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DEPARTMENT OF ENERGY Gil und Gas Bivision

Date	Ju1	y 1 19	987	•
Opera Well	itor's No	Kauff	man #	2
Farm	Cott	rell_		
API N	ю. 47	- 08	7	4050

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

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

WEIL TYPE: Oil $/$ Gas $_{ m X}$ / Liquid Injection (If "Gas," Production / Underground / Undergroun	on/Wast ound Storag	te Disposa ge/ Dee	l/ p_x_/ Sha	1.1cw_x_/)
LOCATION: Elevation: 920, Watershed	Clover Ru	n ·		
District: Smithfield County Roan				
COMPANY Boggs Natural Gas		`		
ADDRESS P.O. 148 · Spencer WV 25276	Caging	Used in	Left	Cement fill up
DESIGNATED AGENT <u>Harry C. Boggs</u>	Tubing	Drilling	in Well	
ADDRESS P.O. 148 Spencer WV 25276	Size			linear
SURFACE OWNER Oras Cottrell	20-16 Cond.			
ADDRESS Spencer WV	13-10"	350'	350'	surface
MINERAL RIGHTS OWNER Joseph Kauffman et	9 5/8		330	Jarraco
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Homer	7	1800'	1800'	200sks
Dougherty ADDRESS Looncyville	5 1/2	1800	1000	2003K3
PERMIT ISSUED 5/18/87		5810	5810	4000'
DRILLING COMMENCED 5/24/87	4 1/2	3010	3010	1000
DRILLING COMPLETED 6/5/87 -	2			
IF APPLICABLE: PIUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN	Liners used			
GEOLOGICAL TARGET FORMATION Oriskany		Dept	h 5950	feet
Depth of completed well 5810 feet				
Water strata depth: Fresh 100 feet;				· ·
Coal seam depths:		being mine	ed in the	area? no
	-	-		Age de la constant de
OPEN FLOW DATA	. 71	· donk	ъ 7540_5	910 Foot
Producing formation Devonian Shale			•	
Gas: Initial open flow 50 Mcf/d				
	Fin	_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Time of open flow between init		-		
Static rock pressure 1000 psig(surface		ent) after	24 how	is shut in
(1) applicable ade to marriple completion				5 g
Second producing formation Cornifrous Lin				
Gas: Initial open flow 10 Mcf/d				-
Final open flow 100 Mcf/d	Oil: Fin	al open fl	.cw0	CL BRT/188
Time of open flow between init	ial and fi	nal tests_	24 hou	ırs

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

rugged Back to 5810

1<sup>ST</sup> stage -5700-5720 10 shots 4000 gal HC1

2<sup>N</sup>D stage 40,000 # sand, 650,000 scf  $N_2$ , 5565-4550 30 shots

3<sup>RD</sup> stage 40,000 # sand , 480,000 scfN<sub>2</sub>. 4500-3500 shots

4<sup>TH</sup> stage 1890-1900 10 shots Screened Off

## WELL LOG

	••		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
Big Lime -	1810	1850	
Big Injun	1850	1940	
Berea	2310	2326	
Shale	2326	5650	Gas
Marcellus	5650	5700	•
Corniferous Lime	5700	5890	Gas
Oriskany	5890	5920 TD	Salt water
		and the second s	
5920			Plug set @ 5810°
5750			ind set # 2010.
220 expl ftg.			
· .			
		·	
404 2300			PECEIVEN
(B 3400			OCT 09 1987
822 4400			1
852 4600-			DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
920 <u>4900</u>			and the second of the second o
	· 1		

(Attach separate sheets as necessary)

Boggs Natural Gas Well Operator

Jeffery C. Boggs By:

Date:

Regulation 2.02(i) provides as follows:

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

FORM WW-2(B) FILE COPY
(Obverse)
7/85
MAY 14 1987



1)	Date: May	13		19 87
	Operator's Well No. Ka		# 2	
	API Well No.	47	087	4050
٥,	711 1 17 011 1101	State	County	Permit
				4050

## STATE OF WEST VIRGINIA

DIVISION OF	ΛII	& GAS	DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPARTMENT	015	EVIETA	APPLICATION FOR A WELL WORK PERMIT
DEPARTMENT	Ur	CIACLOI	

B (If "Gas") Production	) WELL TYP	E: A Oil		/ Gas	X	X/					
District: Smithfield Coupy: Rome O87 Address P.O. 148 SpenceR WV 25276  WELL OPERATOR BORGES NATURAL GAS CODE: 455 7) DESIGNATED AGENT Harry C. Borges Address P.O. 148 SpenceR WV 25276  8) OIL & GAS INSPECTOR TO BE NOTIFIED  Name Homer Daugherty Address LOONEY/ILLE SpenceR WV 25276  Name Homer Daugherty Address LOONEY/ILLE SpenceR WV 25276  Name Homer Daugherty Address LOONEY/ILLE SpenceR WV 25276  PROPOSED WELL WORK: Drill XX Drill deeper Redrill Simulate SpenceR WV 25276  10) PROPOSED WELL WORK: Drill XX Drill deeper Redrill Simulate SpenceR WV 25276  110) PROPOSED WELL WORK: Drill XX Drill deeper Redrill Simulate Plug off old formation. Perforate new formation.  Other physical change in well operation.  12) Estimated depth of completed well, S800. Feet salt feet.  13) Approximate coal seam depths:  15) CASING AND TUBING PROGRAM  15) Feet salt feet.  16) PROPOSED WELL WORK: Prob. 150 Feet; salt feet.  16) Proceeding Proposition of the problem of the	,	B (If	"Gas", P	roduction			Underground st	orage	_/ DeepXX_	✓ Shallow	/)
MELL OPERATOR BOGGS NATURAL GAS CODE: 6455 7) DESIGNATED AGENT HATTY C. ROGGS Address P.O. 149 Spencer W 25276	) LOCATION	i: Elev	ation:	920			Watershed:	Clover Run	O 41 T	'anniff 7	- 134
Address P. 1. 148 Spencer W 25276 Spencer W 25		Dist	rict:S	mithfi	eld 1 Ca	2000	County: KOA	ne UO/	Quadrangle:	C. Rogos	2001
Spencer W 25276  Spencer W 25276  OIL & GAS INSPECTOR TO BE NOTIFIED  Name — Home — Daugherty — Name — Boggs Natural GAS Co. — Address — Loneyville — Spencer W 25276  PROPOSED WELL WORK: Drill _XX Drill _deeper Redrill Stimulate Perforate new formation		RATOR_L	Soggs_	Natura o	لمللط	S_ CODE	· Marine	Address	P.O. 149		
9) DRILLING CONTRACTOR: Name Homer Daugherty Address Looneyville 9) PROPOSED WELL WORK: Drill XX Drill deeper Redrill Separate Natural GAS Co. Address P.O. 148 9) PROPOSED WELL WORK: Drill XX Drill deeper Redrill Simulate Plug off old formation Perforate new formation. Other physical change in well (specify). 10) GEOLOGICAL TARGET FORMATION, Ornickany 12) Estimated depth of completed well, 5800 feet; salt. feet. 13) Approximate trata depths: Fresh, 150 feet; salt. feet. 14) Approximate tool seam depths: Is coal being mined in the area? Yes No.XX  SOCIETY STATES OF SECTIONS FOOTAGE INTERVALS COMPAND TUBING PROGRAM TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING PROGRAM TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING PROGRAM TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING PROGRAM TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING PROGRAM TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight New Uses Footaming Left is well COMMAND TUBING TYPE Size Grade Weight Size of Size Grade Size of Size Grade Weight Size of Size Grade Size of	Address	Spor	COO W	V = 2	5276	<u> </u>			Spencer	WV 2527	6
Name Homer Daugherty Address Loneyville Address Loneyville Address Loneyville Proposed Well Work: Drill XX Drill deeper Redrill Simulate Spencer W 25276  The proposed by the price of the proposed by the price of the proposed by the price of the price o	DI & C & S							) DRILLING CO			
Address Loneyvillo  PROPOSED WELL WORK: Drill XX / Drill deeper Redrill Simulate Spencer W 25276  Proposed March Pring off old formation Pring off old formation Other physical change in well (specify)  Other physical change in well (specify)  GEOLOGICAL TARGET FORMATION, Oriskany  12) Estimated depth of completed well, 58800 feet sail feet.  13) Approximate road seam depths: Is coal being mined in the area? Yes / No. XX  STANING ON TUBING PROGRAM  CASING ON SECTION New Uses For dilling Left in well Coals feet Co	3) UIL & GAS	Homer I	Janahe	rtv	\$1,5,11 Mark			Name Bogg	s Natural GAs	-Co+	
PROPOSED WELL WORK: Drill_XX / Drill deeper Redrill Simulate Ping off old formation Other physical change in well (specify).  10) GEOLOGICAL TARGET FORMATION, Oriskamy  11) GEOLOGICAL TARGET FORMATION, Oriskamy  12) Estimated depth of completed well, SADO feet; sall, feet.  13) Approximate trata depths: Fresh, 150 feet; sall, feet.  14) Approximate coal seam depths: Is coal being mined in the area? Yes No. XX  CASING AND TUBING PROGRAM  CASING OR SPECIFICATIONS FOOTAGE INTERVALS OR SACKS  Crede feet  10) Size Grade Pin New Used For drilling Laft is well Crede feet  Conductor Size Grade Pin New Used For drilling Laft is well Size Grade Pin New Used Size Size Size Grade Pin New Used Size Size Size Size Size Size Size Size	Address	Loot	revovi 1	1e				Address	P 0 - 148		
PROPOSED WELL WORK:   Drill   XX   Drill   Drill   Drill   Perforate new formation   Perforate new formation   Other physical change in well (specify)	1		•				4		- Spencer WV	25276	
Other physical change in well (specify)  Other physical change in well (specify)  1) GEOLOGICAL TARGET FORMATION, Oriskany  12) Estimated depth of completed well, 5800 feet: sait, feet.  13) Approximate total depths: Fresh, 150 feet: sait, feet.  14) Approximate total depths: Fresh, 150 feet: sait, feet.  15) CASING AND TUBING PROGRAM  CASING OR SPECIFICATIONS TUBING TYPE Size Grade well, feet well for the feet of the well of the said for the well of the well for the well of the well for the well	n, (PROPOSEI	WELL V	VORK:	Drill_X	x	/ Drill	deeper	/ Redrill	/ Stimulate	<b>X</b> /	
GEOLOGICAL TARGET FORMATION, Oriskany   S800   feet   sail.   feet.	o, 11010000	, ,, <u>,,,,,</u>		Plug off	old f	ormation_	/ Perfora	ite new formation			
12) Estimated depth of completed well, 5800 feet; salt, feet.  13) Approximate trata depths: Fresh, 150 feet; salt, feet.  14) Approximate coal seam depths: Is coal being mined in the area? Yes. No. XX  15) CASING AND TUBING PROGRAM  CASING OR SECCITICATIONS SIZE Grade Weight Per ft. New Used For drilling Left in well Conductor  Conductor Tests water 101		÷		Other pl	iysical	change in	well (specify)				
12  Estimated depth of completed well,   5800   feet	i) GEOLOGIO	CAL TARO	GET FOR	MATION,		Oriska	ny 🔃				
14) Approximate coal seam depths: Is coal being mined in the area? Yes No. XX  5) CASING AND TUBING PROGRAM  CASING AND TUBING PROGRAM  CASING AND TUBING PROGRAM  CASING AND TUBING TYPE Size Grade per ft. New Used For adulting Left is well Cook feel Cook f	12) Estimat	ted depth o	f complete	ed well, _	5	800	feet				
CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Prof. New Used For drilling Left in well Conductor Size Grade For drilling Left in well Conductor Size Conductor Size Total Size Total Size Size Size Size Size Size Size Size	13) Approx	cimate trata	a depths:	Fresh,	150		feet; salt,		feet.		/
CASING OR SPECIFICATIONS TUBING TYPE  Size Grade Weight New Used For drilling Left in well OR SACKS (Cubic fret)  Size Grade Weight New Used For drilling Left in well OR SACKS (Cubic fret)  Sizes  S							Is coa	al being mined in the	e area? Yes	/ No_X	x/
CASING OR SPECIAL THORS.  TUBING TYPE  Size  Grade  Weight  Size	5) CASING A	ND TUBII	NG PRO	GRAM						lt n. oven	m.a
Size   Grade   per ft.   New   Used   For drilling   Left in well   Closic feet   Leginds   Left in well   Closic feet   Leginds   Left in well   Closic feet   Leginds   Left in well   Left in well   Leginds   Left in well   Left			SPEC		i		FOOTAGE II	NTERVALS		PACKE	.RS
OFFICE USE ONLY Driving  Comparison  OFFICE USE ONLY Driving  Comparison  OFFICE USE ONLY Driving  OFFICE USE ONLY Drivin	TUBING TYPE	Size	Grade		New	Used	For drilling	Left in well	(Cubic feet)		
OFFICE USE ONLY Driving  Cheer  Comparison  OFFICE USE ONLY Driving  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the permit end on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to .8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the profisitistic oil and gas inspector 24 hours before actual permitted work has commenced.)  The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  May 29, 1989  Unless well work is commenced prior to that date and prosecuted with due diligent profits the specified on the reverse hereof.  May 29, 1989  Unless well work is commenced prior to that date and prosecuted with due diligent profits the profits of the conditions and conditions and conditions appears the profits of the conditions and conditions and conditions appears the profits of the conditions and conditions appears the profits of the conditions and condit	Conductor						<del></del>			Kinds	-15 15
This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal rulierents subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to .8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the profisirated work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  Bond: Agent: Plat: Casing Fee UNCP SAF Other  1397  Bottom  OFFICE USE ONLY  Date  May 29 19.87  Date  In addition, the well operator of his contractor shall notify the profisirate of land gas inspector 24 hours before actual permitted work has commenced.)  Bond: Agent: Plat: Casing Fee UNCP SAF Other  1397  Bond: Agent: Plat: Casing Fee UNCP SAF Other  1397	resh water	10''				<b> </b>	350.t	350'	Surtace	11	<u>E 13,03</u>
Permit number  OFFICE USE ONLY  DRILLING PERMIT  A7-087-4050  OFFICE USE ONLY  DRILLING PERMIT  A47-087-4050  May 29  19.87  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the projective of the permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on treverse hereof.  Permit expires  May 29, 1989  unless well work is commenced prior to that date and prosecuted with due diligented the project of the p	Coal					<del>                                     </del>	01001	21001	7001	Sizes	
OFFICE USE ONLY  DRILLING PERMIT  A7-087-4050  OFFICE USE ONLY  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to. 8) Prior to the construction of roads, locations and pils for any permitted work. In addition, the well operator or his contractor shall notify the profisitiet oil and gas inspector 24 hours before actual permitted work has commenced.)  The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  May 29, 1989  unless well work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced prior to that date and prosecuted with due diligenter than the permitted work is commenced.	ntermediate			-		<del>                                     </del>		1		Depths set	
OFFICE USE ONLY  DRILLING PERMIT  47-087-4050  May 29  19.87  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal nuirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector. (Refer to a.8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the propristic oil and gas inspector 24 hours before actual permitted work has commenced.)  The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the contractor of the construction of roads.  Bond: Agent: Plat: Casing Fee WCCP SSF Other  139.1  Bond: Agent: Plat: Casing Fee WCCP SSF Other	Production	4.5"					58001	5800.		1	FOUNE
OFFICE USE ONLY  DRILLING PERMIT  47-087-4050  May 29  19.87  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal and purements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to all sistrict oil and gas inspector 24 hours before actual permitted work. In addition, the well operator or his contractor shall notify the propriated work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  Permit expires  May 29, 1989  unless well work is commenced prior to that date and prosecuted with due diligent and the propriate of the permit expires of the propriate of the permit expires of	Tubing					<del>   -</del>	·			11/3	EQ VIII
OFFICE USE ONLY  DRILLING PERMIT  47-087-4050  May 29  19.87  Date  This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal in a conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to any permitted work, in addition, the well operator or his contractor shall notify the propriate of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the propriate of the construction of roads, locations and principle work has commenced.)  The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on treverse hereof.  Permit expires  May 29, 1989  unless well work is commenced prior to that date and prosecuted with due diligent to the conditions and conditions and conditions and conditions and conditions and conditions and conditions are constructed.  Bond: Agent: Plat: Casing Fee WDCP S&F Other  1391  Bond: Agent: Plat: Casing Fee WDCP S&F Other	Liners					1	**************************************	<b> </b>	DC 144-13	11 1	Bottom
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This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to . 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the properties in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  Permit expires May 29, 1989 unless well work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the contractor shall notify the properties of the permitted work is commenced prior to that date and prosecuted with due diligent to the construction of the cons											
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NOTE: Keep one copy of this permit posted at the drilling location.  Director Division of Oil and Gas  Fil			/	-1	-1-7		704 00 A	111			
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.											r ite