

- ASSA			DEF	ARTMI	ST'AT O TNE	TE OF	WEST VIF	GINIA ND GAS DIVIS		e <u>bruary 24</u> , 19 <u>8</u> s
PORM IV-									Well No.	Kreen #2
[08-78]				,	WELI	L OPI	ERATOR'S F OF	REPORT 31	API Wel	No. $\frac{47}{9000000000000000000000000000000000000$
		DRILL	ING, FRA	ACTUR	ING A	IID\Q	R STIMULA	ring, or fhys	IJAL CHANGE	State County Perm
11 TYPE: 01	1	/ Ga	s X/	' L:	iquid	Inje	ection	/ Waste D	isposal/	
									Deep/ S	Shallow/)
						-				
									uadrangle: <u>Va</u>	
										-
ILL OPERATOR-	- Cars	on Pe	troleum	Cor	porat	ion				well M. Johnson
Address _	PO	Box 1.	3 3							33
	Sand	Fork	, WV 2	6430					Sand Fork	, WV 26430
						(D.	-411 door	m / Pod	-1" / Pra/	ture or stimulate
RMITTED WORK										cture or stimulate
•								te new format		• •
	Oth	er phi	ysical o	chang	e in	well	(specify)		
ERMIT ISSUED	ON		Janua	ary 2	Q 19_	81	~	OIL & GAS INS	PECTOR FOR THIS	WORK:
	r. DI	HOOTNO	OF DRY	HOLE	E ON			Name	Steve Casey	
CONTINUO REWORKIN	IIS PRO	GRESSI	ON FROM	DRIL	LING	OR D		Address	Jane Lew, WV	
			19						884-7470	
TOLOCICAL TA	RGFT F	ORMATI	ON:			Е	1k			85 Seet
SOUTORICKE IN	compl	eted w	ell.	54	196	ſee	et Rot	ary X /	Cable Tools	
					•			ſeet.		
									the area? No	
										1, 1981
Work was	comme	nceu _	0 4114	<u> </u>						
ASING AND TU	BING F	ROGRAI	4				*			
ASING OR		SPEC	IFICATIO	SNC			FOOTAGE	INTERVALS	CEMENT FILL-UF OR SACKS	PACKERS
UBING TYPE	Size	Grade	Weight per ft	New	Used	For	drilling	Left in well	(Cubic feet)	
anductor		`								Kinds
resh water	8 5/8						1207'	1207'	To surface	
cal	ı									Sizes
ntermediate	1	-								
roduction	1							5456'	420 sks	Depths set
ubing										
										Perforations:
iners							1 1 9	,		Top Battom
							F E	6 27 1981		
			1	1	٠,	н	O:L	G CAS HIMSE	The second secon	327 MCF
PEN FLOW DAT	'A									
Producir										h 4980 feet
Gas	: Ini	tial o	open flo	ow, _			Mcf/d	Oil: Initia	l open flow,	<u>0</u>
	Fir								open flow,	
									sts, hour	
St:	ntic re	ock pr	essure,			psig	(surface	measurement)	after ho	urs shut in
[If app	licable	e due	to mult	iple	compl	etio	n]	÷	San Marana (1955) (Fig. 1964) Tanana	
Second 1	produc:	ing fo	rmation		Æ	1k	Alex		Pay zone dept	n52 <u>47-5385</u> seet
Ga:			open fl				Mcf/d	Oil: Initia	l open flow,	0 Bb1/d
•			en flow	_		000	Mc ſ/d	Final	open flow,	<u>0</u>

Time of open flow between initial and final tests, 10 hours Static rock pressure, 1525 psig (surface measurement) after 30 hours shut in

MAR 23 1981

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

Fractured February 18, 1981

Elk - 20,000 lb. 80/100 sand 40,000 lb. 20/40 sand 1600 lb. breakdown 490 bbls. water 18.1 BPM at 1800 lb. Benson - 20,000 lb. 80/100 sand 40,000 lb. 20/40 sand -1400 lb. breakdown 464 bbls. water 17.1 BPM at 1700 lb.

Perforations - 5385 - 5247, 8 holes

Perforations - 4978 - 4980, 5 holes

ELL LOG

	1	1	T	T	
FORMATION	Color	Hard or Soft	3/ Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
•		-	A-By Control of the C	* 44	
Sand, Shale, Red Roc	k		0	1504	
Sand	T		1504	1570~	
Sahle			1570	1654	
Sand			1654	1694	
Shale			1694	(
Sand	-			1867	
Shale			1867	1932	
Gray Shale	ļ		1932	1970	·
Little Lime			1970	2070	• • • • • • • • • • • • • • • • • • • •
			~ 2070	2084	
Pencil Cave			2084	2100	
Blue Monday			2100	2130	
Big Lime			- 2130	2186	
Big Injun			2186	2277	
Gray Shale	,		2277	2320	
Weir Sand			2320	2447	
Gray Shale	-		2447	2527	
Gantz			2527	2740	
Gray Shale	I		2740	4520	• • • • • • • • • • • • • • • • • • • •
Bradford Sand	and the same of th		4520	4564	
Gray Shale			4564	4975	
Benson Sand	· · ·		-4975	4986	
Gray Shale		- Ithropological	4986	5245	
Lik Sand			5245	5391	
Total Depth			5496		
				المحادث والمتلسب	and the second of the second o
			, gamaga		
			proma		
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	Contrastivo				
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(Attach separate sheets to complete as necessary)

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Carson Petroleum Corporation

Well Operator

By Agent

Its Agent

NOTE: Regulation 2.02(i) provides as follows:

"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."



nd the well operator authorized to proceed.

have read and understand the reclamation requirements as set forth in hapter 22. Article 5. Section 12-b and will carry out the specified requirements."



STATE OF WEST VIRGINIA

Kreen #2

DEPARTMENT OF MINES

DEGELVED)

Oil and Gas Division

ON 6 GAS DIVISION DEPT. OF MALLY

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Cherieston, W. Va.	DATE January 15, 1981
Surface Owner Nevin Stagarwalt	Company Carson Petroleum Corporation
Address New Milton, WV	Address P O Box 133, Sand Fork, WV 26430
Mineral Owner Consolidated Gas Supply	Corp. Farm Kreen Acres 466
Clarksham WV	Location (waters) Sand Fork
1 O	
n'anal DA	District Cove County Doddrid
a and the second	Quadrangle Vadis
Coal Operator	Quadrange
Address AT THE WELL SITE	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
- the Chapter 22	
	I RATEAL LUB
drilling 0 22 01	TO BE NOTIFIED Steve Casey
operations have not commenced by	ADDRESS Jane Lew, WV
2 12 Day	Jane Ben, ny
Deputy Director - Oil & Gas Division	PHONE 884-7470
• •	
GENTLEMEN:	ill upon the above named farm or tract of land for oil and gas, having fe
Gas Supply Corp. made to Carson Petrol	eum Corporation and recorded on the day of
in NOT OF RECORD County, Book	
X NEW WELL DRILL DE	
OIL AND GAS WELL ORIGINALLY	PRILLED BEFORE JUNE 5, 1969.
The anchood plat was prepared by a registered	engineer or licensed land surveyor and all coal owners and/or operator
have been notified as of the above date.	
The above named coal owners and/or operator of make by Section 3 of the Code, must be received	are hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.
	mailed by registered mail, or delivered to the above named coal operator
and a second of their shows shown respective as	idress Delore, or on the
ame day with the mailing or delivery of this copy	to the Department of Mines at Charleston, West Virginia.
	Very truly yours, Carson Petroleum Corporation
TLEASE SUBMIT COPIES OF ALL	(Sign Name) Lowell m. While m
GEOPHYSICAL LOGS DIRECTLY TO:	Well Operator
	P O Box 133
FFICE OF OIL AND GAS	Address Street
615 Washington Street, East harleston, West Virginia	Well Operator Sand Fork
rea Code 304 -348-3092 348-3096	City or Town
وإنفاع والمفتتص السواهرة السائل أيتأهره والأنصاء توفييح ارمان المهيكي والدائد عياسات	West Virginia 26430
	State
त्या हिन्द्यकृत्रम् इंडिएनिक एक्क्षेत्रक्रम् सुर्वे इत्यार सुर्वे स्थापना स्थापना स्थापना स्थापना स्थापना स्थाप	
SECTION 3 If no objections are filed or for	ind by the Department of mines, within said period of ten days from the receipt
office and plat by the department of mines, to said propo-	sed location, the department shall forthwith issue to the well operator a permit recitively the coal-operators or found thereto by the department and that the same is approved.

47-017- 2958

PERMIT NUMBER

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

TO THE TO	X DRILL	DEEPEN	FRACTURE-STIMULATE
OSED WORK ORDER 10	V-o	RESPONSIBLE AGEN	T:
ING CONTRACTOR: (If Union Drilling	Inc	- NAME Lowell M.	Johnson :
Union Drilling	1 200 WV 26201	ADDRESS P O Box	133, Sand Fork, WV 26430
	hannon, WV 26201	TELEPHONE 462-70	
HONE <u>472-4610</u>	F700 *		
ATED DEPTH OF COMPI	LETED WELL:	ROTARY _A	_ CABLE TOOLS
	Devonian Sna	le	TO THE HOUSE WILL
OTT	GAS X C	OMB STORAC	GE DISPOSAL
Ur william.	RECYCL	ING WATER F	LOODOTHER
			and a second of the contract o
TIVE CASING PROGRA		en e	and the second s
SING AND TUBING	USED FOR	LIST IN	CEMENT FILL UP-
SIZE	DRILLING:	100 600	
	and the second s		
And the second s			
		10001	To surface
	1200'	1200'	10 Surrace
		· · · · · · · · · · · · · · · · · · ·	
		57001	750 sks
•		5700 °	Perl. Top
•			Perf. Bottom
			Perf., Top
The second secon			Perf. Bottom
ULL: : UBMIT FIVE (5) COPIES	OF OG - 1, \$100.00 PERM	IIT FEE, PERFORMANCE	BOND AND PERMANENT COP
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ILL DEEPER OR REDRI			
UBMIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIC	INAL PERMIT NUMBER	AND PERFORMANCE BOND. OF
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UST ALSO BE SUBMITT	ED. Same services interestable de la companya		and the second of the second o
ACTURE - STIMULATE:	कुर्यात्र मानुक्कृतिक सम्पूर्ण हैं भी कर हरे नहीं असे हैं।		PERFORMANC
IT AND OR GAS WELL	ORIGINALLY DRILLED BEFO	ORE JUNE 5, 1929, FIVE (5) COPIES CRISTILIFIED OF THE PROPERTY OF THE
OND BEDMANENT PLAT	T AND ORIGINAL WELL RE	CORD.	And the manufacture of the contract of the con
IL AND/OR GAS WELL	ORIGINALLY DRILLED ON A	AND/OR AFTER JUNE 5, 1	1929, FIVE COPIES OG - 1, SHOW
IG ORIGINAL PERMIT N	UMBER, AND PERFORMANC	E BOND.	
	ed within ninety (90) days of	completion for bond release	se. Inspector to be notified twent
our (24) hours in advance.	S. G. Land Control of the Control of		
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200 00 00 00 00 00 00 00 00 00 00 00 00	he completed by the coal o	perator if the permit is to	be issued within ten days of rece
ue tollowing mainer turner			
	ant for	Coal Company, Ow	ner or Operator of the coal un
R: I the undersigned, Ag	and plane on our mine	mans this proposed well lo	cation. 479 LANGE JETS
this lease have exami	med and mace on our muse		d well being drilled at this location
We the	Coal Company	y have no objections to said	
providing operator has			nd 7. Chapter 22 of the West Virgin
Code.	complied with all rules and re	egulations in Articles 4, 5, a	nd 7, Chapter 22 of the West Virgin
	complied with all rules and re	egulations in Articles 4, 5, a	nd 7, Chapter 22 of the West Virgin
Control of the Contro	s complied with all rules and re	egulations in Articles 4, 5, a	nd 7, Chapter 22 of the west
	s complied with all rules and re	egulations in Articles 4, 5, a	of 7, Chapter 22 of the West Virgin

Orficial Title