



## Stude of Mest Airginia

DEPARTMENT OF ENERGY Gil und Cas Bivision

Date2	2/9/87	
Operator	''S	
Well No.	W. Smith No.	2
	W. Smith	
	47 - 107 -	1400
1 m - 1 1 0 1		

## WELL OPERATOR'S REPORT

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

OCATION: Elevation: 662' Watershed <u>cove</u>	e Run			1
OCATION: Elevation: 602  District: Harris County Wood		Quadrangle	Pond Cr	eek
OMPANY H. D. Wells Oil & Gas Exp. & Dev., Inc.	Caging	Used in	Teft	Cement
DDRESS P.O. Box 1785, Charleston, WV 25326	Casing	Drilling	1	fill up Cu. ft.
ESIGNATED AGENT H. D. Wells, III	Tubing	DITTING	III III	The second
DDRESS same	Size 20-16			
SURFACE OWNER William Smith	Cond.			
ADDRESS Belleville, WV	13-10"		160	150 sks.
MINERAL RIGHTS OWNER same	9 5/8	462	462	130 BKB
ADDRESS	8 5/8		-	1.05
OIL AND GAS INSPECTOR FOR THIS WORK Glenn	7	2,000	2,000	180 sks
Robinson ADDRESS Mineral Wells, WV	5 1/2		10.000	
PERMIT ISSUED June, 1986	4 1/2	2,000	2,000	
DRILLING COMMENCED 6/25/86	3			
DRILLING COMPLETED 7/03/86	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Shale	e (Huron)	De	pth <u>3,65</u>	0100
	Rotary v	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TE TOTT	
Ponth of completed well 3,600 feet	140 0000		+-	
Depth of completed well 3,600 feet	; Salt 80	00 fee		້.
Depth of completed well 3,600 feet	; Salt 80	1 being mi	ned in th	ne area? <u>nc</u>
Depth of completed well 3,600 feet Water strata depth: Fresh 60 feet Coal seam depths: N/A	; Salt <u>80</u> Is coa	r bernd un	incu in a	
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA	; Salt 80 Is coa	ay zone de	epth 3300-	-3600 fe
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Shale	; Salt 80  Is coal  P  Oil: I	ay zone de	epth_3300_ en_flow	-3600 fe Bbl
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Shale  Cas: Initial open flow Mcf/d	; Salt 80  Is coal  P Oil: I	ay zone de nitial open	epth_3300- en flow flow	-3600 fe Bbl Bbl
Depth of completed well_3,600 feet  Water strata depth: Fresh_60 feet  Coal seam depths: N/A  OPEN FIOW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d	; Salt 80  Is coa  P Oil: I  Faitial and	ay zone de nitial open inal open final test	epth_3300_ en_flow_ flow_ cs_8	-3600 fe Bbl Bbl hours
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FICW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in	; Salt 80  Is coa  P Oil: I  Faitial and	ay zone de nitial open inal open final test	epth_3300_ en_flow_ flow_ cs_8	-3600 fe Bbl Bbl hours
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in  Mcf Static rock pressure 385 psig(surf	Is coal  Is coal  P Oil: I  Finitial and Eace measur	ay zone de nitial open inal open final test	epth 3300- en flow flow ts 8	-3600 fe Bbl Bbl hours ours shut
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in  Mcf  Static rock pressure 385 psig(surf  (If applicable due to multiple complete  And And Andrews formation Berea	Is coal  Is coal  P Oil: I  Finitial and Eace measur  ion)	ay zone denitial open final testement) after each denitial designation of the content of the con	epth 3300- en flow flow ts 8 ter 4 h	Bbl Bbl Bbl hours ours shut
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in  Static rock pressure 385 psig(surf  (If applicable due to multiple complete  Second producing formation Berea	Is coal  Is coal  P Oil: I  Finitial and Eace measur  ion)  I  d Oil: I	ay zone denitial open final testement) after ay zone de Initial open	epth 3300- en flow flow ts 8 ter 4 h epth 1,99 en flow	Bbl Bbl hours ours shut
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FICW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in  Static rock pressure 385 psig(surf  (If applicable due to multiple complete  Second producing formation Berea  Gas: Initial open flow show Mcf/d	Is coal  Is coal  P Oil: I  I F  I itial and  Eace measur  ion)  I Oil: I	ay zone de nitial open final test ement) after ay zone de Initial open final open de la company zone de la c	epth 3300- en flow flow ter 4 h epth 1,90 en flow	Bbl. Bbl.  Bbl.  Bbl.  Bbl.  Bbl.  Bbl.
Depth of completed well 3,600 feet  Water strata depth: Fresh 60 feet  Coal seam depths: N/A  OPEN FICW DATA  Producing formation Shale  Gas: Initial open flow Mcf/d  Final open flow 60 Mcf/d  Time of open flow between in  Static rock pressure 385 psig(surf  OFF for (If applicable due to multiple complete  OFF AND Server Berea	Is coal  Is coal  P Oil: I I F nitial and Eace measur ion) d Oil: I d Oil: I	ay zone de nitial open final testement) after a zone de Initial open final open final open final open final testement	epth 3300- en flow flow ts 8 ter 4 h epth 1,99 en flow flow ts 8	Bbl. Bbl. bours shut  50 fe  Bbl. Bb. hours

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

Shot Shale Sec. 8,000 lbs Gelatin

Frac Berea

45,000# 20/40 330,000 SCF/W Max. Press. 1,800 Avg. Press. 1,200 250 gal. HCL 15%

15 perfs 1982-1985

## WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and coal
Top Soil Sand Shale Sand & Shale Shale Shale Lime Injun Sand Shale Berea Sand Shale	0 15 60 200 835 1304 1480 1501 1610 1982 1985	15 60 200 835 1304 1480 1501 1610 1982 1985 3600	Fresh Water 60'  Gas Show— Total Depth
404 1985 89 3135			

(Attach separate sheets as necessary)

H. D. Wells Oil & Gas Exp. & Dev., Inc.
Well Operator
By: ADWelleron
Date: 2/9/87

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 encountered in the drilling of a well."

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						WEST V	a 1) Date	: May		15.86
RM WW-2(B)	FILE (	COPY					2) Oper	rator's	+h #2	
verse)	Fm) Fm	13/11/	MIN			E( )	.1-8	Well No. 47	107-14	.00
	C	MA				The state of	and Si Air	State	County	Permit
	JUN =	3 1986		<i>)</i>	STA	TE OF WEST V	IRGINIA	and the great of the second of	a same of the same	
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) WELL TYPI	E: A Oi	ı <u> </u>			X/. XX	_/ Underground	storage	_/ Deep	_/ Shallow	XX_/)
) LOCATION		ation: _	660		<u> </u>	_ Watershed: _				4-4-7
			Harris				WOOD DESIGNATED	Quadrangle: _ <del>L</del> AGENT <u>H. D.</u>	Pond Creek Wells II	T
) WELL OPE Address	RATOR_	PO F	30x 178	<u></u> 15	CERO	E: <u>52.900</u>	Address	same		
Addiess			eston,		25326					
) OIL & GAS				IED			9) DRILLING CO	NTRACTOR: nt Hurt & Ass	rogiates	
	Glen P		nson Mt. F	21020	ant D	'ctate	NameCII	$P_{\bullet}O_{\bullet}$ Box $19^{\circ}$		
Address	Kt		Wells.		2615	*	Audica	Midland, TX	79702	
) PROPOSED			Drill_2				/ Redrill	/ Stimulate	<b>X</b>	
, FROFUSEL	· TILLL !	. OALL				•	rate new formation_			
			-	-		n well (specify)		401		
) GEOLOGIC					•	Gordon/Devo	<u> </u>	401		<del> </del>
12) Estimat					5,600 5 <b>%</b>		lt, 1,000	feet.		
13) Approx 14) Approx				n/	,		oal being mined in the	area? Yes	/ No	xx/
) CASING A						-		· · · · · · · · · · · · · · · · · · ·		
CASING OR	,		CIFICATIONS			FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKE	RS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	(Cubic feet)		<u> </u>
onductor						1/12	141000		rule 15.0	E
resh water	9 5/8	J55	26	X		TICLE	710300	to surf. by	Sizes	<u> </u>
oal	7	<u> </u>	<u> </u>	×	1 1	2.100'	2.100'	1.000' fill	up	
termediate roduction	4 1/2	K55	10	x		3.600'	3,600	2005KS	Depths set	<del>7 72 0</del> .
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ermit number_	4	7-10	7-1400	) -				J Da	une 23	19 86
hia manmit	ring the	ell operat	or and we	ll locati	on show	n below is evidenc	e of permission grant	ed to drill in accorda	nce with the pert	inent legal re-
nis permit cove uirements subje	ct to the c	onditions	contained	herein	and on t	he reverse hereof	otification must be gi k. In addition, the w	ven to the District Oil	and Gas Inspect	or, (Refer to
. 8) Prior to the	e construc	tion of ro	ads, locations before a	ons and	pits for printed	any permitted wor work has commen	k. In addition, the work ced.)	en operator or ms co.	Typicle and	Anitsia Cest
he nermitted	ark ie ae d	escribed i	n the Notic	ce and	Applicat	on, plat, and recla	mation plan, subject	to any modifications		40
ne permitted we everse hereof.										
ermit expires _		June	23, 19	988		unless w	ell work is commenced	d prior to that date and	a prosecuted with	aue amgence.
Bond:	Agent	12	Plat:	Cas	ing	Fee WPC	P S&E	Other		
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NOTE: Keep o	пе сору о						Director, Div		and Gas	, File
		Se	e the rever	se side	of the A	PPLICANT'S CO	PY/for instructions to	the well operator.		