



DEEP WELL 6-6

Alum Prock

277) MAR 1 2 1990

State of West Virginia DEPARTMENT OF ENERGY

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Paulowad	TI	16	;	

Division of	Oil and	Gas Reviews	edM	6 .
Well Operator's R	eport of	Well Weepro	RECEI	VET
Farm name: EBERBOUGH, ROBERT B.	Operator	Well No.:		
LOCATION: Elevation: 1088.00 Quad	rangle: A	LUM CREEK	NG 2	6 92
District: WASHINGTON Latitude: 5670 Feet Sou Longitude 5190 Feet Wes	th of 38	Deg. 17Min	- Radinamenta	I Protection
Company: CONTINENTAL RESERVES OIL 1701 COCHRAN ROAD, SUITE 200 PITTSBURGH, PA 15220-1098	Casing	Used in	Left	Cement
Agent: NANCY COLTON		Drilling	in Well	Fill Up  Cu. Ft
Inspector: JERRY HOLCOMB	Size	finindaya entre		
Permit Issued: 03/08/90 Well work Commenced: 09/04/91	13 3/8	41	0	Acceptance of the Control of the Con
Well work Completed: 09/12/91 Verbal Plugging Permission granted on:	9 5/8	905	905	CTS
Rotary X Cable Rig Total Depth (feet) 4,895 Fresh water depths (ft) 175, 460	7	2,684	2,684	182 SX
Salt water depths (ft) 1,290, 1,320,	4 1/2	4,651	4,651	227 SX
1.700 Is coal being mined in area (Y/N)? Coal Depths (ft):339, 424, 493, 545,	4000 4000 4000 4000 4000 4000 4000 400	Company of the compan		
623, 708, 827				
OPEN FLOW DATA				
Producing formation <u>Devonian Shal</u> Gas: Initial open flow <u>18 MCF/</u> Final open flow <u>114 MCF/</u> Time of open flow between in Static rock Pressure 400 psig	d Ull: In 'd Fi itial and	nal open fl	flow	0 Bbl/d 0 Bbl/d labl#ours 0 #ewss-
Second producing formation	3 0:3	Pay zone d	epth (ft)	
rinal open flow MCF/	d Fi	itial open nal open fl	OW	Bbl/d Bbl/d
Time of open flow between in Static rock Pressurepsig	itial and (surface	final test pressure)	s after	Hours Hours
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED OF INCLUDING COAL ENCOUNTERED BY THE WELLING OF	PHYSICAL GEOLOGICAL BORE.	L CHANGE, IN RECORD OF	ETC. 2).	THE WELL
AUG 1 0 92 By:				
Permitting Date: 2	8/03/92	7	Ser	8 1992

Formation	Depth
Sand and Shale	0 - 1,890
Little Lime	1,890 - 1,928
Big Lime	1,928 - 2,139
Big Injun	2,139 - 2,611
Berea 1, 404	2,611 - 3,812
Lower Huron	3,812 - 4,249
Java	4,249 - 4,642 .
Rhinestreet	4,642 - 4,848
Marcellus	4,848 - 4,888
Onondaga	4,888
T.D.	4,895

Completion

Devonian Shale - Perf'd 2,858' to 4,168' O.A. Frac'd w/approx. 4 mmsef N<sub>2</sub>.

WR-	35	•						(	08-Mar-90
Reviewed		6	<b>*</b>	DEPART	MENT	st Virgin OF ENERO Oil and	J.	RECEI Office of C	)11 & Ca.
Recorded		controlles (COMMONTAL Approximation)	Well	Operator	's R		Well Work	il .	0 92
Farm	name:	EBERBOU	GH, R	OBERT B.		Operato	r Well No.:	SLONE W D	ivision of ental Protection
LOCA	TION:	Elevati	on: 1	088.00	Quad		ALUM CREEK	EUAILONIO	
		Latitud	e: 5	ASHINGTON 670 Feet 190 Feet	Sout	h of 38	County: LIN Deg. 17Mi Deg. 50 M	n. 30 Sec	1 ' •
Comp	170	1 COCHRA	N ROAL	RVES OIL D, SUITE : 15220-1098	- 200   8	Casing	Used in	Left	Cement    Fill Up
					e de la companya de l		Drilling	in Well	Cu. Ft.
•		CY COLTO			Q -	Size	50 CHO CEC CEC CHO CHO CHO CHO CHO CHO CHO CHO CHO CH		
Perm	it Issue	JERRY HO ed: ommenced	03	3/08/90	Common Common Common	13 3/8	41	0	
Well Verb	work Co al Plug	ompleted	: 0	9/12/91	٠	9 5/8	905	905	CTS
Rota: Tota:	ry x l Depth	Cable (feet)	4 . :	Rig 895 175, 460		- 7	2,684	2,684	182 SX
Salt	water c			,290, 1,3	20,	4 1/2	4,651	4,651	227 SX
<u>1.70</u> Is co Coal	oal bein	ng mined (ft):339	in ar , 424,	ea (Y/N)? 493, 545,	Z				
		623	, 708,	827				P 010 400 400 400 000 400 000 400 000 4	
OPEN	FLOW DA	TA						-	to,
	Gas: In	nal open	en fl flow	OW 18	MCF/	d Oil: I d F	Pay zone nitial open inal open for final tes e pressure)	flow	$\frac{0}{0} \frac{Bbl/d}{Bbl/d}$
							Pay zone nitial open final open final tes		Davis
	cas: III	nal open	flow	UW	MCF/	i oil: I	nitial open inal open f	low	Bbl/d Bbl/d
	Ti. Static	me of op rock Pre	en fl ssure	ow betwee	n in: psig	itial and (surface	d final tes e pressure)	ts	Hours
INTER LOG W	VALS, FI HICH I	RACTURIN S A SYS	G OR TEMAT: NTEREI	STIMULAT	ING, ED C WELLE	PHYSICA SEOLOGICA SORE.	G: 1). DET. AL CHANGE, AL RECORD	ETC. 2).	THE WELL
			1	CL: CONT.	T M C M T	nu neoci	AED OTP CO	• •	the major of

By: Date: <u>08/03/92</u>

AUG 2 1 1992 -

Formation		_Depth_
Sand and Shale		0 - 1,890
Little Lime		1,890 - 1,928
Big Lime		1,928 - 2,139
Big Injun	· con	2,139 - 2,611
Berea		2,611 - 3,812
Lower Huron	and them is	3,812 - 4,249
Java		4,249 - 4,642
		7,277 - 7,072
Rhinestreet		4,642 - 4,848
Rhinestreet Marcellus		•
		4,642 - 4,848

## Completion

Devonian Shale - Perfd N<sub>2</sub> Frac.

T-35 beluiting & Con Office of Oil &

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

Well Operator's Report of Well Work

Farm name:

EBERBOUGH, ROBERT B.

Operator Well No.: SLONE 1

LOCATION:

Elevation: 1088.00 Quadrangle: ALUM CREEK

District: WASHINGTON Latitude:

County: LINCOLN

5670 Feet South of 38 Deg. 17Min. 30 Sec. 5190 Feet West of 81 Deg. 50 Min. 0 Sec. Longitude

Company: CONTINENTAL RESERVES OIL

615 WASHINGTON ROAD-SUITE 304 | Casing | Used in PITTSBURGH, PA 15228-1920 Left Cement & |Fill Up| Tubing | Drilling | in Well|Cu. Ft. Agent: LINDA E. ALDRIDGE Size Inspector: RICHARD CAMPBELL Permit Issued: 10/23/92 13 3/8 j Well work Commenced: 41 10/24/92 Well work Completed: 11/09/92 Verbal Plugging 9 5/8 905 Permission granted on: 905 Rotary X Cable Total Depth (feet) Fresh water depths (ft) 2684 2684 182 SX 175, 460 Salt water depths (ft) 4 1/2 4651 2088 1290 and 1320 Is coal being mined in area (Y/N)?N Coal Depths (ft): 339, 424, 493, 545, 623, 708, 827.

OPEN FLOW DATA

(May

Gas: Initial open flow NA MCF/d Oil: Final open flow 300 MCF/d Time of open flow between initial	Initial open flow 0 Bbl/d
Static rock Pressure 350 psig (surf	and final tests NA Hours ace pressure) after 38 Hours
Gas: Initial open flow MCE (4.01)	Pay zone depth (ft)
Final open flow MCF/d  Time of open flow between initial a  Static rock Pressure	rinal open flow Bbl/d and final tests

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 FOFMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORF.

Static rock Pressure \_\_\_\_psig (surface pressure) after

For: CONTINENTAL RESERVES OIL CO.

Reviewed Recorded.

J. Michael Scureman

Date: 2/25/93

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## Geologic Record

Sand and Shale	0 - 1890
Little Lime	1890 - 1928
Big Lime	1928 - 2139
Big Injun Sand	2139 - 2611
Berea Sand	2611 - 3812
Lower Huron Shale	3812 - 4249
Java Shale	4249 - 4642
Rhinestreet Shale	4642 - 4848
Marcellus Shale	4848 - 4888
Onondaga	4888 - T.D.
T.D.	4895

DF - 461

## Completion Record

- 1. Perf'd Devonian Shale from 2858 to 4168 (O.A.); Frac'd with 400,000 Scf N<sub>2</sub>.
- Cut 4 1/2<sup>™</sup> csg. @ 2088' and pulled csg. Recompletion in Berea Sandstone, Perf'd from 2617 to 2627 with 9 holes; Frac'd with 40,000# of 20/40 sand.

	Sizes_ Depths	set	
8.1		For Division of Oil and Gas Use Only	_
Fee(s	) paid:	Well Work Permit Reclamation fund WPCP	
Plat	CAN WI	1-9 WW-2B [ Bond Jarety [ ] Agent	
<b>/</b>	V	(Type)	

	t l ot	1)	Date: 02-09-90
	WW2-A	2)	Operator's well number
(09/		5	ione #1
Flle	Сору	3)	API Well No: 47 - 043 - 2766
			State - County - Permit
		STATE OF WE	ST VIRGINIA
		DEPARTMENT OF ENERGY,	DIVISION OF OIL AND GAS
		NOTICE AND APPLICATION	FOR A WELL WORK PERMIT
4.3	0.5		
4)	Surface O	wner(s) to be served:	
	(a) Name	Robert B. Eberbough	Name None
	Address	2401 Branchwood Dr.	Address
	nobewell	, VA 23860	
	(D) Name		(b) Coal Owner(s) with Declaration
	Address _		Name Robert B. Eberbough
	(C) Name		<u>Hopewell. VA 23860</u>
	*****		Marile
		, , , , , , , , , , , , , , , , , , , ,	Address
6)		**	
0,1	inspector	Jerry Holcomb	The state of the s
	Address _	Rt. 2. Box 159 - Hwy. #34	Name None
	malan, v	VV 25523	Address
	rerebuoue	(304)824-5963	
	e	TO THE DEPOSIT OF THE	
		TO THE PERSON(S) NAMED A	ABOVE TAKE NOTICE THAT:
v	Included	is the learn in the	
cont.	racts by w	high I hold the winter	or other continuing contract or
C 0 11 C.	Included	is the information was	extract oil and gas OR
Sect	ion 8(a) o	f the Code of West Wine	red by Chapter 22B, Article 1,
	I certify	the Code of West Virgi	.nla (see page 2)
T has	ve served o	chac as required under	Chapter 22B of the West Virginia Code
accor	mpanying d	opies of this hotice an	and application, a location plat, and
	Derec	onal Service (Affidavit	on the above named parties, by:
	v Carti	ified Mail (Deathern )	attached)
	Dubli	ication (Notice of Dubi:	postal receipt attached)
		cation (Notice of Publi	cation attached)
	I have rea	ad and understand Chaste	- 225 - 2 22 - 24 - 4
to th	ne terms ar	and understand chapte	r 22B and 38 CSR 11-18, and I agree
	I certify	under penalty of law te	mit issued under this application.
famil	liar with t	the information submitted	at I have personally examined and am
attac	chments. ar	nd that based on my in-	d on this application form and all
respo	onsible for	obtaining the informat	iry of those individuals immediately
is tr	ue. accura	ite, and complete.	ion, I believe that the information
	I am aware	that there are signifi	annt man-little 5
infor	mation. in	icluding the possibility	cant penalties for submitting false of fine and imprisonment.
		Well Operator	or rine and imprisonment.
		Pv. I Miche	Continental Reserves Oil Company
		By: <u>J. Michaeller</u> Its: <u>Presiden</u>	21 Scureman Mutael Jun
		Address 1/7	2 Hank Maria Co
		Bridgeport, N	-3 West Main Street
		Telephone (	30(1) 9(2) 5(1)
Subsc	ribed and	sworn before me this 91	
. ~			th day of <u>February</u> , 19 <u>90</u>
7)an	cy D. Colt	טעב	Nanam D. C. T
	mmission e		Nancy D. Colton Notary Public

ge s	ı	DEPAF	CIMENI OF.	ENERGY. D	T VIRGINIA IVISION OF	OIL AND GAS O	43 2766	, Frac.
	Vell o	perator:	COMMINER	WORK PERMI	T APPLICATI	1/015	2) 000	
		•••			<u> </u>	_11019 (8	2) 200	
					47 043 2766		levation:	*****
at ) A	err c			or Ga		6 (1)	10/23/92	
		(b)	If Gas:	Production Des	on/ Under	ground Storag Shallo	ie /	
5) P	ropos	ed Target	Formatio	n(s):DE	EVONIAN SHALE	4-13 -		
				4500				
						20, 341, 620, 84	.1	
					5, 1300, 1405		-	
					450, 515, 5		:	
						533'-538' :ive mine? Ye	- / N - V	
11) Pr	opose	d Well Wo	rk: RECOM	PLETE BEREA	SAND 2611-263	) C mman man —		
12)			LIME 1	920 -2139, 1	TEMP. PLUG, PI	ERF, ACID & FRAC	. AND FRAC	; BIG
			CASIN	G AND TUB	ING PROGRAM			
TYPE		S	PECIFICAT	TIONS	FOOTAGE I	NTERVALS	CEMEN	<u>T</u>
CLASS STATE CONTROL OF THE STATE OF THE STAT		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up	e established and a second and
Conduct	or	13 3/8"	J-55	54.5	31'	PULL		1
Fresh W	ater_	8 5/8"	J-55	24	871 <b>'</b>	871 %	871 SURFACE	1
Coal							SURFACE	EXISTI WELL
Intermed	liate	7"	<u>J-55</u>	20	2500 h	". 2500 <sup>3</sup>	125 sacks	RE-COM
Producti	on					·		
<u>"ubing</u>	•							1.
iners							11/20	1
ACKERS						<u>Livi</u>	gilli Student Rece <b>ction</b>	
	Siz Dep	es ths set _				<b>3</b>	J 0 9 92	
\$ 33		Fo	r Divison	of Oil ar	nd Gas Use		Permitting los di OII & COS	
Fee(s) paid:     Well Work Permit     Reclamation Fund     WPCP								
Plat     WW-9								
(Type)								

Dage	1 of	A Production	1)	Date: 9-25-92
	WW2-A	· · · · · · · · · · · · · · · · · · ·	2)	Operator's well number
(09/	2)	2 8 92		Slone #1
		niting	3)	Operator's well number  Slone #1  API Well No: 47 - 043 - 2766 7  State - County - Permit
		FOR & Gas	b-	State - County - Permit
			OF UPOT	VIRGINIA
		DIVISION OF ENVIRONME	NTAL PROT	ECTION-OFFICE OF OIL & GAS
		NOTICE AND APPLIC	ATION F	OR A WELL WORK PERMIT
			_	
4)				5) (a) Coal Operator:
	(a) Name	Robert B. Eberbough 2401 Branchwood Dr.		NameAddress
	Address _	Hopewell, VA 23860		Address
		nobewell, VA 25000		(b) Coal Owner(s) with Declaration
				Name SAME
				Address
	(c) Name			
				Name
	***************************************			Address
		Dishard S. Comball		(a) Contain Designation
6)	Inspector	Richard S. Campbell OBox 163		(c) Coal Lessee with Declaration
	Address :	Hamlin, WV 25523		Name
	Talanhone	824 5228		
Sect I had accordance to the family attached	Included ion 8(d) I certify ve served mpanying Per: Cer Pub I have r he terms I certify liar with chments, onsible f rue, accu I am awa rmation, STATEC LINDA	is the information of the Code of Westy that as required copies of this no documents pages I sonal Service (Affitified Mail (Postmilication (Notice of Land and conditions of the information son that based on or obtaining the irrate, and complete that there are including the possible of the information of the information son that based on or obtaining the irrate, and complete that there are including the possible of the possibl	n require to Virgin under Contine and through idavit a arked pof Public Chapter any permulaw the ubmitted my inquire informations ignifications in the continuous and	chapter 22B of the West Virginia Code application, a location plat, and on the above named parties, by: attached) attached)
	BRIDGE	IL RESERVES OIL CO. Addres WEST MAIN ST. PORT, WV 26330	3	BRIDGEPORT, WV @c##)
	My Cornmissio	Expires Doc. 26, 2000 Teleph		Ch 304) 842 5446
Subs	cribed an	d sworn before me	this 2	May of September , 191
9		Soldales .		Notary Publi
MVE	ommission	expires		cranber 26 2000
~ 1	·			/