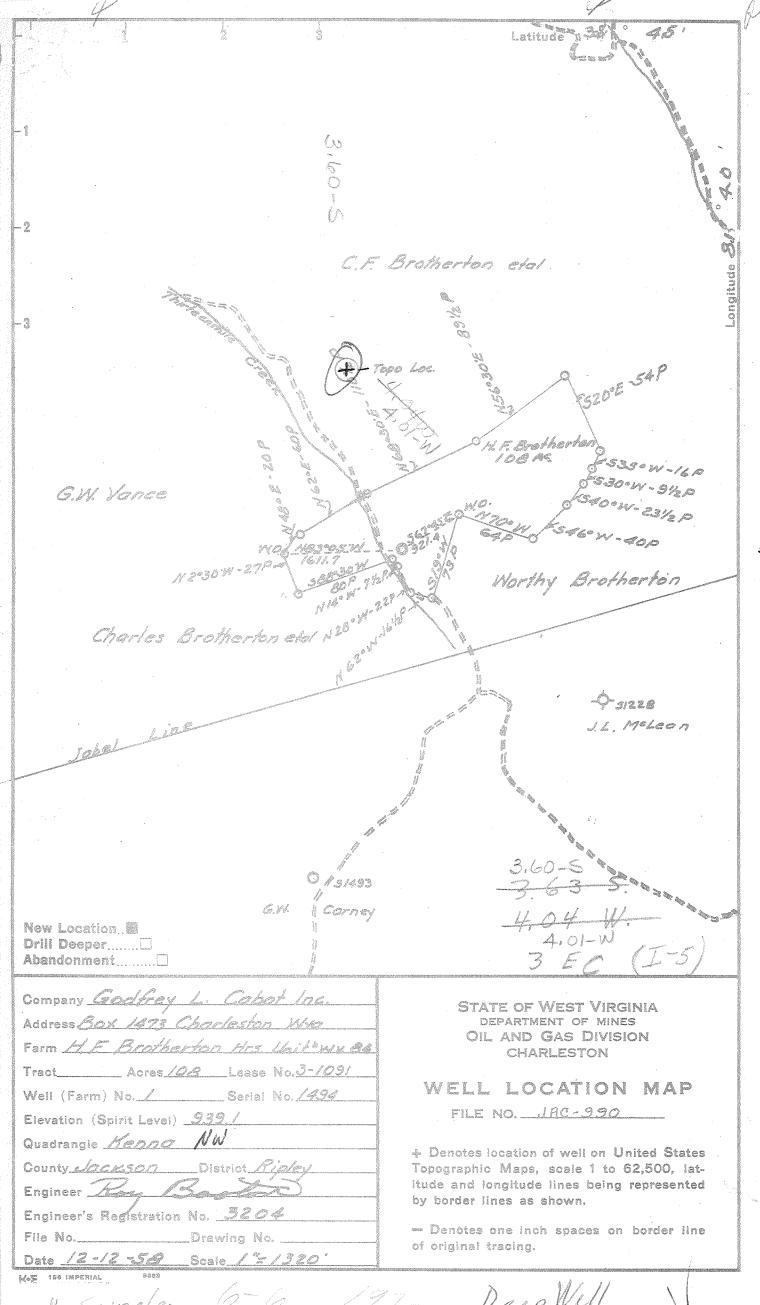


6-6 Elk-Pocal (Sissanvilla) MINIM- OF EP WELL



No Samples

Deep Well

DECEIVED NOV 1 - 365

r:-35 (Rev 8-61) DEPT. OF ENERGY of Mest Hirginia

Peparinent of Mines noising as done in

Date	Oct				. J	
Opera	tor's					
Well	No	#1				MANAGE P
Farm	н. г.	Bro	ther	ton		
API	No.47	-	035	999	0990	FRAC

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 939.1 Watershed The	irteen Mil	e Creek			•
District: Ripley County Jac	ckson (	Gnadraudje	Kenna 7 <sup>1</sup>	2	
					p
149					•
COMPANY Cabot Oil & Gas Corp. of WV	Carina	Used in	<b>Left</b>	Cerent	
ADDRESS P.O. Box 454, Glasgow, WV 25086	Casing	Drilling		fill up Cu. ft.	
DESIGNATED AGENT Robert E. Horrell	Tubing	DITITING	Ti uerr	C3. 20.	4
ADDRESS P.O. Box 454, Glasgow, WV 25086	Size 20-16				The State of the S
SURFACE CONNER H. F. Brotherton  C/O Lucy Lantz, RFD 1, Box 90C  ADDRESS Given, WV 25245  Carry Lee Carney, Rt. 1,	Cord.		•		4
ADDRESS Given. WV 25245 Gary Lee Carney, Rt. 1,	13-10"				4
MINERAL RIGHT: OWNER Box 265, Given, WV 25245 Lucy Lantz, RFD 1, Box 90C, Given, WV 25245	9 5/8				_
ADDRESS Clay Brotherton, Rt.1, Box 90C, Given, WV	8 5/8			squeezed	dr.
OIL AND GAS I SPECTOR FOR THIS WORK Jerry Route 1, Box 101-A Ripley, WV 25271	7	pulled	3785	4430'-40	<u> </u>
·	5 1/2	pulled	4295'		-
PERMIT ISSUED August 13, 1985	4 1/2				4
WORKOVER CONMENCED 9/9/85	<u>3 노</u>	ran		130 sks	$\dashv$
WORKOVER COLPLETED 10/9/85	2	pulled	5090'	. lu/coatin	_
IF APPLICABE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	1½ KAKNEKS	ran	2636.95	w/seatin	n c
REMORKING. VERBAL PERMISSION OBTAINED	meed.				
ON					- h-
GEOLOGICAL TARGET FORMATION Huron Shale			pth <u>4104-4</u>	289 <b>f</b> e	36
Depth of completed well PBTD = 2930feet	Rotary_	/ Car	le Tools		
Water strata depth: Fresh 80,855 feet;	Salt_	fee	et	40	
Coal seam depths: NR	Is coa	l being mi	ned in th	ne area?	Andrews
open flow data					
Producing formation Berea		ay zone de			
case Initial open flow Mcf/d	oil:	initial op	en flow	Bbl	./đ
4 hr s 6 hr Final open flow 275 Mcf/d		Final open	flow	Eb!	L/d
rime of open flow between in	itial and	final tes	ts	vonza	
Static rock pressure 600 psig(surf	ace measu	rement) af	ter 48 h	ours shut	in
(If amplicable due to multiple completi	on)			•	
Second producing formation.		Pay zone d	lepth	· £	eet
Gas: Initial open flow Mcf/c	i oil:	Initial of	en flow_	Bb	7/0
Final open flow Mcf/c					

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

9/09/85 - MIRU Pool Well Service. Could not pull 2-3/8" tubing. Ran Free-point. LTD 5105'. Tbg free @ 5090'. Cut tbg & pulled. R/U Young Wireline, ran Free-point on 5½" csg. Stuck @ 4325'. Ran GR, CBL. TOC 4306'. Good Bond. Set BP @ 4500' to plug back Oriskany, perf'd to squeeze @ 4430'. Set cmt retainer @ 4420'. R/U B-J, squeezed with 100 sks 50/50 poz, 10% salt, 5#/sk gilsonite, .75% friction reducer. Run 2-7/8" w/ Tri-State mechanical cutter (137 jts) to 4295'. Cut 5½". Pulled 5½" casing. Run GR/CBL & Sonic Seismogram. Ratty bond to 4208'. Perf 7" at 4200'. R/U Halliburton. Squeezed 100 sks 50/50 poz, 10% salt, 5# gilsonite/sk, 3/4 of 1% CFR-2. Could only displace plug to 3750'. Drld cmt to 4205'. TOC 4145'. 100% bond. Perf to squeeze 2' (8 holes) 4099'-4101'. R/U B-J. Pumped 24 bbls cmt, 50/50 poz, 2% CaCl2. Drld cmt from 3860'-4100'. R/U McCullough. Ran cmt bond log & Seismogram. Top of cmt 4068', 100% bond. Perf Shale 4104' - 4289', 4101', 07', 12', 32', 62', 68', 81', 4200', 08', 44', 48', 50', 52', 56', 58', 61', 70', 81', 89', (19 holes). 9/27/85 - Found hole full of salt water at 1200'. Swabbed down Well 100' to 2500', 30 min fluid level 1800'. R/U McCullough ran noise log, found fluid coming in at 4280', 4200' & 4132'. Decided RPMARKS

TOP FEET BOTTOM FEET Including indication of all fresh and salt water, coal, oil and gas to abandon Huron Shale. Set BP at 4080'. Dumped 2 sks Cal-seal on BP. Run Tri-State mechanical cutter. Cut 7" at 3785'. Pulled 7" casing. R/U Young Wireline, ran G/R, Caliper, Comp Density logs. Set BP @ 2930' Dump 2 sks Cal-seal. Ran 102 jts 3½" 10RD 9.2# tbg, set @ 2725.95' GL. R/U B-J, cmtd w/130 sks Thixotropic. Ran GR, CBL & Sonic Seismogram. LTD 2709'. TCC 2447', 100% bond. Perf Berea 2632'-2645' (13 holes). R/U B-J, pumped 500 gals 15% HCL. B/D Berea @ 2260 psi. ISIP 1500 psi. Treated w/60,000 # 20/40 sand, max 2#/gal. AIR 12 BPM 75 Q foam, 3 BPM H2O w/5000 Scf/min N2. ATP 2300 psi. T/F 231 bbls, S/L 183 bbls; total N2 385,000 Scf. ISIP 2100 psi, 15 min 1910 psi, released thru 1/4" choke. Ran 79 jts & 2 subs 1½" 2.75# 10RD tbg set @ 2636.95' w/ seating nipple on bottom. Tstd 10/10/85. SICP 600 psi. SITP 570 psi. Berea. 4hr O/F. 44/10 H2O thru 2" = 275 Mcf.' 6 hr O/F 44/10 H2O thru 2" = 275 Mcf.'d.

Plugged back Oriskany and Huron Shale

PBID

2930

See attached original well record

. 0

8 -- 8

(Attach separate sheets as necessary)

	C	abot Oil & Gas Corp o	f W	
	Well-	Operator		
	0.1		District Product	ion
	By: Kob	ent & Honell	Superintendent	
•	Date:	October 30, 1985		95

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including

TOTAL DEPTH



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

T.F							
luadrangle Ker	A.		W Francis Later Learn	RECORD		₩ 48 × ***	e Wall GAS
Permit No JAC out		noon was allowed to the control of t			THE CONTROL OF THE PROPERTY OF	Oil or Ga	(KIND)
	<u>rev L. Cab</u> Leston, W.	ot, Inc. Va.	V	Casing and Tubing	Used in Drilling	Left in Well	Packers
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ocation (waters)_				Size	Maria de la companio della companio		
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	A	.ddress		81/4	1731	1731	
ineral rights are	owned by	H.F.Brothert	on Hrs.	65/8	<del>                                     </del>		Depth set
		ddress Given,	, W. Val.	5 3/16	-		
rilling commence		ber 29, 1958					Perf. top 1725
							Perf. bottom 1729
ate Shot	From	To.		Liners Used			Perf. top
							Perf. bottom
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olume/			ncnCu. Ft.		ENTED	SIZEN	Vo. FtDate
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					TINC	HESF	FEETINCHES
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RESULT AFTER ROCK PRESSURI Fresh Water 8	E AFTER TR	EATMENTFeetHard or			1235%.		Remarks
rock PRESSUR Fresh Water 8	E AFTER TR	EATMENTFeet		Salt WaterBottom	1235%. Oil, Gas	Feet. Depth	Remarks
Formation  Page 1 Rock	E AFTER TR	EATMENTFeetHard or	Тор	Salt Water  Bottom	1235%.	Feet.	mere and pour price in a resource in any condition and control of the condition of the cond
Formation  and Rock  hale	E AFTER TR	EATMENTFeetHard or	Top 0 80	Salt WaterBottom 80	1235%. Oil, Gas	Feet. Depth	Remarks
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Formation  Ped Rock hale ed Rock hale	E AFTER TR	EATMENTFeetHard or	Top 0 80 147 176 200	Salt Water	1235%. Oil, Gas	Feet. Depth	Remarks
Formation  ed Rock hale ed Rock hale hale and late & Shell	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230	Salt Water  Bottom  80 147 176 200 230 241	1235%. Oil, Gas	Feet. Depth	Remarks
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Formation  ed Rock hale d Rock hate & Shell	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605	80 147 176 200 230 241 267 325 356 387 397 500 518	Oil, Gas or Water Water	Feet.  Depth  80	Remarks  1/2 blr./hr.
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Formation  ed Rock hale hale ed Rock hale hale hale hale hale hale hale hale	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040	80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086	Oil, Gas or Water Water	Feet.  Depth  80	Remarks  1/2 blr./hr.
Formation  ed Rock hale ed Rock hate & Shell	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086	Bottom  80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086 1098	Oil, Gas or Water Water	Feet.  Depth  80	Remarks  1/2 blr./hr.
Formation  ed Rock hale ed Rock hale ed Rock hale ed Rock hale ed Rock hate & Shell	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040	80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086	Oil, Gas or Water Water	Feet.  Depth  80	Remarks  1/2 blr./hr.  7 blrs.in 24
Formation  ed Rock hale ed Rock hale ed Rock hale ed Rock hale ed Rock late & Shell ed Rock hale ed Rock hale ed Rock late & Shell ed Rock hale ed Rock	E AFTER TR	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086 1098 1132 1180	Bottom  80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086 1098 1132 1180 1250	Oil, Gas or Water  Water  Water  Water	Depth 80 1855 1855 1235	Remarks  1/2 blr./hr.  7 blrs.in 2h 1  1/2 blr./hr.
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Formation  ed Rock hale ed Rock hale ed Rock hale ed Rock late & Shell ed Rock hale ed Rock late & Shell ed Rock hale ed Rock late & Shell end hale end hale and late & Shell end	Color	EATMENTFeetHard or	Top  0 80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086 1098 1132 1180 1250 1320	Bottom  80 147 176 200 230 241 267 325 356 387 397 500 518 605 700 798 831 838 900 1040 1086 1098 1132 1180 1250 1320 1388	Oil, Gas or Water  Water  Water  Water	Depth 80 1855 1855 1235	Remarks  1/2 blr./hr.  7 blrs.in 2h 1  1/2 blr./hr.
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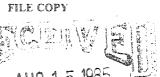
1733



## DEPARTMENT OF MINES

OIL AND GAS DIVISION

Quadrangle <u>Ke</u>	nna	MARIAN MARIAN	De	epening			
Permit No. Ja	.c-990 ▷		WELL	RECORD		Oil or Gas	Well Gas
ompany Cab	ot Corporat	ion		Casima and	TY		
Address Char	rleston, We	st Virginia		Casing and Tubing	Used in Drilling	Left in Well	Packers
'arm H.	F. Brothert	on	Acres 108				
ocation (waters	s)	***************************************		Size			
Vell No. 1, So	er. 1494		Elev. 939	. 16	and the second s		Kind of Packer B.H.
District Riple	ey	_CountyJa	ckson	. 13			ering of a mountaine
The surface of the	ract is owned in	fee by				s	lize of 8''
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			ton, et al		5039	5020	
			. W. Va.		5069	5069	Depth set
					2003		
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With			I .			F	Perf. bottom
			Inch		1		,
	_/10ths Merc.	in	Inch	CASING CEM	ENTED_7" W	ith 75 sacks SIZENo	. FtDate
		1	Cu. Ft.	*			ks
			hrs.				
Dil			_bbls., 1st 24 hrs.	•			ETINCHES
WELL ACIDIZE	ED		·	FEE'	rINC	HESF	ETINCHES
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WELL FRACTU	red20,	000 gals. w	ater and 25,0	000# sand			
2		Hard or			O:1 C	Į.	
Formation	Color	Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
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ime and	And the second s		1963	2142			
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ime			2274	2362			
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late & Shel	thems therefor	harra,	3891	4094			
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	Casta Ó	1733					
and the second s	Sept.	1733 7400					
	Septició D.P.Rostoga	7733					





1)	Date: August :	13	19_	85
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2) Operator's Well No.

0990 Frac 3) API Well No. State County Permit

## STATE OF WEST VIRGINIA

DIVISION OF OIL & GASPEPARTMENT OF MINES, OIL AND GAS DIVISION DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

4) WELL TYP	E: A Oi	l	/ Ga:		X/				**	
									_/ Shallow <u>X</u> _/)	
5) LOCATION		vation:						Mile Creek	** ** 7 \$	
		trict:				County:J	ackson	Quadrangle:	Kenna /垓'	*****
6) WELL OPE					corp	. OI W.V. 49	Į.		t E. Horrell	
Address	P.O. Box 454 Glasgow, W.V. 25086					8150	Address	P.O.		
		<u></u>			25086			-	yow, W.V. 25086	
8) OIL & GAS	INSPECT	FOR TO E	BE NOTIF	IED			9) DRILLING C	CONTRACTOR:		
Name							Name	·		
Address	***************************************						Address			
10) PROPOSE	D WELL V	WORK:	Drill		_/ Dril	deeper	/ Redrill	/ Stimulate	X/	
						n_X/ Perfora	ate new formation	nX/		
			Other pl	nysical	change i	n well (specify) E	lug back O	riskany		
11) GEOLOGI	CAL TAR	GET FOR	MATION,		Huror	Shale (40	1			<del></del>
12) Estima							J			
13) Appro	ximate trat	a depths:	Fresh,	80,	855		1235	feet.		
14) Appro	ximate coa	l seam dep	ths:		NR_	Is co:	al being mined in th	ne area? Yes	/ No	
15) CASING A										
CASING OR			IFICATIONS	;		FOOTAGE I	NTERVALS	CEMENT FILL-UP	PACKERS	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	16	Giac				Existing	20'		Kinds	
Frest water	13				1	11	198'	On shoe		
	10	<u> </u>				98	1234'	On shoe	Sizes	
lntermediate	8-5/8	1				80	2281'	On B.H. pac	<del> </del>	
Production Production	7					81	5039'	75 sks	Depths set	_
TOGALION	5-1/2				<b>†</b>	21	5069'	14 sks	200113 861	
	1 1/2							13 202	Perforations:	
Lines PUBING	1_1/2	J-55	2.75	Х		Proposed	4400"		Top Bottom	-
LODING	1-1/2	<u></u>	2015			FILOPOSOL	3300			
	1									
(3) 0-4 5	1.11		001			(2) 0-1		L 0 4500		
(1) Cut 5								tainer @ 4500 t 7" casing 45		
(2) Set 7	Cast		briage	2 10 4	L/9U	OFFICE USE		C / Castriy 4.	- 0005	
***************************************						DRILLING PE				
•			W	ì					. 1 /	0.5
Permit number_	47-	035-09	90 Fra	1C		_			eptember 4 19	85
								Da		
This permit cov	ering the w	vell operate	or and we	l locat	ion show	n below is evidence	of permission gran	ited to drill in accordan	nce with the pertinent legal	re-
quirements subj	ect to the c	tion of ros	containeu ade Incetii	une ant	and on t	any permitted work	In addition, the	given to the District Oil well operator or his cor	and Gas Inspector, (Refer the name of the property of the prop	io per
district oil and g	as inspect	or 24 hour	s before a	ctual p	ermitted	work has commence	d.)	-		
The permitted v	ork is as d	lescribed in	the Notic	e and	Applicat	ion, plat, and reclam	ation plan, subject	to any modifications a	and conditions specified on t	the
reverse hereof.					**	, ,				
Permit expires	Sep	tember	-4, 19	387		unless wel	l work is commence	ed prior to that date and	l prosecuted with due diligen	ce.
Bond: L	∠ Ager	at:	Plat:	Casi	ing	Fee				
	Art	3		Λ.			$\wedge$		. 0	
and the control of th	1161		A.T.	$(X_{\cdot})$	F. 1/	5770		1_ /	11 11-11	
		V	1				yan	12 /ep	l-al re	
								Hints Office of (	Oil and Gas	
NOTE: Keep	one copy o	t this pern	nit posted	at the	arilling l	ocation.	· ·	•	Fi	ie