





WR-35

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

	A TO SERVICE	The state of the s	
štrte	nf	789 pat	Hiroini

State of Mest Nirginia

DEPARTMENT OF ENERGY Gil und Cas Bivision

Date	6/6,	/89	
Opera	itor's		
Well	No	R159	
Farm	E.O.	McCullo	ugh
API :	10.47	- 095	-0721 D

WELL OPERATOR'S REPORT

OF

בארדדדמת	FRACTURTNG	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE
DRULLULING,	EVACIOITIO		0140444			

LOCATION: Elevation: 1001 gl Watershed I	Davis Run c	f Sancho Cı	reek	
District: Centerville County Ty	ler	_Quadrangle	<u>Middlebo</u>	ourne 7½'
COLUMN Constant Oil & Con Corp				
COMPANY Sancho Oil & Gas Corp ADDRESS 210 Second Street St. Marys W.Va. 2617	O Casing	Used in	Teft	Cement
DESIGNATED AGENT Loren E. Bagley	4	l l	in Well	fill up Cu. ft.
	Tubing	DITTING	TII WELL	- Cu. 1c.
ADDRESS Rt 1 Middlebourne, W.Va.	Size 20-16			
SURFACE OWNER Paul McCullough	Cond.			
ADDRESS Rt 1 Bearsville, W.Va.	13-10"	250	250	130 sks
MINERAL RIGHTS OWNER Paul McCullough	9 5/8			
ADDRESS Rt 1 Bearsville, W.Va.	8 5/8	500	500	surface
OIL AND GAS INSPECIOR FOR THIS WORK	7			
Robinson ADDRESS West Virginia	5 1/2		<u> </u>	
PERMIT ISSUED 4/27/89	4 1/2	3118	3118	455 sks
DRILLING COMMENCED 5/1/89	3			
DRILLING COMPLETED 5/29/89	27/8	" 5080	5080	35 sks
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN			<u> </u>	
GEOLOGICAL TARGET FORMATION Chemung group of	f Ohio Shal	e De	pth 4580-5	5000 feet
Depth of completed well 5080 feet	Rotary	XX / Cab	le T∞ls_	
Water strata depth: Fresh none feet	ے۔ : Salt ہ	one fee	t	
Coal seam depths: none	Is coa	l being mi	ned in th	ne area? no
Coal seam deputs:none		,		
OPEN FLOW DATA				<i>E</i> +
Producing formation Chemung		ay zone de	pth_4584	-4968 reet
Gas: Initial open flow 50 Mcf/c	d Oil:	initial ope	n flow	0 BDI/d
Final open flow 50 Mcf/c				
Time of open flow between in				
Static rock pressure 1500 psig(sur		rement) aft	er_24_h	ours shut in
(If applicable due to multiple complet	ion)		. 1	£4-
Second producing formation none		Pay zone de	epth	1991
Gas: Initial open flowMcf/	d Oil:	Initial op	su riom	BD1/G
Final open flow Mcf/	d Oil:	Final open	:1cm	
Time of open flow between i	initial arx	I final tes	ts	nours
Static rock pressurepsig(sur		ement) aft	er}	rours shut in
	11111			

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

perforated from 4584 to 4968'KB with 12 holes treated with 460 bbl gelled water 5000 lbs 80/100 sand 25,000 lbs 20/40 sand

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
unconsolidated clay and gravel siltstone & gray shale sandstone shale dark grey sandstone & sahle shale Cow Run Sandstone First Salt Sandstone Second Salt Sandstone Third Salt Sandstone Maxton Sand Keener Big Injun Sandstone Squaw Sand Weir Sandstone Berea Sand top Ohio Shale Gordon Sand Chemung Group TD O NOTE: the original completion target (Gordon sands @ 2822 to 2929'KB) never produced oil or gas in commercial quantities.	0 34 140 186 475 1150 1324 1380 1492 1564 1736 1790 1900 2128 2316 2497 2505 2916 4580	34 140 186 475 1150 1324 1375 1420 1514 1604 1760 1820 2120 2136 2344 2500 2930 5000 5100	JUN 09 1989 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY 095 720 797 798
822 3000	•		

(Attach separate sheets as necessary)

SANCHO	OIL	AND	GAS	CORP	
Well Opera	tor				
By: Ruhard	R				
By: Kuhard	<u>Uu</u>	sun.	GEO	10015	
Date: JUNE			' _		

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 the drilling of a well."



FORM I	ζ-BΕ	DIL & G PT.	AS DIVIS	ION PARTY	STA MENT C	ATE OF WEST VI	RGINIA AND GAS DIVIS	ION Operator	10-28, 19
[08-78]					WEI	LL OPERATOR'S OP AND/OR STIMULA	REPORT25	API Wel	No. 47 - 095 - 07 State County Per
							The same of the sa		The sound of the s
						Injection			
	(If "G	as", Pr	oductio	on		Underground s	torage/	Deep/	Shallow/)
						latershed: $\sqrt{2}$			
	Distri	ct: <u>C</u> z	NTER	VILLE		County: Ty	LER Q	uadrangle: <u>M</u>	100LEBOURNE
WELL OPERATO	R (w. K) 1905. –	TNC			DESIGNATED AG	ENT SAME	15 OCERATOR
									•
			ys. l						
			,						
PERMITTED WO	RK: Di	·111 <u>/</u>	<u>_</u> / Co	nvert	-	/ Drill deep	er/ Red	rill/ Fra	eture or stimulate
	P	lug off	old fo	rmat:	10n	/ Perfora	te new format	1on/	
	.01	ther pr	nysical	chang	ge in	well (specify)		
		-							
PERMIT ISSUE	D ON	5	7-20)	! Q	79	OTI & CAS THE	SPECTOR FOR THI	
(IF APPLICAE		-						LUP TRAC	
CONTINU	JOUS PR	OGRESS	ION FROM	M DRI	LLING		Address	Misses	SURNE, W.VA.
				2011 0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Address	MIDDLE13	DUKNE, W. IA.
GEOLOGICAL T	ARGET	FORMAT	TON /	110	2=0	1)=113	. /	2 3	118 1925
Denth o	f comp	leted	wo11 (2)	18	Scoot Box	1/4N	Depth	1/8 :62.
								Table Tools	
water s	trata	aeptn:	rresn	, <u>ev</u> /	IZ_ire	et; salt,	N/A feet.	# ().	
Coal se	am dep	ths: _	- V	[}	-	Is coal be	eing mined in	the area?/VU	<u>20</u> , 1380
Work wa	s comm	enced .		16			and completed	-2-2	10, 1980
CASING AND T	UBING	PROGRA	M						
CASING OR	11	SPEC	IFICATI	ONS		# FOOTAGE	INTERVALS	Morroum process	-11
TUBING TYPE	\$170	1	Weight.		lunci	il .		CEMENT FILL-UP OR SACKS	FACKERS
Conductor	3126	u. aue	per It	New	usea	FOR drilling	Left in well	(Cubic feet)	
Conductor	103"	 	22-4	-	 	250'	250		Kinds
Fresh water	10/4	 	32.25#	λ	-	×30	250'	1305Ks	
Coal		ļ	-	 	 				Sizes .
Intermediate			-4						
Production	45		10.5#	X	 		3118)	4555KS	Depths set
Tubing				ļ	ļ <u>.</u>			·	
Liners	·				-				Perforations:
		ļ			ļ				Top Botton
				ļ	ļ				
	<u> </u>	<u> </u>		<u> </u>					
OPEN FLOW DA	TA	mation	(ax	ena	n) (2926
Ga			non Ci-	,	40	Marca Nacra	<u> </u>	ray zone depth	2930 rm
ųa.	5; III.	rtiar c	ppen 110	,	TO	MC1/d	OII: Initial	open flow,	<u></u>
	Fir							pen flow,	
								ts, $\frac{2}{2}$ hours	
St	atic ro	ock pre	ssure,	<u> </u>	י <u>כור</u>	sig (surface	measurement) > S.Nois (after 24 hou	urs shut 1 NOV 25 1980

GORDON

[08-78]

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

.50 PALIBER 2822-26 2 11 2837-39 3 284-5-47 3 2853 - 55 9 2921-29

STIMULATION

1200 BBL H20, 60,000 # 20.40 SAND, 130,200 SCF N2

WELL LOG

رم د	Color	llard or Soft	Top Feet	Bottom Feet	Including indication of all fresh
COW RUN			1324	1375	and salt water, coal, oil and gas
15T SALT			I .	1	
2ND SALT		·	1492	15/4-	
3RD SALT MAXON	·		1564		
KEENER			1736	1760	
			1790	1820	
INJ 4N			1900	2120	
Squaw			2128	2136	
WEIR			23/6	2344	
DELCH STRAY			2380	2430	
BEREA		0	2496	2501	
50		>	2690	27//	
30			2760'	2784-1	
GORDON STRAY		c	2820 3	2858	Gas
GORDON		-	2916	2930	GAS
5+LSAND		=	3012	3028	
				103118	

(Attach separate sheets to complete as necessary)

Regulation 2.02(i) provides as follows: NOTE:

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

FORM WW-2B

47-095-072/DD Dssued 4/27/89 Expusis 4/27/91 Page__of__

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

		MELL MO	RK PERMIT	<u>APPLICATIO</u>	N	•
1) Well Ope	erator:_	Sancho Oil	And Gas Con	rporation	44005, 1	470
2) Operator	's Well	Number:I	E.O. McCullo	ough R-159	3) E	levation: <u>1001</u>
4) Well typ	oe: (a)	0il <u>x</u> /	or Ga	s_x/		
	(b)	If Gas:			round Stora	
				P/	Shallo	ow_x_/
5) Proposed	1 Target	Formation	(s): Che	emung Group o	Ohio Shale	
6) Proposed	Total D	epth: 52	200	feet		
7) Approxim	mate fres	h water s	trata dep	ths: 100		
8) Approxim	mate salt	water de	pths:	1200		5-41
9) Approxim	mate coal	seam dep	ths:	none		
10) Does lar	nd contai	n coal se	ams tribu	tary to act	ive mine?	Yes/ No <u>x</u> _/
11) Proposed	l Well Wo				•	
12)		dee	epen existir	ng well		
		CASIN	G AND TUB	ING PROGRAM		
TYPE	<u>s</u>	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
4/25/89	Size	Grade	Weight per ft.	For drilling	Left in well,	Fill-up
Conductor	5120	New	per re.	Hom Wel	ll Record ?	(cu. ft.)
Fresh Water	11-3/1	27.95	3225#	2501	250 4	Man Ska
Coal		0000		1 ax	10	
	4 1/2"	J 55	10.5	3118'	3118.4	06001.07
<u>Intermediate</u>	2 7/8"	J 55			Ur -	@600' GL
Production	2 7/6	3 33	6.4	5200	5200 '	38CSR18-11.1
Tubing						
Liners	_	<u> </u>		<u> </u>	1	SCEIWEI
	es					ADD 2.7 1000
Dep	ths set					THE REPORT OF TH
50	F	or Divisor	n of Oil a	and Cas Use	in the state of	THE ON OF OIL & GAS ARTMENT OF ENERGY
Fee(s)	aid: Ly	Well We	ork Permit	THE STATE OF	lamation Fun	nd WPCP
711.plat (12	WW-9	WW.	28 (1 10	Rond Des		CHI Doort

Page 1 of ____ Form WW2-A (09/87) File Copy



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY 3)

Date	e:A	pril	17,	1989		
Oper	ator	's we	211	number		
	Cullou					
API	Well	No:	47	- 095	_	0721 -DD
		Sta	ate	- County		Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Paul McCullough	Name <u>none</u>
	Address Route 1 Box 100	Address
	Middlebourne, W.Va. 26170	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name
	(c) Name	Address
	(c) NameAddress	Namo
		NameAddress
6)	Inspector Glen P. Robinson	(c) Coal Lessee with Declaration
	Address Rt 1, #6 Mt Pleasant Est	Name
	Mineral Wells, W.Va. 26150	Address
	Telephone (304)- <u>489-9162</u>	
	TO THE PERSON(S) NAMED ABO	OVE TAKE NOTICE THAT:
	Included in the large and	
contr	Included is the lease or leases or	other continuing contract or
COHEL	acts by which I hold the right to	extract oil and gas <u>OR</u>
Socti	Included is the information require	ed by Chapter 22B, Article 1,
secti	on 8(d) of the Code of West Virgin	ia (see page 2)
T ha	certify that as required under C	hapter 22B of the West Virginia Code
1 nav	e served Cobies or this notice and	application a location mlat and
accom	panying documents pages I through	5 on the above named parties by:
	Personal Service (Affidavit at	ttached)
	Certified Mail (Postmarked pos	stal receipt attached)
	Publication (Notice of Publication	ation attached)
	T bear 2003	
- 1-	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
to th	e terms and conditions of any perm	it issued under thic appliantion
	I CELLILY UNGER DENAITS OF JAW that	t I have percenally examined
ramit	rar with the information submitted	On this application form and all
actat	illelits, and that based on my indiii	rv of those individuals immediateles
respo	nainle for opidining the intormatio	on, I believe that the information
13 (1	de, accurate, and complete.	
	I am aware that there are significa	ant penalties for submitting false
infor	macion, including the possibility (Of fine and imprisonment
	<pre>. Well Operator _</pre>	Sancho Oil And Gas Corn
	by. Loren Bag	Ley V/ NOUNTY Sunt
	Its: President	
	Addressp. <u>O. Box</u>	179, St. Marys, West Virginia 26170
Subsc	Telephone (304) ribed and sworn before me this 17 th	
	/ / Defore the this 1/th	1 day of <u>April</u> , 1989
	& Kurel, house	Motary Public
му со	mmission expires February 11, 1997	



JUL 20 1979

STATE

OIL & GAS DIVISION DEPARTMENT OF MINES DEFT. OF MINES

Oil and Gas Div AND GAS WELL PERMIT

TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE 7-6-79	d:
Surface Owner E.O. McCullough	Company C.W. Riggs	Inc
Address Bearsville W. Va.		the polymer of the control of the co
Mineral Owner E.O. McCullough		h Acres 97½
Addres Bearsville, W. Va.	Location (waters) Davis I	tun - 1994 yang samunan
Coal Owner E.O. McCullough	Well No. R-159	Elevation 1001
Address Bearsville, W. Va.		County Tyler
Coal Operator None		
Address	-	2編章
THIS PERMIT MUST BE POSTED AT THE WELL SITE		t some transfer of the source
provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved	INSPECTOR	
for <u>drilling</u> . This permit shall expire if	TO BE NOTIFIED Phillip 7	Pracy
operations have not comminged by 3-23-80	ADDRESS Middlebou	rne W. Va.
Hotel & S	PHONE 758-4573	
Deputy Director - Oil & Gas Division		. S ee
The undersigned well operator is entitled to drill upon	the above named farm or tract of land	for all and one having for
itle thereto, (or as the case may be) under grant or lea	se dated June 6	79
McCullough made to Loren Bagley	and recorded on the 22	nd dan e June
979, in Tyler County, Book 219	Page 431	the state of the s
X NEW WELD DRILL DEEPER		
OIL AND GAS WELL ORIGINALLY DRIL	IFD REFORE HIME I 1000	CIURE OR STIMULATE
The enclosed plat was prepared by a registered engine nave been notified as of the above date.	er or licensed land surveyor and all co	al owners and/or operators
		3.4
The above named coal owners and/or operator are here o make by Section 3 of the Code, must be received by,	or filed with the Department of Mines	vithin ten (10) days.
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address _ ame day with the mailing or delivery of this copy to the	day `	hatore or on the
6 6 	ϵ	er . A tr. Ritorii
PLEASE SUBMIT COPIES OF ALL	Very truly yours,	# 150 (# 150
SEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) C. W. 18, 995	
TEST_VIRGINIA_GEOLOGICAL AND	Well Operato	
HANNELLE SHRXWY (A)	dress Street	
	OperatorSt_Marks W. 1	#a ·
C-304 - 292-6331	Dry or Town	Ya.
	W.Va.	
	State	

*SECTION 3.... It indisappections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

. 18

47-095-0721

PERMIT NUMBER 4

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	X DRILL	DEEDEN	\$ 100 A 677 - 100	
DRILLING CONTRACTOR: (If	Known)		4 14	
NAME Little Swiss Drilling			RESPONSIBLE AGENT	
ADDRESS Buchannon W.		The second secon		
TELEPHONE 472-6396		TELEPHONE 684	ADDRESS St.Marys, W.Va. TELEPHONE 684-3974	
ESTIMATED DEPTH OF COMPL	ETED WELL 3100	ROTARY X		
PROPOSED GEOLOGICAL FORM	MATION Upper Devo	nian		
TYPE OF WELL: OIL_	GAS	COMB X STORA	CF Plupos	
	RECYC	CLING WATER F	DISPOSAL	
		WAILI	LOOD OTHER	
TENTATIVE CASING PROGRAM	l:	•		
CASING AND TUBING	USID FOR	LIETIN	CIMINTARIA	
SIZI.	DRILLING	Will	OR SACKS CUBIC (1	
3 - 10	mandamanan o an			
) - 5/8	THE PROPERTY OF THE PARTY OF TH	morphole in the contract of th		
			•	
		250'	Cement Top-Botton	
	4	The second secon		
		3100'	200 sks.	
			Pert. Top	
insts		water a construction of the construction of th	Perf. Bottom	
	estendo esperado en esta de es	AND THE REAL PROPERTY OF THE P	Pert Plop	
	kan kan mengan bermulan di sebagai	to make a some of the second or select some of the second some of the second sole to the	Pert. Bottom	
PPROXIMATE FRESH WATER [The state of the s	Andrew Commenced and Commenced	the state of the s	
SUBMIT FIVE (5) COPIES O	F OG 1, \$100.00 PERM	AIT FEE, PERFORMANCE	BOND AND PERMANENT COPY	
DRILL DEEPER OR REDRILL	in the second se			
WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	1 1929, A PERMANENT (HNAL PERMIT NUMBER A COPY OF THE PLAT AND	ND PERFORMANCE BOND ON THE ORIGINAL WELL RECORD	
FRACTURE STIMULATE				
	CINALLY			
BOND, PERMANENT PLAT A	ND OPICINAL WELL BEFO	ORE JUNE 5, 1929, FIVE (5)	COPIES OG 1, PERFORMANCE	
ING ORIGINAL PERMIT NUME	BER AND PERFORMANCE	ND/OR AFTER JUNE 5, 19:	29. FIVE COPIES OG - 1, SHOW	
	The state of the s	BOND.		
four (24) hours in advance.	vithin ninety (90) days of	completion for bond release.	Inspector to be notified twenty-	
The following waiver must be reof.	completed by the coal op-	erator if the permit is to be	issued within ion days of receipt	
this lease have examined	101	And Gara		
this lease have examined	and place on our mine m	aps this proposed well locat	or Apprator of the coal under	
We the	Coal Commen	hatta min abitant	ell being drilled at this location,	
providing operator has com	iplied with all rules and ram	unive no objections to said w	ell Being drilled at this location. 7. Chapter 22 of the West Virginia	
Code.	P	and an entire 4, D, and	. Chapter 22 of the West Virginia	
And the second second				
			3 	
		lie	r Coal Company	

Official Title