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.)
	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 51	155' to 5173'; 5828' to 5834'; 5855' to 5864'; 5900' to 5909'
Main Product	tion 5828' to 5909' Prod. Form. BIG LIME AND BEREA
	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
	WAL FLOW - 1,968,000 CU. FT.
Oil shows	
	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 to 1681'; 1939' to 1941'; 2298' to 2301'; 2623' to 2627'; 2755' to 2758' Plotted X Completion Report X
	g X Geologic Log
	Interval Sheet
	rval
	arks
	Logs S.P. Res Gamma Neutron
	y Sonic Other
Y	

		Datum	it is a second	
Formation	Тор	(Subsea)	Thickness	
	ghrokt-agas		+3 TST 5-47 (61	
841-10	out altion	ő	***	
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	ALSO DESCRIPTION			18 11 186
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sierences		Maria and and and	212 248 000.	
	ing the statement		21.15.88 (000) 22.11.28.353.28	
	3	Management Advantagement	21.0049 (00)	
			21.00.48 (000.000.000.000.000.000.000.000.000.00	
			23 (89 (90))	
eleased to Open File	: Completion	MARCH	27, 1977	

(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	quired by Section 45 e submitted to the Di	.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	urg, 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, medial 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/a	Northwest o	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 are with most 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 of ell have been sent to ist names and mail ac pany, Coeburn,	I-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.			
4. 5.			
6.			this is a subtract to a graph that a graph of the third give in the through
Signature of possition was well as your party:		Very truly yours, A OIL COMPANY	
Edward C. Kan	Box 431	illing Company or Cpe	rator
Edward O. Ray	Apple The self-transcription of the second resident to the	Street Address irg, Kentucky 41	653
	Amplitude to a second and substitute or the design of a second to the second the second to the secon	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.	
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	ion for a Permit to drill, xxedrikky xxexdeepean (strikex put two) a
well for oil or gas on the Letcher Mu	Illin 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 t	O Philadelphia Oil Company
and recorded on the 8th & 17thday o	f 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	own 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 .
	II 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	earest mining opening, wasaaxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
and/or about 3100 feet distant from the	ne nearest zkrizbing, xabxxxdanad, producing, xxxxapabiad for xistrika
ouk wordsmax copplicately a thron gas (str	ikaxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	theck or U.S. Postal Money Order, in the amount of twenty-five
	ginia, covering fee fro a Permit to Drill a Well for Cil or Gas,
	of Virginia, 1950, 1954 and the 1966 Cumulative Supplement.
	cliance with the provisions of Chapter 8, Title 45, Code of Vir-
	for this well, in the amount of \$9,600.00 is submitted here-
	Sond 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 xxivis axeax cortifixing party:	
Tawan O. Nay	PHILADELPHIA OIL COMPANY
XXXXXX	Drilling Company or Operator
Edward O. Ray	Box 431
XXXX	Street
	Prestonsburg
	City or Town
	Kentucky 41653
· ·	State
	his 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 - ,19 77
Denied	
Reasons for denial	
State of the state	DIVISION GE AILNES AND QUARRIES
	By Colling State Oil & Carly
	7 Title
File No. DI-148 Well No.	P-68 Permit No. 270

DM Form 7					
(To be filled in by Division of Mines)	Common DEPARTMENT C	WEALTH OF VI		Division	illed in by of Mines)
DICKENSON		ON OF MI		Well No.	2-68
ERVINTON	Big St	one Gap, Virg	INIA 	Permit No	270
TOMS CREEK Map	OIL AND GAS WI	DEEPENED ELL COMPLE ANDONMEN		Office No Location Plat _	
DI-148 SHE SHE SHE (1991)	(This report and a be submitted to the D abandonment or comp 45-113, Code of Virgi	ivision of Mines v letion of well, as	vithin 30 days after	eranimum en	
Company Philadelphia O		Add	ress	30x 313	
			Nora, V	Virginia 24272	
Farm Letcher Mullins	3	_ Acre			
County Dickenson P-68		Dist			
Vell No. (Company) <u>P-68</u>		_ Elev	ation (ground su	rface) 2713.31	ft.
2830 feet ***********************************	East South	of82° 29		a GOO y Land Control Thomas	and
XXXXX	l ara l san :		6.1	Indiana base 1	
Surface of tract is owned in fee sin	Herald, V	irginia			
Mineral rights are owned by Address	Letcher I Herald, V				
ocation made by Mr. B. C.	Spradlin				
Orilling commenced 9-30- Orilling completed 10-21-	1 888 020	Drilling	contractor Unic	on Drilling Incomer 40, Buckhanno	on, W.Va. 26
Well completed as gas well on	December 27	, 1977			
Well abandoned at	feet on		: R	leason	
Well plugged on	, 1	9 Affidav	it filed		, 19
Total depth 6026' (KB)	The second of th	_ feet. Steel li	ne measurement .	1000 A	feet.
Commenced producing onnot	connected to pij	seline syste	<u>m</u> , 19		
Oil Well					
Initial production, oil: 1st 24 hou	rs	bt	ls.; 2nd 24 hours	3	bbls.
After shot on	_ from fee	to fee	t with	lbs.	
				qis.	
After shot on			et with	qts.	
1st 24 hours	bbls.; 2nd 24 hour	s		620 B	bbls
					days
Settled production		ols. per day aft	er producing		week
Gravity and grade of oil		foot Oil	shows at (1)	Reduction State Constitution	feet
Oil pays at (1)	_ feet to	feet. Oil feet.	shows at (1) $=$ (2) $=$		feet
(3)	feet to	feet.	(3) =		feet
(4)	feet to	feet.	(4) _		feet.
Main production at	마음 생생님 아내는 이 그 사람들이 되었다면 하는 것이 되었다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면	feet.	(5) _	feet to	feet.
	feet to	reet.	(3) -	rect to :	reer.
Gas Well	reet to	Gaged -	00	_/10ths. Water in _	

Volume .

ud millette i of ; Caso of to ne ovel File No. _

DI- 148

Prmit No.

270

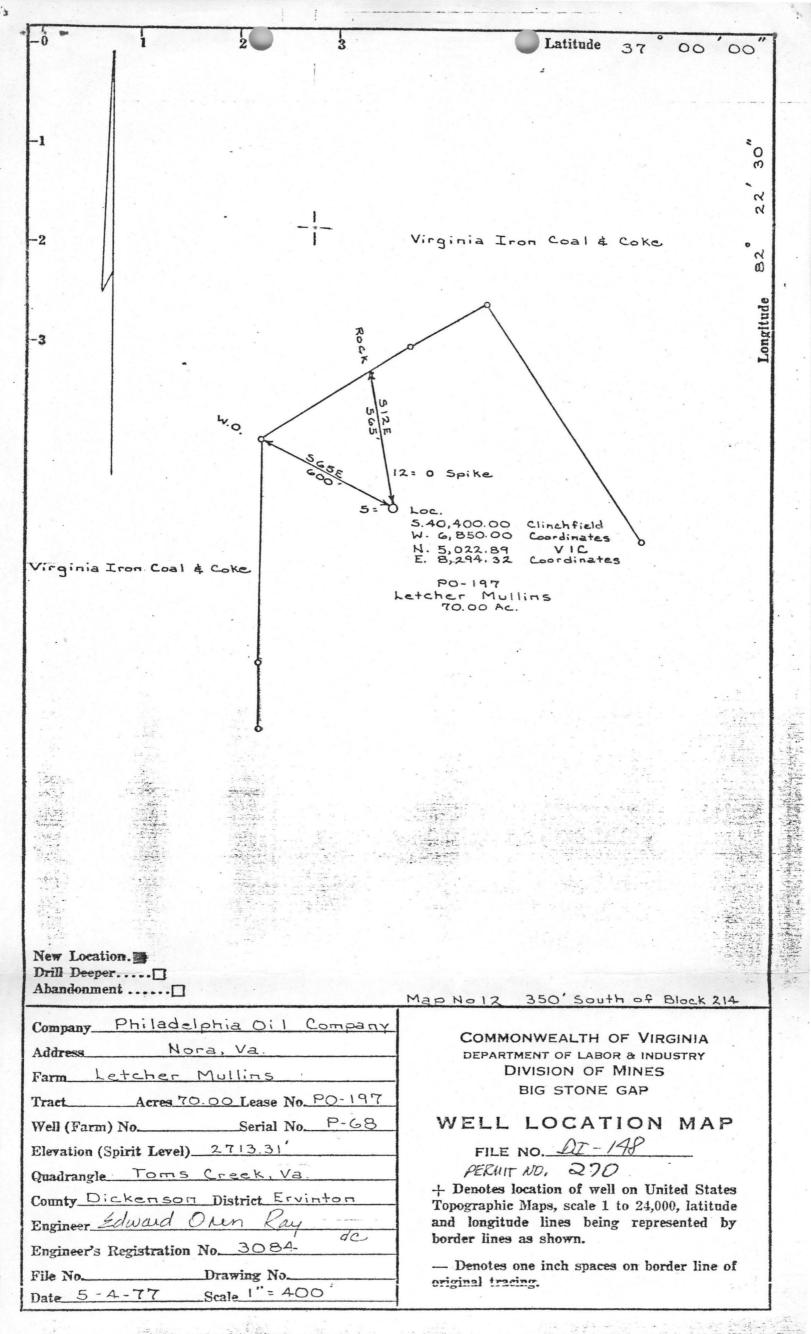
LOG MOVELVIO

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	
177	Shale			9	15	6	
and the second state of th	Sand	7. X		15	18	3	1" stream water
and the second s	Coal			18	20	2	18'
	Sand	THE PARTY OF THE P		20	23	3	
devility	Coa1	model most		23	25	2	
lamon gent to smile	Sand	(2) and our	alien a local	25	134	109	2" stream water
sa signation of roll	Coa1	innelvicie a l	The held when	134	136	2	@ 45'
San Signature Pro as	Shale	DWW.S.Y.Ma		136	165	29	re.
11/1/2?	Coa1			165	166	1	4
36	Sand		10	166	255	89	
	Sandy Shale			255	370	112	
	Sand	00	TE S	370	467	92	
White representations are an area of the second	Sandy Shale			462	576	114	
	Shale			576	589	13	Shake that have to
	Sand		kulk	589	620	31	
	Sandy Shale		entiile	620	650	30	3" stream water
LowerBAnner			atriteri.	650	664	14	650'
	Shale			664	853	159	Open Mine @ 650'
badata cumat	Sand	t in post of the		853	890	37	open mine & 050
1 .av. w mened	Shale	· · · ·		890	992	102	
	Sand			992	1029	37	
	Shale			1029	1023	2	
. 1	Coal			1023	1038	7	
Kendy?				1031	1080	42	
	Sand						
	Shale			1080	1120	40	
**************************************	Sand	24 7 70	- a smiller	1120	1187	67	
	Sha1e			1187	1268	81	
	Sand			1268	1318	50	
	Shale	1 1C 54C 1 at 8		1318	1401	83	As a second of the
JAnhre?	Coa1	The state of the		1401	1404	3	
	Sand	11.00	1.01	1404	1466	62	
	Sha1e			1466	4192	26	
	Sand	and the second	La la ave	1492	1500	8	Automotive Physical Conference
	Sha1e			1500	1633	133	
	Shale			1633	1679	46	
	Coal			1679	1681	2	
	Shale	W- II		1681	1699	181	a periodo a mario
Topler	Sand			1699	1798	99	State Section 1
The second second second	Sandy Shale			1798	1816	18	
	Sand	3 2 2 10		1816	1939	123	
	Coal	1		1939	1941	2	
	Sandy Shale			1941	2165	224	V.
	Sand	12.		2165	2298	138	
	Coal		71577 (4)	2298	2301	3	
	Sand			2301	2359	58	
30	Sha1e		Park to the	2359	2483	124	
The state of the s	Sandy Shale	APPLICATION OF THE		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			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 26 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	Michael open Bon, and Vermer Shot on the Shot on the State on the State on the State of the Stat
Injun Weir Berea Shale Total Depth	2 (9d uc		5230 5298 5810 5939 6026	5298 5810 5939 6026	68 512 129' 87	Nauconse
/ NOTE:	Driller's	Log Adjust	ed to E	lectric 1	Logs	10 (dnoi:
		0.00-		À	1	8/2
	25.8	0. - 38t- - 386-	267			
	(ADAG)	0066 9067-	1982 1982	7.177		
	00 83 TH		180	an albert		
	SONA SI OTTO SON SONO SONO SONO SONO SONO	न् वा उठारे इंग्लिक्ट	913 _ 1 130 _ 1 2022 _ 1 420 _ 10[. inch. from . inch. from representation representation	ep 44414	ernaseko (Simolo)
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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 .	Lengt P.	5/5	0	9	10 a9 alab	Company Thild
	Shale	No.		9	15	6	
	Sand Coal	70.	oA _	15 18	18 20	2	1" stream wate
	Sand	verice nerv	ICI	20	23		County 181 co
	Coal Coal	morg) noting	10	23	25	2	well was (Company
	Sand	(S) out mor	s of a mile s	25	134	109 moits	2" stream wate
	Coal Shale	the Division	sly filed with		136	noiseo 2 no m	@ 45'
	Coal			136 165	165 166	1 29 in qu	graphic m
	Sand	1.25	000 10	166	255	89	2830
	Sandy Shale	100	0-4	255	370	112	0004
	Sand	- 100	10 to	370	467	92	
	Sandy Shale Shale		unilled	462 576	576 589	114 13 ni ben	Surface of tract is on
	Sand		statgall	589	620	31	Address
	Sandy Shale		nnllin	620	650	30	3" stream wate
	Open Mine		Virginia	650	664	14	650'
Lacroforated	Shale	contractor !	illierCI	664	853	159	Open Mine @ 650
	Shale	F. O. Th	- Addre	853 890	890 992	37 102	Drilling completed
	Sand		1977	992	1029	37	
	Shale		1104	1029	1031	2	Well completed as
	Coal Sand		Marie Control	1031	1038	7	Well abandoned at _
	Shale	vit filed	nbill A midn	1038	1080	42	Well plugged on
	Sand	ine measurem	_ feet, Steel	1120	1187	67	Total depth
	Shale	01 ,000	seline aga	1187	1268	81 10 31	Commenced product
	Sand			1268	1318	50	Oil Well
	Shale Coal	Ma : 2nd 24 h		1318	1401	83	Initial production, of
	Sand	10	1	1401	1404	62	After shot on
	Shale	lifin too		1466	4192	26	ALLET SHOT OIL
	Sand	eet with	i ot.	1492	1500	8	After shot on
	Shale			1500	1633	133	
	Shale Coal			1633 1679	1679	46	1st 24 hours
	Shale	iter producing	is per day at	1681	1699	181	Settled production
	Sand			1699	1798	99	Gravity and grade or
01 10	Sandy Shale	I shows at (_ feet. O	1798	1816	18	Oil pays at (1)
	Sand	5	_ feet.	1816	1939	123	(2)
	Coal Sandy Shale		_ feet.	1939	1941 2165	2 224	(2)
	Sand	3	_ feet.	2165	2298	138	(4)
	Coal	2	feet.	2298	2301	3	Main production at
	Sand	1	Gaged	2301	2359	58	Gns Well
	Shale Sandy Shale			2359 2483	2483 2623	124	Initial open flow, ga
	Coal		en, ft.	2623	2627	140	Volume
	Sandy Shale	est with	1 01	2627	2670	43	After shot on
	Sand	of the law war.		2670	2755	85	After shot on
	Coal	113(11 20)		2755	2758	3	HO SINIS ASSES
	Sandy Shale Sand	Litorica be	en (2, 200)	2758 2890	2890 2945	132 55	Lat 24 bours
	Sandy Shale		niter	2945	3070	125	Rock pressure; Ini
	Red Rock	y after produc	en. It pet day	3070	3093	23	Settled production
	Sand	CITY and assemble	eet Gas	3093	3190	97	(17) in man and
	Sandy Shale Shale	(1) 25 87/0/de	1991	3190	3250 3510	260	Gos pays at (1)
	Ravencliff	(3)	_ feet.	3510	3682	172	5855 (3)
	Sandy Shale	(4)	feet.	3682	3872	190	(4)
	Maxon	(5)	_ feet.	3872	4030	158	Main production
	Sand & Shale 2nd Maxon	20'5	20 65	4030	4075	45	VIII. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Sandy Shale	,7291	(S) ; BC	4215	4380	140	Fresh water at (1). Salt water at (1)
	3rd Maxon	Inches : for	1007	4380	4446	66	Coal: from Soc Lo
	Shale	01	inches	4446	4510	64	feet
.bins	Sandy Shale	(quant	altivo te	4510	4628	118	Well acidized from
	Shale Big Lime	onup)	main a	4628	4690 5230	62 540	proul
_ ncid.		(quant)(quanti	data best	5230	5298	68	Remarks : Wall we
nam and a	-	nd the Big		5298	5810	512	
		BELEE	1967	5810	5939	129	. Lulymanouam
	Shale Total Depth			5939 6026	6026	87	
	TOEST DEDEN		1	0020			to a large training and
	Parici				owner was	Одетно	
		Kom	CHIARMER		ne wast		Bene Usu
	Pacacan Smn	Man			ar real	MI (Data
	Paggan	170-287°	Carronares (set)		Warn. Warn. (feet)	MI ((inch) (fe
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	Packing Packing A 1/2 to A 1/2	Plog	-5000 -5173 -5173 -5197 -5197 -5866 -5878	100A 5154 5154 5878 5878 5879 5879 5879	Larv 18 Want, (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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P. O. Box 131 Presionaburg, Jaquacky 11653 THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

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