

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

Well Operator's Report of Well Work

Farm name: SAMS, LARRY M.

Operator Well No.: WELCH #1

LOCATION:	Elevation:	986.00	Quadr	angle: WE	ST UNION		
	District: Latitude: Longitude	5200 Feet	Sout	h of 39	ounty: DODDI Deg. 22Min Deg. 45 Min	. 30 Sec.	•
Р.	LLING APPALA O. BOX 99 A, WV 26320		- 	&	Used in	Left	Fill Up;
Agent: KEN	NETH R. MAS	ON			Drilling		
Permit Issu	MIKE UNDERWO	O management	Size 85/8	1220	1220	to surface	
Well work C Verbal Plug		ARIL 23,1	<u>1989</u> 1990	4/2		5095	
Rotary Depth	granted on: Cable (feet) depths (ft	Rig	· .	v 30			
	depths (ft)			designation designation of the second		Visition Visitio	
	ng mined in (ft):						
OPEN FLOW D	ATA						
. T	ing formation intial open inal open fine of open rock Press	flow between	een ir	nitial and	i rinai tes	z = z = z	HOULS
Gas: I	producing : nitial open inal open f ime of open rock Press	flow low flow_betwe	MCF/ MCF/ en in	/d Fi nitial and	Pay zone on the street of the	flow low ts	Bbl/d Bbl/d Hours
INTERVALS, LOG WHICH	CK OF THIS FRACTURING IS A SYSTEM OAL ENCOUNT	OR STIMULA MATIC DETA	ATING, ILED	PHYSICA GEOLOGICA	L CHANGE,	ETC. 2).	THE WELI
REC!	EIVED of Energy	For: DR		1			
	9 90	By: Dat	te:	uneth 7. 4/25/90	Mason		
Perm Oil and G	litting 28 Section					MA)	1 1 1990

GEOLOGICAL WELL RECORD DATA

WELL NAME: Welch #1

PERMIT NUMBER: 47-017-3770

	TOP	BOTTOM	
SOIL BROKEN SAND SANDS AND SHALES DUNKARD SAND 1ST SALT SAND 2ND SALT SAND 3RD SALT SAND MAXON BIG LIME BIG INJUN SAND WEIR BEREA SAND GANTZ SAND GORDON SAND FIFTH SAND WARREN RILEY BENSON	0 15 257 985 1232 1580 1596 1643 1904 1964 2256 2447 2544 2660 2876 3336 4513 4973 5168	15 257 995 1107 1290 1651 1624 1667 1964 2100 2330 2450 2556 2706 2882 3370 4556 4977	SHOW GAS SHOW GAS SHOW GAS SHOW GAS
TOTAL DEPTH	0100		

WELL TREATMENT SCHEDULE

Benson Sand

4986 - 4989

Perforated with 16 holes

Formation Break Down

3300 PSI

Hydraulic frac with Nitrogen assist Average Treating Rate 17.5 barrels per min 498 barrels of gel treated water 300 sacks of 20/40 sand 50 sacks of 80/100 sand 99,000 scf of Nitrogen

Average Treating Pressure

2105 PSI



Division of Energy

MAY 0 9 90

Permitting
Oil and Gas Section

Eff. 12/18/91 11-01-01

FORM WW-2B

Page 2 of 5 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

l) Well	Operator:_	DRILLING	APPALACHIAN	CORPORATION	14425	3, 670			
2) Opera	tor's Well	Number:_	WELCH #1		3) E1				
	type: (a)			and the second second		definal de man el suprem des			
	(b)	If Gas:	Productio Dee	n <u>×</u> / Underg p/	round Storag Shallo	e/ w <u>XX</u> /			
5) Propo	sed Target	Formation	n(s): BEN	SON/RILEY		A September 1			
6) Propo	sed Total D	epth:	5100±	feet.		4.0			
7) Appro	ximate fres	h water :	strata dep	ths: ///	6,2321,10	suble 510'			
8) Appro	ximate salt	water de	pths:	1246!		,			
9) Appro	Approximate salt water depths: 1246 Approximate coal seam depths: 6/4-6/9', 394-396								
						es/ No_X_/			
					E NEW FORMATION				
12)					•				
500 0 0 0 0 mm				ING PROGRAM					
TYPE		PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT			
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)			
Conductor	11-3/4"	H-40	42#	30 '	0'				
Fresh Water						0.19,4			
Coal						7 CM. T			
Intermediat	e 8-5/8"	J-55	20#	1200'	1200'	386SR18-11.2.2 30/5/9/9-1/-3			
Production	4-1/2"	J-55	10.5#	5176'	5176	-38CSR18-11.1			
Tubing		C. Problem decree (Act of the control of the contro							
Liners					18.318.41	ALENDON SOLDING			
PACKERS : K				•	I I I				
	izesepths set _				A D	D14:330			
1912	Fg	r Diviso	n of Oil a	nd Gas Use	Only Dirari	MENT O' LICENY			
102 Fee(s)	paid:	<u> </u>	ork Permit	21	amation Fund				
Plat	WW-9	# NW-	2В Д В	ond Blank	bet Duc.	Agent			
		•		1	Typa)	,,			

DEC 14 1989 Form WW2-A (09/87)File Copy DIVISION OF OIL & GAS

DEPARTMENT OF ENERGY

1)	Dat	e:	Nov.	30,	1989	}			
2)	Ope	rator'	s we	ll n	umbe	er			
		Welcl	1 #1		<u> </u>				
3)	API	Well	No:	47		017	_	3770	
,			Sta	te -	Cot	inty	_	Permit	

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	, .*.		
AY		vner(s) to be serv	rod: 5) (a) Gaal Onomakan.
		Larry M. Sams	
		Route 3, Box 338	
		Parkersburg, WV 26:	
	(D) Name _		(b) Coal Owner(s) with Declaration
	Address		Name
			Address
	(c) Name _	ave eas	
	Address _	,	Name
			Address
	_		
6)		Mike Underwood	
		Route 2, Box 135	
	T	Salem, WV 26426	Address
	Telephone	(304)- <u>782-1043</u>	
		•	
		TO THE PERSON(S) N	AMED ABOVE TAKE NOTICE THAT:
	Included :	is the lease or le	ases or other continuing contract or
conti	racts by wh	nich I hold the ri	ght to extract oil and gas OR
y	Included :	s the information	required by Chapter 22B, Article 1,
Sect	ion 8(d) of	the Code of West	Virginia (see page 2)
0000.	T cortify	that as required	under Chapter 22B of the West Virginia Code
T has	r cercity	chac as required	inder Chapter 228 of the west virginia Code
I IIa	ve served (opies of this not	ice and application, a location plat, and
accor	mbaulind o	cuments pages 1 t	hrough <u>5</u> on the above named parties, by:
		nal Service (Affi	
	Certi	lfied Mail (Postma	rked postal receipt attached)
	Publi	cation (Notice of	Publication attached)
	I have rea	ed and understand	Chapter 22B and 38 CSR 11-18, and I agree
to th	ne terms ar	nd conditions of a	ny permit issued under this application.
	I certify	under penalty of	law that I have personally examined and am
famil	liar with t	the information su	bmitted on this application form and all
attac	chments ar	nd that based on m	y inquiry of those individuals immediately
racno	oneible for	containing the in	formation I believe that the information
ie	SHOT DECIMAL	ite, and complete.	formation, I believe that the information
:	I am aware	: that there are s	ignificant penalties for submitting false
Inroi	rmation, ir		bility of fine and imprisonment.
and the second		_	erator
		Ву:	Kanneth P Illanu
A. A. A.	OFFICIA NOTARY STATE (18 1/2)	7	President
	STATE OF WAS	FUSLIC & Address	PO Box 99
	F 7 2	4	Alma, WV 26320-0099
The state of the s			ne <u>(304) 758-4638</u>
-Subsc	rybed and	ទីស្លីដូល before me t	his 30th day of November , 19 89
		Telepho	
	·	·	Notary Public
Му с	ommission e	expires	/1/28/97