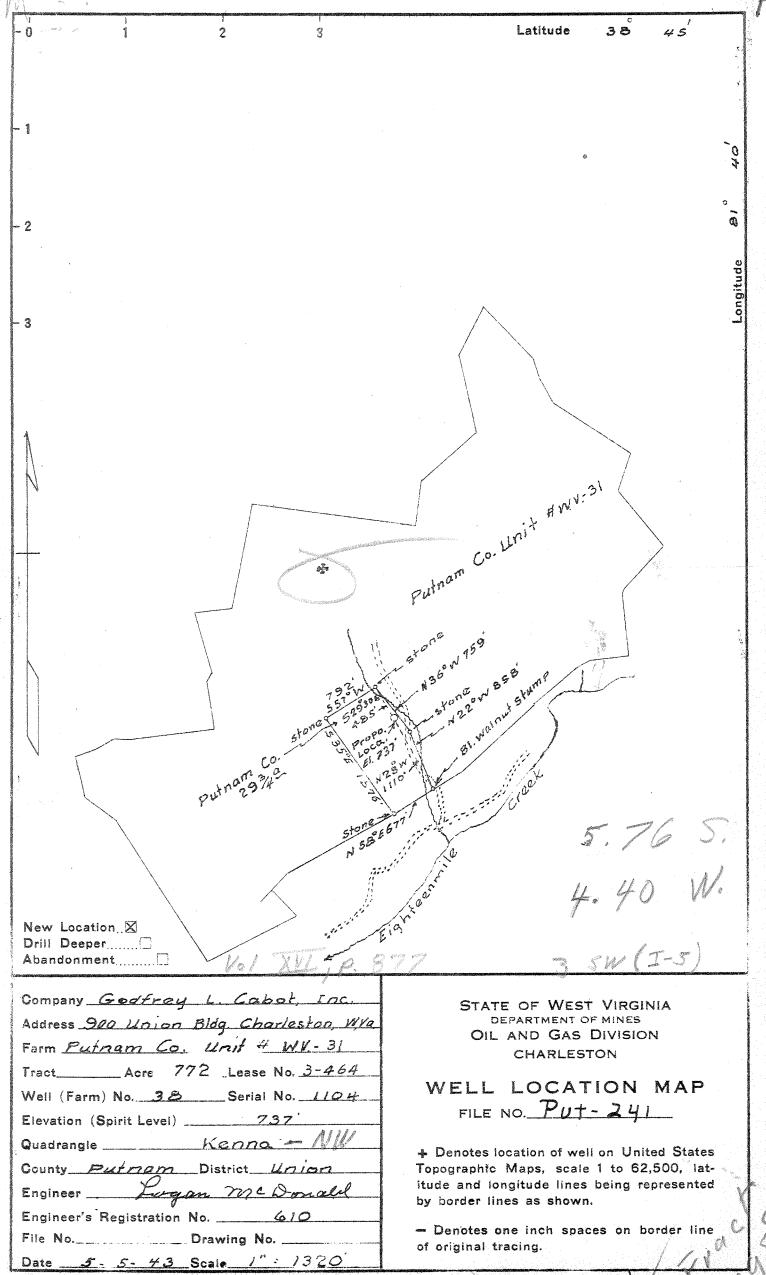


MPERIAL" TRACING CLOTH
K & E CO., N. Y.

owwo- Dep Wer

6.6 Elk flocal Sissonville (192)



6-6 Elk-Poca (sissonville) (195

Deeplal

```
Gas Well
 Permit No. Put 241
                                                                    CASING & TUBING
Kenna Quad.
                                Godfrey L. Cabot, Inc.
 Company
                                                               10\(\frac{3}{4}\)(35.75) 224 224 (1)
8(25.55) 907 907 (2)
7(24) 2090 2090 (3)
 Address
                                Charleston, W.Va.
                                Putnam Company Acres
Location
                                38-Ser. 1104 Elev. 737 5½(15.50) 2818 4813 (4)
 Well No
                                Union Putnam County
 District
                                                                1/2" coupling casing shoe
 Surface
                                                                8" x 12" casing shoe
 Mineral
                                                                7" OD casing shoe &
                                July 30,1943
Nov. 27, 1943
 Commenced
                                                                aquagel.
 Completed
                                11-29-43 -with 30 qts. 4897 to 4919 52" OD B.H.
 Date shot
                                B.S. 36 MCF; 80 Min. A.S. 520 MCF Packer #20958
 Volume
                                A.S. 1770 lbs. in 20 hrs. (Oriskany) and aquagel. Hole full at top 15; 220; 2 blrs. pr.hr. 1060; 2 blrs. pr. hr.; 1582; 1588; H.F.
 Rock Pressure
 Fresh water
 Salt Water
                                                  GAUGES IN ORISKANY SAND- B.S.
 Lime
                                       15
                                             4898 show
                                      208
                                15
 Red Rock
                                              4904-07 189 M
                                     218
 Sand
                                 208
                                             4911 119 M
4936 119 M
 Red Rock
                                 218
                                       223
                                 223 228
 Slate
                                228 307 4943 94 M
307 328 4958 73 M
 Red Rock
 Pink Rock
                                              GAUGES IN ORISKANY - A.S.
                                328 362
 Red Rock
                                352 435 Before shot 45 M
435 563 5 Mins. A.S. 615 M
563 608 10 Mins. A.S. 600 M
 Slate
 Red Rock
 Sand
 Red Rock
                                608 700 20 Mins. A.S. 577 M
                                             80 Mins. A.S. 520 M
                                700 730
 Blue Shale
                                730 760
760 775
 Lime
                                              Gas 1500-03
 Red Rock
                                775 800
                                              Show gas 3110-13
 Blue Shale
                                              Gas 4898-4901 Show
 Red Rock
                               800 840
                                840 860
860 875
 Blue Shale
                               860 875
875 890
 Sandy Shale
                                               PRODUCING SAND RECORD
 Shale & Red Rock
                                890 945
Big Dunkard
                                              Oriskany 4898 to 4907 189 MCF
                                      1060
 Slate
                                945
                                1060 1075
 Lime
                                                                          (best gauge)
 Slate
                                1075
                                       1090
                                1090
 Sand
                                       1262
Lime
                                1262 1300
Slate & Shells
                                1300 1500
                                1500 1776
1776 1942
1942 2008
 Salt Sand
 Big Lime
Injun Sand
                               2008 2077
 Sand & Lime Shells
                                2077 2088
 Lime & Slate
                                2088 2093
                                2093 2210
2210 2425
 Lime & Slate
 Slate & Shells
                                2425 2430
 Brown Shale
                                                                                 Berea Sand
                                2430 2465
 Slate & Shells
                                2465 2695
                                2695 2710
2710 2727
2727 3680
 Lime
 Slate
 Slate & Shells
                                3680 3740
 Brown Shale
 White Slate
                                3740 3900
 Brown Shale
                                3900 4040
                                4040 4090
4090 4180
 White Slate
 Brown Shale
                                4180 4550
 White Slate
 Brown Shale
                                4550 4794
                                4794 4896 SLM
4891 4915 SLM
4915 4926
Corniferous Lime
Oriskany Sand
Lime
                                4926 4954
Lime
                                4954 4955
 TOTAL DEPTH
                                       4955
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(Rev 8-81) OIL & GAS DIVISION DEPT. OF MINES

dute	र्वा है	Mes	t P	irgi	riu
D eg	arim	erd o	a Ai	ines	
CP:1	and	OSaa	Bivi	sion	

Date	October	· 11,	1984	
Oper.	ator's			
Well	No	#38		
Farm	Putnam	1		
API	No. <u>47</u> -	· 07 9	em	0241 - FRAC

WELL OPERATOR'S REPORT

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrow	n/ Wast und Storag	e Disposal e/ Deep	L/ D/ Shal	Llow_X/)
LOCATION: Elevation: 737 Watershed Ba	nn Hollow o	of Fighteer	mile Cree	k
District: Union County Putn	•			
ORTHOGRADIA AND AND AND AND AND AND AND AND AND AN	ik kungga kana kana menangan di mananan mengapangan menangan menangan di menangan di menangan di menangan di m		· · · · · · · · · · · · · · · · · · ·	Million Control of the Control of th
COMPANY Cabot Oil & Gas Corporation of WV				
ADDRESS P.O. Box 628, Charleston, WV 25322	Caşing	Used in	Left	Cement fill up
DESIGNATED AGENT Robert F Horrell	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 628, Charleston, WV 25322	Size			
SURFACE OWNER Mr. Delmer L. Pritt &	20-16 Cord.			·
ADDRESS Route 1, Box 222, Given, WV 25245	13-10"			
MINERAL RIGHTS OWNER Frank A Hardy et al c/o Trust Dept., P.O. Box 1793 ADDRESS Charleston. WV 25326	9 5/8			
ADDRESS Charleston. WV 25326	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Rural Rt. #1 = Box 28 Holcomb ADDRESS Hamlin, WV 25523	7			
Holcomb ADDRESS Hamlin, WV 25523	5 1/2	Squeezed	4340_3638	' w/50 sks
PERMIT ISSUED July 13, 1984	4 1/2	Squeezeu	4340-3030	W/ JO 3 N 3
WORKOVER 9/13/84	3	Pulled	4768.30	
WORKOVER COMPLETED 10/3/84	2 1-1/			w/seating
IF APPLICABLE: PLUGGING OF DRY HOLE ON				nipple @
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used		·	4151.75'
ON				
GEOLOGICAL TARGET FORMATION Huron Shale	- Wedding Journaphy Machine arranged continues the continues are	Dep	th_3674-4	164 feet
Depth of completed well PRTD 4300 feet	Rotary	/ Cabl	e Tools_	
Water strata depth: Freshfeet;	Salt	feet	,	
Coal seam depths:	_ Is coal	being min	ed in the	area?
OPEN FLOW DATA				
Producing formation Huron Shale	Par	v zane dep	th 3674-41	64 feet
Gas: Initial open flow Mcf/d				
4 hr. Final open flow 507 Mcf/d				
Time of open flow between init				any and the same and
Static rock pressure 810 psig(surface	,			
(If applicable due to multiple completion				
Second producing formation	·	y zone dep	oth .	feet
Gas: Initial open flow Mcf/d				the state of the s
Final open flow Mcf/d				
Time of open flow between ini			***************************************	
Static rock pressurepsig(surface				
and the second s	NO	V 1 3 1984		

DETAILS OF PERFORATED DITERRALS, FRACTURING OR STIPULICIES, PHYSICAL CHARGE, 210.

9/13/84 - MIRU Pool Well Service. 9/16/84 - R/U McCullough, shot off pipe one jt. above pkr. 9/22/84 - Pulled 3-1/2" EUE tbg. Total 154 jts. 3-1/2" 4768.30'. Set permanent BP @ 4773'. Dumped 1-1/2 sks. Cal-Seal on BP to plug back Oriskany. Ran GR & bond logs from 4757-2390'. 9/24/84 - Shot squeeze perfs @ 4340' (8 holes). Set HOWCO E-Z drl. cement retainer @ 4300'. 9/25/84 - Squeezed w/50 sks. 50/50 Poz 3/4 of 1% CFR2. 9/26/84 - Perf. Huron Shale: 3674', 3674', 3676', 3955', 3962', 4000', 4074', 4077', 4091', 4106', 4121', 4132', 4136', 4155', 4164'. 9/27/84 - Open flow thru 2" after 4 hrs. 10/10 = 133 MCF/D. 9/28/84 - Ran 115 jts. 2-7/8" EUE tbg. w/ HOWCO RTTS pkr. to 3651.40'. R/U Dowell. Broke_down shale @ 2400 psi. Treated w/1,500,000 SCF N2. AIR 30,000 SCF/min N2. ATP 3600 psi. MTP 3600 psi. ISIP 1600 psi, 15 min. 1400 psi. Release thru 1". 10/2/84 - T00H w/2-7/8"-EUE tbg. 10/3/84 - Ran 128 jts. 1-1/2" tbg. to 4185.05'. Seating nipple @ 4151.75' w/perf it.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
(SEE ATTACHED ORIGINAL WELL RECO	RD)		
			•
			• • • • • • • • • • • • • • • • • • •

(Attach separate sheets as necessary)

CABOT OIL & GAS CORPORATION O	F WEST VIRGINIA	
Well Operator	T MEST VINGINIA	**************************************
By: Robert & Llone Ol		
Date: October 11, 1984		Na.

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including



1)	Date:	June	22		, 1	984
2)	Operator's Well No.	Putnam	#38		•	
3)	API Well N	No. <u>47</u>	-	079	-	241-FRA

County

Permit

State

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A D				2.4	/ 17	· (.	, , , , ,	/ Stallan V o
6) TOCATIO		f "Gas", l vation:	Production	737	7 1	/ Underground s		/ Deep v of Eighteer	_/ ShallowX_/) mile Creek (K/6)
5) LOCATIO		vation: trict:	11	nion			Putnam	Quadrangle:	
6) WELLO	PERATOR_								rt E. Horrell
Addres	-) Box					Address	P.O. Box 62	
	_Cha	rlesto	on, WV	25:	322			_Charleston	WV 25322
8) OIL & GA				FIED		1	9) DRILLING CO	_	
	Jerry H						Name	UNKNOWN	
Addres		<u>ral Rt</u>				2227	Address		TO PERMIT
		nlin,		523_		_3337_			THE WELL VIEW
10) PROPOS	ED WELL V	WORK:	Drill		_/ Dril		/ Redrill ate new formation.	17	1
			Plug of	I OIG I bycical	change i	in well (specify) P	LUG BACK OR	ISKANY	JUN 2 5 1984
11) GEOLOG	ICAL TAR	GET FOR	MATION	HI	JRON	SHALE			OIL & GAS DIVISION
12) Estim	nated depth	of complet	ed well.	448	0	feet			
	oximate trat					220 feet; salt,	1060	feet.	DEPT. OF MINE
14) Appr	oximate coa	l seam dep	ths:	N/I		Is coa	al being mined in the	e area? Yes	/ NoX/
15) CASING	AND TUBI	NG PRO	GRAM	WORK	OVER				
CASING OR TUBING TYPE		SPEC	IFICATIONS Weight	5		FOOTAGE II	NTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
10BING LIFE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	10-3/4	1	35	ļ		EXISTING	224	ON SHOE	Kinds
Fresh water	8		25			EXISTING	907	ON SHOE	
Coal	 						0000		Sizes
Intermediate	 		24			EXISTING	2090	ON SHOE	D-4
Production	5-1/2		15.5	-	.	EXISTING	4813	ON PACKER	Depths set
Tubing	<u> </u>		 	PUI	}	EXISTING	4909	ON PACER	Perforations:
Linera									Top Bottom
	1-1/2					PROPOSED	4500		
1. Spot 2. Set of	cement n	plug retain	4909-4 er @ 4	770' 480'		ر Squeez	e cement 5-	1/2" casing	from 4500-3500'.
				*		OFFICE USE C	ONLY	in	
						DRILLING PE	RMIT		
D	47	-079-0	241-FR	A C				July 13	. 19 84
Permit number	4 8					.	***************************************		ate
quirements sub No. 8) Prior to	ject to the c	onditions of re	contained ads, locat	herein a	and on the	he reverse hereof. No	tification must be g . In addition, the w	iven to the District C	nce with the pertinent legal re- oil and Gas Inspector, (Refer to intractor shall notify the proper
The permitted reverse hereof.				e and A	Applicati	on, plat, and reclama	ation plan, subject t	o any modifications	and conditions specified on the
Permit expires	Ju	1y 13,	1986			unless well	work is commenced	l prior to that date an	d prosecuted with due diligence.
BERGNKET	Agen	Pr	Plat:	Casii M7	ng O	Fee 6/3 -		El A	
					*****		Adm	inistrator, Office of	Oil and Gas
NOTE: Keep	one copy of	this perm	it posted	at the d	lrilling lo	ocation.			File