

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

attu	Nove	ember 15.	_ b	1
perato	r¹s	•		
Jell Na	•.	٦		

WELL	OPERA'	TOR'S	REPORT

-	No.	·		3	***************************************
407	Lio 9	810	L T	- 013	31.6

Andrea Liberti to 3

[08-78]	1		•	•	WEL	L OPERATOR'S	REPORT	APT VAT	No. 47 - 013 -340
	,	DRIL	LING, F	RACTU	RING /		TING, OR PHYS	ICAL CHANGE	State County Per
	ą.		• • •		· · · · · ·				
WELL TYPE: (X_11C	_/ 0	as X	_/ 1	lquid	Injection	/ Waste D	isposal/	••
	(If "Ge	ıs", Pr	oductio	n		Underground s	torage/	Deep_X_/	Shallow/)
								Creek	
. 1	Distric	t: C	<u>enter</u>	and against think factors		Caunty: Ca	lhoun Q	uadrangle: Gr	antsville 7.5'
WELL OPERATO	R Bow	ser (as &	<u>0il</u>	Com	pany_	DESIGNATED AG	ENT <u>Bernard</u>	i B. Bowser
									rview Hgts.
<i>(</i>						01			sburg, WV 26101
•			•			,			
PERMITTED WO	k: Dr	X, III	/ Co	nvert	· ·	/ Drill deep	or/ Red	rill/ Fr	acture or stimulate
-	P1	ug off	old fo	rmati	lon	/ Perfora	te new format	10n/	•
	· -0t	her ph	ysical	chang	ge in	well (specify)		
		•						٠.	
PERMIT ISSUE	D ON	Sept	ember	7.	. 10	82	OTT & COC TAIC	SPECTOR FOR TH	20 110011
(IP APPLICAB	•							•	•
CONTINU	OUS PRO	OGRESSI	ION PRO	M DRI	LLING	OR		Mace	
REWORKI			•		RI.YINI	£ <i>0</i>		Rt. 1. Box	•
			_, 19			•			WV 25274
									700 feet
			• '				·	Cable Tools	ф Опнименный
				:		et; salt,		-	
· Coal se	am depi	ths:	1761	<u>to 1</u>	<u>866</u>	Is coal be	ing mined in	the area? No	_coal in area.
Work wa	s comm	enced .	Sept	. 15	, i9	82, 19,	and completed	Sept. 23,	, 1982
• .				•			• .		
	UBING	PROGRAI	M				•		•
CASING OR Tubing type	II .	g ·	IFICATI Weight	8 .	9	FOOTAGE		CEMENT FILL-	a
	Size	Grade	per ft	llew	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor		•							Kinds
Fresh water	12-3/	4	50		Х		300	300	
Coal	•					•	-		Sizes
Intermediate	8-5/8	H40	24	Х		•	2520	920	012.63
	5 <u>1</u> .			X	•		6637	120	
Tubing '									Depths set
Liners			•	1		·			
									Perforations:
				╁:					Top Bottom
				1					
		•							
OPEN FLOW DA	T.A						•		
		marion		Or	i iska:	n v			th <u>6459-6529</u> feet
::	7-1			y				ray zone dept	th <u>6459-6529</u> Feet
FOF .	s: In:	rriar o	beu 110			McI/d	Oil: Initial	open flow, _	Bb1/d
828 MG									how Bbl/d and wa
		Time	of ope	en flo	in per	ween initial	and final tes	ts, <u> </u>	
II SU	ntie ro	ock pre	ssyre,	. 22	<u>00</u> p	sig (surface	measurement)	After ho	ours shut in
[If app	lioable	due t	o multi	iple c	eomple:	rtion]			4026-4521
Second	produci	ing for	mation	S	hale			Pay zone dept	th 3432-3590 feet
Ga	s: Ini	ltial o	pen flo	ow,	show	Mcf/d	Oil: Initial	open flow.	Bb1/d
•									AA 61 A
	F1r	nal ope	n flow.		750 N	Mcf/d			11 .) Bb1/d

Static rock pressure, 775 psig (surface measurement) after _ hours shut in

[08-78]

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

Oct. 25, 1982:

Perforated Oriskany 6459'-6529' with ten holes fractured. 500 gal. 25% HCL -40 lb. Gel system. 30,000# sand. Set 5½" Bridge Plug at 6030 - Per 5480-5482

Feb. 7, 1983:

Squeeze 500 sks. 50-50 P02, Feb. 14, 1983:

1st stage - Per 4026', 4046', 4494'-4502', Huron 4516' and 4521' - 21 holes.

Fractured 700 Mcf N, - 500 Gel. - 15% HCL

1983 - Set 51 Bridge.Pluguat 3650

2nd stage - Perforated 3471'-3474', 34871

3590' - 3607' 22 holes.

Fractured - 700 Mcf N₂ 500 Gel-15 HCL

WELL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Salt & Sand Coal Coal Coal Maxton Sand Little Lime Big Lime Big Injun Berea Sand "Gordon Sand" Fifth Sand Riley Benson Alexander Sycamore Marcellus Onondaga Lime Oriskany Sandstone Helderberg Ls T. D. (Logger's)			1683 1761 1835 1865 1891 1952 1996 2038 2471 2648 2827 4472 4777 5000 5405 6182 6248 6460 6531 6637	1738 1763 1836 1866 1916 1966 2038 2134 2494 2830 4476 4787 5042 5443	U.D 2494 H - 3622
		(Atta			4964 R 5396 5396 M,5, 663760014 W.R. 6248610948 W.R. 6348610948 MARC - 6182

(Attach separate sheets to complete as necessary)

Bowser Gas & Oil Company

President

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed peologial record of all formations including coal, encountered in the drilling of a well."

FORW 1V-2 1627601 (12-81)

TELEPHONE: (304) 348-3092



Date: Augus	st 2,	. 19	82
Operator's Well No.	3		3467
API Well No.	47	○/3 会主	
	State	County	Permit

STATE OF WEST VIRGINIA

	OIL	AND GAS W	ELL PERM	IT APPLI	CATION	T		
WELL TYPE:	Oil/ (If "Gas", Product	ion X	Undergroun	d storage		Deep	Shallov	v/)
LOCATION:	Elevation: 1	L40	_ Watershed	Yell	Low Cre	ек .	Crantair	111075
	District: Sh	erman	_ County:	Calnot	in	Quadrang	euranosv.	TTTE ()
WELL OPERAT	OR Bowser Ga	s & Oil Co	ompany	DESIGNATE	ED AGEN	r bern	ard B. B	owser.
Address	#7 Fairvie	_		Addres	sses	7 Fair	<u>view Hgt</u> burg, WV	S. 26101
	<u>Parkersbur</u>	g, WV 261	01		7	ar ver s	narg, av	ZOTOT
OIL & GAS ROYALTY OWN	NER Chloe Rob	erts, et	<u>al</u>	COAL OPE	RATOR_		No Coal	
Address	Rt. 1, Harri			Addre	SS			
	266			COAT OWN	JER(S) WI	TH DECL	ARATION O	N RECORD:
Acreage	Old I are Date		-		, ,		1	
	NER Chloe Rob							
Address	Rt.l, Harris	VILLE, WV	20302	Addre	SS			
Acruage	- Control of the Cont		agung gangar kelalah di dibukhan direnten kepada Amerik	Name				
_	IF MADE) TO:		eringkuningsfalls-pagis maga maga sakan merupak					
•								maginum indonésia oranisis, a del ad desimbolis de la serio (100) any un que pro- despressor.
11001003			,	COAL LES	SEE WITH	H DECLA	RATION ON	RECORD:
OII & GAS IN	ISPECTOR TO BE NO	OTIFIED		Name		No	Coal	
	eo Mace			Addre	ess			
	Rt. 1, Box							
	Sandridge		74					
	ned well operator is enti			naces at the ah	ove location	n under a d	leed /	lease X
	/ datedMal							
other contract_	/ dated/	. 011 11/8	19	the undersign	ied wen op	cratot nor	A Samuel Company of the Company of t	paragangal parambanan semanya kantanan aparaman paraman apart semanyakan 1944.
	lease, or other contrac	~ <u>~</u> .					T- Thouse	
Recorded on	July 8, ;19 sease Book 0	in the offi	ce of the Clerk	of the County	Commissio	on of 5.327.	329.331.	County, West 333,33,33
Va., in	ease Book 0	31 Page at page		permit is rec	quested as	follows:		
PROPOSED	WORK: Drill X.	Drill deeper	/ Red	rill/	Fracture o	r stimulat	e/	
	Plug off old f	ormation	/ Perforate	new formation	on	1		
	Other physica	l change in wel	l (specify)					material and the second
	·							
	-planned as	shown on the v	vork order on	the reverse si	de hereof.			
The above na	med coal operator, coal	owner(s), and co	al lessee are h	ereby notified t	hat any obj	ection they	wish to make	or are required to
make by Code	\$22-4-3 must be filed	vith the Departn	nent of Mines	within fifteen ((15) days a	fter the re	ceipt of this A	pplication by the
Department.	No Coal							
	s Permit Application and							
	ed coal operator, coal o				of the maili	ng or deliv	ery of this Pen	mit Application to
the Departmen	nt of Mines at Charles	ton, West Virgin	nia.					
PLEASE SUBN GEOPHYSICA	MIT COPIES OF ALL L LOGS DIRECTLY		Commence has a formation		BOWSE	R GAS	& OIL CO	MPANY
то:		ALIA ELL	de BAN	- NEDS STATE OF THE STATE OF TH	A CHANGE		Operates	3
WEST VIRGI	NIA OIL AND GAS ATION COMMIS-	<i>D</i> 0 13		Ву _/	Berr	raid	B	Sows
SION	GTON STREET EAST		GAS BUT STO	**	Presi	dent		
CHARLESTON				N terms mand				. 4

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING	CONTRAC	TOP OF	: KNOW	N)				J. Comments	44127 Y	40700
EXICULITY	CONTINAC	rore fir	D14041		101622				Aligon Aligon Longon	
										1962 2
GEOLOGICA	AL TARGE	ET FORI	MATION	Ι,		Hamilton	n Limesto	ne $^{\mathbb{Q}}_{\underline{i}}$		34.1
								X / (Cable tools	
							; salt, 140			
								in the area? Yes	. / No	х ,
CASING AN							-		TOTAL STREET,	,
			•							
CASING OR	ll che	CIFICAT	:							
TUBING TYP		Grade	Weight per ft	New	Used	FOOTAGE For drilling	Left in well	CEMENT FILL-L OR SACKS (Cubic feet)	P PACKERS	
Conductor		· · · · · · · · · · · · · · · · · · ·				: '				·
Fresh Water	11-3/	4		X		250'	250'	250'	Kinds	
Coal	No C	oal							Sizes	
Intermediate	8-5/8		24	X		2500	2500	400'		manufactured to a continue of the second
Production	5-1/2	J55	17	X		6000	6000		Depths set	
Tubing	2-3/8			X						
Liners									Perforations:	Annual Control of the
O 1 Problem (Super Spales Spal									Тор	Bottom
pres "Re prev Cod	pepartment cribed by clamation living paid e \$22-4-8a separate Fo	r, accomp Regulation Plan", agon the sign on the from the perm Iv-2 s	on 12, or pplicable ame well, e owner shall not t	to the fe of any	plat in the recla e reque water	the form presc reof the other mation require ired by Code § r well or dwell or fracturing or	ribed by Regula security allow d by Code \$ 22 22-4-12z, and (v ling within 200 stimulating a w	r copies of Form IV ation 11, (ii) a bond ed by Code § 22-4-12b and Regular) if applicable, the feet of the proposed	I in one of the for I-2, (iii) Form IV ation 23, (iv) unle consent required sed well.	ms -9, ess oy
be p	art of the w	ork for w	hich a pe	ermit is	sougl	nt and is noted	as such on the F	Form IV-2 filed in c	onnection therewi	th.
g Garageg von	189 33 P.C	37 03 23	T MADE AND A COMP		- 94				,	
						49759 7 ?				
									•	
ROMES TO X	dri	lling	. 111			HALL BURGE				
	- Significant	and the same of th	CECOMEA.	5	-9-83					
	150.00			eter - receptores -	ong diga _{kal} anggan kalang sa	TO BE OF TRACT OF THE TOTAL PROPERTY.				
The dec	following v	vaiver mi	ust be come 22-4-2	20, if t	I by th	e coal operator rmit is to be is	ssued within fif	owner or coal lesse freen (15) days of	ee who has recorde receipt thereof.	đa
The unders	igned coal	operator	•	/ over	er	/ 1		he coal under this		
The undersig	ned has no	objection	n to the	wark n	ronoss	ed to be done	he well location, at this location, ng regulations.	, the well location h	well location has has been added to I operator has cor	examined this the mine map. applied with all
Date:			, 19				By			
AND THE RESERVED AND ADDRESS OF THE PARTY OF			, ; ⁷							