

PEAC 12/31/86

IV-35 (Rev 8-81)



State of Mest Wirginia

Bepartment of Mines Oil und Gas Division

ſ		perator's Nell No. KEM #564							
•	Farm	• Wilbo	ur Te	ennant					

API No. 47

Date November 17, 1986

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

. LOCA	rion:	Elevation: 743	Watershe	d <u>Ri</u>	ght Fork o	of Lee Cree	:k	
		District: Harris	County	Woo	d	_Quadrangl	e Lubeck	· · ·
								
COMPA	ANY KI	AISER EXPLORATION A	ND MINING COMPA	NY				
		O. Box 8, Ravenswoo		<u></u> 1	Γ	T .	1	Cerns
		AGENT R. A. Pryc			Casing	Used in		fil:
		same			Tubing	Drilling	in Well	Cu
		NER Wilbur Tenna	nt		Size 20-16		:	
		ew England, WV			Cord.	-		-
		GHIS OWNER same		-	13-10"			<u> </u>
ADDRE				-	9 5/8			_
OIL A	IND GA	S INSPECTOR FOR TH	TS WORK Glenn		8 5/8	-		100
Robi	inson	ADDRESS#6 Mt	Pleasant Est	-	7	7"	265	Cla
PERMI	et issi	UED 10/14/86 Mine	ral Wells, WV	1949	5 1/2			
		2MMENCED 10/29/8			4 1/2	41/211	1985	567
		MPLETED 11/02/8			3			
		BLE: PLUGGING OF I		-	2			
CONTI	NUOUS KING.	PROGRESSION FROM I VERBAL PERMISSION	DRILLING OR	_	Liners used			
œ	GICAL	TARGET FORMATION	Berea Sandst	one		Dent	ւի 1997	-1
		of completed well			otary v	/ Cable	199/	
,	Water	strata depth: Fre	esh fee	et;	Salt	feet	. 10013_	
	Coals	seam depths:			Is coal	being mine	ed in the	370-
	FLOW [o II. Ule	area
			.			4		
	Gage	ring formation Be	rea Sandstone		Pay	zone dept	h 1942-1	944
٠٨.	· ·	Initial open flow		a (011: Ini	tial open	flow	
s of	-	Final open flow	500) MCI/	a	Fin	al open fl	.cw	
		time or open	flow between i	niti	al and fi	nal tests_	4_ho	urs
'	(If or	rock pressure 60	ou psig (sur	Tace	measurem	ent) after	72 hou	rs sh
		pplicable due to mu						
. (Came	l producing formati	Lan		Pay	zone depti	h	
	vas:	Initial open flow_	Mcf/	d (Oil: Ini	tial open	flow	
(minut .						
(Final open flow	Mcf/ flow between i	'd (Oil: Fina	al open flo	ow]

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

11/06/86 Young's Wireline Perforated Berea from 1942' to 1944' w/16 shots.

11/07/86 Halliburton 75% foam frac Berea w/45,000# 20/40 sand; 15,000# 10/20 sand; 582,000 SCF N₂; 367 bbl fluid @ 1572 psig; ISIP: 1080 psig; 5 MIN SIP: 950 psig.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and g
Shale Sand Shale and Siltstone Sand Shale and Siltstone Sand Shale and Siltstone Dunkard Sands Shale and Siltstone Sand Shale and Siltstone Salt Sands Shale Coffee Shale (Sunbury) Berea Sand Shale Total Depth	0 82 153 440 564 899 980 1040 1224 1275 1328 1424 1593 1924 1593 1924 1945 1945 1945	82 153 440 564 899 930 1040 1224 1275 1328 1424 1593 1924 1942 1945 1997	Very Slt. s/oil
	1		

(Attach separate sheets as necessary)

Note: Regulation 2.02(i) provider as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological re: all formations, including of a well."

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



1) Date: Oct	ober 7	, 12 <u>86</u>
2) Operator's Well No.	KEM #564	
3) API Well No.	47 -107-140	4

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION FOR A WELL WORK PERMIT

Well No.	47 -1)/-1404	
	State	County	Permi
· . C	3/28 TE	13/13/16/1	
india			12/2
		WE AS CHARLE	HIN
IdM)	2 53	- 4000	
18/8	nct	9 1986 -	Care Sin.
(wil 470	UUI	•	

		÷		.001					ORK PERMIT	191/6	CT	9 1986 -	ACCUS.	
4)	WELL TYP		il f "Gas", P	roduction		/	/ Underg	round storag	e	/ Perpar	<u>tmer</u>)F OIL & GA' VT OsFialiANE <u>IN</u>	S <u>GY</u> /)	
5)	LOCATION		vation:	743'	اطک	°5	Watersl	ned: KIGII	FORK O	r Lee cree	Κ	Lubeck	· · · · · · · · · · · · · · · · · · ·	
		Dis	_{trict:} <u>H</u> Kaiser	arris .Explo	ratio	on an	County	: Wood	DECICNATE	Quadran		. Pryce		
6)	WELL OPE	RATOR_	P. 0.	ing Co Box 8	mpany	X. COL	E: Se) () ()	Address	DAGENI	Same			
	Address		Ravens		WV	2616	4		Addiess	**************************************				
8)	OIL & GAS	INSPEC		E NOTIF						CONTRACTOR: Unknown				
	Address		1, Mo eral W			nt Es 2615			Address					
10)	PROPOSEI	WELL V	WORK:	Drill	_X	/ Drill	deeper_	/	Redrill	/ Stimula	ate	/		
•				-					ew formation	n/				
				-		hange i	n well (specif	fy)						
11)	GEOLOGIC	CAL TAR	GET FORI	MATION,			Sandst		ے					
	12) Estimat	ed depth o	of complete	ed well, _		200	5	feet		£4				
	13) Approx							,		feet. ne area? Yes		/ No	χ	,
	14) Approx							Is coal bei	ng minea in ti	ie area? Tes		/ 140		
	CASING A	ND TUBI					ll FO	OTAGE INTER	VATC	I CEMENT FIL	1.11P	PACKE	28	
	ISING OR		SPEC	FICATIONS Weight				1		OR SACK	s	I ACKE	•	
		Size	Grade	per ft.	New	Used	For drill	ing	Left in well	(Cubic feet	()	Kinds		
	ductor	7"					250		250	Cement	+0.0	urface Ro	-Kut,	-150
	h water	/"-			_X_		250			- Lemenr	10 5	Sizes	_ 1~~_11	
Coa												·		
	rmediate	4 1/	O II		v		2005		2005'	175 cks	50/	50°rtborzmix		
	duction	4 1/	<u> </u>				2005			ORAS		QUILED	BY	Ruc
Tub							<u> </u>		<u> </u>	15,04		Perforations:		
Line										10.04		Тор	Bottom	
		ļ								*				
		I	l			· ·								
							OFFICE	USE ONI	.Y					: 5
	··						DRILLIN							
Per	mit number_		47-10	7-1404			- · ·			October	14 Dat		19	86
quit No. I dist	rements subje B) Prior to the rict oil and g	ct to the c e construct as inspecto	onditions of tion of roa or 24 hours	contained ds, location before ac	herein a ns and tual pe	ind on t pits for rmitted	he reverse he any permitte work has coi	reof Notifica d work. In mmenced.)	tion must be addition, the	nted to drill in ac given to the Distr well operator or	cordan ict Oil his con	and Gas Inspect tractor shall not	or, (Refer	r to oper
	e permitted we erse hereof.	ork is as d								t to any modifica				
Per	mit expires _		UCTOB	er 14,	198	0	un	iess well wor	k is commenc	ed prior to that d	ate and	prosecuted with	aue dilige	ence.
	Bond:	Agent	: F	lat:	Ga si	fing	Fee 969794	WPCP		Other		/]/	•	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

Director, Division of Oil and Gas

File