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WR-35

JUN 1 7 1986

## Sinte of West Airginia DEPARTMENT OF ENERGY Gil und Gas Division

Pate_	June 10	6, 1986	
	or's No		
	H. V.		s
_	0. 47-		

WELL OPERATOR'S REPORT

			Ur	,			
	FRACTURING	NATO (OD	CTTM(II)	. בערדיית	OR	PHYSICAL	CHANGE
DRILLING.	FRACTURING	AND/UK	SITIATION	14401			
	· ·						

*					
WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Underground					
ICCATION: Elevation: 1241.7' Watershed Lin	ne Creek	of Peter	rs Creek		•
District: Jefferson County Nicho	olas	Duadrangle	Lockwo	od 7.5	
a a					_
			<u> </u>	<u>*</u>	•
COMPANY D. C. Malcolm, Inc.				Cement	7
ADDRESS 1006 Commerce Sq. Charleston. WV	Casing	Used in	Left	fill up	
DESIGNATED AGENT D. C. Malcolm	Tubing	Drilling	in Well	Cu. ft.	-
ADDRESS 1006 Commerce Sq., Charleston, WV SURFACE OWNER Haymond Van Summers	Size 20-16 Cond.				
ADDRESS Rt.2, Box 188, Realeton, VA 22712					
MINERAL RIGHTS OWNER Same as surface	9 5/8	452	452'	150 SX (	surf
ADDRESS Same	8'5/8				
OIL AND GAS INSPECTOR FOR THIS WORK Craig	7				
Duckworth ADDRESS Gassaway, WV	5 1/2				
PERMIT ISSUED 7-17-85	4 1/2	2068'	20681	200 sx(7	<u>70</u> 0')
DRILLING COMMENCED 10-25-85	3				• W
DRILLING COMPLETED 10-31-85	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	used			1 1	$\neg$
CN					
GPOLOGICAL TARGET FORMATION Injun Sand				30 'fee	<u>≥</u> t
Depth of completed well 2130 feet	Rotary_x		le Tools_		<del></del>
Water strata depth: Fresh feet;	Salt	feet			
Coal seam depths: None	Is coal	. being mi	ned in th	e area? <u>N</u> c	<u> </u>
OPEN FLOW DATA			1742-	-47', 178 -88' fe	86-92
Producing formation Big Lime	Pa	y zone de	-		
Gas: Initial open flow Show Mcf/d	Oil: Ir	itial ope	n flow	Bbl	/d
Final open flow 311 Mcf/d	Fi	nal open	flow	_ Bbl	/d
Time of open flow between init	ial and f	inal test	s 4 h	ours .	
Static rock pressure 235 psig(surface	e measure	ement) aft	er 72 ho	ours shut	in
(If applicable due to multiple completion	2}		144	6-66'	
Second producing formation Maxton	Pa	ay zone de	pth 147	5-951 fe	et
Gas: Initial open flow Show Mcf/d	Oil: D	nitial ope	n flow	Bb1	./d
Final open flow 984 Mcf/d	Oil: F	inal open	flow	Bb1	./d 2401 C
for well Time of open flow between ini-	tial and	final test	<b>S</b> 4	nough & c	) 1200
Static rock pressure 50 psig(surfac	e measure	ment) afte	72- h	ours shut	מנ
	Margard In Services Science Services	(Cont	irue on	reverse si	de)

## DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated Big Lime 1800'-1888' w/17 holes and 1786'-1792' w/13 holes. Acidized w/2500 gal. 15% HCl.

Perforated Big Lime 1742'-1747' w/21 holes. Acidized w/1000 gal. 28%

Perforated Maxton 1475'-1495' w/81 holes and 1446'1466' w/81 holes.

Frac with 750 gal. HCl, 468 bbls water, 60,000# 20/40 sand,

120,000 SCF N<sub>2</sub>, and 20 perf balls.

	-90	al 106	45	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM PEET	Including indicati and salt water, or	on of all fresh al, oil and gas
Sand Shale Sand Sand Shale Sand Sand Shale Lime Shale Lime Shale Sand Sand Shale Shale Shale Shale Sand Shale Lime Shale Sand Shale Shale Sand Shale Sand Shale Sand Shale Sand Shale Shale Sand Shale Shale	0 42 302 585 700 800 1201 1246 1426 1502 1580 1638 1672 1930	42 302 585 700 800 1201 1246 1426 1502 1580 1638 1672 1930 1940; 2130	Total Depth	
	3) 36	Î		
	n Š			

(Attach separate sheets as necessary)

Y 19	
D. C. Malcolm, Inc. Well Operator	 i N
By: Dough C. Melen	 ,
Date: June 16, 1986	

Regulation 2.02(i) provides as follows: regulation 2.02(1) problems as joilows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including detailed geological record of all formations."



1)	Date: June	e 24		19 85
2)	Operator's			
	Well No.	H. V.	Summers	#1
		47	0.65	

JUN 25 1985

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

					A	PPLICAT	ION FOR A W	ELL WORK PERMIT	001	140 1900	).
4)	WELL TY	PE: A O	il	/ Ga	s	X/			OiL &	GAS DIVIS	ION
•	LOCATIO	B (I	f ''Gas'', l	Production	71	Δ	_/ Undergrou	nd storage : <u>Line Cree</u> k		Shalloy	NEC
5)	LOCATIO	N: Eie	vation:	Jeff	LL	יח	_ watersned:	Nicholas	OI PECEIS	Lockwoo	3 7 51
6)	WELLODI						_ county: _	7) DESIGNATED	Quadrangie:	Malcol	<u>u 7.5</u>
0)	Address			ommer					1006 Comme		
	Addi C35			ston.					Charleston		5301
8)	OIL & GA			_				9) DRILLING CO		7 11 2	5501
٠,	Name		_					Name Unk			
	Address			7. Day		on Rt		Address			
				ay, W			. %	The Part			
10)	PROPOSE			-		_/ Drill		/ Redrill	/ Stimulate	X /	
,								forate new formation_			
				_					-		
11)	GEOLOGI	CAL TAR	GET FOR								;c
	12) Estima	ited depth o	of complet	ed well,		2100	n.	eet			
								salt, 110	feet.		
	14) Appro	ximate coa	seam dep	ths: <u>no</u>	ne e	xpeci	ted 1	s coal being mined in the	area? Yes	/ No	X/
15)	CASING A	ND TUBI	NG PRO	GRAM							
	SING OR		SPEC	IFICATIONS	;	1	FOOTA	GE INTERVALS	CEMENT FILLUP	PACK	ERS
TU	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	ĺ	
Cond	ductor						ikso'	JKA!		Kinds	
Fres	h water	9-5/8			X		200	4200	to surface		
Coal										Sizes	
Inter	mediate	7"		17	Х		1400		40 sacks		
Prod	luction	4-1/2		10.5	X		2100	2100	50 sacks	Depths set	
Tubi	ing	2-3/8		4.6	X		2100	2100			
Line	rs									Perforations:	
					···					Тор	Bottom
									<u> </u>		
	-										
							OFFICE US				
							DRILLING I	PERMIT			
Perr	nit number .	47	7-067-	0609						July 17	19 85
									Date	е	
Γhis	permit cove	ring the w	ell operato	or and wel	location	on shown	below is eviden	ce of permission grante	d to drill in accordance	ce with the per	tinent legal re-
quir	ements subje	ct to the co	onditions (	contained	herein a	ind on the	reverse hereof.	Notification must be gi	ven to the District Oil	and Gas Inspe-	ctor, (Refer to
							eny permitted wo	ork. In addition, the we	ii operator or his cont	ractor shall no	tify the proper
	_	-						amation plan, subject to	ony modifications	nd one distant	and the second
	rse hereof.	OIK IS AS U	escribed in	HIE NOUE	e anto A	rbbiicatio	ii, piat, and reci	amation plan, subject to	any modifications ar	ia conditions sp	pecified on the
	nit expires _	Jτ	11y 17	, 1987			unless v	well work is commenced	prior to that date and	prosecuted with	due diligence
	_										
D	ond:	¿ Agen	, 1	Plat:	Casin	.	Fee				
"	1/	- Agen	"   <i>,</i> '	L AGIL.	Çasii:	6	1.00	1			
		1213	n	14/1	22	U 6	74		1		
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

NOTE: Keep one copy of this permit posted at the drilling location.

Administrator, Office of Oil and Gas

File