



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

Well Operator's Report of Well Work

Farm name: BLANKENSHIP, LENFORD ETUX Operator Well No.: SHUMATE #2

Elevation: 1,929.00 Quadrangle: ECCLES LOCATION:

District: TRAP HILL County: RALEIGH Latitude: 4860 Feet South of 37 Deg. 50Min. Longitude 10030 Feet West of 81 Deg. 20 Min. Sec. Sec.

Company:MALCOLM, D. C., INC. 920 COMMERCE SQUARE

CHARLESTON, WV 25301-0000

Agent: DUNCAN C. MALCOLM

Inspector: RODNEY DILLON

12/16/93 Permit Issued: Well work Commenced: 12/20/93 Well work Completed: 01/31/94

Verbal Plugging

Permission granted on: Rotary X Cable Ri
Total Depth (feet) 30
Fresh water depths (ft) 79' 3017

Salt water depths (ft)

None Reported
Is coal being mined in area (Y/N)?N Coal Depths (ft): 400', 474', 636', 646'

Casing	j		Fill Up
Tubing Size	Drilling 	In well	Cu. Ft.
9 5/8"	30'	30'	
7"	1352'	1352'	270 sx
4 1/2"	2759'	2759'	80 sx
2 3/8"		2659'	

OPEN FLOW DATA

Producing formation Big Lime	Pay zone depth	(ft)2653'-2663
Gas: Initial open flow show MCF/d Oil:	Initial open flow	$0 \frac{Bb1/d}{}$
Final open flow 169* MCF/d		0 Bbl/d
Time of open flow between initial a		4 Hours
Static rock Pressure 430 psig (surfa	ce pressure) after	12 Hours

Second producing formation Maxton Pay zone depth (ft)203

Gas: Initial open flow show MCF/d Oil: Initial open flow 0

Final open flow 169* MCF/d Final open flow 0

Time of open flow between initial and final tests 4 Pay zone depth (ft)2034'-2054' Bb1/d Bb1/d Hours Time or open flow between initial and final tests $\frac{4}{12}$ Hours Static rock Pressure $\frac{430}{12}$ psig (surface pressure) after $\frac{12}{12}$ Hours

*Note: Production is co-mingled

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: MALCOLM, D. C.,

By: Douglas C. Malcolm
Date: 6-3-94

JUN 1 7 1994

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STATE OF WEST VIRGINIA

Page_ Expues 12/16/95 AND GAS

FORM	WW-28		•
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		Hire	ಗುತ್ತು ಕನ್ನ

1)	Well Operator:_	D. C. Malco	t6 lm, Inc.	29900	7	331	
	Operator's Well					Elevation: 192	29
4)	Well type: (a)	0il/ d	or Ga	s <u>X</u> /	·		

Production X / Underground Storage If Gas: (b) Deep__ Shallow XX/

Proposed Target Formation(s): Big Lime 345 5)

Proposed Total Depth: 3000 feet 6)

7) Approximate fresh water strata depths: 150', 225'

Approximate salt water depths: 1800' 8)

Approximate coal seam depths: ____n/a 9)

Does land contain coal seams tributary to active mine? Yes__/ No xx 10)

Proposed Well Work: Drill & Complete New Well 11)

12)

CASING AND TUBING PROGRAM

TYPE	E SPECIFICATIONS FOOTAGE INTERVAL		TERVALS	CEMENT		
,	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11"	LS		30'	30'	38581811.
Fresh Water	8 5/8"	LS	20#	1100'	1100"	CTS
Coal						3805 RB-11-2.
Intermediate						
Production	4 1/2"	J-55	10.5#	3000,	3000	1000' Fill
Tubing					<u> </u>	38658181/1
Liners]

PACKERS	:	Kind		
		Sizes_		
		Depths	set	

For Divison of Oil and Gas Use Only Reclamation Fund Well Work Permit

W-2B

Bond An

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		1 may 2 mg 2 mg 3 mg 4			
		WV Ellistich (Entragemental Pro	o: Stec tion	1)	Date: November 29, 1993
Page	1 ot	_ 11011 0 0	00	2)	Operator's well number
(09/8	WW2-A	MOA 3 D		-,	Shumate #2 API Well No: 47 - 081 - 0970
	Conv	Permittin		3)	API Well No: 47 - 081 - 0970
		office of Oil	k Om		State - County - Permit
			4		UTDOTALL
		222324			VIRGINIA VISION OF OIL AND GAS
		DEPART	TENT OF ENE	KGI, DI	Albion of off the order
		NOTICE	AND APPLIC	ATION F	OR A WELL WORK PERMIT
					El (-) Conl Coorstor.
4)			to be serv		5) (a) Coal Operator:
		Box 400	Harriett Bla	TKETISTITE	NameAddress
	Address		els, WV 25844		
	(b) Name		Pergus on		(b) Coal Owner(s) with Declaration
					Name Western Pocahontas Properties
		Glen Dani	el, WV 25844		Address P. O. Box 2827
	(c) Name	}			Huntington, WV 25727-2827
	Address		. <u></u>		NAMES Attn: David T. Morrison, Sr. VP
					Address <u>Engineering</u>
6)	Inchests	ow Dad Di	110-		(c) Coal Lessee with Declaration
0)	Address	P O I	llon Box 131		Name New Beckley Mining Co.
			y, WV 25818		
	Telephor	ne (304)-	877-2912		Beckley. WV 25801
	_				
		TO THE	PERSON(S) N	AMED AB	OVE TAKE NOTICE THAT:
	Included		100 1-		
cont					other continuing contract or extract oil and gas <u>OR</u>
					ed by Chapter 22B, Article 1,
Sect	ion 8(d)	of the C	ode of West	Virgin	ia (see page 2)
	I certif	fy that a	s required	under C	hapter 22B of the West Virginia Code
I ha	ve served	i copies	of this not	ice and	application, a location plat, and
acco					on the above named parties, by:
			rvice (Affi		
					stal receipt attached)
	Pur	olication -	(Notice of	PUDIIC	ation attached)
	I have n	read and	understand	Chapter	22B and 38 CSR 11-18, and I agree
to ti					it issued under this application.
	I certii	fy under	penalty of	law tha	t I have personally examined and am
fami	liar with	h the inf	ormation su	bmitted	on this application form and all
atta	chments,	and that	based on m	y inqui	ry of those individuals immediately
resp	onsible i	for obtain	ning the in	formati	on, I believe that the information
15 (d complete.		not monolities for submitting follow
info	rmation	includin	chere are s	igniiic	ant penalties for submitting false of fine and imprisonment.
11110	rmacron,	Includin	y the possi Well On	erator	D. C. Malcolm, Inc.
			By:	1.16	Douglas C. Malcolm
			Its:	/	Production Manager
	•		Address		920 Commerce Square -
erranasi Tarangan	neren en e <mark>conomismone</mark> 1910-1915	የፈጻው ቀራጊ አንዳን ቀንተ ለቀው ። LISBAL			Charleston, WV 25301
	YPATON Pert endanti y	PUBLID RATIO SERVAN	Telepho		304-343-9593
Buch	SUE A. C.	BRENAN	before me t	`` <i>``</i> ` , ` 	h day/of November , 1993
	920 COMMER	CE SOUARE	2	$\mathcal{M}HH$. C. Della Notary Public
MX. Go	ommission	n expans	August 20	1996	wordly Fubile
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- 1. Perfed Big Lime 2653'-2663' (30 holes). Acidized with 4000 gal. 15% HCl. BDP = 500 psi, ATP = 430 psi @ 8 bpm.
- 2. Perfed Maxton 2034'-2054' (40 holes). Fractured with 500 gal
 15% HCl, 40000# sand, 126 bbls H2O, 170 mscf N2 (75 quality foam).
 BDP = 1950 psi, ISIP = 1150 psi, ATP = 1280 psi @25 bpm

Formation	Comments		
sand & shale coal	1/4" H ₂ O @ 79'		
sand & shale coal			
sand & shale coal			
sand & shale coal			
sand & shale Red Rock	H ₂ O @ 750'		
sand & Shale			
Big Lime			
	sand & shale coal sand & shale coal sand & shale coal sand & shale coal sand & shale Red Rock sand & Shale Ravencliff sand & shale Avis Limestone sand & shale Maxton sand & shale Little Lime		

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