

WR-35

GAS EKYY

State of West Wirginia

DEPARTMENT OF ENERGY
Oil und Oas Bivision

Date	June	16,	1986		
Operat	or's				
Well N	10	#2			
Farm_	(18C		-	
API No				4442	•

WELL OPERATOR'S REPORT

Oil / Gas X / Liquid Injection / Waste Disposal

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION:	Elevation:	945	Watersh	n ed S	ycamore I	Run		
	District:_						e_Glenvil	le 7.5
	V BOARD OF RE		Was and the Control of the Control o					I Company
	950 Kanawha B			Į	Caşing	Used in		Cement fill up
	AGENT Robe			1	Tubing	Drilling	in Well	Cu. ft.
	o Glenville			1				Physical Company (1997)
	NER WV Boar				20-16 Cond.			C. Paralle and C. Par
	narleston, WV				13-10"			
	GHTS OWNER_		Regents		9 5/8			
DDRESS_C1	narleston, WV	7			8 5/8	810	810	Surf
IL AND GA	S INSPECTOR	FOR THIS W	ORK <u>Deo</u>		7		0,0	0011
Mace	ADDRESS	Sandridge,	WV		5 1/2			
ERMIT ISS	U ED January	8, 1986			4 1/2		6682	520 -t-
RILLING C	DMMENCED J	January 27,	1986		3		0002	530 sks
	OMPLETED F							
F APPLICA	BLE: PLUGGI	ING OF DRY F	OLE ON		2			
ONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED					Liners			
N		ALTODION OD	TATIVED		used			
	TARGET FORM	ADTTON Ori	skany			Dept	. h∙ 6600	fee
	of complete	•		· · · · · · · · · · · · · · · · · · ·				
		<u></u>					. 10013	
	strata dept						.d in bha	No
Coal	seam depths:	110110	······································		is coar	being mine	a m die	area:
PEN FLOW	DATA							
Produ	cing formati	lon Oriskany	, Shale,	Elk	Pay	zone dept	h see t	reat. fee
Gas:	Initial ope	en flow	Mo	f/d (il: Ini	tial open	flow	Bbl/c
	Final open	flow [021 Mc	f/d	Fin	al open fl	.ow show	Bbl/c
	Time o	of open flow	v between	initia	d and fi	nal tests_	4 hou	ìrs
Stati	c rock press	sure 1750	psig(s	urface	measurem	ent) after	48 how	s shut i
(If a	mpplicable di	ue to multiz	le compl	etion	.)			
Secor	d producing	formation_	Alexander	, Benso	п Рау	zone dept	hsee trea	tment fee
Gas:	Initial ope	en flow	Mo	f/d (il: Ini	tial open	flow	Bb1/c
	Final open	flow	Mo	f/d (il: Fin	al open fl	.ow	Bbl/c
	Time (of open floa	w between	initia	al and fi	nal tests	hou	urs JUL ?
Stati	ic rock press							

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

First Stage - Oriskany (6625-6623) 1000 gal 15% Hcl, 30 ton CO_2 , 199 MCF N_2

Second Stage - Shale (6296-5390) 1000 gal 15% Hcl, 40 ton CO_2 , 221 MCF N_2

Third Stage - Lower Elk (5326-5005) 500 gal 15% Hcl, 30 ton CO_2 , 354 MCF N_2

Fourth Stage - Upper Elk, Alexander (4851-4695) 500 gal 15% Hcl, 28000# 20/40, 10,000# 80/100, 434 bbl H₂O, 28 MCF N₂

Fifth Stage - Benson (4431-4422) 500 gal 15% Hcl, 33000# 20/40, 10,000# 80/100, 441 bbl H 0, 38 MCF N 2

WELL LOG

		Ī	REMARKS				
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET					
Sandy Shale	О	65	water water our orrange				
Sand & Shale	65	194	·				
Sand, Shale & Redrock	194	830					
Sand & Shale	830	1536					
· Little Lime	1536	1562					
Shale	156 ž	1570					
Big Lime	2570	1722	Salt H ₂ O @ 1673				
Big Injun	7.722	1742					
Shale Weir Sand	1742	! * @%					
WELL Dalla	1825	1954					
Sand & Shale	1954 2860	2860 3118	•				
Speechly Section	3118	3172					
Shale Balltown Section	3172	3670	· spb				
Riley Section	3670	4292					
Shale	4292	4392					
Benson	4392	4416					
Shale	4416	4667					
Alexander	.4667	4,762					
Shale	4762	4836	•				
Elk Section	4836	5011					
Shale	5011	6310	7				
Marcellus	6310 6341	6351 699 7 649					
Onondagá Lime	69976497						
Huntersville Shert	6581	6664					
Oriskany Sand Helderberg Lime	6664	6721	TD				
THE		. ARRESTANCIO COLORINA NEL COLORINA DE LO COLORISTA COLO	TOTAL OF STREET AND ASSESSMENT OF STREET ASSESSMENT				
	Seat Seat Seat Seat Seat Seat Seat Seat						
411 1960 650	N. Delegania and A. Caraller a	-investigation by					
424 2610 2190							
437 4800 750	The second secon						
438 SSS 780							
PT 6250 60		I &					

(Attach separate sheets as necessary)

WV Board Of Regents

Well Operator

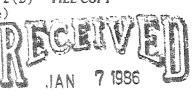
By: ,Robert K. Gainer

Date: June 16, 1986

Note: Regulation 2.02(i) provides as follows:

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

7/85





1)	Date: January 6	12.86
2)	Operator's	
	Well No. GSC No. 2 evised	

3) API Well No. 47 _ 021 _ 4442 State County Permit

STATE OF WEST VIRGINIA

DIVISION OF QIL & GAS PERARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il	/ Ga	£S	X /					
					X/	Underground	storage	/ Deep <u>X</u>	_/ Shallow	/}
5) LOCATIO			<u>945'</u>		(A) 1 (B)		Sycamore F			
			Gleny		4/45	County:	Gilmer	Quadrangle:	Glenville 7.	<u>5'</u>
6) WELL OP	ERATOR_	WV Bo	ard of	Re	gen € @DE	(200-control of the control of the c	7) DESIGNATE	DAGENT <u>Rober</u>		
Address	95	0 Kana	wha Bl	vd.	<u> East</u>	***************************************	Address	c/o Glenvil	<u>le State Col</u>	lege
			on, W		01	AAAA WAAAA WAAAA AAAA AAAA AAAA AAAA A		Glenville, W	<u>V 26351</u>	
8) OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C			
Name						eller var den Priemer	Name <u>I.</u>	L. Morris Wel	<u>l Service, I</u>	nc.
Address	***************************************	<u>. 1, E</u>					Address			·
***	<u>_Sa</u>	ndride	e, WV	<u> 2527</u>	'4			_Glenville,	WV 26351	·
10) PROPOSE	D WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	X	
•		1	Plug of	f old	formation	/ Perfo	rate new formation	1/		
			Other p	hysical	change in v	vell (specify)				
11) GEOLOGI	CAL TAR	GET FOR	MATION	,	<u>)riskany</u>	San San San				
12) Estima	ated depth	of complet	ted well,	6	600	fee	Į.			
13) Appro	ximate trat	a depths:	Fresh, _s	24	5	feet; sa	lt,None	feet.		
14) Appro	ximate coa	l seam dep	oths:	Nor	te	Is c	oal being mined in th	e area? Yes	/ NoNo)/
15) CASING	AND TUB	NG PRO	GRAM							
CASING OR		SPEC	DIFICATION	5		FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	l l		1						Kinds	
Fresh water						*************************************				
Coal			1						Sizes	***************************************
Intermediate	8 5/8	FPW	20#	X		800	800	175 ckc (-	S by rul	6 150
Production	4 %	J-55	10.54			6700	6700	650 sks.	Depths set	<u> </u>
Tubing	1 2		10.7	_			<u> </u>	# UNU SKS.	Deptilis sery	
Line.		İ							Perforations:	***************************************
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transition of the same of the		£	1	<u> </u>	1 1				N.	
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41X 7444443004444448 ##############################			***************************************		0	FFICE USE	ONLY			
*					,,_,_,_,	RILLING P			***************************************	
	4 == 0						200 20 W 2 V 30 AL AL	7		0.0
Permit number_	47-0)21-4	442							19 86
								Da		
								ted to drill in accordan		
Quiteinents subjects & Prior to the	ect to the c	onunuons tion of ros	contained ads locatio	nerein	and on the f	everse nereory	otification must be g	iven to the District Oil well operator or his cor	and Gas Inspector, (Refer to
district oil and g	as inspecto	or 24 hour	s before a	ctual p	ermitted wo	k has commend	ced.)	,		
The permitted w	ork is as d	escribed in	n the Notic	e and	Application.	plat, and reclai	mation plan, subject	to any modifications a	and conditions specifi	ed on the
reverse hereof.	_					•	. , , , , , , , , , , , , , , , , , , ,	•	,	
Permit expires	Janı	uary	<u>8, 19</u>	88		unless we	ell work is commence	d prior to that date and	prosecuted with due	diligence.
							-			
Bond:	Acont		21	Coo	; n o	TIDO	222	0.4.1		
Boys	Agent		Plat:	Cas	<u> </u>	e WPCI	P S&E	Other		
	146	2	1	m	4127	30 25	> L&B	-XI	11	
			<u> </u>				// /	17.7L / 1		
								-77		
NOTE: Keep of	one copy of	f this pern	nit posted	at the	drilling locat	ion.	Director, Dr	vision of Oil	and Gas	NAME OF THE OWNER, WHEN PARTY OF THE OWNER, WH
		-	6ha ===		of the Ameri	ICANTIF COL		the melt		File