

Engineer CHET WATERMAN

Date 1/2/69

Engineer's Registration No. 3788

File No. 69003 - / Drawing No.

Scale /" = 400

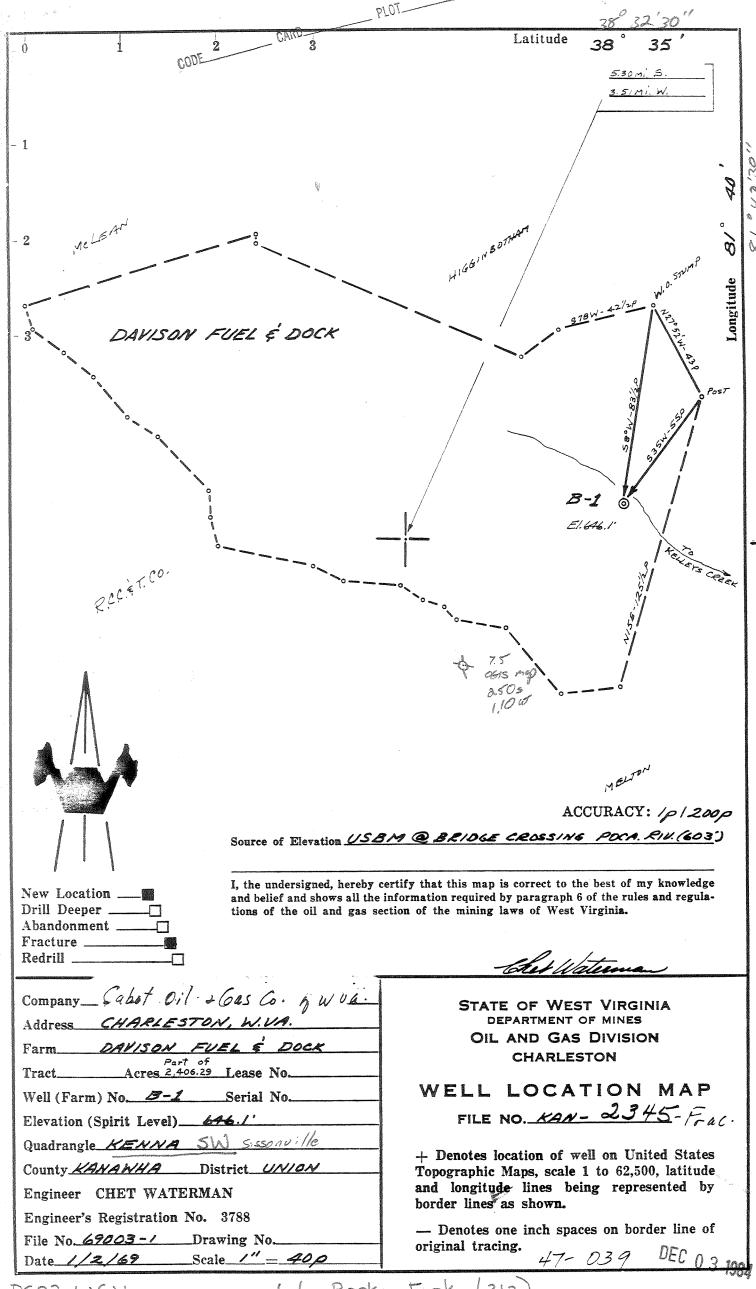
and longitude lines being represented by

- Denotes one inch spaces on border line of

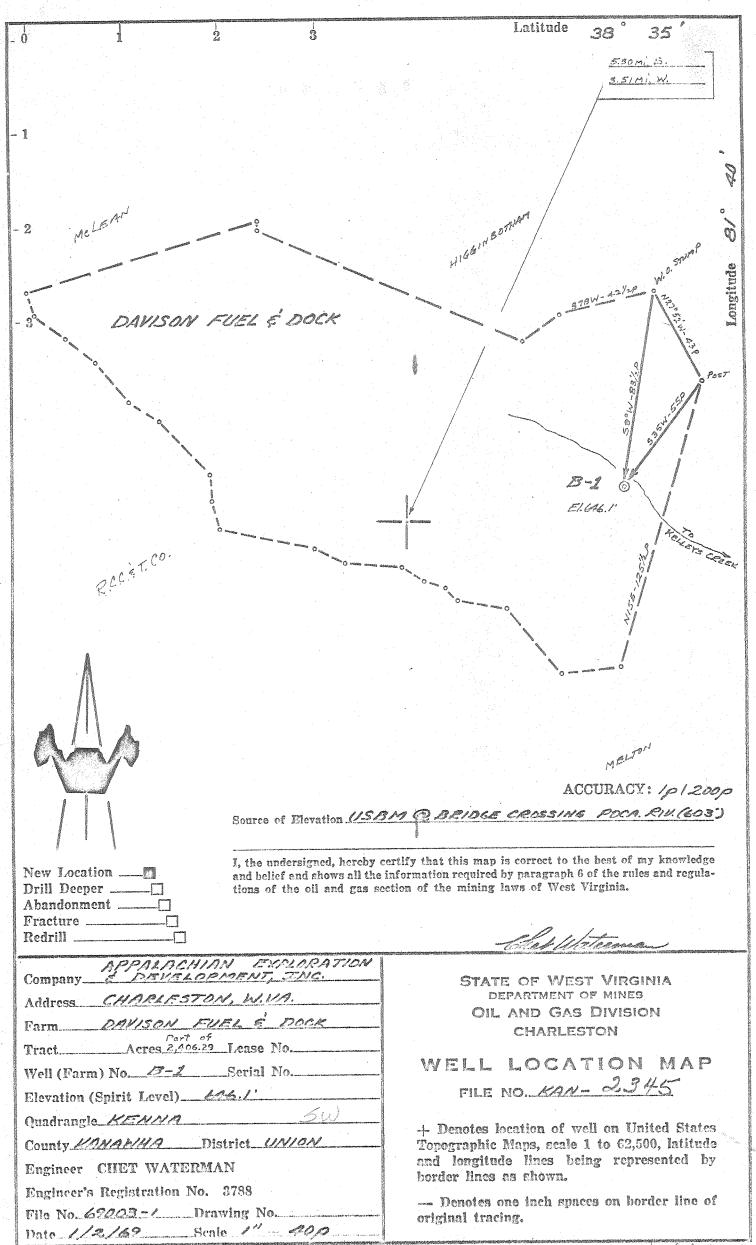
47- 039

border lines as shown.

original tracing.



DEEP WELL OWWO 6-6 Rocky Fork (31)



6-6 Rocky Fork

JAN 2 ( 1959 Deep Well (Newburg)

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and (Newburg)

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## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION 4

Rotary Spudder Cable Tools Storage 

rmit No. Kanawha = 2345

W	Total Control	Long		R	and and and	Cash	O	R	D	
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Oll or (	Gas Well Gas (KIND)
Left in Well	Packers
601	Kind of Packer None
	Size of None

		ek .	
all No. B-1		Elev.	659 KB
strict Union	Cou	<sub>inty</sub> Kanawha	
	Address		
ineral rights are of	word by Davison	n Fuel & Dock North Bend,	: Co.
	February 1 February 2	5. 1969	
ate Shot None	From	То	
ith			***************
pen Flow	/10ths Water in	:	

		NAMES AND ASSOCIATED ASSOCIATED AND ASSOCIATED ASSOCIATED ASSOCIATED ASSOCIATED AND ASSOCIATED ASSOCIAT			
Appalachian I	Exploration & Development, In Charleston, W.Va. 25322	Casing and Tubing	Used in Drilling	Left in Well	Packers
rm Davison Fuel &	Dock Acres.	Size			Kind of Packer None
cation (waters)	Elev. 659 KB	13=3/8	601	601	
strict Union	County Kanawha	10			Size of None
e surface of tract is owned	Address	65/2			Depth set None
inanal minhte are assented by I	Davison Fuel & Dock Co.  North Bend, Ohio		1 :	<b>{</b>	
iling commenced Febr	uary 15, 1969	3			Perf. top None
rilling completed Februarie Shot None Fr	uary 28, 1969	Liners Used			
					Perf. bottom

	/10ths Wate			
	/10ths Merc	: 17	:	Inch
olume	8,000 (e	stimated)	1	Cu. Ft.
ock Pressur	1400		72	hrs.
	ıe			
	IZED (DETAILS).			

Attach copy of cementing record. (See ba	ick or sneer.)
CASING CEMENTED SIZE	No. Ft. Date
Amount of cement used (bags)	
Name of Service Co. Halliburton	

CAP N 3		**************************************		
31	None	bbls., 1st 24 hrs.	COAL WAS ENCOUNT	ERED AT None
ELL	ACIDIZED (DETAILS)	)	FEET	INCHES
			FFFT	INCHES
7000	THE A CHART STORY OF THE CONTROL A TO	(LS) 500 gallons acid, 29.	.000# sand, 30,000	gallons water
THE L	FRACIUKED (DEIAI		Panis a Caraca C	

COAL	WAS	ENCO	UNTERI	ED AT.	None	FEET.	 INCHES
	F	EET		NCHES.		FEET.	 INCHES
	F	PET	m	NCHES		FEET	 INCHES

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51	IJĹ	, ÿ	13	rib	K	REATI	MENI	(IIIIII)	open	LIOW	or	OUIS.,	Ì
										•¢	20	Δ.	
			ven. 50		r em em	A SPINANTENES	THE PROPERTY !	ery a remain at the	THE THE	1	3831		

56,000 MCF/ per day.) Absolute open flow.

Oil, Gas

OCK PRESSURE AFTER TREATMENT None resh Water.....

Depth 5451

roducing Sand Newburg Hard or Colo Fermation andstone and & shale

or	Soft	Тор	Bottom	or Water	Depth	Remarka
EMPONENT PROPERTY OF THE PARTY	Soft	0	59	S. D. C.		
1	23	59	685		grow of I make I	
10	89	685	850	545	C 4 S	
	27 :	850	970	159		
	9.8	970	1270	C may	eragina a granda e	
	8.8	1270	1510	1797		
	2.0	1510	1715		-	
	37	1715	1730	terroller i j		
	88	1730	2158	ال ويدي وجود	talan di San	
	8.8	2158	21.79		Military and the Military	
	8.4	2179	461.5			
	88	4615	5451			
	81	5451	5470	Gas	5451	
		And the second	Name of the last o			:

NPR 1969 RECEIVED West Vilginia Dept. of Mines

APR 1 6 1969

Formation	Color	Hard or Soft	Top 4	Bottom	Oll, Ges or Water	Depth Found	Remarks
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ATE	PLASTIA	577. U.S.J	meters - comprehensive meters and a first consistence of the constitution of the const	Annual Control of the			
-15-69	13-3/8"	45	Allen				
-20-69	8-5/8"	600	Halliburto				**
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-24-69	5-1/2"	200	Halliburto	יתי			
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APPALACHIAN EXPLORATION & DEVELOPMENT, INC.
APPROVED Owner Constitution Superintendent

y District Production Superintendent (Title)



(Rev 8-81)

MAY 1 0 1360

State of West Birginia

Bepariment of Mines Gil und Gas Bivision .

Date	May	14,	19	85	
Operator Well No.	's	B-1			1
Farm Davi	son	Fuel	8	Dock	
API No.					<u>5-FR</u> AC

(Continue on reverse side)

OIL & GAS TAVISION

WELL OPERATOR'S REPORT DEPT. OF MINES OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Underground				
TION: Elevation: 646.1 Watershed	Refreys	hiadrangle	Sissonv	ille
District: Union County Kanawh		عدود مع عمصان		
	•			
				• • •
PANY Cabot Oil & Gas Corp. of West Virginia			Task	Cement
RESS P.O. Box 628, Charleston, WV 25322	Caşing	Used in		fill up
IGNATED AGENT Robert E. Horrell	Tubing	Drilling	in Well	Cu. ft.
RESS P.O. Box 628, Charleston, WV 25322	Size			
FACE CWNER Lena Higgenbotham	20-16 Cond			
Rt. 4, Box 181 RESS Charleston, WV 25312	13-10"			
ERAL RIGHTS OWNER W.B. Cunningham	9 5/8			
DRESS #2 Morris St., Charleston, WV 25301				
	8 5/8			
Hively ADDRESS Elkview, WV 25071	7		cem'd 413	3'-3722'
	5 1/2	Squeeze	tem u 413	- 37.22
RMTT ISSUED November 21, 1984 RKOVER 11/26/84	4 1/2	4174	W/5-1/2"	2-7/8"
TY YANG COMMENCED	X3X 2-7	/B" Parmac	tensior	2-7/8" pkr 6 4174
RKOVER  ONE COMPLETED 12/21/84	XX 1-1		4711.2	291
APPLICABLE: PLUGGING OF DRY HOLE ON	7:-0*6	Skinet sembores		Seating nip @ 4677
NUTTINIOUS PROGRESSION FROM DRILLING UR	Liners used			
WORKING. VERBAL PERMISSION OBTAINED			Oris 4	701-4720'
Topological Control of the Control o	HΔIF	De	pthHS 372	5-3920' feet
COLOGICAL TARGET FORMATION ORISKANY/HURON S	Dotary			
Depth of completed well PB = 4727 feet	RUCALY		· <del>-</del>	
Water strata depth: Fresh feet;	Sarc	1 1 1 1 1 1 1	nad in t	ne area?
Coal seam depths:	_ Is coa	T berud un	ner m. c	. 35
THE CASE WHILE				
on the ontowally	P	ay zone de	epth 4701.	<u>-4720</u> feet
Gas: Initial open flow Mcf/d  hrs. Final open flow (157399 Mcf/d)	Oil: I	nitial op	en flow_	Bbl/d
Gas: Intial open flow	· F	inal open	flow	Bb1/c
Time of open flow between ini	fore let-	final tes	ts	hours
Time of open flow between in	سمه مس		ter t	ours shut i
Static rock pressure 1250 psig(surfa	ice measu	raignt) at	LCL	
11 to milking completion	79Em en 🕽			
HURON SHA	LLE .	Pay zone c	eptn 3/23	
Mcf/d	Oil:	Initial of	seviltom"	77.7.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Oil:	Final oper	J ITOM	
Time of open flow between in			_4_	hare

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

26/84 - MIRU Pool Well Service. Pulled 2-3/8" tbg. Set Baker Pl, 5-1/2" permanent bridge plug

750' and dumped 2 sks Cal-Seal to plug back Newburg. Ran GR, CBL. LTD 4727', TOC 4160'. Shot

eeze perfs from 4130-4132'. R/U HOWCO, & squeeze w/110 sks, Class A, 3% CaCl2 w/3/4 of 1% CFR2.

t squeeze perfs from 3720-3722'. R/U HOWCO, ran 35 sks. 50/50 poz w/10% salt & 3/4 of 1% CFR2.

td not pump out squeeze perfs. Drilled out cement. R/U HOWCO N2 to 5-1/2" & pumped 80,000 Scf

6 6000 Scf/min. for injection test. Perf. Oriskany from 4701-4709' (6 holes), 4713-4720

6 6000 Scf/min. for injection test. Perf. Oriskany from 4701-4709' (6 holes), 4713-4720

holes). Spotted 4 bbl 15% HCL. Dumped 8 bbl. 15 HCL. BD Oriskany @ 3800 psi. Displaced acid

1/4 BPM @ 3800 psi. Flowed back. 12/11/84 - R/U HOWCO. Pumped 1000 gals., 15% HCL. BD Oriskany,

0 psi treated w/290 sks. 20/40 sand, max 1-1/4#/gal, TF 688 bbls, SL 538 bbls, cross-link

id AIR 11 BPM, ATP 4658 psi, max 5400 psi. ISIP 3400 psi, 15 min. - 3100 psi. Perf Shale

5', 3738', 3748', 3790', 3808', 3826', 3835', 3843', 3850', 3875', 3880', 3898', 3906',

0', 3920' (15 holes). Ran 4146' 2-7/8" EUE tbg. w/HOWCO RBP & Rtts pkr. Spotted 750 gal. 15%

. BD Shale @ 2750 psi & treated w/959,000 Scf N2. AIR 20,000 Scf/min N2. ATP 2720 psi, max 2800

. ISIP 1370 psi, 15 min. 1300 psi. Released WEIL LOG thru 1" choke. Rétreived BP & RTTS pkr.

134 jts. 2-7/8" EUE tbg w/Parmco tension pkr. set @ 4167' KB. Ran 139 jts. 1-1/2" w/seating nip.

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
erf jt 4711.25!. Seating nip. @ 467 & reset. Ran 139 jts. 1-1/2" tbg. 242 Mcf/d. SITP 840 psi (Oriskan	7.35.MIRU PO 4711'. SICI /). SICP 1250	ol Well Pulle 900 psi (Sh psi. 4 hr.	d 1-1/2" tbg. Lowered 2-7/8" pkr.
PLUGGED BACK NEWBURG	PBTD	4727	
SEE ATTACHED ORIGINAL WELL RECORD			
from contour maps a rearly logis			
Leves 2184 2020			
4190			
4290 Lines			
Sec. 19.			
desce \$ 2 20			
ovellus 5260		Nago de la constanta de la con	
)			

(Attach separate sheets as necessary)

Cabot	011 & Gas Corporation of West Virginia	
We		
	Dan Dy ME Cluban	
By:	Lavrel DIII- Chustey	
Date:	May 14 1985	
		7.4

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 that, encountered in the drilling of a well."

1)

Date: October 29	19_	84
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2) Operator's Well No. Davison Fuel & Dock B-1

3) API Well No. 47 - 039 - 2345 - FRA (
State County Permit

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

## APPLICATION FOR A WELL WORK PERMIT

4) WELL TY						/ Underground's	отаре	/ Deep	/ Shallow	X
5) LOCATIO		vation:	_			Watershed:				
•							•	Quadrangle:	Sissonv	ille
6) WELL OP	ERATOR_	Cabot	0il &	Gas	Corp	of WV	7) DESIGNATE	DAGENT Rober	t E. Hor	<u>rell</u>
Address	P.O.	Box 6	528				Address	P.O. Box 628		
	Char	lestor	, WV	2532	2`	8130		Charlesten	NV 25322	
8) OIL. & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C	ONTRACTOR = ([	JEIN	/igin
Name R	odney G	a. Dill	on			***************************************	Name	UNKNOWA	/ was G	
Address	P.(	Box	7			APPANANTA AND THE PROPERTY OF	Address		-	
	Wil	liamsi	own,	WV 2	51.87	<u>375-</u> 3747			T 400	
0 PROPOSE	D WELL V	WORK:	Drill		_/ Drill	deeper	/ Redrill	/ Stimulate	x = 198	4
						n X / Perfora				
			Other p	hvsical	change i	n well (specify) P1	ig back New	burg Oil&	GAS DIVI	SION
(1) GEOLOGI	CAL TAR	GET FOR				any & Huron :			DEM	INICO
12) Estima								The state of the s	141	IIVES
I3) Appro	ximate trat	a denths:	Fresh	N	/R			feet		
								e area? Yes	/ No	X /
15) CASING								1 00		
CASING OR	11		IFICATION:			li footage i	TFDVAIS	I CEMENT FILL-UP	il PAC	CNERS
TUBING TYPE	G:		Weight	2				OR SACKS		OPOSED
C	1311	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		ker Model I
Conductor	113			<b> </b>	<b></b>	EXISTING	00	45 sks.	Kinds Da	Ker riouel i
Fresh water	011				-	EVICTING	17021	600 als	- 2.2/	0 , 5 1/2
Coal	8"			<b> </b>		EXISTING	1793	600 sks.	Sizes 2-3/	$\frac{8 \times 5 - 1/2}{2}$
Intermediate	F 7 (0)		3 7 11			EVICTINO	FA301	200 -11-	A	0001
Production	0	" J-55	1.7#			<u>EXISTING</u>	5430'	200 sks.	Depths set 4	000.
Tubing	2"					EXISTING	5434'	to be pulled	11	
Liners	1				-				Perforations:	
	1		l	ļ					Тор	Bottom
Tubing	2"		4.7	<u> </u>	-	<u>PROPOSED</u>	4750	ON PACKER		
T. Dumr	Comen	t plug	from	1 5470	<u> </u>  5000	tp plug ba	ck Newbura			
						-3500'.	ck nemberg.			
Z. Jque		HEIIC J	-1/2	csy.	7100	***************************************	\	A mallowall to the state of the		
					·····	OFFICE USE C				
						DRILLING PE	KMII			
Permit number_	4	47-039	-2345-	FRAC		_		November	21,	19 84
						•		Dat	e	
quirements subj No. 8) Prior to 1	ect to the co he construc	onditions of ro	contained a <b>ds, locat</b> i	herein ons and	and on the pits for	ne reverse hereof. No	tification must be to In addition, the v	ted to drill in accordan given to the District Oil well operator or his con	and Gas Insp	ector, (Refer to
	ork is as d	escribed in	the Notic	e and A	Applicati	on, plat, and reclama	tion plan, subject	to any modifications as	nd conditions	specified on the
reverse hereof.	Nove	mber 2	1 198	6						
Permit expires		MOCI 2	-, -,			unless well	work is commence	d prior to that date and	prosecuted wi	th due diligence.
Bond:	Agen	it:   ]	Plat:	Casi	ng	Fee				2
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A10777		2 43. 1		_ 4 45	L		.A.din	ninistrator, Office of O	il and Gas	
NOTE: Keep	one copy of	this perm	nt posted	at the c	iriiing lo	cation.		•		File
		Sac	the rever	e side s	of the Al	PPLICANT'S COPY	for instructions to	the well operator		2 224