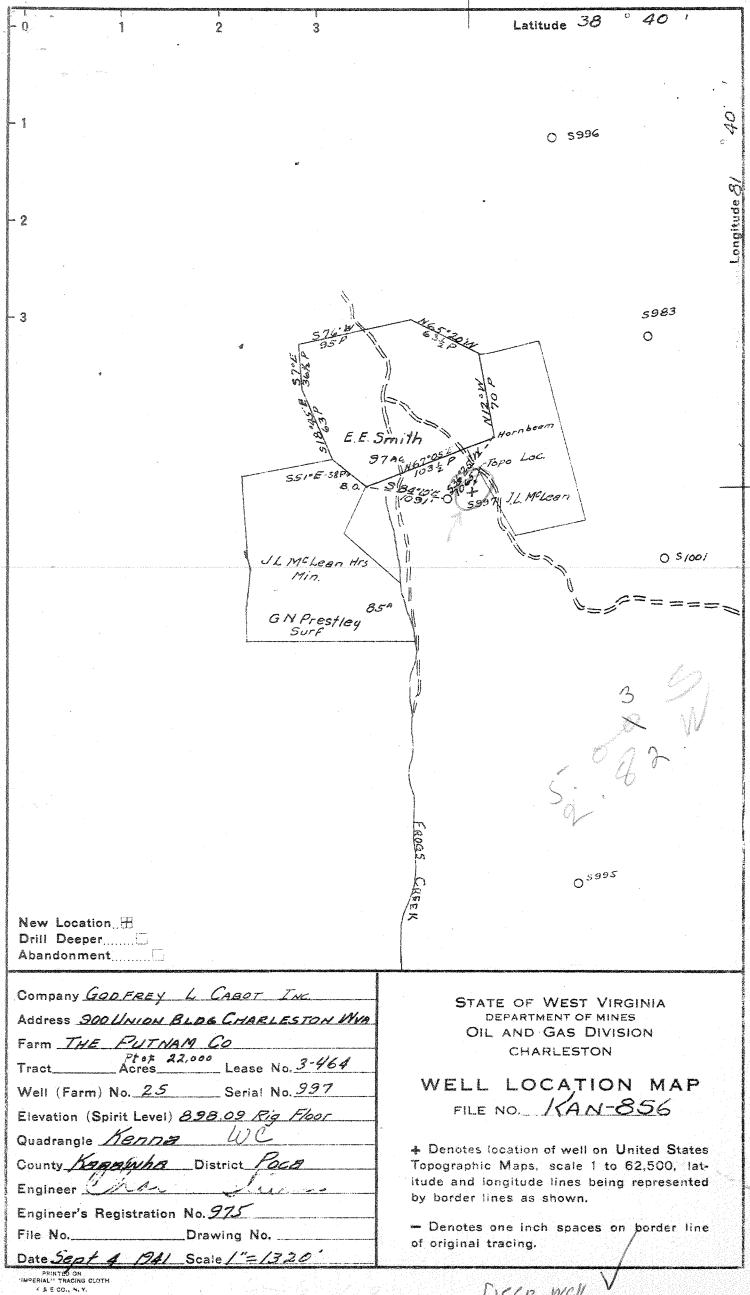


IMPERIAL" TRACING CLOTH

TISM 433D OWNO

6-621k-Poca (Sissonville) 11 18 1885

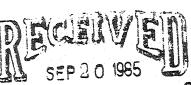


Deep well

UEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION LELL RECORD

Pormit No. KA	N-856			•		Gas	Well	
Company		Godfra	y L. Cabot, I	ínc.		Casi	ing Rocord	
Address		Charle	eston, W. Va.			30:	3/4 892 5/8 2102	892
Farm		Dordon	Company			n =	5/R 9109	
							4996	1006 .
Well No.		40	Sorial No. 9	<i>)</i> 3 1 .	ETOA " OBO	~ 1.	70m C707	
District		Poca	Kanawha Co	ounty	Burger St. Bally Co. Co.	Z ;	3/0 2131	5131 Bot./
Commonced		9-17-4						welded.
Comploted		1-6-42				10 3	3/4™ Casing	; shoc.
Shot		1-6-42	from 5066 to	5081	with 30 qts	,; 8 5/	/8"x10"x16"	B.H.Packer,
			from 5093 to	5098	with 10 qts	. 30 s	sacks aquag	cl. '
Volume		B.S. 0	from 5093 to 34 MCF; 40 Mir	ni A.S.	, 622 MCF	`l -	7" OD Sp.C	risk.Packer,
Rock Prossuro		1825]	lbs, in 71 hrs	s. Ori	sk. Tost Ca	s. 40 s	sacks aquae	ol & 4 sacks
Fresh Tater							ortex	
Salt water			muf to drill;	: 1165	भाग ।			in 2-4-42
D							f.Top 5066	
Surface	۸	ς.	Shalo	3990	4060		f.Top 5130	
Red Rock	5	70	Sl. & Sh.	AOAO	1160 		ducing Sand	
Rou Rock	70				4290	Nati		. Hooseas
Sand			Br. Shalo					i co <i>e</i> n +-
Rod Rock		140	Wh. Slato	-F230	1163 1080		sk. Sand fro	
Slate		150	Br. Shalo	4785	4075		/ init.Prod	.,323 M.C.F.
Rod Rock		175	Slato Spanish	4875		Gas		
Slate		200	Shalo	4900	4974		sk.Sand fro	
Rod Rock	200	240	Corniforous					1.21 M.C.F.
Slate	240	260	Oriskany	5063			Increase	
Red Rock	260	300	Bk. Limo	5097	5112	Tota	al Init.Pro	d.344 M.C.F.
Sand		325	Oriskony	5112	5130	Gas		
Rod Rock	325	360	Lime - X	5130	5130 5137	5.L.		
Sand	360	400	100 CO 10					
Red Rock		455	Total Dopth		5137 S.L.			h de la companya de
Gritty Lime		465	Total Dollar		- - 0,8			
	165	510						
Slate	E30			3.0	23-41 50	0.4H	200.10	
Rod Rock Slate	DIU	525				067		
Slate	242 - 45	545			23 Shut do			
Rod Rock	545	570			31 Bofore			
Sand	570	578		12-	31 50	373	TTS W	
Slate		590			31 50			
Sand	590	635		1-1	-42 50	777	146 M	
Slate	635	655		1-1	-42 50	080	133 M	
Rod Rock	655	680	Cavo	1-1	-42 50	087	133 M	
Slato	680	697		1-3	-42 50	092	119 M	
Lime	697	725				095	140 M	
Slate	725	734				100	119 M	
Coal :	734	740				110	119 M	
Sl. & Sh.	740	790				125	103 M	
Red Rock	790	795				132	84 M	
		307				137		
Limo Sholls				15-0	TTA J.	191	84 M	
Slato	807	G15		~			* O	
Rod Rock	815	820			gos in Orisl			
Sand	820	350			-42 B.			
Slato	850	395		T=6	-42 5 Mins.			
Sand	895	925			10 **	19	660 M	
Slato	925	975			15 "	11	660 M	
Sand	975	990			20 "	10	660 M	
Sl. & Sh.	990	1020			40 😘	19	622 M	
Sand :	1020	1032						
Sl. & Sh.	1032	1145						
Sand	1145	1230						
Limo	1230	1260						
Slato	1260	1265						
Sand	1265	1290						
Sl. & Sh.	1290	1415						
Sand	1415	1435						
Slate	1435	1375						
Salt Sand	1475	1820						
	1820							
Slate		1823						
Maxton	1823	1838						
Little Lime	1838	1855						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Slato	1855	1059						
Big Limo		2032						
Injun 🤲	2032	2073						
Sl. & Sh.	2073	251 0						
Boroa	2510	2525						
Sl. & Sh. Sh.	2525	3990			100			

(Rev 8-61)





DIVISION OF CIL & GAS State of Mest Hirginian DEPARTMENT OF ENERGY Gil und Ces Phision

Septe	mber	18,	1985	
or's				
w	#25			departed
Putnar	n			······································
o. <u>47</u>	. 0:	39	0856	FRAC-
	tor's No Putnar	tor's No. #25 Putnam	tor's No. #25 Putnam	%o. <u>#25</u>

WELL OPERATOR'S REPORT

OF

FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

ELL TYPE: Oil / Gas X/ Liquid Injection (If "Gas," Production X / Underground	/ Wast	e Disposal ge/ Deep	/ / Shal	1œ <u>X</u> /)
OCATION: Elevation: 898 Watershed Fr	rogs Cree	ζ		•
District: Poca County Kanawh	na	Quadrangle	Sissonv:	ille 7½"
CAPANY Cabot Oil & Gas Corp. of W			7 . £L	Cement
DDRESS P.O. Box 454, Glasqow, WV 25086 DESIGNATED AGENT Robert E. Horrell	Casing	Used in		fill up
ADDRESS P.O. Box 454, Glasgow, WV 25086	Tubing	DEITING	in Well	Cu. It.
SURFACE OWNER See Attached Sheet	Size 20-16			
ADDRESS	Cord.		•	
MINERAL RIGHTS CWNER Kanawha Valley Bank	13-10"			
Agent for Frank A. Hardy ADDRESS P.O. Box 1793, Charleston, WV 25326	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Carlos	8 5/8	Consorred		225 SKS.
Register many later to the control of the control o	7	Squeezed cemented	from	4400-4056
W. Hively ADDRESS 223 Pinch Ridge Rd. Elkview, WV 250/1	5 1/2			
PERMIT ISSUED July 9, 1985	4 1/2			
WORKOVER COMMENCED 8/29/85	3			
WORKOVER COMPLETED 9/10/85	2	pulled	5131'	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	2"	Ran	4252.85	w/seating nipple @
REWORKING. VERBAL PERMISSION OBTAINED	अङ्गा			4241.85
ON_				
GEOLOGICAL TARGET FORMATION Huron Sh			pth <u>4148-42</u>	
Depth of campleted well_PBTD=4400 feet				
Water strata depth: Fresh 90 feet;				
Coal seam depths: 734-40	_ Is coa	l being mi	ned in th	e area?
OPEN FLOW DATA				
Producing formation Huron Sh	nale I	ay zone de	pth4148-4	262 fee t
Gas: Initial open flow Mcf/d	Oil:	Initial ope	n flow	Bbl/d
6 hrs Final open flow 183 Mcf/d	:	Final open	flow	Bb1/e
Time of open flow between ini				
Static rock pressure 860 psig(surfa				
		·		
Ψ <u> </u>	r			
(If applicable due to multiple completion		Pav zone di	epth	Iee
(If applicable due to multiple completion Second producing formation.		Pay zone do Initial co	epth en_flow	ree
(If applicable due to multiple completion	oil:	Initial op	en flow	Bbl/

DETAILS OF PERFORMED DATAMAS, FRACTURING OR STIPLIATING, PHYSICAL CHANGE, ETC.

8/29/85 - MIRU Pool Well Service. Pulled 5131' 2-3/8" 10RD tbg. Set 7" BP @ 4845',
dumped 2 sks Cal-seal. Shot 2' (8 holes) @ 4400'. Ran Baker Model "K-1" cmt

retainer on 2-7/8" EUE 8Rd tbg to 4384'. R/U B-J, squeezed 7" w/125 sks 50/50 poz

10% salt, .75% friction reducer & 5# gilsonite/sk. Ran GRC-CHL w/Sonic Seismogram.

TOC 4150'. Perf 2' (8 holes) @ 4120'. R/U B-J, squeezed 7" w/100 sks 50/50 pox,

10% salt, .75% friction reducer, 5# gilsonite/sk. Ran GRC-CHL w/Sonic Seismogram.

TOC 4056'. Perf Huron 4148', 52', 58', 68', 70', 78', 86', 91', 96', 4207', 16',

23', 30', 35', 50', 53', 56' & 62' (18 holes). Ran Baker Model "C" full bore pkr

on 130 jts 2-7/8" EUE tbg, set @ 4106'. R/U B-J. Pump 500 gal 15% HCL. B/D Huron :

shale @ 2310 psi w/N2. Pumped 1,000,000 Scf/N2 @ 40,000 Scf/min. ISIP 2170 psi.

Pumped 8,000 gal foam pad, 90 Q foam. Treated w/300 sks 20/40, max sand concentration

1.5#/gal. Total N2 440,000 Scf @ 20,000 Scf/min. ATP 3916 psi. AIR 30 BPM foam,

T/F 113 bbls, S/L 83 bbls. ISIP 1390 psi, 15 min 1000 psi. Flowed back thru 1/4"

choke. Pulled tubing & packer. Ran 134 WELL LOG jts 2-3/8", 4.6#, 10Rd tubing

4252 85' w/seating nipple @ 4241.85'. 9/13/85 - SICP 860#, SITP 840#, 4 hr open flow

4252.85' w/seating nipple @ 424	41.85'. 9/13	/85 - SICP 86	50#, SITP 840#, 4 hr open flow
FORMATION COLOR HARD OR SOFT	TOP FEET	9	REMARKS Including indication of all fresh and salt water, coal, oil and gas
200 MCF/d, 6 hr open flow 183 l	MCF/d.		
Plugged back Oriskany	PBTD	4400'	
See Attached Original Well Record.			
			•
•			
•			

(Attach separate sheets as necessary)

	Cabot	Oil	& Gas Cor	p. of	WV		
CONTRACTOR STATES	Well-O	era	tor // J.	15.	Hory	a CD	
By:	Robert	: Ė.	Horrell -	Dist.	Prod.	Cl Superinter	ndent
na+e			er 18. 198	15			*

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed gevlogical record of all formations, including that, enquitered in the drilling of e well."

FILE COPY





1)	Date:	July 9	,	19_85
2)	Operator's Well No.	Putnam	#25	7
3)	API Well No	. 47	039	0856/Frac

County

Permit

State

STATE OF WEST VIRGINIA ARTMENT OF MINNEY, OIL AND GAS DIVISION

	6	AII &	gas [NAP	PLICAT	TOF FOR A WILL	L WORK PERMIT		
4) WELL TYP		NE OT (OF MI	NES	,	•			
4) WELL TYP	E: A Oil	WET TO Y	• Cas		/ *	/ Underground	rtorage	/ Deen	/ Shallow X/)
		ation:					Frogs Creek		/ 51101104/)
5) LOCATION		ation:			1140				issonville 7岁'
a well ope				Gas	Corp	of W.V.		AGENT Robert	
Address		P.O. B					Address	P.O. Bo	
Addiess		Glasgo			5086	8150			, w.v. 25086
8) OIL & GAS			•				9) DRILLING CO		,,
Name					7		Name		
Address		223 Pi					Address		CONTROL THAT PRODUCT AND ADDRESS OF THE PRODUCT
		Elkvie		_				.,	
10) PROPOSEI			Drill			deeper	/ Redrill	/ Stimulate2	X/
10, 110, 002.			Plug off	old f	ormation		rate new formation.		
							Plug back O		
11) GEOLOGI	CAL TARC	BET FORN				on Shale 4			
12) Estima	ited depth o	f complete	d well,	PBTI	0 = 44	400 feet			
13) Appro:	ximate trata	depths:	Fresh,				t,	feet.	
14) Appro	ximate coal	seam dept	hs:	734	-40'	Is co	oal being mined in the	area? Yes	/ No/
15) CASING A				WO!	RKOVEI	R			
CASING OR		SPECI	FICATIONS			FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water									
Coal	10		35.7	5		Existing	892	on shoe	Sizes
Intermediate	8 5/8	3	25.5	_		11	2102	on packer	
Production	7		24			26	4996	on packer	Depths set
Tubing	2		3.75			\$1	5131	to be pulle	
Liners								1	Perforations:
tubing	1 1/2	J-55	2.75	X_		Proposed	4300		Top Bottom
						-			
	P. C.				<u></u>				
(1) Set 7	" bride	ge plud	q @ 49	50'	and d	ump 2 sks C	al-seal. (3) Set cement	retainer @ 4400'
(2) Gel h	ole 49	50'-	4400!			(4) Sauce	ze cement 7"	csg. 4430' -	38001.
						OFFICE USE			
						DRILLING PI	ERMII		

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

August 6, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Permit expires .

Bond:	Ageni:	Plat:	Casing	Fee
	ALB	MU	MN	14978

47-039-0856 Frac

Permit number.

NOTE: Keep one copy of this permit posted at the drilling location.

Hice of Oil and Gas File

August 6

Date