

FORM IV-35

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

G.32.40	August 22 1979	7 7
rat	or's	

Ope Well No. Cole #2

[08-78					WEI	LL OPERATOR'S	REPORT 6	APT Wel	No 57 - 0	17 - 215
[00-70	a)	DRIL	LING, F	HACTU	RING	OF AND/OR STIMUL	ATING, OR PHYS	BIJAL CHANGE	No. 47 - 0 State Co	unty Per
*										
WELL TYPE:	011	_/ (Gas <u>x</u>	_/	Liquid	Injection	/ Waste I	isposal/		
	(If "G	as", Pi	roductio	n X	/	Underground	storage/	Deep/	Shallow X	/)
LOCATION:	Elevat	lon:	1023'		h	atershed:	Buck Run			
	Distri	et:	Cove		<u>.</u>	County: <u>Dod</u>	dridge G	uadrangle:	New Milton	7.5
							•			
					7			ENT Robert R.	· · · · · · · · · · · · · · · · · · ·	
Address	<u>P</u>	O Box	86			and the same of the same of the same	Address	P O Box 86	<u> </u>	
			k. WV					Sand Fork,		
DEBMIMMED NO	- אם	.477 V	7 / °c	nvert		/ Drill deer	ner / Red		cours and Ohio	ulate
I ENHILLED WO	nn. Di	111 <u> </u>			·	Pantan	to not format	ILE GE	3311	THE PLANT OF THE PARTY OF THE P
								OCT 15		
	Ut	ner pr	iysicai	cnan	ge in	well (Special	y)	<u> </u>	13/3	
								OIL & GAS D	NVISION	
PERMIT ISSUE	D ON _	_July	<u> 16 </u>		_, 19		OIL & GAS IN:	DEPTORTE	MINES	and the second
(IF APPLICATION OF THE CONTINU			G OF DR'					Paul Garrett		- Mariana and American
			PERMISS				Address	Clarksburg,	WV	
			_, 19					622-3871		
GEOLOGICAL T	ARGET	FORMAT	ION:	Elk				Depth5	470 5	eet
Depth o	f comp	leted 1	well, _	54	03	_ feet Ro	tary <u>X</u> / (Cable Tools		
Water s	trata	depth:	Fresh	,_122	fee	et; salt,	feet.			
Coal se	am dep	ths: _	None_			Is coal b	eing mined in	the area? No		
Work wa	s comm	enced _	Augu:	st 17	1	, 19 <u>79</u> ,	and completed	August 21	, 19_	79
·										
CASING AND T	.NRTNG				6	Action				
CASING OR TUBING TYPE		1	IFICATI: Weight				1	CEMENT FILL-UP OR SACKS	PACI	KERS
	Size	Grade	per ft	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor									Kinds	
Fresh water	8 5/8					1170	1170	To surface		
Coal			-						Sizes	adarphoradisas (dependencias desirios de
Intermediate										<u> </u>
Production	41/2						5334	150 sks	Depths set	and the second s
Tubing		1.								
Liners									Perforations	3:
									Top	Bottom
		:								
							<u> </u>			
OPEN FLOW DA	ΤA				S. Salah					
Produci	ng form	nation	Ben:	son				Pay zone depth	5274	fee:
			1.00	- 1				open flow,		
								pen flow,		
						- 178 - 179 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 - 189 -		ts, hours		
c ←	atio m							afterhour.		
[If app							cavar chicito j		u u mari mara a ser er minis a	
Second :				-				Pay zone depth	/051	faat
	•	-						open flow,		
						Mcf/d		pen flow,	Take the second of the second	eri Virgi
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ L71	⇔د ∪اب∞	e WOLL in		リプリ		ب معادد د		~~~	

Time of open flow between initial and final tests, 3 hours Static rock pressure, 1810 psig (surface measurement) after 52 hours shut in ORM IV-35 Reverse)

08-78]

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

ractured September 1, 1979

11k - 20,000 1b. 80/100 sand 40,000 1b. 20/40 sand 19 BPM at 20301b. 2000 1b. breakdown Benson - 20,000 lb. 80/100 sand 40,000 lb. 20/40 sand 14.3 BPM at 1595 lb. 2800 lb. breakdown

'erforations - 5071 - 5274, 8 holes

Perforations - 4948 - 4951, 7 holes

FELL LOG

FORMATION	Color	llard or Soft	6	Bottom	Remarks Including indication of all fresh
No. of the second control of the second cont	COTOL	1 201£	Top Feet	Feet	and salt water, coal, oil and gas
Surface (N) P I (			0.0	100	y Sa.
Shale			100	122	
Sand			122	127	Water
Shale was a same			172	149	
Red Rock			149 🚫	168 -	
Shale			168	309	
Red Rock			309	322	
Shale			322	689	
Red Rock		1.0	689	714	
Sand			714	722	
Shale			722	1082	
Sand			1082	1124	
Shale			1124	1420	Bartharin (1976)
Sand			1420	1505	
Shale			1505	1900	
Sandy Shale			1900	2008	
Sand			2008	2040	**************************************
Lime			- 2040	2068	
Slate			2068	2080	• ***
Lime			- 2080	2115	
Big Injun			2115	2215	,一种"大"的一种"大"。 1987年——第二十二章 "大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"的
Shale			2215	2270	
Sandy Shale			2270	2400	Show gas
Shale			2400	2476	
Sand			- 2476	2495	
Shale			2495	3020	
Sandy Shale		MOney and	3020	3040	
Shale			3040	3395	
Sandy Shale			3395	3425	
Shale			3425	4046	
Sandy Shale			4046	4060	Show gas
Shale			4060	4490	•
Sandy Shale		100	4490	4526	Show gas
Shale			4526	4940	
Sandy Shale		Spenan	4940	4960	Show gas
Shale		- · · · · · · · · · · · · · · · · · · ·	4960	5065	
Sandy Shale			5065	5090	Show gas
Shale	Some		5090	5190	
Sandy Shale EIK			5190	5295	Show gas
Shale			5295	5403	DIIDA EUD
Total Depth	5403			ll Petrole	um Company
			Well Ope	rator	

ВУ

Robert K. Johes

It.s

Partner

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

FORM IV-2 (Obverse)	STATE OF WE DEPARTMENT OF MINES,	EST VIRGINIA . OIL AND GAS DIVIST	Date: <u>July 11</u> , 1979
[08-78] (O) P	W	PERMIT APPLICATION	Operator's Well No. Cole #2
	And the second s		API Well No. 47 - 017 - 2452
WELL TYPE: Oil/ Gas	- X / - 1 "		State Dounty Permi The Associate States
(If "Gas", Produ	ction <u>X</u> / Undergro	ound storage/	Deep/ Shellow X /)
	3 Watershed		्राक्षिक्षक्षक्ष विभागिकार्यक्षक्षा कृष्टिक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षे
District: Cove	County:	Doddridge Qua	adrangle: New Milton 7.5
ELL OPERATOR Rockwell Pet	roleum Company	DESIGNATED AGEN	Robert R. Jones
Address P O Box 86	-	Address	P O Box 86
Sand Fork, W	V 26430		Sand Fork, WV 26430
IL & GAS OYALTY OWNER <u>Edmund G. Co</u>	le, et al	COAL OPERATOR _	
Address <u>General Deli</u>		Address	
Leopold, WV	•	-	
Acreage 96		COAL OWNER(S) W	ITH DECLARATION ON RECORD:
URFACE OWNER Edmung G. Co.			
Address <u>General Deli</u>	;	,	
Leopold, WV	_	Address	
	20362		
Acreage 96		Name	
IELD SALE (IF MADE) TO:	Andrew State (1997)	Address	
Address		COAL LESSEE WITH	H DECLARATION ON RECORD:
L & GAS INSPECTOR TO BE NOT	IF1ED	Address	
me Paul Garrett			
Address <u>Clarksburg</u> , W	V		JUL 1 6 1979
622-3871	•		
			OR & CAS DIVISION
* **			or gas purnoses at the stove
4			February 7 , 19 79 , to the
dersigned well operator from	m <u>Edmund, Cole, M</u>	arie Cole, and oth	ers -
f said deed, lease, or other	contract has been re-	corded:]	en de la companya del companya del companya de la companya del companya de la companya de la companya dela companya della comp
corded on <u>March 29</u> , ]	19 79, in the office	of the Clerk of the	County Commission of Doddridge
unty, West Virginia, in <u>Le</u>	ase Book 108_	at page 142	A permit is requested as follows:
PROPOSED WORK: Drill X	/ Drill deeper/	Redrill / Fract	ure or stimulate/
Plug off	old formation/	Perforate new forma	tion/
Other phy	sical change in well	(specify)	
planned	l as shown on the work	order on the revers	e side hereof.
The above named coal	operator, coal owner	(s). and coal lessee	are hereby notified that any
			st be filed with the Department
Mines within fifteen (15) d			· · · · · · · · · · · · · · · · · · ·
	production of the control of the con		eclamation plan have been mailed
*			
			r, coal owner(s), and coal lesse-
	iiing or delivery of t	nis rermit Applicat	ion to the Department of Mines at
rleston, West Virginia.		The second secon	· was not considerable consistency and property. The considerable cons
ASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:	- · · · · · · · · · · · · · · · · · · ·		
T VIRGINIA OIL AND GAS		Rockwell Petr	Coleum Company Well Operator
CONSERVATION COMMISSION 5 WASHINGTON STREET EAST	BLANKET BOND		
RLESTON, WV 25311		By Kofal	
EPHONE: (304) 348-3092	i	Pohert D. Jone	

Its _

## PROPOSED WORK ORDER

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

DRILLING COM	NTRACTO	R (IF	KNOWN)		Unio	n Drilling	Inc.	and the same of th	e grave e Tr	
				Addre	8S <u> </u>	Drawer 40				
						Buckhannon,	WV 26201			
GEOLOGICAL T	'A DOEM	PADMAM	TON I	71 <b>b</b>		**				
							Coat	Rotary x /	Coble tool	
							-	t,feet.	Caute Coot	/
								mined in the are	a? Vas	/ No X
1,552,012			an acpo				, and a firing i	* *		
CASING AND T	'UBING	PROGRA	M							
CASING OR TUBING TYPE	STATE OF THE STATE	<b>1</b>	IFICATI  Weight	1	1		INTERVALS	OR SACKS		ACKERS
	Size	Grade	per ft	New	Used	For drilling	g Left in we	ll (Cubic feet)		- 200 - 200
Conductor									Kinds	
Fresh water	8 5/	\$ 				1200'	1200'	To surface		* 1985 * 15 mile
Coal									Sizes	
Intermediate	1						50	300		
Production	4½						5425	160 sks	Depths set	
Tubing	t t									- Grafts
liners	II.								Perforation -	
burgansus nganga jaun angananananan an ayaga naharib haribbaribi i							-		Top	Botton:
							900			
appli previ the co 200 fe where is not All pro of the	cable cously present of Appropriate Approp	to the paid or require the present the pre	reclament the seed by Coposed te Form	ation  ame we  ode §  well.  IV-2  latin  make  make  make  is permi	shall shall the Charles	ired by Code the fee requ 1-8a from the	§ 22-4-12b of ired by Code e owner of an quired for fr	Form IV-9, "Recand Regulation 2 § 22-4-12a, and y water well or acturing or stimer which a permisith.	3, (iv) unle (v) if appl dvelling wi nulating a w	ess licatle, thin ell
The control of the co	46500									
Th.	e follo	owing i lessee	who has	nust b s reco	e co orded	a declarati		ator and by any e § 22-4-20, if reof:		
						WAIVE	<u>R</u>		* · · · · · · · · · · · · · · · · · · ·	
ocation has well location he work pro-	examing, the posed t	well :	ls prope location lone at	osed w n has this	ell been loca	added to th	f a mine map e mine man. led, the well	see / of the exists which co The undersigned onerator has cong regulations.	vers the are	ea of the ection to
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e:			, 19					-		- 1
Ph							Dy			Reference (1970)