
Devonian Shale	3702	6072	Water strata depth:
Onondaga LS	6072	TD	Coal seam depths:
DTD 6126 LTD 6126	rea, L. Wede	ev. Shale, Te	OPEN FLOW BREE

(Attach separate sheets as necessary)

ASHL	AND EXPLORATION, IN	NC.
Well Ope		Static rock p
By: Wew	le S. Dina	(If applicabl
Date: Octo		Second produc

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 the drilling of a will

DRILLING CONTRACTOR:



)	Date: April 29	. 1993		
,	0 +- 1			

Operator's Well No. 47 3) API Well No.

Permit

State

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

## OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE		'Gas'', Pi	oduction	X		Underground st	orage	_/ Deep	_/ Shallow/)
5) LOCATION			1495.8 Oceana				1 Br. of La		lear Tk of Guyan
6) WELL OPE	Distri			rati	on, I	County:	DESIGNATED	Quadrangle:	t Burkett
Address	STOR SEE	.O. B	DE 391		(LARISAL)	al a ca present	Address	Barton P.O. B	
	A	shlan	d, KY	4111	A	ALL OUGH ALL		Brento	n, WV 24818
OIL & GAS ROYALTY	OWNER 6	eorgi	a-Pacif	ic C	lorp.	10	2) COAL OPERA	TOR None	
Address			achtree	-	MARINE V	Lighter area	Address	No. of the second	A BERTON TO
	A	67,2		3030	13				Database
Acreage SURFACE O	WNED	harle		Zeld	a Sull	Livan 13	Name	R(S) WITH DECLAR	RATION ON RECORD:
Address	P	.O. B					Address		
	M	lathen	y, WV	2486	0				Lingstein 16
Acreage	- (IE MAD	D) TO:					Name	OR OF BUILDING SU	
FIELD SALI Address	CIF MAD	E) 10:	restau e				Address	on alwayin . Saiding	regulation ( 160 E.)
						14	) COAL LESSEE	WITH DECLARAT	TION ON RECORD:
OIL & GAS			NOTIFIE				Name	none	
Name			ox 706		9 190 2	ada QVI misi	Address		
11441655	blevice ?	inevi	Lle, WV	24	874	N. K. C. of Safe Sec.	10 mg and 10 mg and	estanta 10, garago)	18 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18
PROPOSED	WORK:		X /			/ Redrill		ture or stimulate	
							ew formation		
GEOLOGICA	ALTARGE		hysical char		well (speci			The state of the s	THE RESERVE
GEOLOGICA  17) Estimate				615	5	feet	top of	gasetteri Manual	111 2009 201
18) Approxim	mate water	strata dep	ths: Fresh	,	770	feet;	salt, salt sand	feet.	
19) Approxim	mate coal se	am depth	s:			Is coal	being mined in the	area? Yes	/ No
CASING AN	D TUBINO	G PROGE	RAM						
CASING OR TUBING TYPE		SF	ECIFICATION   Weight	NS I	, 1	FOOTAGE	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor Fresh water	11 3/4	15-40	42	X X		40	40 250 apa	Circulate	Kinds
Coal					-	seed that	Actual Control of the		Sizes
Intermediate	8 5/8	8-55	24	X		1401	1401	150 sks	
Production	4 1/2	K-55	11.6	X		6155	6155	as needed	Depths set
Tubing Liners							Teach baltery sale of		De-Cartions
									Perforations:  Top Bottom
EXTRACTIO			Non the			SEE TESTANDO D			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ROYALTY P Is the right to similar provis. produced or n he answer abov Required Copies of this	d is the lead quirement of ROVISION extract, profon for commarketed? e is No, no ies (See rev Permit Apperator, coaleston, Wes	se or lease of Code 2  IS  oduce or management of the code of the	es or other 2-4-1-(c) (1) market the on to the ow No [ ] litional is no) and the enc o, and coal the c	il or ga vner of eeded. losed p	gh (4). (S as based up the oil or If the ans plat and re	on a lease or other gas in place white wer is Yes, you me	r specifics.)  r continuing contract ch is not inherently hay use Affidavit Four ave been mailed by mailing or delivery  Signed:	related to the volunorm IV-60. registered mail or del	ing for flat well royalty or a ne of oil or gas so extract livered by hand to the abo cation to the Department
\$112 ES						ILLING PER			
mit number _									19
rements subject fer to No. 10) Pr	to the conior to the co	ditions co	ntained her	ein and	d on the rons and pit	everse hereof.Not	ification must be gid work. In addition	ven to the District Oi	ce with the pertinent legal il and Gas Inspector.  This contractor shall notify the second se
mit expires	1	7	Dist		0-:		lling is commenced	prior to that date and	prosecuted with due diligen
Bond:	Agent	•	Plat:		Casing	Fee		The Tolk	
						500707	Adı	ministrator, Office of	Oil and Gas