



WR-35

State of Mest Airginia

DEPARTMENT OF ENERGY

Wil und Was Bivision

Date	Dece	December 22, 1987						
Oper Well	ator' No.	s Hae	essle	y D-	11			
Farm								
API	No. 4	7 –	017		3614			

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas χ / Liquid Injection (If "Gas," Production χ / Underground	/ Wast ind Storag	e Disposa. e/ Deep	L/ p/ Sha	11cw_x/)
LOCATION: Elevation: 978 Watershed She	eps Run of	f S.F. Hugl	nes River	
District: Southwest County Doddr	ridge	Quadrangle	<u>Oxford</u>	7.5'
COMPANY United Operating Company 25301				
ADDRESS 930 Commerce Square, Charleston, WV	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Lyle T. Coffman	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 930 Commerce Sq. Charleston, WV 25301	Size			
SURFACE OWNER N. Haessley dba	20-16	ovalentzinentzi		
ADDRESS Marietta, Ohio	Cond.	206	206	Surf
MINERAL RIGHTS OWNER Eli Nutter, Heirs	9 5/8			
ADDRESS Marietta, Ohio	8 5/8	1440	1440	Surf
OIL AND GAS INSPECTOR FOR THIS WORK Mike	7			
Underwood ADDRESS Salem, WV	5 1/2			
PERMIT ISSUED November 19, 1987	4 1/2		6371	625 sks
DRILLING COMMENCED December 7, 1987	3			
DRILLING COMPLETED December 13, 1987	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	T :			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN			L	
GEOLOGICAL TARGET FORMATION Maricellus			th6050	
Depth of completed well 6408 feet	Rotary <u>x</u>	/ Cabl	e T∞ls_	
Water strata depth: Fresh 584 feet;	Salt_Nor	<u>ie</u> feet		
Coal seam depths: None	. Is coal	being min	ed in the	e area? NO
OPEN FLOW DATA				
Producing formation Shale, Alexander, Ber				
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	Bbl/d
Final open flow 993 Mcf/d				
Time of open flow between init				
Static rock pressure 1525 psig(surface	e measure	ment) afte	er 48 ho	urs shut in
(If applicable due to multiple completion	1)			
Second producing formation Riley, Balltown,	SpeechlyPa	y zone dep	oth See Tr	eatment feet
Gas: Initial open flow Mcf/d	Oil: In	itial oper	n flow	Bb1/d
Final open flow Mcf/d	Oil: Fi	nal open i	flow	Bbl/d
Time of open flow between ini	tial and f	inal test	sh	ours
Static rock pressurepsig(surface	e measuren	ment) after	rho	urs shut in
		10 out	iria on r	anongallei io

Source

Shale

1st. Stade: 2nd. Stage: 3nd. Stage: 4th. Stage: 5th. Stage:

Alexander

Riley Balltown Benson Riley

Speechly

MEIT 10C

Yng Company	United Operat		
(https://eco.	rate sheets a	ndas hoptik)	
The state of the s	Brownes B		
. U.T	2005 2005 2005 4730 4724	8909 2009 7009 7009 7009 7009 7009	Shale Benson Shale Alexander Shale
	1897 0817 7678 2978 9818 9001	781 7697 2467 2139 7061 7061	Big Injun Sand, Shale Speechly Section Shaltown Section Riley Section
	1722 1736 1786 1787	1765 1765 1765 1766	Sand, Shale Little Lime Shale Big Lime
3/4" Fresh H ₂ O @ 584'	106 Et 9	6 6 0	Sand, Shale, Redrock Sand, Shale Clay
REMARKS Including indication of all fresh and salt water, coal, oil and qas		TOP FEET	THOS SO CHAH ROLO WOLTAMRO

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic intitations, including it formations, including it is formation of a well."

"It is incountered in the drilling of a well."

Date:

December 22, 1987

Daniel R. Chapman, Geologist

The first of a supplied by the second of the											
						NEST US	1)	Date: Novem	ber 17,		, 19 <u>87</u>
FORM WW-2(B) FILE	COPY					•	Operator's	essley I		
(Obverse)		363536	en in			E SI SI SI SI SI SI SI S		44 CH 140.	47	017	3617
7/85 0) 5	(CLE)		all			*	3)	API Well No	State	County	Permit
IN L	Alle Brown	_ #1	5			An starts			ı		
777	NOV 1	8 1987	ري		STA	TE OF WEST VIR	GINIA				
			DEP	ARTMI	ENT O	F ENERGY, OIL	ND GAS D	IVISION			
DIVI	SION OF	OIL &	GAS	API	PLICAT	TE OF WEST VIR F ENERGY, OIL A TION FOR A WELL	WORK PER	MIT		f ^{re-} non-	
DEPA	KIMENI	of En	ENGY					L-4)	1	offmen	
4) WELL T	PE: A C)il	/_ U	S AL		on vivia, enterin engelig mendirah mengirah mangan anganggangganggangganggangganggang	Addres				V
						ent-doperation		<u>Charles</u>	-	25301	#
8) OIL & G/			BE NOTII	FIED	S	oite930 9) DRILLING	G CONTRACTO	DR: Wall Sar	vice Inc	
	Mike Unde		ox 135			DUTTO G Mas	Address			VICE, IIIC.	
Addres		en, WV					7,444100			26351	
10) PROPOS	ED WELL	WORK.	Drill	X	/ Drill	deeper	_/ Redrill_		-		
10) 1 KO1 03	LD WLLL	work.				n/ Perforat					
			_			n well (specify)					
11) GEOLOC	ICAL TAR	GET FO	RMATION	, <u>M</u> a	arcell	us			, 		
				61	150	r .		as of all 400)'		
13) Appr	oximate tra	ta depths:	Fresh, 2	0 560	40 ,	feet; salt,		DRIVIT Feet.		/ % !-	T F /
14) Appr	oximate coa	ıl seam de	pths:	nome Or	vone	Is coal 1003,	being mined i 1877. 30	n the area? Yes	S	/ No	X/
	AND TUB				1	FOOTAGE IN			FILL-UP	l PACK	FDS
CASING OR TUBING TYPE		1	CIFICATION: Weight	1 1			Left in well	OR S	ACKS	17.04	LNJ
01	Size	Grade	per ft.	New	Used	For drilling	Delt in wei	(Cubi	ic reet)	Kinds	
Conductor Fresh water	11 3/4	ADT	40.#	v		401	46), C.	.T.S. 4	-39CSX18	1-11.3
Coal	#11-2/4	HEI.	- 40 - 							Sizes BOXS	R18-11.2.
Intermediate	8 5/8	ERV	20.#	Х		1200'	1200)' C.	T.S.		· · · · · · · · · · · · · · · · · · ·
Production	4 1/2	J-55	10.5#	X		60001	6000)' 625 sl	KS.	Depths set 38	<u> 11.</u>
Tubing											
Liners										Perforations:	
		-								Тор	Bottom
		-		1						l	
	<u> </u>			11		<u> </u>		<u> </u>		Ц	
						OFFICE USE O	NLY				
						DRILLING PER	RMIT				
	47	0	17.	.30	14			11/1	9		19 8
Permit number			1_1	<u> </u>	<i>-</i>	-			Da	te	
This permit co	vering the v	vell opera	tor and we	ll locatio	n show	n below is evidence of	permission g	ranted to drill i	n accordar	ice with the per	tinent legal re-
quirements sub	ject to the o	conditions	contained	herein a	nd on tl	ne reverse hereof Notifiany permitted work.	ication must	be given to the I	District Oil	and Gas Inspec	tor, (Refer to
No. 8) Prior to to district oil and	he constructions gas inspect	tion of ro or 24 hou	ads, locati rs before a	ons and per	pits for mitted	any permitted work. work has commenced	.)	ine well operator	01 1113 001	mactor shan in	only the proper
						on, plat, and reclama		iect to any modi	ifications a	nd conditions s	pecified on the
reverse hereof.	OIR IS AS C		, , / ,	ا ا	. a	· # · · · · · · · · · · · · · · · · · ·	,				•
Permit expires			1//	7/8	1	unless well v	vork is comm	enced prior to the	at date and	prosecuted wit	h due diligence.
/	·	_/_							/ nr		
Bond:	Ageni		Palat:	.6asii	ng	Fee WPOF	(SWE?	Other			
	1	/ 10	WIL	(IXX		238 (10)	IL XX	- //	1)	

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

Division of Oil and Gas

File

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