

K+E IMPERIALTY 74886 OWDD - 3-6 amma-Looneyville-Newton (198

Plot Log Card CSD Mflm 38° 40' LATITUDE A. PARKS III A.W. EDGELL 5 · 2 WI AGND. LONGITUDE . 3 c. c. Bo 6 6 8 8 7 A 4 B. E. BRADLEY C.S. WEST 138.75 A. ho. SETSTONE NZ AGNO. G.W. CRINER J. B. VINEYARD Minimum Error of Closure 1/ 1N 200' 781.00 Source of Elevation AT DWELL I, the undersigned, hereby certify that this map is correct to the best of my know-ledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia. Fracture...... New Location...... Signed:\_ Sec. Squares: Map No. Abandonment...... STATE OF WEST VIRGINIA DEPARTMENT OF MINES Company HARRY C. BOGGS OIL AND GAS DIVISION Address SPENCER, W. VA. CHARLESTON C, S. WEST WELL LOCATION MAP \_Acres /38.75 Lease No. FILE NO. ROA- 1575-Well (Farm) No. \_\_3\_ \_Serial No. Elevation (Spirit Level) 900,00 8-11-67 Renewed Quadrangle WALTON + Denotes location of well on United States County ROANE District SMITHELEGO Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border L. A. B-y-Engineer\_ lines as shown. Engineer's Registration No. <u>Sod</u> Denotes one inch spaces on border line of \_Drawing No.. original tracing. Scale /"= 40 Pol ES Date 2 = 4 - 67

TRACING CLOTH

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3

SEP 23 1968



### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

Rotary	T.
Spudder	
Cable Tools	
	Section 1

Quadrangle.  Permit No. ROA			Control Manual Assess	RECORD	·	Oil or Gas Well (KIND)			
Company .	larry C. Bo	ggs Va. 25276		Casing and Tubing	Used in Drilling	Left in Well	and the control of th		
Address	poncer, r.	* * * * * * * * * * * * * * * * * * *	4 0 0	Size		<del>                                     </del>			
Farm	, S. West		crea. 132				TEL 6 . 0 200 0		
		or		16	40	40	Kind of Packer		
Well No	as a state	1	300	151.14		1	Size of $3\frac{1}{2}$		
District Smilts	<u> </u>	County Roane		10		1879			
The surface of tra-	ct is owned in fo	c by C. S.	West	<b>8</b> 8 5/8			Depth set 1850		
	A	ddress Looneyv L	Lle, W. Va.	6%		1	•		
Mineral rights are	owned by								
	A	ddress		41/2		ļ <del></del>	4842		
Drilling commenc	ed Septe	mber 11, 1967		3		<b></b>	Perf. top 1813		
Drilling completed	Octob	er 4, 1967	**************************************	2		ļ	Perf. bottom 1819		
Date Shot	From.	То		Liners Used			Perí. top		
							Perf. bottom		
Volume **Se Rock Pressure Oil WELL ACIDIZE WELL FRACTU RESULT AFTER ROCK PRESSUR Fresh Water	note bel 1,000  D (DETAILS)  RED (DETAILS)  TREATMENT  E AFTER TRE	(Initial open Flow o	Cu. Ft. hrs. bbls., 1st 24 hrs. of gas from	Amount of ceme Name of Service COAL WAS ET FEE FEE shale 3250 HOURS	ented 8 5/ent used (bags).  c Co. Well NCOUNTERE T IN T IN 4820 Ag	8 <sub>SIZE</sub> 1879 1 250 bags 1 Service D AT	No. Ft. 9/20/67 Date  FEET INCHES FEET INCHES FEET INCHES		
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Dopth	Remarks		
So11			0	10	MATERIAL STATE OF THE STATE OF	e Carlos de Principal de Carlos de C			
Sand	***************************************	oneenteed	10	30		1000 birds in my	, and the second		
Redrock	areactions	Schwarz (	30	60		free management of the contract of the contrac	No. And Control of the Control of th		
Slate	Trick Control of the	RADIOLA AND PROPERTY OF THE PR	60	90		1192	- Section - Sect		
Redrock	* Addresses	Columnia de la columnia del columnia del columnia de la columnia del columnia del columnia de la columnia del	90	125			, and the second		
Sand & Lines	hells	g-	125	150		3275	RECOVERAGE OF THE PROPERTY OF		
Redrock	- demand differen		150	190	•	3547			
State			190 l	210		22	e di		

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Dopth	Remarks
Soil Sand Redrock Slate Redrock Samma & Limes Redrock Slate Redrock Slate & Brok Slate & Brok Slate & Sand Slate Maxon Sand Slate Little Lime Slate Big Lime Big Irgan Slate Sand Slate	hells	2355 3353 4467 4751	10 30 60 90 125 150 190 210 250 1280 1430 1448 1450 1456 1560 1584 1608 1630 1704 1768 1816 1832	10 30 60 90 125 150 190 210 250 1280 1430 1448 1450 1456 1560 1584 1608 1630 1704 1768 1816 1832 5250	Gas Gas Gas Gas Gas Gas	1192 	Showing Showing Showing Showing Showing
B 2 7 1968	WRN			And containing actions and and a second action and a second action actio		Maria Maria	

Rev 8-81)



OIL & GAS DIV. DEPT. OF MINES



## State of Mest Airginia Bepartment of Mines Gil und Cas Bivision

Date	January	2,	198	5		
Operati					3	
Farm_	c. s.	West				
API No		087		157	5.	<u>D</u> D

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	ocatalico l	River		:110
District: Smithfield County R	oane	Quadrangle	Looneyv	1116
CMPANY Harry C. Boggs			Tafk	Cement
ADDRESS P. O. Box 198 Spencer, WV 25276	Casing	Used in		fill up Cu. ft.
DESIGNATED AGENT Harry C. Boggs	Tubing	Drilling	ni werr	C40 100
ADDRESS P. O. Box 198 Spencer, WV 25276	Size 20-16			
SURFACE OWNER Robert Lloyd	Cond.			
ADDRESS Akron, Ohio	13-10"			
MINERAL RIGHTS OWNER Fred Wells, Et.al.	9 5/8			
ADDRESS	8 5/8	1890	1890	Existin
OIL AND GAS INSPECTOR FOR THIS WORK Homer	7			
Daugherty ADDRESS Looneyville, WV	5 1/2	5190	5190	264
PERMIT ISSUED 8/24/84	4 1/2			
DRILLING COMMENCED 8/24/84	3			
DRILLING COMPLETED 10/9/84	2-7/8	5684	564	41
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners used			
REWORKING. VERBAL PERMISSION OBTAINED ON				
C7.A				n foo
TOTAL MADEET FORMATION Wild Cat				<u>0</u> fee
GEOLOGICAL TARGET FORMATION Wild Cat  Depth of completed well 5684 feet	Rotary :	Cab	le Tools_	
Depth of completed well 5684 feet	; Salt	/ Cab	le T∞ls_	
Depth of completed well 5684 feet	; Salt	/ Cab	le T∞ls_	
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A	Is coa	( / Cab 5684 fee 1 being mi	le Tools_ t ned in th	me area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA	SAITIS COA	Cab 6684 fee being mi	le Tools_t ned in th	e area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale	P	Cab 6684 fee 1 being mi ay zone de nitial ope	le Tools_t ned in th pth 4850-1	me area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Cas: Initial open flow 450 Mcf/d	Is coa  Oil: I	Cab 6684 fee 1 being mi ay zone de nitial open	le Tools t ned in th pth 4850-3 n flow flow	ne area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d	Is coa  P Oil: I	Cab 6684 fee 1 being mi ay zone de nitial oper inal open final test	te Tools_tened in the pth 4850-sen flow_series 24 tened to the pth series 2	ne area?  5100 fee  Bbl/ Bbl/ nours
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d	Is coa  P Oil: I	Cab 6684 fee 1 being mi ay zone de nitial oper inal open final test	te Tools_tened in the pth 4850-sen flow_series 24 tened to the pth series 2	ne area?  5100 fee  Bbl/ Bbl/ nours
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Cas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d  Time of open flow between in  Static rock pressure 1200 psig(surf	Is coa  Is coa  P Oil: I  itial and  ace measur  on)	Cab 6684 fee 1 being minary zone denitial open final open final test final test	le Tools  t  ned in th  pth 4850-5  n flow  flow  s 24 1	ne area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d  Time of open flow between in  Static rock pressure 1200 psig(surf  (If applicable due to multiple complete	Is coa  P Oil: I  itial and  ace measur  con)	( / Cab 5684 fee 1 being mi ay zone de nitial open final test ement) aft	ter 24 heepth	ne area?
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Gas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d  Time of open flow between in  Static rock pressure 1200 psig(surf  (If applicable due to multiple complete  Second producing formation	Is coa  P Oil: I  itial and  ace measur  on)  Oil:	( / Cab 5684 fee 1 being mi ay zone de nitial open final test ement) aft Pay zone de Initial open	ter 24 horest	Bbl, nours curs shut:
Depth of completed well 5684 feet  Water strata depth: Fresh 100 feet  Coal seam depths: N/A  OPEN FLOW DATA  Producing formation Brown Shale  Cas: Initial open flow 450 Mcf/d  Final open flow 450 Mcf/d  Time of open flow between in  Static rock pressure 1200 psig(surf	Is coa  Is coa  P Oil: I  itial and  ace measur  con)  I Oil: I	( / Cab 5684 fee 1 being mi ay zone de nitial open final test ement) aft Pay zone de Initial open	ter 24 horest	Bbl. Bbl. Bbl. Bbl. Bbl. Bbl. Bbl. Bbl.

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

Rhinestreet

Perforated 4850-5100 32 holes 39" 500 gal. acid Stimulated with 1,400 Mscf of  $\rm N_2$  and 500 gal. acid

Breakdown Pressure: 2500 Psig

N2 Rate 64,000 Scf/Min

#### WELL LOG

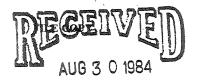
FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil Sand Redrock Sand Slate Maxon Big Lime Big Injun Shale Brown Shale Uriskany Onadoga Lime Oriskany		0 10 30 250 1456 1630 1704 2200 4690 5465 5490 5650	0 30 250 1450 1560 1704 1768 4690 5460 5490 5650 5684 TD	Oil @ 5100' Gas Show 1,000 Mcf/day Gas 100 bbld Salt H <sub>20</sub>
	5684 5460 224 expl.	ftg.		5684 new TD 5250 OLD TP 434-DD Ftg

(Attach separate sheets as necessary)

Harry C	Roggs Operato				·	
Well	Operato	C				
By:				 and the Control of th	-	 
Date:	January	2,	1985			T-100-100-100-100-100-100-100-100-100-10
***************************************	WILLIAM TO THE TAXABLE PROPERTY.					

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 earl, encountered in the drilling of a well."





1) Date: August 24, , 19 84

2) Operator's C. S. West #3

3) API Well No. 47 - 0.87 - 1575 - D. State County Permit

File

OIL & GAS DIVISION

# DEPT. OF MINES STATE OF WEST VIRGINIA OF MINES STATE OF WEST VIRG

#### APPLICATION FOR A WELL WORK PERMIT

				v	v				
4) WELL TY	YPE: A C	oil	/; G	as^	<u>^</u> /	w	storage	Deep XX	, G1 11
5) LOCATIO		vation: _					storage Sand Lick Rui		
3) LOCAIN									Walton LOONEYV
6) WELL OI								AGENT Har	
Addres			Box		***************************************	***************************************	Address	P.0	. Box 198
					25276	<del></del>		Spe	ncer, WV 25276
8) OIL & GA		-	•				9) DRILLING CO	NTRACTOR:	
	Hom						*	Harry C.	Boggs
	ss <u>Lo</u>							P.O. Box	
								Spencer,	WV 25276
10) PROPOSI	ED WELL	WORK:	Drill		/ Drill	deeper XX	/ Redrill	/ Stimulate	<b>x</b> /
,							rate new formation_		handing and a second a second and a second a
			_						
11) GEOLOG	ICAL TAR	GET FOR							
						feet			
							t,	feet.	
14) Appr	oximate coa	l seam dep	oths:	N	lone	Is co	oal being mined in the	area? Yes	/ NoXX/
15) CASING	AND TUBI	NG PRO	GRAM						
CASING OR		SPEC	CIFICATION	s	11	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						1879	1000		Kinds
Fresh water	8-3/4			1		1290	legn.	250 SX	- EXISTING
Coal			1			1014	1 77	400 M	Sizes
Intermediate	5½					5190	5190	fill to tie si	n to 83/4"
Production	31/2					7000	7000		epobyerrule 15.0
Tubing									
Liners									Perforations:
									Top Bottom
					-		The state of the s	Pulita U	
						OFFICE USE	ONLY		t de la companya de
					I	DRILLING PE	ERMIT		
Permit number	47	7-087-	1575 <b>-</b> D	D				August	31. 1984
eriint number.								Da	
This permit cox	vering the w	eli operat	or and we	II locati	on shown	helow is evidence	of permission grante		nce with the pertinent legal re-
quirements sub	ject to the c	onditions	contained	herein a	and on the	reverse hereof N	otification must be g	iven to the District O	oil and Gas Inspector, (Refer to
								ell operator or his co	ntractor shall notify the proper
. "	•					ork has commence	•		
The permitted v everse hereof.	work is as d	escribed in	1 the Notic	ce and A	Application	, plat, and reclam	nation plan, subject to	o any modifications a	and conditions specified on the
Permit expires	Αι	ıgust	31, 19	86		unlass wal	I work is sommonsed	prior to that data and	d measured with due diligence
remm expires	****					uniess wer	ii work is commenced	prior to that date and	d prosecuted with due diligence.
i.			Т						
Bond:	Agen	t: 4.	Plat:	Casin	ng	Fee			1
Bland 1	V,	1 17	n/11	m	1/30	-89	The second secon		
70.700		/		. 8 //	, 101		- m		1)
						- · · · · · · · · · · · · · · · · · · ·	A deni	nistrator, Office of	Oil and Cas
NOTE: Keep	one copy of	this pern	nit posted	at the d	rilling loca	ition.	Admi	monator, Office of C	on and Oas