#### OIL AND GAS WELL SUMMARY REPORT

API No.	45-051-20270-00-03 Rep. No
	DMQ File No. DI-148
Operator	PHILADELPHIA OIL COMPANY
Farm	LETCHER MULLINS
Co. Well No	. P-68
County	OICKENSON Quadrangle COEBURN - 7-1/2'
Location (U	TM) N 4,094,360; E 374,720 UTM Zone 17
	ong.)
Field	Province APPALACHIAN PLATEAUS
Elev. (spec	ify) 2713.31 GR. TD 6026 Form. at TD DEVONIAN SHALE  OW - Age DEVONIAN
Date compl.	or abandoned DECEMBER 27, 1977
Result	GAS WELL
Gas Shows	4992' to 5000'; 5193' to 5197'; 5840' to 5846'; 5875' to 5878'; 5884' to 58
Gas Pays 5	155' to 5173'; 5828' to 5834'; 5855' to 5864'; 5900' to 5909'
Main Produc	tion 5828' to 5909' Prod. Form. BIG LIME AND BEREA
The box sees	Age MISSISSIPPIAN
Treatment:	WELL WATER FRACTURED IN THE BEREA FORMATION WITH 72,000 POUNDS
OF SAND,	, 1,000 BARRELS OF WATER 900 POUNDS OF GEL, AND 500 GALLONS OF MUD
ACID. WAT	TER FRACTURE WAS ATTEMPTED ON BIG LIME FORMATION BUT WAS UNSUCCESSFUL.
Initial Pro	duction
	NAL FLOW - 1,968,000 CU. FT.
State of the state	
	X at 18' at 45' at 650'
	at at
	20'; 23' to 25'; 134' to 136'; 165' to 166'; 1031' to 1038'; 1401' to 140
Plat X	to 1681'; 1939' to 1941'; 2298' to 2301'; 2623' to 2627'; 2755' to 2758' Plotted X Completion Report X
Drillers Lo	g X Geologic Log
Samples	Interval Sheet
Sample Inte	rval
	arks
Geophysical	Logs S.P Res Gamma Neutron
Densit	y Sonic Other
1	

	34 2	Datum	Mrs All	
Formation	Top	(Subsea)	Thickness	
	Rapir No. 1	(0.0)	*375952771-65	
1-148°	O of althor	ő		
		-	LICITE USBEQUE	
		-		
STATES LANG	and second rouse one	-		m e
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Silva	96A-192-144-14			
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emarks	All all			
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eferences	CARLO LA CALLO DE LA CALLO DEL CALLO DE LA CALLO DEL CALLO DE LA C	Mariana de la companya de la company		and the second
100				
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		Alama, Man		4.17
1,000		174		
	restant waith	: 15-62 7 5 2 10 1		
		and the same of the same of the		
eleased to Open Fi	le: Completion	MARCH	27, 1977	22 K 10 K

(Note: UTM measurements in meters, all others in feet)

# 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 feet to the inch, and showing information reand the 1966 Cumulative Supplement, must be copies sent by registered mail to all persons of	quired by Section 45 e submitted to the D	.1-114, Code of Virgin ivision of Mines and Q	nia, 1950, 1954 uarries, and
TO: Division of Mines and Quarries Drawer V	Box 431 Prestonsbu	irg, Kentucky 416	53
Big Stone Gap, Virginia 24219	May 26	Date	,1977
Gentlemen:		Duie	
The undersigned proposes to begin as soon as and Quarries, to drill, medill workdeepen (stri Mullins Farm, comprising 70.0  Dickenson & Wise County, Virginia,	kexxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	or oil or gas on the Le	District of
grant or lease dated August 1, 1974  to Philadelphia Oil Companyand reco in the office of the County Clerk for said Cou	, made by Let orded on the 8th &	cher Mullins & O	pal Mullins
The proposed location of the well, as shown of		or map, is about 120	0 and
about 2900 (feet/m	Northwest c	of Edwards Cemete	ry
in Dickenson & Wise Counties, re It is proposed to drill this well to a depth of a committee to a depth of a committee to a depth of a Cuttings will we will work be furnished the Surv	member of the staff	of the Virginia Geolog	
A plat or map, in triplicate, on a scale not so cation of the well and other information, requand the 1966 Cumulative Supplement is attacked. The capillar deepen the aforementioned we Section 45.1-114, above cited, as follows (ladditional space is required):  1. Virginia Iron, Coal & Coke Com	uired in Section 45.1 hed hereto. Copies ell have been sent to ist names and mail ac pany, Coeburn,	1-114, Code of Virgini of the plat and notice of all interested persons ddress of each. Use ba Virginia 24230 (	a, 1950, 1954 of intention to as required by ck of sheet if Coal Owner)
2. Ringley ¢ Moncusco Coal Produc	ers, Wise, Virg	inia 24293 (Coa	l Lessee)
3.			
<b>4. 5.</b>			V quasita sassabra bahay ang punah mina dan Ma
6.			
Signature of possition was considered party:		Very truly yours, A OIL COMPANY	
Edward C. Kay	Box 431	illing Company or Cpe	rator
Edward O. Ray		Street Address arg, Kentucky 41	653
	Bengaman mangan ayan bir san ayah san mahalan mahalan magallan mar san	City or Town and Sta	te

Date Received 5-27-77

Well No. P-68

# 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) CIL OR GAS WELL

	of Virginia, 1950, 1954 and the 1966 Cumulative Supplement.
	enty-five dollars and bond and surety therefor, as specified by
	icate, one copy to be returned to applicant after action by
Division of Mines and Quarries.	701
TO: Division of Mines and Quarries	Box 431
Drawer V	Prestonsburg, Kentucky 41653
Big Stone Gap, Virginia 24219	Place May 26, 1977
	Date
Gentlemen:	
The undersigned hereby makes applicati	on for a Permit to drill, xxeelvikky xxexdeepean (strikex putchwo) a
well for oil or gas on the Letcher Mu	11in Farm, comprising 70.00 acres, in the Ervinton
District of Dickenso	n County, Virginia, having the fee title thereto, or as the
case may be, under grant or lease dated	August 1 ,19 74 made by Letcher Mullins
and Opal Mullins to	Philadelphia Oil Company
and recorded on the 8th & 17thday of	Nov. & Oct. ,1974 in the office of the County
Clerk for the said County in Book 168	& 469pages 105 & 306 in Dickenson & Wise Countie
The proposed location of the well is sho	wn on a location plat or map submitted to the Division of Mines
and Quarries, by the undersigned, toge	ther with Notice of Intention to Drill, Redrill or Deepen a Well
for Oil or Gas on the 26th day of	May 19 77 .
The proposed well will be known as Wel	No. P-68 of Philadelphia Oil Company
(company, etc.) It is proposed to drill	this well to a depth of about 5975 feet.
The proposed location is about 520	feet distant from the nearest property or lease line; about
8400 feet distant from the ne	arest mining opening, was a way to the contract which was a way of the contract with the contract was a contract with the contract with the contract was a contract win the contract with the contract with the contract with the contr
and/or about 3100 feet distant from th	ne nearest which transport the medical producing, was appalitated for which
ouk wordsmaxapphisaldex kelikar gas (stri	kaxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
There is enclosed herewith a certified c	heck or U.S. Postal Money Order, in the amount of twenty-five
(\$25.), payable to the Treasurer of Virg	ginia, covering fee fro a Permit to Drill a Well for Cil or Gas,
	of Virginia, 1950, 1954 and the 1966 Cumulative Supplement.
	liance with the provisions of Chapter 8, Title 45, Code of Vir-
the state of the s	for this well, in the amount of \$9,600.00 is submitted here-
	ond covering P-52 to P-75 inclusive.
Correspondence regarding this well shou	old be addressed to Mr. Edward O. Ray, Box 431
	Prestonsburg, Kentucky 41653
	Very truly yours,
Signature of xx his axaax ax kikxing party:	DULI ADEL DULA OLI COMPANY
(Khoan) ay	PHILADELPHIA OIL COMPANY
XXXXXX	Drilling Company or Operator
Edward O. Ray	Box 431
XXXXX	Street
	Prestonsburg
	City or Town
	Kentucky 41653
	State
	nis line is for the use of the Board only.
	DIVISION OF MINES AND QUARRIES
Received on 5-27-	,1977.
Approved and Permit (no. 270	granted on 6-10 - ,1977
Denied	
Reasons for denial	
	DIVISION GE AILNES AND QUARRIES
	By Chillen State I'll & Carry
	Title
File No. DI-148 Well No.	P-68 Permit No. 270

Coeburn		4.4-7		.,, (		
(To be filled in by Division of Mines)		OMMONWEALTH			Division of	lled in by of Mines)
DICKENSON		IVISION C			Well No.	2-68
ERVINTON	. 37.6.2	BIG STONE GA	p, Virginia	vii kaisioo	Permit No	270
District  TOMS CREEK  Map	OIL AND G	DEEPE AS WELL CO ABANDO	MPLETION	REPORT	Office No	
07-148 (301) File (301 (301))	be submitted abandonment	rt and a copy of to the Division of or completion of of Virginia, 1950	Mines within 3 well, as required	0 days after	tig seems	
Company Philadelphia Oi		3	Address _	P. O. Box		
13			11000 =	Nora, Vi	rginia 24272	
Farm Letcher Mullins			Acres	70.00		
County Dickenson P-68			District _	Ervinton	2712 21	
Vell No. (Company) P-68	1 6 2		Elevation	(ground surfa	ace) 2713.31	ft.
4090 feet 3	East South	01	82° 25' 37 <sup>0</sup> 00'	24.84	16 glades Tourist	and
хжжжх	. Tet	cher Mullin		, eta	Margaret I	
Surface of tract is owned in fee sim	Her	ald, Virgin	ia			
Mineral rights are owned by		cher Mullin ald, Virgin		1-2,		
Address	Spradlin					
Orilling commenced 19-30- Orilling completed 10-21-	11 200	E 150	Drilling contra Address P.	actor <u>Union</u> O. Drawer	Drilling Inco	rporated n, W.Va. 26
Well completed as gas well on .	Decemb	er 27, 1977			Terrori 	
Well abandoned at	feet on			: Rea	son	
Well plugged on		, 19	Affidavit filed			, 19
Total depth 6026' (KB)		feet.	Steel line mea	surement		feet.
Commenced producing onnot	connected	to pipeline	system, 19			
Oil Well						
		Transfer out to the control of the c	111 2	1 24 1		1.1.1.
				d 24 hours _		bbls.
	from	feet to			1bs	bbls
After shot on	from	31 22	feet with		lbs qts.	bbls.
After shot on	from	feet to	feet with		lbs qts lbs qts.	
After shot on	from	feet to	feet with		lbs qts lbs qts.	bbls
After shot on	from from bbls.; 2nd 2	feet to	feet with		lbs. qts. lbs. qts.	bbls
After shot onAfter shot on	from from bbls.; 2nd 2	feet to	feet with		lbs. qts. lbs. qts.	bbls
After shot onAfter shot on	from from bbls. ; 2nd 2	feet to 24 hours bbls. per	feet with feet with day after pro	ducing	lbs. qts. lbs. qts.	bbls days week
After shot onAfter shot on	from from bbls.; 2nd 2	feet to	feet with feet with day after pro		lbs feet to feet to	bbls days week
After shot onAfter shot of a sh	from bbls.; 2nd 2	feet to 24 hours bbls. per feet.	feet with feet with day after pro	ducing	lbs feet to feet feet feet feet feet feet feet	bbls days weeks feet feet
After shot on	from bbls.; 2nd :  feet to feet feet to feet feet feet feet feet feet feet	feet to 24 hours bbls. per feet. feet. feet. feet. feet.	feet with feet with day after pro	ducing	feet tofeet to	bbls days feet feet feet feet
After shot on	from bbls.; 2nd 2	feet to 24 hours bbls. per feet. feet. feet.	feet with feet with day after pro	ducing  s at (1) (2) (3)	feet tofeet to	bbls days weeks feet feet

Volume .

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DI- 148

Prmit No.

270

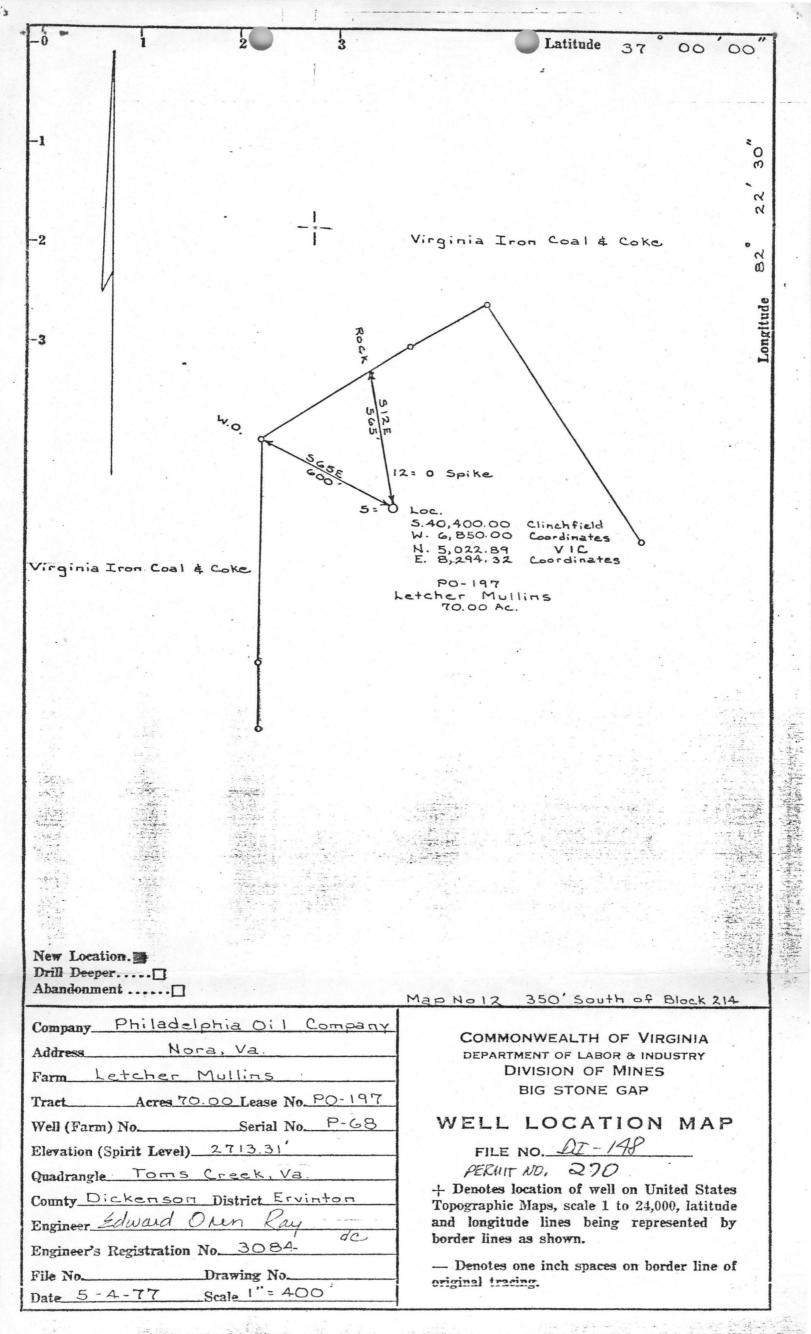
### LOG MOVELVIO

Furnished by M. Wallen Date 2-6-78

Compiled by M. Wallen Date 2-6-78

Sample No.	FORMATION	Color	Hard or Soft	Top (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
	Soil			0	9	9	
Tarrest and the second	Shale			9	15	6	
and the second section is a second section of the second section in the second section is a second section of the section of the second section of the section of the second section of the second section of the sec	Sand	7. X		15	18	3	1" stream water
	Coal			18	20	2	18'
	Sand	THE PARTY OF THE P		20	23	3	
devoluti	Coa1	model most		23	25	2	
lamon gent to string-	Sand	(2) and our	alien a local	25	134	109	2" stream water
si signosti dell'	Coa1	innelvicie a l	The half which	134	136	2	@ 45'
San Signature Pro as	Shale	DWW.S.Y.Ma		136	165	29	re.
117/2?	Coa1			165	166	1	·
3.5	Sand		200	166	255	89	
	Sandy Shale			255	370	112	
	Sand	00	TE ST	370	467	92	
And the second s	Sandy Shale			462	576	114	
	Shale Shale		- Lilian	576	589	13	Share that have the
	Sand		olletalV	589	620	31	
	Sandy Shale		entitud	620	650	30	3" stream water
LowerBanner			atribute the	650	664	14	650'
Control	Shale			664	853	159	Open Mine @ 650'
Application of the section	Sand	in same or		853	890	37	open mine & 050
STANKS BEARING	Shale	·		890	992	102	Longitude Paris
	Sand			992	1029	37	
				1029	1029	2	
.1	Shale			1029	1031	7	
Keney?	Coal						120 120 120 110
	Sand			1038	1080	42	
	Shale	and the second		1080	1120	40	
19)	Sand	Cun ho see that	2 30 1 1 1	1120	1187	67	
	Sha1e			1187	1268	81	
	Sand			1268	1318	50	
	Shale	100 100 11		1318	1401	83	
JAMPAG:	Coa1	14.5 bas nadd		1401	1404	3	
	Sand	1.04	1.01	1404	1466	62	
	Shale			1466	4192	26	
	Sand	in the second	- 12 A	1492	1500	8	Automotive State of the
The second secon	Shale			1500	1633	133	
	Shale		1.50	1633	1679	46	A Carlotte of the Carlotte
787	Coal			1679	1681	2	
	Shale	H- m		1681	1699	181	a person of the
Topler	Sand			1699	1798	99	Maria Landa de la Caracia de l
	Sandy Shale			1798	1816	18	
A	Sand	1 2 20 100		1816	1939	123	
	Coal			1939	1941	2	
	Sandy Shale			1941	2165	224	v.
	Sand		100	2165	2298	138	
	Coal		7257	2298	2301	3	
	Sand	The second second		2301	2359	58	
38 11°	Shale		1 5 S P. L. L.	2359	2483	124	
The state of the s	Sandy Shale			2483	2623	140	

Shale Sandy Shale Coal Sandy Shale Sand Coal Sandy Shale Sand Sandy Shale Red Rock Sand Sandy Shale Red Rock Sand Sandy Shale Ravencliff Sandy Shale Maxon Sand & Shale 2nd Maxon Sandy Shale 3rd Maxon Shale Sandy Shale 3rd Maxon Shale Sandy Shale Shale Sandy Shale		infing	2359 2483 2623 2627 2670 2755 2758 2890 2945 3070 3093 3190 3250 3510 3682 3872 4030 4075 4215 4380 4446 4510 4628 4690	2483 2623 2670 2755 2758 2890 2945 3070 3093 3190 3250 3510 3682 3872 4030 4075 4215 4380 4446 4510 4628 4690 5230	23 97 60 260 172 190 158 45 140 165 66 64 118 62 540	Action shot on Action of the shot on Action shot on Action of the Action
Injun Weir Berea Shale Total Depth	2 16 3d 2 up		5230 5298 5810 5939 6026	5298 5810 5939 6026	68 512 129' 87	1, 700 cci
/ NOTE:	Driller's	Log Adjust	ed to E	lectric :	Logs	(dmi)
		0 02- 27/7- 19/0-	1684 1876 1875	Al de	,	8/5
	esta l	2480- 2882- 2002	267 267 740 888			
		9097-	11.65	1707		1 2 8 8 2 A
	2003.24 2003.24 2003.24	e ng thai E ng thai gh thai gh thai	180 180 180 180 180	ort aloni 	2 5/8 6 5/8 6 1/2	une de particular
	on selected	ne, sietes ; kai	joho, dep	rained tax	nh saitipih m	d and de calescere
vovite in agonde.		200 820 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				enodia do e Cigo. O lodalidade se filos



DM Form 7 (To be filled in by COMMONWEALTH OF VIRGINIA (To be filled in by Division of Mines) Division of Mines) DEPARTMENT OF LABOR AND INDUSTRY DICKENSON Well No. \_\_\_ DIVISION OF MINES County BIG STONE GAP, VIRGINIA Permit No. \_ ERVINTON District DEEPENED Office No. -OIL AND GAS WELL COMPLETION REPORT ABANDONMENT Location Plat \_ (This report and a copy of electrical log, if made, must be submitted to the Division of Mines within 30 days after abandonment or completion of well, as required by Section 45-113, Code of Virginia, 1950.) P. O. Box 313 Philadelphia Oil Company Company \_ Address -Nora, Virginia 24272 Farm Letcher Mullins 70.00 Acres County Dickenson Ervinton District 2713.31 Well No. (Company) P-68 Elevation (ground surface) \_ Location: (Give direction and distance in feet or tenths of a mile from two (2) location reference points or map coordinates shown on location plat or map previously filed with the Division of Mines or shown on quadrangle topographic map of area.) feet 2830 East miles feet South XXXXXX Letcher Mullins Surface of tract is owned in fee simple by \_\_ Herald, Virginia Letcher Mullins Mineral rights are owned by \_\_\_\_\_ Herald, Virginia Location made by Mr. B. C. Spradlin Drilling contractor Union Drilling Incorporated 9-30-77 Drilling commenced \_\_\_\_ Address P. O. Drawer 40, Buckhannon, W.Va. 10-21-77 Drilling completed \_\_\_ December 27, 1977 Well completed as gas well on \_ Well abandoned at \_ \_: Reason \_ Well plugged on \_ Total depth 6026' (KB) feet. Steel line measurement \_\_\_\_\_ Commenced producing on not connected to pipeline system, 19 Oil Well \_\_\_\_\_ bbls.; 2nd 24 hours \_\_\_ Initial production, oil: 1st 24 hours \_\_ \_\_\_\_\_ feet to \_\_\_\_\_ feet with \_ \_\_\_ from \_\_\_ ats. lbs. \_\_ feet to \_\_\_\_\_ feet with \_\_ After shot on \_ 1st 24 hours \_ bbls.; 2nd 24 hours \_\_\_\_ \_\_\_\_ bbls. per day after producing \_\_\_\_\_ Settled production \_\_\_ Gravity and grade of oil Oil pays at (1) \_\_\_\_\_\_ feet to \_\_\_\_ feet. Oil shows at (1) \_\_ feet to \_\_\_\_\_\_ feet. \_\_\_\_\_ feet to \_\_\_\_\_ feet. (2) \_ feet to \_\_\_\_\_ feet.  $(2)_{-}$ feet to \_\_\_\_\_ feet. \_\_\_\_\_ feet to \_\_\_\_  $(3)_{-}$ (4) -\_ feet to \_\_\_\_ \_ feet to \_\_\_\_\_\_ feet. feet to \_ \_\_ feet to .  $(5)_{-}$ Main production at \_ 80 \_\_\_/10ths. Water in \_ Gas Well Gaged \_ \_\_\_\_\_/10ths. Mercury in \_\_\_\_\_\_ inch. Initial open flow, gas: 377 MCF Volume \_\_\_\_\_ \_\_\_ feet to \_\_\_\_ \_ feet with \_ After shot on \_ \_ from \_ qts. After shot on \_ from \_ \_ feet to \_\_\_\_\_ feet with \_ qts. 1st 24 hours -\_ cu ft., 2nd 24 hours \_\_\_ cu ft. Rock pressure: Initial \_\_\_\_\_\_ lbs.; after \_\_\_\_ hours \_\_\_\_\_ lbs. cu. ft per day after producing Settled production \_\_\_\_ weeks Gas pays at (1) 5155 by feet to \_\_ feet. Gas shows at (1) \_\_\_\_ 4992 5000 5173 feet. 5828 peres 5834 5193 5197 (2) (2) feet to feet. feet to 5855 perso 5864 5840 feet to feet. (3) (3) feet to 5909 5875 5900 pure (4)feet to feet. (4) feet to . 5884 5909 Main production . feet to feet. (5) feet to feet. feet, 1"stream GPM; (2) 45 feet, 2"stream GPM; (3) 650' feet, feet; (2) feet; (3) feet; (4) feet; (4) 18 Fresh water at (1)
Salt water at (1)
See log feet; (2) Coal: from See Log feet \_\_\_\_\_ inches to \_\_\_\_\_ feet \_\_\_\_ inches; from \_\_\_\_\_ feet \_\_\_\_ inches to\_ feet \_\_\_\_\_\_ inches; from \_\_\_\_\_\_ feet \_\_\_\_\_ inches, to \_\_\_\_\_\_ feet \_\_\_\_\_ inches. Well acidized from \_\_\_\_\_\_ feet to \_\_\_\_\_ feet with \_\_\_\_\_ (quantity) of \_\_\_\_\_ acid. feet to \_\_\_\_\_ feet with \_\_\_\_ (quantity) of \_\_\_\_\_ acid.
feet to \_\_\_\_\_ feet with \_\_\_\_ (quantity) of \_\_\_\_\_ acid. Remarks: Well waterfractured in the Berea Sand with 72,000# sand, 1000 Bbls. water, 900# gel, 500 gals. Mud Acid. Water frac was attempted on the Big Lime formation but was unsuccessful. FINAL OPENFLOW: 1,968 BEREA & LIME PACKERS Casing and Tubing USED IN DRILLING LEFT IN WELL KIND SIZE SIZE PERFORATED SET AT (inch) (feet) (feet) (feet) to (feet) 4 1/2" Frac-Over 5795 81 81 Plug 9 5/8 685 685 6 5/8" 2961 2961 4 1/2 6014 6014 4992-5000 5155-5173 5193-5197 5828-5834 LINERS 5840-5846 5855-5864 LEFT IN WELL SIZE USED IN PERFORATED DRILLING 5875-5878 5884-5890 (ft.) (ft.) (inch) (ft. to ft.) 5900-5909 2 3/8 5795 5795 Casing Cemented: 9 5/8 inch. from 685 feet to Surface Date October 7, 1977 6 5/8 inch. from 2961 feet to Surface Date \_ October 11,1977 4 1/2 inch. from 6014 feet to 4730' Date October 21, 1977 Remarks: (Shut down, depths, dates; fishing jobs, depths, dates; caving; other notes) (Yes) Samples or cuttings will be available for examination by a member of the Virginia Geological Survey \_ XXXXX (Yes), if sacks for same are furnished by the Will be furnished the Virginia Geological Survey upon request -(Yes) XXXXXXX Electrical log made \_\_\_\_ or not made \_\_\_\_ (check which.) \_\_\_\_\_ or will be submitted on or by \_\_\_\_\_\_previously submitted Copy furnished herewith \_\_\_\_ Philadelphia Oil Company Depths Gamma-Density P. O. Box 431 Temperature Prestonsburg, Kentucky 41653 The operator requests that information given herein and log or logs be kept confidential for a period of ninety days after (Yes)

XKNAX

completion of the well covered by this report \_\_\_

Well No. \_

01-148 Permit No. \_ hae No. \_\_

270 (To be filled in by Division of Mines)

DEPARTMENT OF LOOP AND INDUSTRY
DIVISION OF MINES

Furnished by M. Wallen Date 2-6-78

2-6-78

	Formation	Color	Hard or Soft	Top (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
	Soil e mos .	I .T.	5/5	0	9	10 a9 alab	Company Thile
	Shale	207		9	15	6	
	Sand Coal	70.	οA	15 18	18 20	3	1" stream wate
	Sand	uriet Erv	ICI	20	23	2 10000	County 181 ce
	Coal Costume b	morg) noiter	131 _	23	25	3 2	Well No. (Company
	Sand	(S) out mo	t slim s lo s	25	134	109	2" stream wate
	Coal .	rine Division	sly filed with		136	roited 2 no m	@ 45'
	Shale			136	165	(.29 a to q	graphic m
	Coal Sand	125	000	165	166	1 soit	2830
	Sandy Shale		6	166 255	255 370	89 112	
	Sand	100	of37"	370	467	92	4090
	Sandy Shale		anliten	462	576	114	
	Shale		stateril	576	589	med in EI sim	Surface of tract is on
	Sand		- nmllink	589	620	31	Address seem
	Sandy Shale		sinigali	620	650	30	3" stream wate
	Open Mine Shale			650 664	664 853	14	650'
hatrocaral	Sand	g contractor .	dilina	853	890	159 37	Open Mine @ 650
	Shale	E. O. D	- Addre	890	992	102	Drilling completed
	Sand		1977	992	1029	37	
	Shale			1029	1031	2 2	Well completed as
	Coal		Marie	1031	1038	7	Well abandoned at _
	Sand Shale	vit Sted	nhill 0	1038	1080	42	Well plugged on
	Sand	ine measurem	_ feet, Steel	1120	1120	67	Total depth
	Shale	01 ,000	ngn enline	1187	1268	81 10 31	Commenced product
	Sand			1268	1318	50	Oil Well
	Shale	11010 11		1318	1401	83	Oil Well Initial production, oi
	Coal	The series a series		1401	1404	3	
	Sand Shale	risiw too	1 01	1404	1466	62	After shot on
	Sand	eet with		1466	4192 1500	26 8	After shot on
	Shale	111111 395	01	1500	1633	133	no Jone 1911/A
	Shale			1633	1679	46	1st 24 hours
	Coa1			1679	1681	2	
	Shale	iter producing	ds. per day at	1681	1699	181	Settled production
	Sand			1699	1798	99	Gravity and grade of
t to f	Sandy Shale Sand	l shows at (1	_ feet. O	1798 1816	1816 1939	18 123	Oil pays at (1)
	Coal	1)	_ feet.	1939	1939	2	(2)
	Sandy Shale	2	_ feet.	1941	2165	224	(3) (4)
	Sand	R	_ feet. _ feet.	2165	2298	138	Main production at
	Coal			2298	2301	3	
	Sand Shale		Gaged	2301	2359	58	Gas Well
	Sandy Shale			2359 2483	2483 2623	124	Initial open flow, ga
	Coal		cu, ft,	2623	2627	4	Volume
	Sandy Shale	driw too	00	2627	2670	43	After shot on
	Sand	-		2670	2755	85	
	Coal	101(W 200		2755	2758	3	After shot on
	Sandy Shale Sand	A front 4	C 105 300	2758 2890	2890	132	Let 24 bours
	Sandy Shale		niter	2945	2945 3070	55 125	Rock pressure: Init
	Red Rock	oborg refle	en. It bet da	3070	3093	23	Settled production
	Sand			3093	3190	97	
	Sandy Shale	(1) in sworls	_ feet. Gas	3190	3250	60	Gos pays at (1)
	Shale	(2)	feet	3250	3510	260	2855 (3)
	Ravencliff Sandy Shale	45	_ feet_	3510 3682	3682	172	(4)
	Maxon	(5)	_ feet.	3872	3872 4030	190 158	Main production
	Sand & Shale			4030	4075	45	
	and Maxon	feet, 2"st	M; (2) 05	4075	4215	140	Fresh water at (1)
	Sandy Shale		_ feet; (3) _	4215	4380	1.65	Salt water at (1)
	3rd Maxon	inches ; from	1997	4380	4446	66	Coal: from Soc. Lo
iches.	Shale Sandy Shale	07 .	inches	4446	4510 4628	64	feet
		namp)	drive to	4628	4690	62	Well acidized from
	Big Lime	dumb)	Allien St	4690	5230	540	mort
0000 , 101em		2,000 see	data best	5230	5298	68	Remarks : Wall we
		m the Big		5298	5810	512	sel, 500 gala.
		27.30	8967	5810	5939	129	.lulunencumm
	Shale Total Depth			5939 6026	6026	87	
			1.1	0020			te en
	Toner pebers						
	Parent Parent				oznaT and	Castno	
		malt	GHTAROURE'		no was I		Sons Una
	Pacquin	max	CHEADOCHA				Data
	Pacquin	oxiX	director articles (feet)		Lary 18 Warn (feet)	MI (	(inch) (fe
	Pacicin Sum				Larry no Wear, (feet)	MI (	(inch) (in
	Pacicin Sum	10-2873			Iser is Wain (feet)	MI (	(lach) (lo
	Pacicin Sum	10-2873			Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Pacicin Sum	10-2873	set) to (feet)		Iser is Wain (feet)	MI (	(inch) (inch) (inch) 2 2 2 2 2 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6
	Pacicin Sum	10-2873	set) to (feet) -5000	1003	Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Packin	10-2873	-5000 -5173	1003	Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Pacicin Sum	10-2873	-50.00 -51.73 -51.73	2004	Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Packin Sun A 1/200	Plog	(feet) of (feet) 0002- 5173- 5183- 5183- 5183-5	100A 5155 5155 5828 5828	Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Packin Sun A 1/200	10-2873	-5000 -5173 -5197 -5197 -5197 -5197 -5196 -5196	100A 2212 2812 2823 2823 2824	Larv 18 W 10.1. (feet) 31 663 663	MI (	(inch) (inch) (inch) 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Packin Sun A 1/200	Plog	-5000 -5173 -5173 -5197 -5197 -5866 -5878 -5878	POA SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZI	Larv 18 W 10.1. (feet) 31 663 663	MI (	(lach) (loch) (loch) (loch) 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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	Packin Sms  Sms  Lama  Lama  Danama  Danama	Plog	-5000 -5173 -5173 -5197 -5197 -5866 -5878 -5878	POA SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZI	Larv 18 W 10.1. (feet) 31 663 663	MI (	(lach) (loch) (loch) (loch) 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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	Packin Sms  Sms  Lama  Lama  Danama  Danama	Plog	-5000 -5173 -5173 -5197 -5197 -5866 -5878 -5878	POA SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZIZ SZI	Impu 18 Want. (feet) 31 683 683 1360 Af Oi	MI (	(lach) (loch) (loch) 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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P. O. Box 131 Presionaburg, Jaquacky 11653 THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

Chiladelphia Oil Compan