OIL AND GAS WELL SUMMARY REPORT

API No. 45-051-20200-00-03	VDMR Well Rep. No. <u>W-4851</u>
	Q File No. DI-121
Operator PHILADELPHIA OIL COMPANY	
Farm STEINMAN DEVELOPMENT CORPORATION	N
Co. Well No. P-39	
County DICKENSON Quadra	ingle HAYSI - 7-1/2'
Location (UTM) N 4,112,470; E 381,740	
(Lat. and Long.)	
Field	Province APPALACHIAN PLATEAUS
Elev. (specify) 1652.27' GR. TD 4640' INITIAL FLOW - 386,000 CU. FT.	Form. at TD DEVONIAN SHALE Age DEVONIAN
Date compl. or abandoned AUGUST 16, 1977	
ResultGAS WELL	
Gas Shows	
Gas Pays 3620'; 4482' to 4533'	
	Farm DIO LIME AND DEDER
Main ProductionProd	. FORM. BIG LIME AND BEREA
Main Production Prod	Age MISSISSIPPIAN
	Age MISSISSIPPIAN
Treatment: WELL FRACTURED IN THE BERFA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF 15,000 POUNDS OF J-266 GFL,
Treatment: <u>WELL FRACTURED IN THE BEREA FOR</u>	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF 15,000 POUNDS OF J-266 GFL,
Treatment: WELL FRACTURED IN THE BERFA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF . 15.000 POUNDS OF J-266 GFL, CID, FRACTURED BIG LIME WITH 25,0
Treatment: WELL FRACTURED IN THE BERFA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF . 15.000 POUNDS OF J-266 GFL, CID, FRACTURED BIG LIME WITH 25,0
Treatment: WELL FRACTURED IN THE BERFA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF . 15.000 POUNDS OF J-266 GFL, CID, FRACTURED BIG LIME WITH 25,0
Treatment: WELL FRACTURED IN THE BEREA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT Oil shows	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF 15,000 POUNDS OF J-266 GEL, CID, FRACTURED BIG LIME WITH 25,0 8% ACID; AND 600 POUNDS OF J-267.
Treatment: WELL FRACTURED IN THE BEREA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT Oil shows Water FW X at 30' at SW at at	Age MISSISSIPPIAN MATION WITH 15,000 POUNDS OF . 15,000 POUNDS OF J-266 GEL, CID, FRACTURED BIG LIME WITH 25,0 8% ACID; AND 600 POUNDS OF J-267. at at
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Treatment: WELL FRACTURED IN THE BERFA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT Oil shows Water FW X at 30' at SW at at at Coal 275' to 278'; 397' to 399'; 612' to 61	AgeMISSISSIPPIAN MATION WITH 15,000 POUNDS OF
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Treatment: WELL FRACTURED IN THE BEREA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT Oil shows Water FW X at 30' at SW at at Coal 275' to 278'; 397' to 399'; 612' to 61 1655' to 1657' Plat X Plotted X Completion Drillers Log X Geologic Log	AgeMISSISSIPPIAN MATION WITH 15,000 POUNDS OF
Treatment: WELL FRACTURED IN THE BEREA FOR 80/100 SAND, 65,000 POUNDS OF 20/40 SAND 30 GALLONS OF F-78, 500 GALLONS OF MUD A POUNDS OF 20/40 SAND, 2,000 GALLONS OF 2 Initial Production FINAL FLOW 0 492,000 CU. FT Oil shows Water FW X at 30' at SW at at Coal 275' to 278'; 397' to 399'; 612' to 61 1655' to 1657' Plat X Plotted X Completion Drillers Log X Geologic Log Samples X Interval Sheet X	AgeMISSISSIPPIAN MATION WITH 15,000 POUNDS OF
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	_Adm	Datum	B/1) 51 ABV	1
Formation	Top	(Subsea)	Thickness	
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COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219

NOTICE OF INTENTION TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL

(One copy of this report and three identical copies of a plat or map, on a scale not smaller than 400 feet to the inch, and showing information required by Section 45.1-114, Code of Virginia, 1950, 1954 and the 1966 Cumulative Supplement, must be submitted to the Division of Mines and Quarries, and copies sent by registered mail to all persons defined in above law, prior to obtaining a permit to drill.)

TO: Division of Mines and Quarries	Prestonsburg, Kentucky 416	553
Drawer V	Place	
Big Stone Gap, Virginia 24219	December 20	,19 74
	Date	
Sentlemen:		
The undersigned proposes to begin as soon as a and Quarries, to drill, restablished appears (sixibation) and Farm, comprising 1921.50 Dickenson County, Virginia, burner or lease dated June 15, 1973	acres, in the Sand Lick aving the fee title thereto, or as the case	District of may be, under
o Philadelphia Oil Company and record	, made by Steinman Development ded on the 7th day of December	
n the office of the County Clerk for said Coun		
The proposed location of the well, as shown on		
	nchco, Virginia	and
about 2.18 freet/mil	es) Northwest of Counts, Virgin	nia .
Example will or a manufactured by a manufactured	y., upon request. aller than 400 feet to the inch, showing the red in Section 45.1–114, Code of Virginian the details and notice of the plat and notice of the	ne proposed lo- a, 1950, 1954 of intention to
Cuttings will or with the furnished the Surve of plat or map, in triplicate, on a scale not small of the well and other information, required the 1966 Cumulative Supplement is attached in the 1966 Cumulative Supplement is attached will, redrill or deepen the aforementioned well ection 45.1-114, above cited, as follows (list additional space is required): Steinman Development Company, 21 (Coal Owner)	nember of the staff of the Virginia Geology, upon request. aller than 400 feet to the inch, showing the red in Section 45.1-114, Code of Virginia de hereto. Copies of the plat and notice of have been sent to all interested persons of names and mail address of each. Use bar	ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if
A plat or map, in triplicate, on a scale not smooth and the 1966 Cumulative Supplement is attached the 1966 Cumulative Supplement is attached rill, redrill or deepen the aforementioned well section 45.1-114, above cited, as follows (list additional space is required): Steinman Development Company, 21 (Coal Owner)	nember of the staff of the Virginia Geology, upon request. aller than 400 feet to the inch, showing the red in Section 45.1-114, Code of Virginia de hereto. Copies of the plat and notice of have been sent to all interested persons of names and mail address of each. Use bar	ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if
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A plat or map, in triplicate, on a scale not smotoation of the well and other information, required the 1966 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative Supplement is attached in the 1965 Cumulative Supplement in the 1965 Cumulative	nember of the staff of the Virginia Geology, upon request. aller than 400 feet to the inch, showing the red in Section 45.1-114, Code of Virginia de hereto. Copies of the plat and notice of have been sent to all interested persons of names and mail address of each. Use ball 8 Lambert Building, Norton, Value Very truly yours,	ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if
Cuttings will axwithout be furnished the Surve of plat or map, in triplicate, on a scale not smooth ation of the well and other information, required the 1966 Cumulative Supplement is attached rill, redrill or deepen the aforementioned well ection 45.1-114, above cited, as follows (list additional space is required): Steinman Development Company, 21 (Coal Owner)	nember of the staff of the Virginia Geolog y., upon request. aller than 400 feet to the inch, showing the red in Section 45.1-114, Code of Virginia ed hereto. Copies of the plat and notice of have been sent to all interested persons en names and mail address of each. Use back 18 Lambert Building, Norton, Va Very truly yours, PHILADELPHIA OIL COMPANY	ical Survey. ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if a. 24273,
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A plat or map, in triplicate, on a scale not smooth and the 1966 Cumulative Supplement is attached in the 1966 Cumulative Supplement in the 1966 Cumulative Supplement is attached in the 1966 Cumulative Supplement in the 1966 Cumulative Su	very truly yours, PHILADELPHIA OIL COMPANY Drilling Company or Cper Box 431 Street Address Prestonsburg, Kentucky 4165	ical Survey. ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if a. 24273,
A plat or map, in triplicate, on a scale not smototion of the well and other information, required the 1966 Cumulative Supplement is attached in the 1966 Cumulative Supplement is attached in the 1965 Cumulative Supplement is attached in the 1966 Cumulative Supplement in the 1966 Cumulative Supplement Company, 21 (Coal Owner) Steinman Development Company, 21 (Coal Owner) Edward O. Ray	v., upon request. aller than 400 feet to the inch, showing the red in Section 45.1-114, Code of Virginia de hereto. Copies of the plat and notice of have been sent to all interested persons to names and mail address of each. Use bath 18 Lambert Building, Norton, Value of Philadelphia OIL COMPANY Drilling Company or Cper Box 431 Street Address	ical Survey. ne proposed lo- a, 1950, 1954 of intention to as required by ck of sheet if a. 24273,
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COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219 PHONE 703-523-0335

APPLICATION FOR PERMIT TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL

(Required by Section 45.1-115, Code of Virginia	ia, 1950, 1954 and the 1966 Cumulative Supplement.
To be accompanied by Permit fee of twenty-five	e dollars and bond and surety therefor, as specified by
Section cited. To be submitted in duplicate, or	ne copy to be returned to applicant after action by
Division of Mines and Quarries.	
TO: Division of Mines and Quarries	Box 431
Drawer V	Prestonsburg, Kentucky 41653
Big Stone Gap, Virginia 24219	Place
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	December 20, 1974
	Date
Gentlemen:	
The undersigned hereby makes application for a	Permit to drill, xodridxxxxdscopenx(xtxikexoutxwa)ca
well for oil or gas on the Steinman Dev. CoFa	rm, comprising 1921.5 acres, in the Sand
Lick District of Dickenson Coun	ty, Virginia, having the fee title thereto, or as the
case may be, under grant or lease dated June	
	adelphia Oil Company
and recorded on the /th day of Dece	
Clerk for the said County in Book 161 pc	
The proposed location of the well is shown on a	location plat or map submitted to the Division of Mines
	Notice of Intention to Drill, Redrill or Deepen a Well
for Oil or Gas on the 20th day of December	
The proposed well will be known as Well No.P-	
(company, etc.) It is proposed to drill this well	The Property Control of the Pr
· ·	distant from the nearest property or lease line; about
	ning opening, xorxquaxyx(xtriloexout xxorxis notxopplicable)
and/or about 6625 feet distant from the neares	t dribling x abandoned, producing, a xapplied for strike
कल्लाकार कार्य कार्य के कार्य	edenekappitedate) well.
There is enclosed herewith a certified check or l	U.S. Postal Money Order, in the amount of twenty-five
(\$25.), payable to the Treasurer of Virginia, co	vering fee fro a Permit to Drill a Well for Cil or Gas,
as required by Section 45.1-115, Code of Virgin	nia, 1950, 1954 and the 1966 Cumulative Supplement.
Bond and Surety therefor to insure compliance wi	ith the provisions of Chapter 8, Title 45, Code of Vir-
ginia, 1950 and the 1966 Supplement, for this w	
with of (give status of) Blanket Bond cove	ring P-32 to P-55 inclusive.
Correspondence regarding this well should be add	dressed to Mr. Edward O. Ray, Box 431,
Prestonsburg, Kentucky 41653	
	Very truly yours,
Signature of white the weekney by party:	
Sharel Q. Ray	PHILADELPHIA OIL COMPANY
Xxlouriex	Drilling Company or Operator
Edward O. Ray	Box 431
XMMX	Street
	Prestonsburg
	City or Town
	Kentucky 41653
	State
Space below this line is	for the use of the Board only.
	I CF MINES AND QUARRIES
Received on /2 - 23 - ,197	on /- 7 - ,1975
Approved and Permit (no. 200) granted	011
Denied Page Sor denied	
Reasons for denial	DIVISION OF MINES AND QUARRIES
	11/11/1/11/11/11/11/11/11/11/11
	By all Male Sate Vel + Castina
	Title
File No. DI-121 Well No. P-	39 Permit No. 200

			1 A			
	be filled in by	Lening No. 14	COMMONWEALTH OF	VIRGINIA	(To be	filled in by
	sion of Mines)	DEPARTI	MENT OF LABOR	AND INDUSTRY	7111	n of Mines)
- OK	KENSON County		DIVISION OF		Well No	P-39
SANC	District District	20+77	BIG STONE GAP, VI	RGINIA	Permit No	200
_ HA	Map	OIL AND	DEEPENED GAS WELL COMP ABANDONME	LETION REPORT	Office No Location Plat	
DI	File	be submitte	port and a copy of electrical to the Division of Mine or completion of well,	s within 30 days after	Portagnoli	Saura
2000	THE STREET	45-113, Co	de of Virginia, 1950.)	as required by Section		
Company _	Philadelphia	Oil Company	A	ddress P. O. Box	313 ginia 24272	
County	Steinman Deve Dickenson Company) P-39		D	cres 1921.50 istrict Sand Lick levation (ground sur	Neg	ft.
11	(Give direction and nates shown on loc graphic map of area	ation plat or ma	or tenths of a mile p previously filed wit	from two (2) locat the Division of M	ion reference poin lines or shown or	nts or map coordi- n quadrangle topo-
4800	feet miles	South	of Lati	tude 37º 10' 0	0"	and
800		East	of Lone	itude 82º 20'	nou ale	
Surface of t	tract is owned in fee	Mark Control of the C	rlie Perry	20000	Luga	
Address _	0.0	Det	roit, Michigan	1016	de al briga la la	
Address _	thts are owned by	bert Building	inman Developmen , Norton, Virgin	ia 24273	La alora i	
Drilling con	mmenced October October	er 2, 1975	Drilli Addr	ng contractor _Unic	on Drilling Co West Virginia	ompany, Inc.
			st 16, 1977	4 - 12 (5) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Well aband	oned at	feet o	n	: Re	eason	
Well plugg Total depth	ed on 4640 (KB)	5704	, 19 Affida	wit filed line measurement _	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, 19 feet.
Commenced	d producing on _n	ot connected	to pipeline syst	em , 19	de a hima	
Oil Well Initial prod	luction, oil: 1st 24 h	nours	1795	bbls.: 2nd 24 hours	band	bbls.
			feet to		lbs.	
			feet to		qts. 1bs.	
			1 24 hours		qts.	bbls.
			bbls. per day a			
Gravity and	d grade of oil		2007 125 17.1	1111/128	AC DA DELL	
Oil pays a	t (1) (2)	feet to	feet. O	il shows at (1)	feet to	feet.
	(3)	feet to	feet.	(2) (3) (4)	feet to	feet.
Main produ	(4) uction at		feet. feet.	(4) <u>(</u> 5) <u>(</u>	feet to	feet.
			MCF Gaged	2.00	/10ths. Water in	inch,
Initial open	1 flow, gas: 386			10	/10ths. Mercury i	n inch.
			feet to	eet with	1bs	
After shot	on	from	feet to	feet with	lbs.	
1st 24 hour	's	-	cu ft., 2nd 2	24 hours	quo.	
Rock press	sure: Initial	725#	lbs.; after cu. ft per da	48 hours		lbs. days
	at (1)	feet to	feet. Gas	shows at (1)	feet to	feet.
	(2) 4482	feet to4	533 feet.	(2)	feet to	feet.
25.	(4)	feet to	feet.	(4)	feet to	feet.
Main produ	uction	feet to	feet.	(5)	feet to	feet.
Salt water	at (1) See log	feet; (2)	feet; (3) feet	feet ;	(4)	feet.
feet	inches;	from	feet inche	s, to feet	t inche	es.
vven acidiz	from	feet to	feet with	(quantity)	of ;	acid.
20/4	Well fracture 0 sand, 15,000	d in the Bere # J-266 gel,	feet with 24 formation with 30 gals F-78, 50 34 gallons of 28% Ac	15,000# of 80 0 gals. of Mud	/100 sand, 65 Acid. Fract	,000#
				11		
	CA	ASING AND TUBING			PACKERS	
Size	USED IN DRILLING	LEFT IN WELL	Perforated	Kind	Size	SET AT
(inch) 11 3/4	(feet)	(feet)	(feet) to (feet)	Frac-over	plug 4 1/2	4450'
8 5/8	1874	1874				
4 1/2	4638	4638	4482-4533 3607-3618 3660-3668			
2 3/8		4467				
					Liners	12
					Used in Left Drilling Wes	
				(inch)	(ft.) (ft.	

9 1874 feet to surface feet to surface Casing Cemented: .

Date -

Date October 7, 1975

LOG

Furnished by E. B. Jenkins Date 9-20-77

Compiled by Michael Wallen Date 9-16-77

Sample No.	Formation	Color	Hard or Soft	Top (feet)	Bottom (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
	Sand	.01.12	A Sales	0	35	35	30' 2" stream
	Sand & Shale			35 87	87	52 75	and and the same
	Sand & Shale	Ama ma		162	162 275	113	pacifold your
	Coal	ujotu ji noita e	13	275	2278	3	vergeno) con ils7
	Sand & Shale	(S) swa no	of nomice	278 284	284 340	56	o ations (Give dist
	Sand & Shale	the Divigion	blive balle sike	340	397	57	notes above
	Coal			397	399	2	
	Sand & Shale		1.34542	399 502	502	103	
	Shale		gund Lina	542	591	49	
	Sand Coal		100	591 612	612	21	
	Sand & Shale			614	634	20	
	Sand Shale		ARIELANDS.	634	699 718	65 19	Uneral cryins are ou
	Sand & Shale			718	747	29	
	Shale Sand	Amortina a	affact	747	809	62	destruction volities
	Sand & Shale		orbine.	809 842	842 852	33 10	la negalinism control
	Coal		There	852	855	mo 3	Vell dompleted as
	Sand & Shale			855 879	879 947	24 68	Contract Section 1. 11
	Sand & Shale	dit filed Line	shift to the control of	947	1000	53	Las Mario organis (la 7)
	Sand & Shale	m isan tatorn son	Heate, Steel-	1000	1045	45 125	Para diple late?
	Coal		Carl Incarry	1180	1182	2	demond panterino.
	Sand Shale	t see the		1182 1295	1295	113	fluor in
	Sand			1313	1313 1375	18 62	10 Augustions of the in-
	Sand & Shale	date; 200	f 67	1375	1555	130	ado toda tula
	Sand Coal			1555 1655	1655 1657	100	La la roto de estad
	Sand		A LEST BU	1657	1721	64	2.22
	Sand & Shale			1721	1749 1868	28 18	
	Red Rock		B 7.815, 1359 .21	1868	1896	18	E nontanhord by
	Sand & Shale Shale		Sicet.	1896	1936	40 30	O some bas view.
	Red Rock		deal _	1966	2015	49	
	Sand & Shale Red Rock		L tect.	2015	2070	55	
	Sand			2160	2160	90 27	da noiremente
	Sand & Shale			2187	2328	41	Gas Ck. @ 2323
1.1 1 00 7	Ravencliff			2328	2340 2473	12 133	0 MCF
	Sand & Shale			2473	2600	117	
	Sand Shale & Sand	李明一一小小		2600 2664	2664 2756	64 92	
	Shale			2756	2795	39	A Franchista Contraction
	Sand & Shale Red Rock			2795	2819 2855	24 36	
	Shale			2855	2941	86	Took pressure for
	First Maxon		as on Han	2941	2974	33	L nethunord bette?
	Second Maxon			3020	3038	18	ATW 72 System 2.5
	Sand & Shale Third Maxon		10072	3038	3142	104	(8)
	Shale		100 (1)	3142	3166 33255	24 89	
	Sand		20-16-2	3255	3310	55	Line of the second second
	Sand & Shale Little Lime			3310 3362	3362 3415	52 53	Gas Ck. @ 3312 3 MCF
	Big Lime		(2) (14	3415	3873	458	Gas Ck. @ 3620
	Injun Weir Shells			3873 3918	3918 4020	45 98	2,987 MCF Gas Blew Down
	Shale		eliw t	8020	4355	385	Gas blew Down
	Coffee Shale Berea Sand		risew is	4355 4443	4443 4551	80	- mga
	Shale	organia O September	d they are a little	4551	4637	86	Trans
	Total Depth			4637	788-885- 0003-68	(// ()))))))))))))))))	brus Ar Ar
					exact ows	окта:Э	
			Penting and a second		70 75 NO 75		The James of The State of The S
	1244,000			A Shaha' a			
	12		L the	1564	1076		
				Luit :			

a rorm /	encour in a Me			(T- 1- C11-1	
(To be filled in by Division of Mines)		COMMONWEALTH O	F VIRGINIA R AND INDUSTRY	(To be filled Division of M	
DICKENSON				Well No	39
County		DIVISION OF BIG STONE GAP,		Permit No20	
SAND YCK District			* * *		
HAUST	OIL AND	DEEPEN GAS WELL COM	ED IPLETION REPOR	T Office No	
Мар	ь	ABANDONI	MENT	Location Plat	
<i>DI- 121</i> File	be submitte abandonmer	d to the Division of M	ectrical log, if made, must Mines within 30 days after ell, as required by Section		
ompany Philadelph	ia Oil Company		Address P. O. Bo	x 313 rginia 24272	
	evelopment Corpo	oration	Acres1921.50		
ounty <u>Dickenson</u> Vell No. (Company) <u>P</u>	-39		District Sand Lic	k urface) 1652.27	£L.
		* 6			It.
	location plat or ma			ation reference points or Mines or shown on qua	
4800 feet	South	ofL	atitude 37° 10'	00"	and
800 feet	East	ofL	ongitude 82° 20'	00"	
writes ourface of tract is owned in	01-	arlie Perry			
Address	Det	troit, Michiga			
Aineral rights are owned	bySte	einman Develop			
11 718	Hambere Darraine	s, norton, vir	611114 24275		
Address 218 ocation made by B. C	. Spradlin				
cocation made by B. Corilling commenced Oc	tober 2, 1975	D	rilling contractor _Un	ion Drilling Compa	ny, Inc.
cocation made by B. Corilling commenced Oc	tober 2, 1975 tober 12, 1975	D	rilling contractor <u>Un</u> ddress <u>Buckhannon</u>	ion Drilling Compa , West Virginia	ny, Inc.
Orilling completed Occation made by B. C. Orilling commenced Occ Occ Occ Occ Occ Occ Occ	tober 12, 1975	A	orilling contractor <u>Un</u> Address <u>Buckhannon</u>	ion Drilling Compa , West Virginia	ny, Inc.
Drilling commenced Octoor Octo	well on Augu	Aust 16, 1977	Address <u>Buckhannon</u>	, West Virginia	
Orilling commenced Orilling completed Vell completed as gas Vell abandoned at	well on Augu	Aust 16, 1977	Address <u>Buckhannon</u>	, West Virginia	
Orilling commenced Orilling completed Vell completed as gas Vell abandoned at	well on Augu	Aust 16, 1977	Address <u>Buckhannon</u>	, West Virginia	
Orilling commenced Occorrilling completed Occorrilling completed Occorrilling completed As Social Vell abandoned at Well plugged on 4640 (Total depth Occorring Contact of the Contact of	well on feet of KB)	on, 19 A	: I affidavit filed: I teel line measurement	, West Virginia	, 19 feet
Deceation made by B. Control of the	well on feet of KB)	on, 19 A, 19 A feet. S to pipeline s	: I affidavit filed: I teel line measurement	, West Virginia	, 19 feet
Docation made by B. Contilling commenced Occorrilling completed Occorrilling completed Scotch Occorring Completed as Scotch Occorring Commenced producing of Commenced producing of Commenced Commen	well on Augument feet of KB) n not connected	Aust 16, 1977 on, 19 A feet. S to pipeline s	address Buckhannon: : Inffidavit filed: Interest line measurement ystem; 19	, West Virginia Reason	, 19 feet
Docation made by B. Contilling commenced Occupied Occupie	well on Augument feet of KB) n not connected	Aust 16, 1977 on, 19 A feet. S to pipeline s	: In the state of	Reason	, 19
Orilling commenced Occording commenced Occording completed Occording completed Occording completed as gas work Well completed as gas work Well abandoned at	well on Augument feet of KB) n not connected from from from	Aust 16, 1977 n, 19 A feet. S to pipeline s feet to	: I affidavit filed: I teel line measurement ystem, 19 bbls.; 2nd 24 hour feet with	Reasonlbslbs	, 19
Vell completed as gas with Vell abandoned at Cotal depth Commenced producing or Vell Well Commenced producing or Vell Well After shot on Cotal depth Commenced producing or Vell Well Commenced producing or Vell Well Commenced producing or Vell Well Commenced producing or Vell Commenced producing or Vell Commenced producing or Vell Commenced production, oil: 1st	well on Augument feet of KB) n not connected from from from	Aust 16, 1977 n, 19 A feet. S to pipeline s feet to	: I affidavit filed: I teel line measurement ystem, 19 bbls.; 2nd 24 hour feet with	Reasonlbsqts.	
After shot on Orilling commenced Occording commenced Occording completed Occording completed Service Occording completed as Service Occident Occording of Octor O	well on feet of KB) n from from from	Aust 16, 1977 on, 19 A feet. S to pipeline s feet to	ddress Buckhannon:	Reasonlbslbs.	, 19feet
After shot on Jordan of the production of the p	tober 2, 1975 tober 12, 1975 well on feet of (KB) n feet of (KB) 24 hours from from bbls.; 2n	Aust 16, 1977 n, 19 A feet. S to pipeline s feet to feet to d 24 hours	: I affidavit filed: I affidavit filed: I steel line measurement ystem, 19 bbls.; 2nd 24 hour feet with	Reasonlbslbsgtslbsgts.	
Vell completed as gas with Vell abandoned at Well plugged on Cotal depth Commenced producing or Dil Well Initial production, oil: 1st After shot on Settled production Settled Settled production Settled Set	tober 2, 1975 tober 12, 1975 well on feet of (KB) n from from bbls.; 2n	feet to bbls. per d	: In the second state of t	Reasonlbslbslbstslbsts.	
Drilling commenced Occorrilling commenced Occorrilling completed Occorrilling completed Occorrilling completed Occorrilling completed as gas work Well completed as gas work Well abandoned at Occorring of Octor occorring of Octor occorring of Octor occorring of Octor occorring occorri	tober 2, 1975 tober 12, 1975 well on feet of (KB) n from from bbls.; 2n	feet to bbls. per design and feet.	: In the second state of the second s	Reason Ibs. qts. lbs. qts. gts.	, 19bblsbbls daysweek
Cocation made by B. Corilling commenced Occorilling commenced Occorilling completed Scale Vell completed as Scale Vell abandoned at Scale Vell plugged on Gotal depth Gommenced producing or Oil Well Initial production, oil: 1st After shot on Scale Vell plugged on Gotal depth Gotal depth Gotal depth Gotal depth Scale Vell Initial production, oil: 1st After shot on Scale Vell Gotal depth Go	tober 2, 1975 tober 12, 1975 well on feet of feet of feet of t 24 hours from from bbls.; 2n	feet to bbls. per det.	: In the state of	Reasonlbslbslbstslbsts.	, 19
Docation made by B. Corilling commenced Occorrilling commenced Occorrilling completed Script Vell completed as Script Vell abandoned at Script Vell plugged on Gotal depth Occommenced producing or Octor Vell Initial production, oil: 1st After shot on Script Vell Vell Initial production oil: 1st After shot on Script Vell Vell Initial production Occorries Settled production Octor Vell Vell Vell Vell Vell Vell Vell Vel	tober 2, 1975 tober 12, 1975 well on feet of feet of feet of t 24 hours from from bbls.; 2n	feet to bbls. per det.	: In the state of	Reasonlbslbsgtsfeet to	, 19
After shot on	tober 2, 1975 tober 12, 1975 well on feet of the connected of the	feet to bbls. per det feet	: In the state of	Reason Ibs. qts. lbs. qts. qts. contact to	
After shot on Coravity and grade of oil Coravity and grade of oil Company at (1) (2) (3) (4) Main production at Occupants of Occupan	tober 2, 1975 tober 12, 1975 well on feet of the connected feet to feet feet feet feet feet feet fee	feet to bbls. per det feet	: In the state of	Reason	
Docation made by B. Corilling commenced Occorrilling commenced Occorrilling completed Script Vell completed as Script Vell abandoned at Script Vell abandoned at Script Vell plugged on Gotal depth Occommenced producing or Octal depth Script Vell Initial production, oil: 1st After shot on Script Vell Initial production oil: 1st After shot on Script Vell Initial production Octal depth Script Vell Initial production Octal Polymer Vell Initial Production Initial Polymer Vell Initial Production Initial Polymer Vell Initial Polymer Ve	tober 2, 1975 tober 12, 1975 well on feet of the connected of the	feet to feet	ddress Buckhannon : Infidavit filed	Reason Ibs. qts. lbs. qts. gts. lbs. qts. feet to	
After shot on After shot on After shot on Coravity and grade of oil Coravity and grade of oil Coli pays at (1) (2) (3) (4) Main production at Gas Well Gas Well Contained by B. C Oc. Oc. Oc. Oc. Oc. Oc. Oc. Oc	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason	
After shot on After shot on After shot on Coravity and grade of oil	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason	
After shot on After shot on After shot on Coravity and grade of oil Coravity and grade of oil Coli pays at (1) (2) (3) (4) Main production at Gas Well Gas Well Contained by B. C Oc. Oc. Oc. Oc. Oc. Oc. Oc. Oc	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason Ibs. qts. lbs. qts. lbs. qts. lbs. qts. / 10ths. Water in // 10ths. Water in // 10ths. Mercury in Ibs. qts.	bbls bbls days week feet feet feet feet feet feet feet f
After shot on Corality and grade of oil Corilling as gas work Well abandoned at	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts.	bbls bbls days week feet feet feet feet feet feet inch
After shot on Gravity and grade of oil and gravity and grade of oil pays at (1) Gravity and grade of oil and gravity and	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason Ibs. qts. lbs. qts. lbs. qts. lbs. qts. / 10ths. Water in // 10ths. Water in // 10ths. Mercury in Ibs. qts.	
After shot on Corality and grade of oil Corilling as gas work Well abandoned at	feet to	feet to	ddress Buckhannon : Infidavit filed	Reason Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts. Ibs. qts.	bbls bbls days week feet feet feet feet feet feet inch

it is order							
							н *
10t 21 11Vui.	3 ————	70.7"					
	ure: Initial	725#	lbs.; after	48 ho	ours	lb	s. days
Settled pro	duction		cu. ft per da	y after produci	ng		week
Gas pays a	t (1)3620	feet to	feet. Gas feet.	shows at (1).		feet to	feet
	(2) = 4482	feet to4	feet.				
	(4)	feet to	feet.				
Main produ	action	feet to	feet.				
Fresh water	rat (1) 30	feet 2" S	treamGPM; (2)	foot	CDM . (2)	·	CDM
Salt water	at (1) See log	feet; (2)	feet; (3) _	fee	et: (4)	feet	t.
Coal: from	See log feet _	inches t	o feet inches	inches; fron	feet	in	ches to
Well acidize	ed from	feet to	feet with	(quantit	ty) of	acid.	
	from	feet to	feet with	(quantit	ty) of	acid.	
Remarks:	Well fractur	ed in the Ber	ea formation with	(quantit	(y) of 80/100 san	acid.	0#
20/40	0 sand, 15,00	00# J-266 ge1,	30 gals F-78, 50	0 gals. of 1	Mud Acid.	Fracture	d Big Lime
with	25,000# 20/4	0 sand, 2000	gallons of 28% Ac	id, 600# J-2	267		
		Casing and Tubing			Pac	CKERS	
Size	Used in	LEFT IN	PERFORATED	Kind	Size		SET AT
(inch)	Drilling (feet)	(feet)	(fact) to (fact)	Feet	1	1/2 //	TO.1
11 3/4	9	9	(feet) to (feet)	Frac-ove	r plug 4	1/2 44	50'
8 5/8	1874	1874	//00 /500				
4 1/2	4638	4638	4482-4533 3607-3618				
			3660-3668				
2 3/8		4467				1	
		4407			L	INERS	
				_	T	Γ.	1_
				SIZE	Used in Drilling	LEFT IN WELL	PERFORATED
				(inch)	(ft.)	(ft.)	(ft. to ft.)
					·		
Casing	Cemented: 1	L1 3/4 inch. from	9 feet to	surface D)ate		
		8 5/8 inch. from	9 feet to — 1874 feet to — 4638 feet to —	surface D	ate Octob	per 7, 19	
		4 1/2 inch. from	14638 feet to	<u> </u>	ate Octob	per 12, 1	975
Remarks: ((Shut down, dept	hs, dates; fishing	jobs, depths, dates; cav	ring; other notes	s)		
Samples or	cuttings will be	available for exam	nination by a member o	f the Virginia C	Geological Surv	ev	(Yes)
			vey upon request	1	x, if sacks for	same are it	irnished by the
Survey			(Yes	×			
Electrical lo	og made	or not made	(check which.)			_	
Copy furnis	shed herewith	or will	be submitted on or by	previousl	y submitted	<u>l</u>	, 19
Depths							
				1 1 2:	. 1 6		
			4-17		ential for a p	eriod of nin	nety days after
		information given ed by this report _	herein and log or logs (No)	×	ential for a p	eriod of nir	nety

	0 00
Well No.	P-39

Permit No. 300

LOG

Furnished by E. B. Jenkins Date 9-20-77

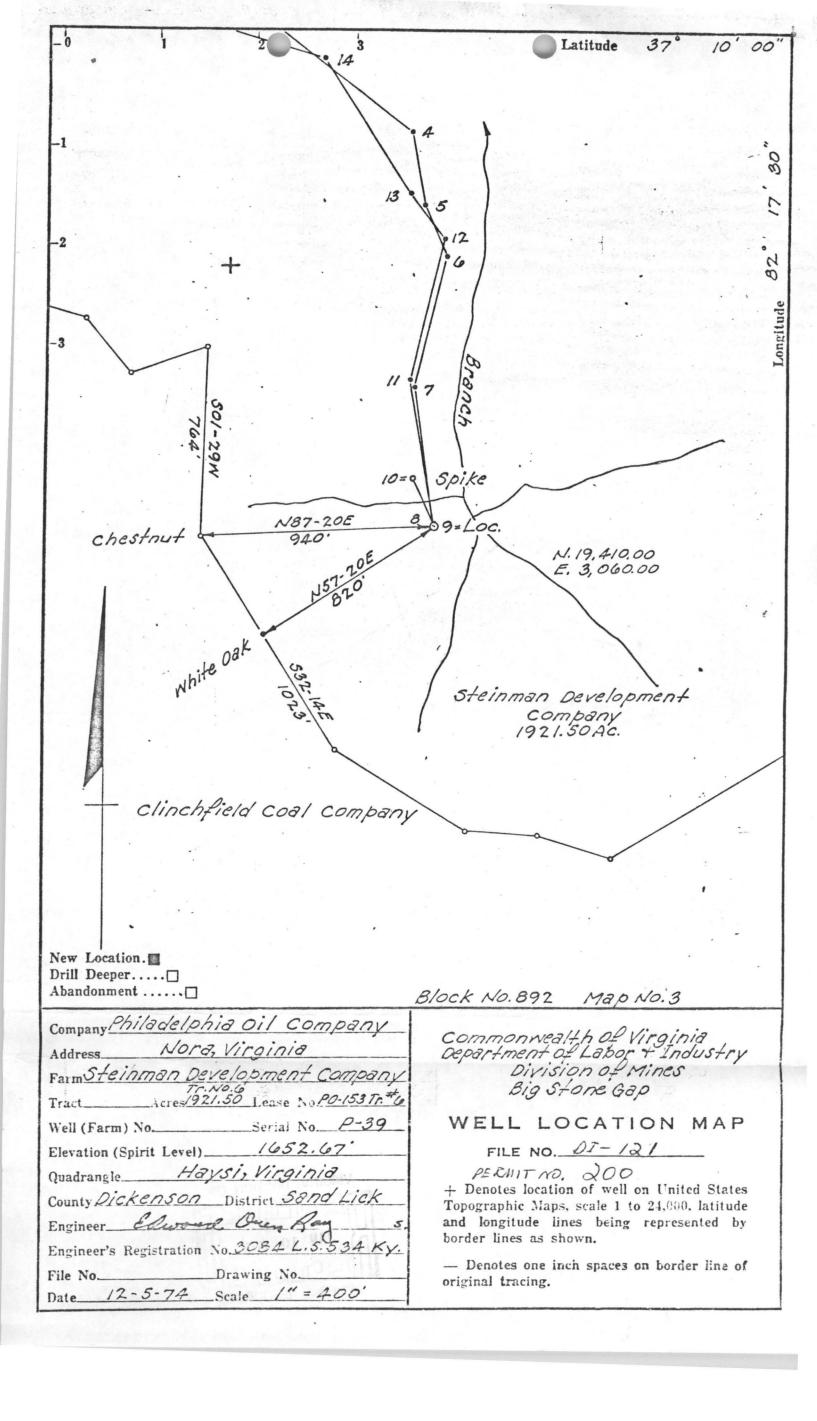
Compiled by Michael Wallen Date 9-16-77

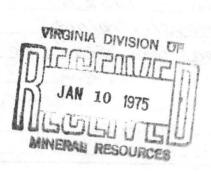
Sample No.	FORMATION	Color	HARD OR SOFT	Top (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
	Sand			0	35	35	30' 2" stream
	Sand & Shale			35	87	52	- Dollar
	Sand			87	162	75	
	Sand & Shale			162	275	113	
	Coal			275	278	3	
	Sand & Shale			278	284	6	
	Sand			284	340	56	
	Sand & Shale			340	397	57	
	Coal			397	399	2	
	Sand & Shale			399	502	103	
	Sand			502	542	40	
	Shale			542	591	49	
	Sand			591	612	21	
	Coa1		2 2	612	614	2	
	Sand & Shale			614	634	20	
	Sand			634	699	65	
	Shale			699	718	19	
	Sand & Shale			718	747	29	
	Shale			747	809	62	
	Sand			809	842	33	
	Sand & Shale			842	852	10	
	Coa1		4	852	855	3	
	Sand & Shale			855	879	24	
	Sand		1	879	947	68	
	Sand & Shale			947	1000	53	
	Sand			1000	1045	45	
	Sand & Shale	2		1045	1180	125	
	Coal			1180	1182	2	
	Sand			1182	1295	113	
	Shale		× ×	1295	1313	18	
	Sand			1313	1375	62	
	Sand & Shale			1375	1555	130	
	Sand			1555	1655	100	
	Coal		1, 1	1655	1657	2	
	Sand			1657	1721	64	
	Sand & Shale			1721	1749	28	
	Sand			1749	1868	18	
	Red Rock		R.	1868	1896	18	
	Sand & Shale			1896	1936	40	
	Shale			1936	1966		
	Red Rock			1966	2015	30	
	Sand & Shale		1 × 2 5 50	2015	2013	49	
	Red Rock			2070	2160	55	
	Sand			2160	2187	90 27	
	Sand & Shale			2187			C CI- (2 2222
	Sand			2328	2328 2340	41	Gas Ck. @ 2323
	Ravencliff			2340	2473	12	0 MCF
	Sand & Shale			1		133	
	Sand & Shale			2473	2600	117	
	Shale & Sand			2600	2664	64	
	Shale & Sand			2664	2756	92	
	Sand & Shale			2756	2795	39	
	Dana & Share			2795	2819	24	1

Shale First Maxon Sand & Shale Second Maxon Sand & Shale Third Maxon Shale Sand Sand & Shale Little Lime Big Lime Injun Weir Shells Shale Coffee Shale Berea Sand Shale			3038 3142 3166 3255	2941 2974 3020 3038 3142 3166 3255 3310 3362 3415 3873 3918 4020 4355 4443 4551 4637	86 33 46 18 104 24 89 55 52 53 458 45 98 385 80 8	Gas Ck. @ 3312 3 MCF Gas Ck. @ 3620' 2,987 MCF Gas Blew Down
Total Depth	Market 1		4637	4637	86	Gas Ck. @ 4637 298 MCF
					3	Gas Ck. @ T.D. 386 MCF
NOTE: Drille	ers Log adju	sted to I	Electric	Logs		
	5.15		**			

THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

E. B. Jenkins





VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1

of

Well Repository No: W-4851

Date rec'd:

Date Processed: Aug. 19/77 Sample Interval: from: 0to: 4610'

PROPERTY .

Steinman Development Company

Number of samples: 162

No. P-39

COMPANY:

Philadelphia Oil Company

Total Depth: 4640'KB

COUNTY:

Dickenson

Oil or Gas: X Water: Exploratory:

From-To	From-To	From-To	From-To
0-30	740 -770	1470 _1500	2150_2180
30-60	770 -800	1500 - 1530	_
60-90	800 -830	1530 - 1560	2110-2140
90-120	830 -860	1560 - 1590	2140-2170
120-150	860 -890	1590 -1610	_
150-180	890 -910	1610 -1640	2360-2390
180-210	910 -940	_	_
210-240	940 -970	1670-1700	2420-2450
240-270	970 -1000	1700-1730	2450_2480
270-300	1000 -1030	1730-1760	-
300-330	1030 -1060	1760-1790	2540-2570
330-360	1060 - 1090	1790-1820	2570-2600
360-390	1090 -1120	1820-1850	2600-2630
390-410	1120 -1150	1850-1880	-
410-440	1150 -1180	-	2660-2690
440-470	1180 -1210	1896-1900	2690-2720
470-500	1210-1240	_	2720-2750
500-530	1240-1270	1910-1940	2750-2780
530-560	1270-1300	1940-1970	2780-2810
560-590	1300 - 1330	1970-2000	2810-2840
590-620	1330-1360	2000-2030	2840_2870
620-650	1360-1390	2030-2060	2870-2900
650-680	1390-1410	2060-2090	2900-2930
680-710	1410-1440	2090-2120	2930-2960
710-740	1440-1470	- ,	2960-2990
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VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

INTERVAL SHEET Continued

Page 2 of	2
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Well Repository No.: W-4851

From-To	From-To	From-To	From-To	From-To
2990-3020	3580 _3590	4160_4190	_	_
3020-3050	3590 3600	4190_4220	_	_
3050-3080		4220-4250	_	_
- 3000	3610 3620	4250-4280		_
3110-3140	3620 _3630	4280-4310	-	_
3110-3140	3020 2030	4200 4310	-	-
_	3630 3640	4310-4340		_
3170-3200		4340-4370	<u> </u>	-
-		4370-4400	_	-
_	3660 - 3670	4400-4430	_	_
_	3670 - 3680	4430-4440	_	_
		1130-1110		
3290-3320	-	4440-4450	-	_
3320-3350	3690 _3700	4450-4460	_	-
3350-3360	3700 -3710	4460-4470	-	-
-	-	4470-4480	-	_
3370-3380	3720 3730	4480-4490	-	-
	3120 3130			
-	-	4490-4500	-	-
3380-3390	3750 3760	4500-4510	-	-
3390-3400	3760 3770	4510-4520	-	-
-	3/60 3//0	4520-4530	-	_
-	-	4530-4440	-	-
3410-3420	3780 -3 790	4440-4450	-	-
3420-3430	3790 -3 800	4450-4480	-	-
-	_	4480-4610	,=	-
-	3810 -3 820	-		-
	3820 -3830	-	-	_
	2022 2012			
2//0 2/50	3830 -3840	-	_	_
3440-3450	3840 -3850	-	-	_
3450-3460	3850 -3 860	-	-	-
3460-3470	3860 3 870	-	-	-
-	3870 -3 880	-	-	
	3880 -3 890	_		_
3490-3500	3890 -3920	_	_	-
3500-3510	3920 3 950	_	_	-
3510 - 3520		_	_	_
3520-3530	3950 -3980	_	_	_
3320-3330	3980 4 010	_	-	
3530-3540	4010 4040	_	<u>-</u>	_
_	4040 4070	-	-	-
	4070 4100	-	-	-
3560-3570	4100 4130	-	_	_
	4130 4160	-	_	_
	,			