



3-3 gea (366)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

DATE: October 19, 2010 API #: 47-095-00699

## Well Operator's Report of Well Work

Farm name: Carl W. Nolan					Operator Well No.: One (1)				
LOCATION: Elevation	n:	891 A.S.L.			Quad	rangle:		Middlebourne	-
District:	Centerv	ille			Count	ty: <u>Tyl</u>	er		
Latitude:	600		39	Deg.	27	Min.	30	Sec.	
	14600	Feet West of			52		30	<del></del>	
Company: Sancho O	il & Gas			Casing Tubing		Used in drilling		Left in well	Cement fill up Cu. Ft.
Address: Box 179					2				up can a u
St. Marys	. WV 26	170		4 1/2	/	2919		2919	<del>                                     </del>
Agent: Loren E.	Bagley								
Inspector: Mike Unde	rwood			2 7/8				4979	115 sacks
Date Permit Issued: J	uly 12, 20	002							
Date Well Work Com	menced:	July 13, 2002						<del></del>	1
Date Well Work Com								D=-	
Verbal Plugging:								Office of C	VED
Date Permission gran	ted on:							Office of C	1180
Rotary XX Ca		Rig						_	- Gas
Total Depth (feet): 5	054						······································	UEC 06	inio
Fresh Water Depth (	ft.): 25 ft								
	_					_	V	N Denow	
Salt Water Depth (ft	.): NA					EI	Vir	N Departr	ent of
								ou <del>weurar</del> A naba-tr	Totactio-
Is coal being mined in	area (N/	Y)? No							
Coal Depths (ft.):	NA						-		
OPEN FLOW DAT	A								
Producing form	nation	Keener Sands	tone	Pay 7	one de	enth (ft) 1	862	-1868	
Gas: Initial ope	en flow	show_MCF/d	Oil:	Initial c	men fl	low 0	F	Shi/d	
Final open	low	0 MCF/d	Fir	al onen	flow	<u> </u>	Rh	1/A	
Time of one	n flow h	etween initial	and f	inal test	·c	48 1	-Dour	•	
Static rock Pre	ssure 1	50 psia (si	irfac	e nrecci	re) afi	ter 72	Ho	J Tre	
		<u>50</u> psig (30	m rac	o presse	no) an		_1100	112	
Second produc	ing form	ation		Pay 20	ne der	oth (ft)			
Gas: Initial ope			Oil	Initial o	nen fl	UM. (157	R	3/4	
		MCF/d				·			
		etween initial					Hour		
Static rock Pre							Hou		
		po.g (out	1400	pressur	v) uiu	<sup>1</sup>	LIOUI	.5	
NOTE: ON BACK	OF THIS	FORM PUT TH	E FC	LLOWI	NG: 1)	. DETAIL	S OF	PERFORATEI	
INTERVALS, FRA	CTURIN	G OR STIMULA	TIN	G, PHYS	SICAL	CHANGE	, ET	C. 2). THE WEI	LL
LOG, WHICH IS A	SYSTE	MATIC DETAIL	LED	GEOLO	GICA	L RECOR	D O	F ALL FORMA	TIONS,
INCLUDING COAL	L ENCOU	INTERED BY T	HE Y	WELLBO	ORE.				•
	79			[2 _	as	1 *			
Signed:	_///	oun (,		ررد	_/				
		en E. Baglev				<del></del>			•
L	rate: Oc	tober 19, 2010							

12/10/2010

STAGE PERFORATIONS: 1ST

Keener 1862-1968 48 holes 168 sks 20/40, 50 sks 80/100 310 bbls

FORMATION	TOP	BOTTOM COMMENTS
Dialina	1776	1846
Big Lime	1770	1040
Keener Sandstone	1852	1888 gas
Big Injun Sandstone	1890	1992
Weir Sandstone	2172	2280
Berea Sandstone	2356	2360
Gordon Sandstone	2786	2796
Warren Sandstone	3296	3340 gas
Riley Sandstone	4448	4482 gas
Benson Sandstone	4848	4852 gas
TD		5054

#### DATE: December 31, 2001 API #: 47-095-00699

# State of West Virginia Department of Environmental Protection Office of Oil and Gas

### Well Operator's Report of Well Work

Farm name: Carl W. Nolan	O <sub>1</sub>	perator Well No.:	One (1)			
LOCATION: Elevation: 891 A.S.L.	Qı	Quadrangle: Middlebourne				
District: Centerville	Co	ounty: <u>Tyler</u>				
Latitude: 600 Feet South of 39			0 Sec.			
Longitude 14600 Feet West of 80			Sec.			
Company: Sancho Oil & Gas						
Company. Sanctio on a Gas	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
Address: Box 179						
St. Marys. WV 26170	4 1/2	2919	2919	<u> </u>		
Agent: Loren E. Bagley	<u> </u>					
Inspector: Mike Underwood	2 7/8		4979	115 sacks		
Date Permit Issued:	ļ					
Date Well Work Commenced: December 9, 2000	<u> </u>					
Date Well Work Completed: January 18, 2001	<del> </del>		80.005740	- 20		
Verbal Plugging:	<del> </del>		0112			
Date Permission granted on:	<u> </u>		Permi			
Rotary Cable Rig	<del> </del>		H JAM	12002		
Total Depth (feet):			J. J. Gard			
Fresh Water Depth (ft.):			H WAY DOOR	The state of		
			EIMIGIANA	2tection		
Salt Water Depth (ft.):	<del> </del>		The second secon			
Y III NAME OF THE OWNER OW	<del> </del>					
Is coal being mined in area (N/Y)? No Coal Depths (ft.): NA	<del> </del>			<del> </del>		
OPEN FLOW DATA						
Producing formation Benson Sandstone	ePay zon	e depth (ft)_484	8-4852			
Gas: Initial open flow show MCF/d Oil	: Initial ope	n flow0	_Bbl/d			
Final open flow 100 MCF/d	Final open f	flow0	Bbl/d			
Time of open flow between initial and						
Static rock Pressure 300 psig (surface	ce pressure	after <u>72</u> H	ours			
G. J. J. Jane Commercian	Dani	zone depth (ft)				
Second producing formation  Gas: Initial open flow MCF/d Oil			Bbl/d			
A			_Bbl/d			
Final open flow MCF/d Time of open flow between initial and		Ho	<del>-</del>			
Static rock Pressure psig (surfa-			ours			
Static fock Pressurepsig (surfa-	ce pressure	) anteiii	Ours			
NOTE: ON BACK OF THIS FORM PUT THE F INTERVALS, FRACTURING OR STIMULATIN LOG, WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE	NG, PHYSIO D GEOLOG	CAL CHANGE, I FICAL RECORD	ETC. 2). THE WI	ELL		
Signed: Soren . S	7	7		100 domaine		
By Loren E. Bagley				3 <b>B</b> 0		
Date: December 31, 2001						
	/					

NO1AN 690

STAGE PERFORATIONS:

1ST

Benson 4848-4852 20 holes

Nitrogen Assist with 300 Sks 20/40

**STAGE PERFORATIONS:** 

**STAGE PERFORATIONS:** 

FORMATION	TOP	BOTTOM COMMENTS
Big Lime	1776	1846
Keener Sandstone	1852	1888
Big Injun Sandstone	1890	1992
Weir Sandstone	2172	2280
Berea Sandstone	2356	2360
Gordon Sandstone	2786	2796
Warren Sandstone	3296	3340 gas
Riley Sandstone	4448	4482 gas
Benson Sandstone	4848	4852 gas
TD		5054

Well No. 1- H-765 WELL OPERATOR'S REPORT f 08-78. OF \$2 API WE DRILLING, FRACTURING AND/OR STIMULATING, OR FHYSICAL CHANGE API Wel No. 17 - 095 -069 State County Per ELL TYPE: 011 / Gas X / Liquid Injection / Waste Disposal / (If "Gas", Production X / Underground storage / Deep / Shallow X /) CATION: Elevation: 891' Watershed: Branch of Sancho Creek District: Centerville County: Tyler Queirangle: Middlebourne Carl W. Nolan #1-H-765 LL OPERATOR Glenn L. Haught & Sons DESIGNATED AGENT Warren R. Haught Address Smithville, WV 26178 Address \_\_\_\_ Smithville, WY 28178 RMITTED WORK: Drill X/ Convert / Drill deeper / Fedrill Plug off old formation / Perforate new formation FEB 20 1980 Other physical change in well (specify) OH. & GAS DIVISION OIL & GAS INSPECTOR FOR THIS WORLE MINES ERMIT ISSUED ON June 19 , 19 79 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name Phil Tracey Address R.R. #1, Mineral Wells, WV , 19\_\_\_ 758-4573 EOLOGICAL TARGET FORMATION: Gordan Sands Depth 2785 to 2805 feet Depth of completed well, 2955 feet Rotary X / Cable Tools Water strata depth: Fresh, 912 feet; salt, feet. Is coal being mined in the area? No Coal seam depths: None Work was commenced June 21 , 19 79 , and completed June 30 ASING AND TUBING PROGRAM ASING OR JEING TYPE SPECIFICATIONS FOOTAGE INTERVALS TIES THEFTS Used For drilling Left in well inductor mesh water | 8 5/8 K-55 Χ 970' 970' 200 sacks [8] ntermediate neduction 4½ J**-**55 10.5# Χ 2897! 340 sacks -: ing iners 2607 2798 BEN FLOW DATA Producing formation Gordan Sands. \_\_\_\_\_ Fay note done. 2785 to 2805 Gas: Initial open flow, (200 Mcs/d) Final open flow, Final open flow, \_\_\_\_\_Bbl/d Time of open flow between initial and final tests, 8 four Static rock pressure, 800 psig (surface neasurement) after 12 bound shut in Is applicable due to multiple completion -- ] Second producing formation Pay cone dutor | Dil: Initian open fire religion \_\_\_\_\_ Sfi to Cas: Unitial open flow, \_\_\_\_\_\_ Mos/d Final open flow; \_\_\_\_\_ Mof/d -Pinal open flow, Time of them flow perween initial and final terms, product Friskyn rekenigerer per journe.

DEPARTMENT OF MINES, OIL AND GAS DIVISION

PORM'IV-35

(Obverse)

February 18, 1980.

Operator's

\* AGL BE 1

Hydrafraced by Halliburton 7-26-79 -- 1000 Gal. Acid -- 1110 Bbls. Water 100,000 Lbs. 20/40 Mesh Sand. -- 10,000 Lbs. 80/100 Mesh Sand.

Perforations 10--2607--2798

LL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and p
Red Rock	was an annual state of the stat	Soft	46	53	
Sand		Hard	53	61	
Shale		Hard	61	78	
Red Rock		Soft	78	81	
Sand		Hard	81	94	
Sand		Hard	94	109	tara da
Shale		Soft	109	140	
Red Rock		Soft	140	155	
	-	1 to the second		5	
Shale		Soft	155	170	
Sand		Hard	170	203	
Shale		Soft	203	240	
Red Rock		Soft	240	270	
Shale		Soft	270	410	
Sand	Section 1		410	425	
Shale			425	572	
Sand		Hard	572	671	
Shale		Soft	611	638	
Sand		Hard	638	658	
Red Rock	*	Soft	658	664	
Shale		Hard	664	680	
Sand		Hard	680	694	
Shale		Soft	694	840	
Red Rock		Soft	840	850	
Shale		Soft	850	955	Water 6 010 0/5
Red Rock		Soft	955	975	Water @ 912-945
Shale		Soft		1	
Sand		301 0	975	980	
Red Rock			980	1015	•
			1015	1025	
Shale			1025	1240	
Sand			1240	1280	
Shale			1280	1340	
Sand			1340	1355	
Shale			1355	1393	
Sand		Hard	1393	1420	Water @ 1409
Shale		Soft	1420	1450	
Sand		Soft	1450	1485	
Shale		Hard	1485	1501	
Sand		Hard	1501	1547	
Shale		Soft	1547	1583	
Sand		Hard	1583	1596	Hatan & 150/
Shale		Soft	1596	1608	Water @ 1584
Sand		Soft		•	
Shale			1608	1639	
Sand .		Soft	1639	1662	·
		Soft	1662	1680	
Shale		Med.	1680	1703	
Sand		Soft	1703	1715	
L. Lime		Hard	1715	1790	
B. Lime		Hard	1790	1842	Gas (small amount) @ 1802
I. Sand		Hard	1842	1928	
Sandy & Shale	•	Med.	1928	2024	2955
Shale		Soft	2024	2180	The d
Sand		Hard	2180	2280	2955 1928 1027 6t. exploratory
Shale		Soft	2280	2495	1 -1777 Kt.
Sand B1			2495	2510	
Shale			2510	2600	Qualoratory
Sand			2600	2610	240-
Shale			2610	2785	
		1			
Sand Gordon		į.	2785	2805	

CTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well tap' shall rean a systematic, distabled peclopial record of all furrations, including anal, encountered in the drifting of a wait."

GLENN L HAUGHT & SONS

Wanen A. Day

Its partner

FORM IV-2 (Obverse)

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

Date:	June 15 ,	19_
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[08-78] OIL AND GAS WELL PERMIT APPLICATION

Opera	tor's	3
Well	No.	# 1-H-765
		77

				47 _ 095 _ 069
WELL TYPE: O11/ Gas				State County Perm
	ction <u>X</u> / Undergr			
LOCATION: Elevation: 8	91' Watershe	d: Branch of	Sancho Creek	
District: Cent	erville County:	<u>Tyler</u>	Quadrangle: Middl	ebourne
WELL OPERATOR Glenn L.	Haught & Sons	DESIGNATED	AGENT <u>Warren R.</u>	Hanght
Address Smithvill			s Smithvill	_
			- Dintolly 111	C, WV 20170
				- :
OIL & GAS ROYALTY OWNER <u>Carl Norl</u>	an	COAL OPERAT	OR <u>None</u>	
Address R.R.		Addres	5	
Alma, WV	26320			
Acreage 236		COAL OWNER(	S) WITH DECLARATION	ON RECORD:
SURFACE OWNER _ Carl Now1	an	Name		
Address R. R.			s	
Alma, WV	26320			
Acreage 236		Name		:
FIELD SALE (IF MADE) TO:			s	•
Name				
Address		COAL LESSEE	WITH DECLARATION ON	RECORD:
		Name <u>No</u>	one i khirkarsa	
OIL & GAS INSPECTOR TO BE NO	TIF1ED	Addres	s Julia	auto propi
Name Phil Tracey				
Address R.R.# 1. Mi			JUN 1	8 1979
758-45	73			
· .				AS DIVISION
•	ll operator is entitl	•		
location under a deed/			dated <u>December 2</u>	3, 19 <u>77</u> , to the
undersigned well operator fr				·
[If said deed, lease, or oth			*	
Recorded on <u>Feb. 23</u> ,			_	•
County, West Virginia, in				-
PROPOSED WORK: Drill_X				e/
Plug of	f old formation/	Perforate new	formation/	
Other p	hysical change in wel	l (specify)		
	- d			
· ·	ed as shown on the wo			
	al operator, coal own		•	•
objection they wish to make				
of Mines within fifteen (15)			-	
	mit Application and t			
by registered mail or delive		4		
on or before the day of the Charleston, West Virginia.	mailing or delivery o	or this Permit App	ilication to the Depa	rtment of Mines at
	<b>-</b>			
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO	:			
WEST VIRGINIA OIL AND GAS		GI.ENN I	HAUGHT & SONS Well Operator	ı
CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST		•-		
CHARLESTON, WV 25311	BLANKET B	OND <sub>by</sub> Was	non R Dham	of the
TELEPHONE: (304) 348-3092				

Its <u>Partner</u>

#### PROPOSED WORK ORDER

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

DRILLING	CONTRACTO	R (IF	KNOWN)	G	lenr	L. Haught	& Sons		
				Addre	ss _S	mithville,	WV 26178		
GEOLOGICA	L TARGET	FORMAT	ION,	Gor	don	Sand			
								— Rotary X /	Cable tools/
							eet; salt,		
Appro	oximate c	oal se	am dept	hs: _	Nc	ne Is	coal being mi	ned in the area	e? Yes/ NoX
CASING AN	ם תוופדאת	PPOCPA	M					5	
CASING OR	•-		M IFICATI	nne		N ROOMAGE	THERMALO	Manuna need a	SU
TUBING TY	PE	1	Weight	1	licod	1	INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	<u> </u>
Conductor	ħ	uraue	per 16	MEM	usea	ror drilling	reit in Meli	(Cubic feet)	
Fresh wate		K-5	5 20	X		890 1	890'	175 Sacks	Kinds
Coal			~~	1 **	<u> </u>	<u> </u>	","	177 Bucks	
Intermedia	ate		·						Sizes
Production		J-5	5 10.	5 X			3000'	100 Sacks	Depths set
Tubing	1 72 -								Depons sec
Liners								·	Perforations:
									Top Botton.
	·								
apprint the 200 when i of the officers of the following th	plicable reviously reconsent of feet of Are fractuals between the W. V	to the paid of require the prosper of separating of separa	reclamenthe sized by Cooposed atternational stimular stim	ation ame w Code ( well n IV- ilatin dance ation is This po	requiett, 222-422 shat ag is with the sharehermit sl	ired by Code the fee requi 4-8a from the 11 not be requi to be part o five ignificant Chapter 22, by approved hall expire if	§ 22-4-12b an red by Code § owner of any wired for frac	water well or cturing or stimer which a permi	3, (iv) unless (v) if amplicable, dwelling within
	- The	<u></u>	///						
well locate the work	or coal is to be  The unde has exami tion, the proposed	owing lessee issue rsigne ned th well to be	waiver who ha d withi d coal is prop locatio done at	must s rec n fif opera osed n has this	tor_well	a declaration (15) days of  WAIVE  owner location. If added to the lation, provide	n under Code receipt there  R  lesse a mine map e mine map. I d, the well o	e/ of the xists which cou	coal owner the permit  coal under this well vers the area of the has no objection to uplied with all
}			······································						
Dat <b>e:</b>			, 19						