

Royal

181

_Bbl/d

Hours

Hours



Ser 19 1995

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

Permitting Office of Oil & Gas Well Operator's Report of Well Work

Farm name:

LANGFORD, JAMES & VERLA Operator Well No.: REMA BURTON #1

LOCATION: Elevation: 879.00 Quadrangle: AUBURN

District: TROY County: GILMER
Latitude: 10470 Feet South of 39 Deg. 2 Min. 30 Sec.
Longitude 3860 Feet West of 80 Deg. 50 Min. 0 Sec.

Company:FLUHARTY ENTERPRISES, INC P. O. BOX 226 SALEM, WV 26426-0000	&	Used in Drilling		Cement Fill Up Cu. Ft.
Agent: THOMAS J. FLUHARTY	Size		 	
Inspector: CRAIG DUCKWORTH Permit Issued: 08/29/95 Well work Commenced: 08/28/95	N/A	 <u>N/A</u>	 <u>N/A</u>	 N/A
Well work Completed: 09/02/95 Verbal Plugging Permission granted on:	 		 	
Rotary Cable Rig Total Depth (feet) Fresh water depths (ft)	 		 	
Salt water depths (ft)	! 		<u> </u>	
Sait water depths (it)		·	<u>-</u>	I
Is coal being mined in area (Y/N)? Coal Depths (ft):			 	
OPEN FLOW DATA				4141-66'
Producing formation Benson & Riley Gas: Initial open flow 330 MCF Final open flow 145 MCF	/d 0il: I	Pay zone initial open	depth (ft flow Tra	:) <u>4523-25'</u> aceBbl/d Bbl/d
Time of open flow between i Static rock Pressure 825 psi	nitial an	nd final tes	ts	nours
Second producing formation		Pay zone		

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

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow

Time of open flow between initial and final tests

Static rock Pressure psig (surface pressure) after

For:	FLUHARTY ENTERPRISES, INC.	
	By: Thomas Hakati	
	Date: 09/1/8/95	

Benson & Riley

3-.39 holes @ 4,523-25'7-.39 holes @ 4,141-66'

600 Bb1 H2O, 1,000 gal. 15% HCL, 5,900# 80/100, 39,600# 20/40

Frac Plug set @ 4,580'



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division WELL RECORD

RE	CEIVED
77.7	APR 2 4 1984

OIL & GAS DIVISION

DEPT. OF MINES

WELL	RECOF	SD.	RotaryX	
Quadrangle <u>Auburn</u>			Recycling_	Comb. x
Quadrangicitizza			Water Floo	
Permit No.47-021-3691			Disposal	a Storage
			Disposai	(Kind)
Company MERT Development, Inc.	Casing	and Used in	Left	Cement fill up
Address R8-B336-AA, Fairmont, W.Va. 26554	Tubi	ng Drilling	in Well	Cu. ft. (Sks.)
Farm Burton Acres 50				, í
Location (waters)	Size			
Well No. 1 Elev 879	20-16		ļ	
District Troy County Gilmer	Cond.			
The surface of tract is owned in fee by James C. Fonford	13-10° 11	3/4 82	82 :ز:، -	CTS
James C. Fonford	9 5/8			
Address 903 MEARLY DUE PRINES MUE, OHO	8 5/8	872	872	CTS
Mineral rights are owned by Rema Burton		• • • • • • • • • • • • • • • • • • • •		
Address Cox's MIVO WVA	MC-5-1/2			
Drilling Commenced December 9, 1980	A.1/2		4933	1443' Fillu
Drilling Completed December 16, 1980	3		1	1443 FIIId
total a see Game O and G	2			1
Final production 32500 ct. It. per day 7 bbls.	Liners Us	ed		İ
rinal production 253.457 cu. it. per day 7 00is:		· ·		
Well open 4 hrs. before test 1700 RP.				
Well treatment details:	Attach co	py of cementing rec	ord.	
Perforate Alexander with 16 holes frac v	vith 500 Ga	1 Mod. 202 1,0	DOO BBLS,	Sand laden
fluid.			·	
		<u> </u>	3	
325.A	ICF.		•	·
			•	·
The second secon	*****			
Coal was encountered at Not Encountered	Feet	lnch	es	
Fresh water 85' Feet		Salt Water		_ Feet
Producing Sand Alexander	770.8 P	Depth <u>4730 -</u>	- 4795	
West of The pare				
Formation = Color Co., Hard or Soft and Top Fe	et Bottom	Feet Oil, Gas o	or Water	• Remarks
Fill sass. 2 Ciberry remains on.	0	15		
Sd/Shale		540	4	
· · · · · · · · · · · · · · · · · · ·	1	590		
		340		
		360		
		440	•	
		660	٥	
	1	300		
•		900	•• •	
	li e	040		
	i i	210		
		220	-	
		750		
Sand METANDER 47	50 48	350 -		

4850

5153

5153

Sand/Shale

TD

⁽over)





DEPARTMENT OF MINES DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Surface Owner James C. Fonford	C	eny MERT Deve	lopment. In	c.
Address Coxs Mills, W.Va.	•	Fairmont,		<u> </u>
Mineral Owner Rema Burton		Rema Burton		
				cres <u>50</u>
Address Coxs Mills, W.Va.				-
Coal Owner Rema Burton Address Coxs Mills, W.Va.				
Coal Operator None TAddress BE POSTED AT THE WELL SITE	Distric	Troy	с	ounty G
Coal Operator WOILE SITE	Quadr	angle AUDUIN		-
TAddress BE FOOT-				
ons being in accordance with Chapter 22,				
Va. Code, the location is hereby approved This permit shall expire if				
	INSPECTO	nr		
6-22-81	TO BE NO		Goodnight	
have not commenced by 6-22-81	TO DE MO	Faul Faul	GOOGHIGHE	
$1/\sqrt{2}$ $1/\sqrt{2}$	ADDRESS	Smithville	, W.Va.	
y Director - Oil & Gas Division	BUALUE	477 2662		
	PHONE	477-3660		
		•		
GENTLEMEN: The undersigned well operator is entitled to distitle thereto, (or as the case may be) under gran Burton made to Domestic P. 1980, in Gilmer County, Book	t or lease dated	June 4,	1980 by	Rema
The undersigned well operator is entitled to di title thereto, (or as the case may be) under gran <u>Burton</u> made to <u>Domestic P.</u> 1980, in <u>Gilmer</u> County, Book	t or lease dated	June 4, and recorded on the	19 <u>80</u> by	Rema
The undersigned well operator is entitled to di title thereto, (or as the case may be) under gran Burton made to Domestic P 1980, in Gilmer County, Book X NEW WELL DRILL DE OIL AND GAS WELL ORIGINALLY	t or lease dated	June 4, and recorded on the 288 REDRILL E JUNE 5, 1969.	1980 by 10 FRACTURE	Rema
The undersigned well operator is entitled to did title thereto, (or as the case may be) under gran Burton made to Domestic P. 1980, in Gilmer County, Book X NEW WELL DRILL DE OLL AND GAS WELL ORIGINALLY The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator	t or lease dated	June 4, and recorded on the 288 REDRILL E JUNE 5, 1969. I land surveyor and	1980 by 10 FRACTURE (all coal owners	Rema iay of OR STIM and/or o
The undersigned well operator is entitled to de title thereto, (or as the case may be) under gran Burton	at or lease dated Toducers 312 Page EEPER Y DRILLED BEFOR d engineer or licensed are hereby notified the sed by, or filed with	June 4, and recorded on the 288 REDRILL E JUNE 5, 1969. I land surveyor and that any objection the the Department of Means	1980 by 10 FRACTURE of the service	Rema iay of OR STIM and/or o e, or are (10) day
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The undersigned well operator is entitled to distill thereto, (or as the case may be) under gran Burton	are hereby notified the mailed by registered by to the Department of Sign Name Address of	June 4, and recorded on the 288 REDRILL E JUNE 5, 1969. I land surveyor and that any objection the Department of Manager of Mines at Charlester by yours, The Rt. 8 Box	all coal owners ey wish to make the above name on, West Virgini parator 336-AA	Rema iay of OR STIM and/or o e, or are (10) day ned coal of
The undersigned well operator is entitled to de title thereto, (or as the case may be) under gran Burton made to Domestic P 1980, in Gilmer County, Book X NEW WELL DRILL DE OIL AND GAS WELL ORIGINALLY. The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received or coal owners at their above shown respective as same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	at or lease dated aroducers 312 Page EEPER FY DRILLED BEFOR d engineer or licensed are hereby notified the did by registered with e mailed by registered didress by to the Department of Very truly (Sign Name)	June 4, and recorded on the 288 REDRILL E JUNE 5, 1969. I land surveyor and that any objection the Department of Management of M	FRACTURE all coal owners ey wish to mak fines within ten o the above nam on, West Virgini perator 336-AA	Rema iay of OR STIM and/or o e, or are (10) day ned coal of
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the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved

replaination requirements as set forth in with carry out the specified requirements."

47-021-3691

PERMIT NUMBER

and the well operator authorized to proceed.

"I have read and understa Chapter 22, Article 4, Seption

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	D X DRILL	DEEPEN	ER APPUDE STIMULATE
DRILLING CONTRACTOR: (I	f Known)	RESPONSIBLE AGE	
NAME Ray Resources			nd7 o o los
ADDRESSCharleston, W	.Va.	ADDRESS Fair	The second secon
TELEPHONE 344-8393	and the contract of the contra	TELEPHONE 366	5-9111
ESTIMATED DEPTH OF COMP	LETED WELL: 5022		CABLE TOOLS
PROPOSED GEOLOGICAL FOR	MATION: Alexander		
TYPE OF WELL: OIL	GAS X	COMB. STOR/	AGE DISPOSAT
		LING WATER I	
			William
TENTATIVE CASING PROGRA	M:		
CASING AND TUBING	USED FOR		
SIZI	DRILLING	LEFT IN WELL	OR SACKS CUBIC 11
20 - 16	30'	30'	To surface
13 - 10			
	824	824'	To surface
8 - 5/8 7	The second secon		
•			
4 ½	5000 '	5000'	
3		· · · · · · · · · · · · · · · · · · ·	2000' fill up
	4900		Perf. Top Perf. Bottom
Liners		The second secon	Pert. Fop
			Pert. Bottom
SUBMIT FIVE (5) COPIES OF PLAT TO DRILL DEEPER OR REDRIE		HT FEE, PERFORMANCE	BOND AND PERMANENT COPY
WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTE	OF OAR, A FERNMANENT C	HNAL PERMIT NUMBER A COPY OF THE PLAT AND	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE			
	RIGINALLY DRILLED BEFO AND ORIGINAL WELL RE	ORE JUNE 5, 1929, FIVE (O) COPIES OG - 1, PERFORMANCE
OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	RIGINALLY DRILLED ON A	ND/OR AFTER HINE 5 1	929. FIVE COPIES OG - 1, SHOW-
			e. Inspector to be notified twenty-
	The second of the second second second	See All All All Mark Albander (1992)	<u> </u>
The following waiver must be hereof.	e completed by the coal op	erator if the permit is to be	e issued within ten days of receipt
VAIVER: I the undersigned Agen	at for	Const Co	er or Operator of the coal under
this teast have examine	d and place on our mine m	aps this proposed well loc	ation.
We the providing operator has co-	Coal Company omplied with all rules and reg	have no objections to said ulations in Articles 4, 5, and	well being drilled at this location, 17, Chapter 22 of the West Virginia
		en e	M. J. 177

Official Title

22.70	\circ t	

Fürm	WW-25			U 2	1- 3671-	Flac	Pageot
	D711-	770V 07		E OF WEST			
	DIVIS	PION OF E			TION, OFFI		AND GAS
							60
1)	Well Ope	erator:	Fluhar	ty Enterpris	ses, Inc. 1	1.43 6	(d) 224
2)	Operator	r's Well N	Number:	Rema Burton			Elevation: 879'
÷	Well ty	pe: (a) (oil/	or Gas	<u>-x</u> /	Should Expired	08/29/95 08/29/97
051		(p) 1	If Gas: 1	Production Deep	<u>X</u> / Underg	round Stor	age/ low /
21	Proposed	i Target H	Formation	(s): Ber	425 nson & Riley	Treat	
	Proposed	i Total De	epth:	N/A	_ feet		
	Approxi	mate fresh	n water st	trata dept	hs:	. N/A	
8)	Approxim	mate salt	water de	pths:	·	. N/A	
9)	Approxim	mate coal	seam dept	ths:		N/A	
10)	Does lar	nd contair	n coal sea	ams tribut	ary to act	ive mine?	Yes/ No_X_/
11)	Proposed	i Well Wor	rk:Set	Ball Plug	and Fracture	Benson & Ril	ey Formation.
12)	$\alpha/-\alpha$	Linx	Pro	oduce co-min	gled gas from	n Alex., Ben.	& Riley.
	4 M		CASIN	G AND TUB	ING PROGRAM		
	///	/ // // // //					
TYPE	O_{I}	/_MV *K ()	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
TYPE	1 man				FOOTAGE I		CEMENT
TYPE	fund	my 1		Weight	For	Left in	Fill-up
	from 91	Size		Weight	For drilling	Left in	
	hon M	my 1		Weight	For	Left in	Fill-up
Cond	from 91	my 1		Weight	For drilling	Left in	Fill-up
Cond	uctor	my 1		Weight	For drilling	Left in	Fill-up
Cond	uctor	Size		Weight	For drilling	Left in	Fill-up
Cond Coal	uctor h Water	Size		Weight	For drilling	Left in well 92' 972'	Fill-up (cu. ft.) CHS CHS Topo at 3490' 1443' full up
Cond Coal	uctor h Water rmediate	Size		Weight	For drilling	Left in well 92' 972'	Fill-up (cu. ft.) CHS CHS Topo at 3490' 1443' full up
Cond Fres Coal Inte	uctor h Water rmediate uction	Size		Weight	For drilling	Left in well 92' 972' 4933' Environ	Fill-up (cu. ft.) CHS CHS Top at 3490' 1443' full app
Cond Fres Coal Inter Produ	uctor h Water rmediate uction ng rs ERS : Kin	Size 1/3/4 85/8 4/2		Weight	For drilling	Left in well 92' 972' 4933' Environ	Fill-up (cu. ft.) CHS CHS Topo at 3490 1443 full cup Trantal Protection 2 1995 Permitting
Cond Tresi Coal Inter Produ Tubi	uctor h Water rmediate uction ng rs ERS : Kin	85/8 1/3/4 85/8		Weight	For drilling	Left in well 92' 972' 4933' Environ	Fill-up (cu. ft.) CHS CHS Topo at 3490 1443 full cup Tental Protection 2 1995
Cond Tresi Coal Inter Produ Tubi	uctor h Water rmediate uction ng rs ERS : Kin	size 1/3/4 85/8 4/2 and zes pths set	Grade	Weight per ft.	For drilling 82' 872' 4933'	Left in well \$2' \$72' \$735' Environ	Fill-up (cu. ft.) CHS CHS Topo at 3490 1443 full cup Trantal Protection 2 1995 Permitting
Cond Tresi Coal Inter Produ Tubi	uctor h Water rmediate uction nq rs ERS : Kin	size 1/3/4 85/8 1/2 1/2 1/3/4 1/2 1/3/4 1/3	Grade	Weight per ft.	For drilling 82' 872' 4933' nd Gas Use	Left in well 92' 972' 4933' Environ Only	Fill-up (cu. ft.) CHS CHS Top at 3490 HAJ full app W Division of tental Protection 1 2 1995 Permitting a of Oil & Gas
Cond Tresi Coal Inter Produ Tubi	uctor h Water rmediate uction ng rs ERS: Kin Sin Dep	size 1/3/4 85/8 1/2 1/2 1/3/4 1/2 1/3/4 1/3	Grade For Office	Weight per ft.	For drilling 82' 872' 4933' nd Gas Use	Left in well \$2' \$72' \$735' Environ	Fill-up (cu. ft.) CHS CHS Top at 3490 HAJ full app W Division of tental Protection 1 2 1995 Permitting a of Oil & Gas
Cond Tresi Coal Inter Produ Tubi	uctor h Water rmediate uction nq rs ERS : Kin	size 1/3/4 85/8 1/2 1/2 1/3/4 1/2 1/3/4 1/3	Grade	Weight per ft.	For drilling 82' 872' 4933' nd Gas Use	Left in well 92' 972' 4933' Environ Only	Fill-up (cu. ft.) CHS CHS Top at 3490 HAJ full app W Division of tental Protection 1 2 1995 Permitting a of Oil & Gas

l of			1) [_			<u> </u>	
w2-A		2)	Operat	or's wel	1 nur	mber			
)				Rema Bu	rton	#1	001		F F
Сору			3) 1	API Well	No:	47 -	021		10091 P
• •						State	Cori	nty	Permit
					7 F2NTS/	7 T DO \ T\ (1	PAPP	DEA	ENICD
	STATE OF '	WEST VIRGI	INIA - B	UREAU OF	ENV	TRUNMI	ENI	TEV.	EIVED
	DIVI	SION OF EN	1 I RONME	NIAL PRO	DIECT	LUN		Fovironme	vision of ntal Protection
		OFFICE	OF OIL	AND GAS					
							r -10	AUG	2 5 1995 -
	NOTICE A	ND APPLICA	TION FO	R A WELL	WORK	PERMU	<u> </u>		
								Per	mitting
Surface Ow	mer(s) to be	served:	5) (a)	Coal Or	perat	or:			f Oil & Gas
(a) Name	James & Verla	a Langford	_ Name _	N/A					•
Address	903 Meigs Ave	·	_ Addres	ss					-
	n ·	$\Delta T = L L \Delta T$. (= \	i	200120	ation	_
(1) \$7			(h) Ca	oal Owne:	r(s)	with 1	Sector	acron	
Àddress _			_ Name .	11/11					- '
			_ Addre	ss					-
(c) Name .									-
Address _			_ Name						
			_ Addre	ss					-
		_				inh De	<u> </u>	ion	
Inspector	Craig Duckw	orth	_ (c) C	oal Less	KOR WI	ith be	Clara	.1011	
7 4 4	Port 107 Do	wiggon Rt	Name		11/11				_
	Gassaway, W	<u>V 26624 </u>	Addre	ss					_
Talanhana	(204) - 364 -	5942							
Tarebuone	(204) 30 +								
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