



hours shut in

FORM IV-35 (Reverse)

[08-78]

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

8/28/79 - Broke down Gordon with 2550#. Pumped 1000 gals. 15% HCL at 10 BPM at 2700#. 8/29/79 - Tracked Condensity 57.

8/29/79 - Treated Gordon with 15,000# 80/100 (Maximum conc. 6#/gal.) and 45,000# 20/40 (Maximum conc. 8#/gal.). Average injection rate 7.7 BPM; with nitrogen, 25.4 BPM. Average treating pressure 3625#. Total fluid 454 bbls. (310 bbls. S/L) 715,000 cubic feet of nitrogen at 15,000 cubic feet/min. Used 70% quality foam. ISIP 2700#.

WELL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Feet	Including indicati	An of 573 6
					and salt water, ec	al, cil and ga
Shale			0	308		
Sand			308	350		
Shale			350	5 2 4		
Sand			524	622		
Shale			622	814		
Coal			814	816		
Shale	İ		816	980		
Coal			980	984		
and			984	1020		
hale		İ	1020	1031		
Coal 🛓			1031	1034		
hale	1		1034	1066		
oal			1066	1070		
hale			1070	1540		
and			1540	1560	Show gas	
hale			1560	1596	_	, i.e.
and			1596	1620		
hale			1620	1898		
and			1898	1938		
h al e		1	1938	1996		
and		1	1996	2014		
hale		ĺ	2014	2164		
andy Lime		l	2164	2220		
hale	1		2220	2278		
njun Sand			2278	2440		`
hale	1.		2440	2782		•
erea			2782	2804		
hale		l	2804	3037		•
ordon		į	3037	3086	E. Log	
hale			3086	T.D.	D.T.D. 3180'	
					L.T.D. 3201'	
						en e
	1	į.	1	i		THE STATE OF THE S

(Attach separate sheets to complete as necessary)

APPALACHIAN EXPLORATION & DEVELOPMENT, INC.

By James L. Cramblett

Regional Manager, Drilling and Production

NOTE: Regulation C.OS(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial resona of all formations, including soal, encountered in the drifting of a wall "

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FORM IV-2	
(Obverse)	

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

Date:	June	14	

[08**-**78]

Opera	ator	' ^s Hally	_		
Well	No.	Hally	J.	Hubbs	#1

, 19<u>79</u>

[00-70]	OIL AND	GAS WELL PER	MIT APPLICATION	<u> </u>	χτι <u>ς</u> σ. παυυσ πι
WELL TYPE:	011/ Gas X /			API Well No.	#7 - 051 - 0662 State County Form
	(If "Gas", Production/	Underground	storage /	Deen / Sh	allaw Y ()
LOCATION:	Elevation: 1369'	Watershed: U	pper Bowman R	un	
	District: Meade	County: M	arshall (Quadrangle: Glen	Faston
WELL OPERATE	Appalachian Exploration	&	4		
	Development, Inc. P. 0. Box 628			R. P. Parso	
Addres	Charleston, WV 25322		Address	P. O. Box 6	
	char rescon, wy 25522			Charleston,	WV 25322
OIL & GAS	ER Hally J. Hubbs		GOAL ORERAMON	Consolidation (Coal
	Route 1, Box 243			Attn: Mr. Bil	l YavaTek
Addi CS	Moundsville, WV 26041		Address	Box 537 Moundsville, W	
Acreage	84.668	4-16	COAL ÖWNER(S)	/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	Kenneth L. Neely			Same as shown a	
	Route 1, Box 126		Address		
	Glen Easton, WV 26039		:		
Acreage	84.668		Name		·
	IF MADE) TO:		***************************************		1
Name					
			COAL LESSEE W	ITH DECLARATION ON	
				•	•
DIL & GAS IN	SPECTOR TO BE NOTIFIED		Address		
Name	ell/		•	DISCE	MERCH
Address			; · · ·		4
	V	,	•	JUL 3 0	
መኤ	o undonei med usli sassutas da			•	
	e undersigned well operator is			OIL O CACI	
	er a deed/ lease <u>X /</u> well operator from <u>McCombs</u> , (DEPT. OF	MINES
	d, lease, or other contract ha				•
	August 8 , 1975 , in t			ho County Complea	ton of Manchall
			•		
	Virginia, in Bo D WORK: Drill X / Drill dee		414		
, , , , , , , , , , , , , , , , , , , ,	Plug off old formatio		* *		/
	Other physical change				
					* · · · · · · · · · · · · · · · · · · ·
	planned as shown on	the work ord		erse side hereof.	Total States
The	above named coal operator, co			•	ified that any
	cy wish to make or are required				
	nin fifteen (15) days after the				
	pies of this Permit Application				
	l mail or delivered by hand to				
	the day of the mailing or del				
	Vest Virginia.		• •		

LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO: EST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 615 WASHINGTON STREET EAST HARLESTON, WV 25311

ELEPHONE: (304) 348-3092

BLANKET BOND

Appalachian Exploration & Development, Inc. Well Operator

District Production Superintendent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	ITRACTO	R (IF	KNOWN)		(Clint Hurt			
				Addres	s _	P. O. Box 19	73		
						Midland, TX	79702		
GEOLOGICAL T	ARGET	FORMAT:	ION.	Gordo	n				
						3200	ſeet	Rotary X /	Cable tools/
								t,feet.	
									? Yes X / No
					952 1072				
CASING AND T	MBING :						THERMALO	# OFWEND DITE :	
TUBING TYPE		1	FICATION Weight per ft	1 1	Used	For drilling	INTERVALS Left in we	CEMENT FILL-UI OR SACKS ll (Cubic feet)	
Conductor	3-3/8					30'	30'	5	Kinds
Fresh water	9-5/8		36#			300'	300'	100	
Coal									Sizes
Intermediate	7"		17#			2475	2475'	200	
Production	4-1/2		9.5#			3200'	3200'	100	Depths set
Tubing	;			,			ļ		
Liners									Perforations:
									Top Botton.
						· · · · · · · · · · · · · · · · · · ·	 		,
by Re there appli previ the co 200 fe	gulation of the cable to cable	on 11, other co the caid on requir the prosepara	(ii) a securit reclamo the so ed by C oposed te Form	bond ty allo ation in the west ode § well.	in or owed requi il, 1 22-4 shal	ne of the for by Code § 22 ired by Code the fee requi -8a from the l not be requ	ms prescribe -4-2, (iii) § 22-4-12b or red by Code owner of an	ed by Regulation Form IV-9, "Recl and Regulation 23	lamation Plan", 3, (iv) unless (v) if applicable, dwelling within ulating a well
A of fo	ll provis the W dril	ons bei Va. Co ling	ng in acode, the	cordance location . This p	e with is he	h Chapter 22, reby approved shall expire if		-	
	Deputy	Director	Oil	Gas Div	ision		, — en		
or	coal 1	essee	uiver n who has	nust be	e con	npleted by th a declaratio (15) days of WAIVE	n under Code receipt thei	ator and by any $c \le $ 22-4-20, if t	coal owner the permit
location has well location the work prop	examin n, the posed t	ed thi well l o be d	ocation	sed we has b this I	ell l been locat	/ owner location. If added to the tion, provide	less a mine map mine map.	exists which cov	coal under this well vers the area of the has no objection to aplied with all
						* *	•		
te:		1	19			_			

September 20 , 19<u>84</u>

FORM IV-38 [08-78]

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

Operator's Well No. Hally Hubbs #] $\frac{47}{\text{State}} - \frac{051}{\text{County}} - \frac{0663P}{\text{Permit}}$ API Well No.

AFFIDATION PLUGGING AND FILLING WELL
ELL TYPE: Oil/ Gas_X_/ Liquid Injection/ Waste Disposal/
(If "Gas", Production χ / Underground storage/ Deep/ Shallow χ /
OCATION: Elevation: 1369 Watershed: Upper Bowman Run
District: <u>Meade</u> County: <u>Marshall</u> Quadrangle: <u>Glen Easton</u>
ELL OPERATOR Compatible Coll & Gas Corp. of WV DESIGNATED AGENT Robert E. Horrell
ell Operator Cabol Off a dus off pro-
Address F.U. box 025
Charleston, West Virginia 25322 Charleston, West Virginia 25322
TATE OF WEST VIRGINIA,)
OUNTY OF KANAWHA)
Mark McCormick and Mike Wine (Pool Well Service)
eing first duly sworn according to law, depose and say that they are experienced in the work of
olugging and filling oil and gas wells; that they were employed by <u>Cabot Oil & Gas Corp. Of WV</u>
the well operator, and participated in the work of plugging and filling the above well; that the work
vas commenced on May 22, 1984, and completed on May 22, 1984, in the
Collowing manner:
PERMITTED WORK: Plug and abandon X / Clean out and replug/
PLUGGING MATERIALS COAL SEAMS (NAMES AND DEPTHS)
Type of Other Cement Materials Depth Thickness 814', 980', 1031', 1066'
Class A w/ 3% CaCl ₂ 3050 250
8.7# Ge1 2800 400 ————————————————————————————————
Class A w/ 3% CaCl ₂ 2405 100
8.7# Gel 2305 2205 DESCRIPTION OF WELL MONUMENT
Class A w/ 3% CaCl 100 to surface 7" casing bearing API number
Bridge Plugs UsedType and Depth
Baker Model S 4-1/2" Bridge Plug @
2750'.
Cut 4-1/2" @ 2310'. 4-8-89
VENT PIPE
MISCELLANEOUS MATERIALS
CASING LOST 41 (878') 7" (2543')
Owner: Well Op'r/ Contractor_X/ Mark Q. M. Commick(SEAL.
Rig time: 1 days plus hours
1 Will Warre
and the hafara mathic
Subscribed and sworn to before me this
My commission expires March 5, 1989.

OCT 0 9 1984