



Sinte of Mest Airginin Pepartment of Mines Gil und Gas Division

Date	une 4. 1986	
Operator'	8	
Well No	Crumrine #3	
Farm	rumrine	
API No.	47 095 -	1128

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	Watershed_				
District: Ellswor	rth County Ty	ler	Quadrangle	Shirley	7.5
	(DAG)	•			
PANY Drilling Appalachian Co			T		10
RESS Rte. 1, Box 51A, Cai		Casing	Used in	Left	Cement fill up
IGNATED AGENT Kenneth Ma		Tubing	Drilling	in Well	
RESS Rt. 1, Box 51A, Cair		Size			
FACE OWNER Charles Crumr	ine and John Crum	rih 20-16 Cond.			
RESS Middlebourne, W V 26	149	13-10"		•	
ERAL RIGHIS OWNER Charles					
RESS Middlebourne, WV 2	6149	8 5/8			
AND GAS INSPECTOR FOR THIS		the 7			
iddlebourne ADDRESS West Va.	26149		420'	420 '	To surface
MIT ISSUED February 4,	•	5 1/2			
LLING COMMENCED March 25, 1		4 1/2	2545	2545 '	105 sacks
		3			
LLING COMPLETED March 28,		2			
APPLICABLE: PLUGGING OF DI VIINUOUS PROGRESSION FROM DI		Liners			
ORKING. VERBAL PERMISSION		used			
					<u> </u>
LOGICAL TARGET FORMATION_	Gordon	•	Dept	th 3200	feet
Depth of completed well_		Rotary X	/ Cable	2 Tools	
Water strata depth: Free					•
Coal seam depths: Nor		<u> </u>			area? No

N FLOW DATA	Passa	Day	, rono doni	-h 24	87 F oot
Producing formation				•	
Gas: Initial open flow					
Final open flow			_		
and the second s	flow between in	MgA - 1 - An	ed on the second	eres.	
Static rock pressure	psig(surfa	ace measurem	ent) after	rhou	irs shut in
	ltiple completion				
(If applicable due to mu				-h 1020	feet
(If applicable due to mu Second producing formation	on Big Inj	un Pay	zone cep	1920	reer
		The state of the s			

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

1st stage:

Water and Sand frac Weir and Berea 40,000 lbs. 20/40 sand 550 bbls. treated water 500 gallons HCL 15% 11 perforations 2nd stage:

30,000 lbs. 20/40 sand

400 bbls. treated water 500 gallons 15% HCL

4 perforations

WELL LOG

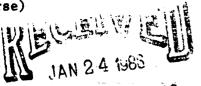
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
n. i	. 0	20	
Red	21	79	
Sand	80	89	
Red Lime	90	9 9	•
Sand	100	234	
Slate	235	250	
Red	251	284	
Slate	285	339	
Red	340	354	
slate	355	396	
Red	397	414	
Slate	415	694	
Sand	695	724	
Slatė	725	809	
Red	810	815	:
Slate	816	866	
Red	867	1019	
Slate	1020	1030	
Sand	1030	1082	
Slate	1082	1090	
Sand	1091	1249	
Slate, First Salt Sand	1250	1349	•
Sandy, Second Salt Sand	1350	1449	
Slate and sand, 3rd salt sa		1469	Fluoresence
Slate	1470	1514	
Sand	1515	1574	
Slate	1575	1770	· •
Sand, Maxon	1771	1820	
Big Lime	1821	1915	
Slate, Big Lime	1915	1931	
Big Injun	1932	2149	Shows
Sand and Lime	2150	2249	
Sand , Weir	2250	2370	ŀ
Sand and Lime	2371	2465	Fluorescence .
Slate	2466	2479	
Sand	2480	2489	
Slate	2490	2585	Traces of pyrites ; good shows of
Sand	2586	2620	
Slate	2621	2918	
Gordon Sand	2919	2929	•
Slate	2930	3025	

•

By: Kenneth Mason
June 4, 1986

Note: Regulation 2.02(i) provides as follows:
"The term 'loa' or 'well log' shall mean a systematic

7/85





1)	Date:	Jan.	17,			19 86
2)	Operator's Well No	Crum	ine	# 3		
3)	API Well No.	47	_	95	_	1128
		State		County		Permit

	177	'NAL	2419	50 -		STAT	E OF WEST V	IRGINIA	e e e e	· · · · · · · · · · · · · · · · · · ·
	DIV	ISION	OF OIL	& GABE ENERG	PARTI	MENT OF PPLICATI	ENERGY, OII ON FOR A WEL	lkginia L AND GAS DIVI <u>.L WORK PERMIT</u>	SION	
4)	WELL TY	PE· A	Oil .	X / c	as X	,				
٦,	WEEL III						/ Underground	Storage	/ Deep	_/ Shallow X /)
5)	LOCATIO		Elevation:		1005			Middle 1		
•		1	District: _	Eller	worth	311	County:	Tyler	Quadrangle:	Shirley 7.5
6)	WELL OP	ERATO	RDrill	ing App	Co.	rp.CODE	: 14425	7) DESIGNATED	AGENT Kennet	h R. Mason
	Address			, Box				Address	•	Box 51A
			Cairo	, WV	26337				Cairo,	WV 26337
8)	OIL & GA	S INSPE	ECTOR T	O BE NOT	IFIED			9) DRILLING CO	NTRACTOR:	
	Name							NameCli	nt Burt	
	Address		Middle	hourne	, WV	26149		Address	-Charleston	
	•	_							West Virgin	nia
10)	PROPOSE	D WEL	L WORK	Drill	<u> </u>	_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X</u>
				•		_		rate new formation_		
11)	GEOLOGI						419			
	12) Estima	-	•	•		200'	feet			
	13) Appro		-			55'	· ·	.,		
	14) Appro			-	No	ne	Is co	oal being mined in the	area? Yes	/ NoX/
	CASING A	ND TU								
	ISING OR JBING TYPE		SI	ECIFICATIO! Weight	NS .		FOOTAGE	INTERVALS	CEMENT FILLUP OR SACKS	PACKERS
		State	Grad		New	Used	For drilling	Left in well	(Cubic feet)	
Con	ductor	11 3	/4 H-4	0 42	x_	 	30'	0'		Kinds
Fres	h water	 				 				
Coa	J									Sizes
inte	rmediate	8.5	/ <u>8_J-</u> :	5 20	x_		400'	400'		By CULE 15
Proc	duction	4 1	/2 J-	5 10½	x_		3200'	3200'	CTS Neat by	
Tub	ing	 							rule 15.01	To Cover S
Line	ers									Perforations: SONOS
		<u> </u>			<u> </u>					Top Bottom BC
		 			<u>. </u>					
		I			<u> </u>					
						C	FFICE USE	ONLY		
					,	D	RILLING PE	RMIT		
Реп	mit number_	47-	095-	L 12 8				-	Fe Dat	bruary 4 19 86
This	permit cove	ring the	well oper	ator and we	ell locati	on shown h	pelow is evidence	of permission grante	d to drill in accordan	ice with the pertinent legal re-
quir	ements subje	ct to the	condition	s contained	herein	and on the	reverse hereof No	tification must be give	en to the District Oil	and Gas Inspector, (Refer to tractor shall notify the proper
io. E	B) Prior to the	e constri	action of	oads, locati	ons and	pits for an	y permitted work.	In addition, the we	ell operator or his con	tractor shall notify the proper
	_	-			-			•		
The	permitted warse hereof.	ork is as	described	in the Noti	ice and A	Application	, plat, and reclam	ation plan, subject to	any modifications a	nd conditions specified on the
	nit expires _	Feb	ruar	7 4. 1	988		unless wel	l work is sommened		
reii	init expires _		<u>,</u>	<u> </u>	000		unless wei	i work is commenced	prior to that date and	prosecuted with due diligence.
Г			<u> </u>							•
1	Bond:	Ager	ıt:	Plat:	Casi	ng F	ee WPCP	S&E	Other	
		1	275	MY	M	5 117	74 M	SIAKI	_	
L	L	/	-	<u>, </u>	/~ ,	- V /	· / _ / _ / ~		1111 m	1
									H L	
NO.	TE: Keep o	ne copy	of this pe	rmit posted	at the c	rilling loca	tion.	10000	y son	
		FJ	P					rector	Ision of Oil	and Gas File
			S	ee the rever	se side (of the APP	LICANT'S COPY	for instructions to	the well operator.	