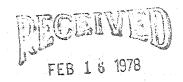


2650' Big Injun & Bartz 142



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



Oil and Gas Division MEFT. OF WINES

o Vadie 74	WELL	RECORD			Gas_***
Quadrangle Vadis 7½					Combod Storage
Permit No. Dodd- 1879				Dienocal	(Kind)
				Disposai	(Kind)
Company Rockwell Petroleum Company		Casina and	Iland in	Left	Commit fill wa
Address Sand Fork, W. Va.		Casing and	Used in	in Well	
Farm Graham-Doak Ac		Tubing	Drilling	III WEII	Cu. ft. (Sks.)
Tanting (material Little Cove Creek	<	Size			700-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-17-100-1
Well No. 2-A Ele District Cove County	v. <u>1274</u>	20-16		Advantage of the second of the	The state of the s
District County County	oddridge	Cond.			
The surface of tract is owned in fee by		13-10"			
Bryan Pierce		9 5/8			
Address Troy, W. Va.		8 5/8	303	303	To Surface
Mineral rights are owned by Graham an	d_Doak	7			
Mineral rights are owned by Graham an WEST Union, W.	va.	5 1/2			
Drilling Commenced 11-10-77		4 1/2		2720	160 sks
Drilling Completed		3			
Initial open flow show cu. ft.	bbls.	2			
Final production500_MCEu. ft. per day	Qbbls.	Liners Used			
Well open 4 hrs. before test	705 1 kp.				
Well treatment details:		Attach copy of c	ementing rec	ord.	
Water Frac 1-9-78	Perfo	orated interva	ls		
721 Bls of Water			2286 to	2287	2 Holes
40 thousand 1b of 20/40 s			2298 to	2301	4 Holes
500 gal of acid	SISTEMATICAL EDITOR CONTRACTOR CO		2308		1 Hole
Breakdown at 2250 lb			2316 to	2318	2 Holes
Avg. injection rates 17	.8 Bls at 2	2078 lb			
Coal was encountered atNone	Fee:		Inch	es	
Fresh water 110 ft Fee	et	Salt V	Vater		Feet
Producing Sand Big Injun		Depth	2286 t	<u>:0 2318 1</u>	feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas o	or Water	* Remarks
Surface	0	100			
Shale	100 189	189			
REd Rock Shale	233	233 304			
Red Rock	304	325			
Shale	325	455			
Red Rock	455	510			
Shale and Slate	510	732			
Red Rock	732	789			
Shale	789	935			
Slate Red Rock	935 955	995 1050			
Shale	1050	1233			
Red Rocl	1233	1302			
Shale and Slate	1302	1455			
Red Rock	1455	1500			
Shale	1500	1642			
Sandy Shale	1642	1810			
Shale	1810 1850	1850 1862			
Shale, sandy	1862	1966			1000 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m
Sand	1966	2022			
Shale	2022	2056			

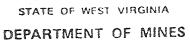
(over)

^{*} Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 1	Bottom Feet	Oil, Gas or Water * Remarks
Sand Shale Sand, shale Limestone Shale Siltstone Shale Gantz Shale Total Depth	2056 2088 2111 2168 2356 2426 2556 2630 2640 2744	2088 2111 2168 2356 2426 2556 2630 2640 2744	
	en un control de la control de	diamental properties of the control	
	obgre e governorment de constante de constan	minimización por l'Arganización	
	- CONTRACT		
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		egenio - Language - Cara - Car	
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		alle control of the c	
	*Villa er allen e el-v		
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			Programme Control Control
	pulmenta was not a second and a second a second and a second a second and a second a second and a second and a second and		
	es en		
			MANTE SALE GRADE
	and medicular an		
chanterateries surreportet transcription and present and a surreported and a surrepo	gonzan Grantzero control a marco en	Data	Febuary, 13 19 78

Date Febuary 13	, 1978
APPROVED TO	
By Rartner	
(Title)	







OIL & GAS DIVISION DEFT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

o the department of mines.			
Charleston, W. Va.	DATE	October 29, 1	977
riace Owner Mr. Bryan Pierce			um Company dba Bo-
dress Troy, W. Va.	Address		and Fork, W. Va. 128
neral Owner Doak and Graham	Farm	Graham-Doak	Acres
dress West Union, W. Vo.	Location ((waters) Little Co	ve Creek
el Owner	Well No	_	Elevation 1274 Doddrie
Arese	District		County
None al Operator		_e Vadis 7.5	
idross			
HIS PERMIT MUST BE POSTED AT THE WELL	SIT E		
All provisions being in accordance with Chapte of the W. Va. Code, the location is hereby app	TO BE NOTE:	FIED <u>Paul Gar</u>	rett
or <u>drilling</u> . This permit shall ex	opire if		
operations have not commenced by 3-1-78	3 ADDRESS	Clarksbu	rg, W. Va.
Robert I sous	PHONE 62	2-3871	÷
Deputy Director - Oil & Gas Division			
entlemen:		1 C	I for all and see having to
The undersigned well operator is entitled to dr	ill upon the above name	November 5	76 by Jim Doak:
The undersigned well operator is entitled to drittle thereto, (or as the case may be) under granters Graham made to Mack R. Wor	t or lease dated	IJ_	16 day of August
77 Doddridge	102 Page	567	Lay Or
in Doddridge County, Book			
+++++ NEW WELLDRILL DE			CTURE OR STIMULATE
OIL AND GAS WELL ORIGINALL	Y DRILLED BEFORE	JUNE 5, 1969.	
The enclosed plat was prepared by a registered	d angineer or licensed l:	and surveyor and all co	oal owners and/or operator
The enclosed plat was prepared by a registered ave been notified as of the above date.	a engineer of member in		4
The above named coal owners and/or operator o make by Section 3 of the Code, must be received	are hereby notified that wed by, or filed with the	any objection they wise Department of Mines	sh to make, or are require within ten (10) days. *
Copies of this notice and the enclosed plat wer	re mailed by registered n	nail, or delivered to the	above named coal operator
r coal owners at their above shown respective a ame day with the mailing or delivery of this cop	rddress	uay	UCLOSE, OL OIL 100
ame day with the manning of delivery of this cop.			Petroleum_Company
LEASE SUBMIT COPIES OF ALL	Very truly		ELIOTEGIII
CEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name	Well Opera	ntor
		P.O. Box 86	
VEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	Address	Street	
O. BOX 879	of	c 1 C	
ORGANTOWN, WEST VIRGINIA 26505	Well Operator	Sand Fork City or Town	n _
C-304 - 292-6331		West Virginia 26	430
		State	
*SECTION 3 If no objections are filed or factive and plat by the department of mines, to said properties filing of such plat, that no objections have been made	second location. The demailing	ent shati torthwith tasuc to t	the west operator a position and
and the well operator authorized to proceed.			
		DODD-1879	PERMIT NUMBI
		47-021	
"I have read and understand the reclamation require			

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	AxxxDRILL				
DRILLING CONTRACTOR: (If I	Known)		RESPONSIBLE AGENT:		
NAME G. L. Haught and		TELEPHONE 462-8366			
ADDRESS Smithville, W. Va	Las compressiones and compression of states and states and states and an experience of the states and the state				
TELEPHONE 477-3333					
ESTIMATED DEPTH OF COMPLI	ETED WELL: 2650	ROTARY ***	CABLE TOOLS		
PROFOSED GEOLOGICAL FORM	ATION Big Injun an	d Gantz			
TYPE OF WELL: OIL	GAS ***	COMB STORAG	E DISPOSAL		
	RECYC	HING WATER FL	OOD OTHER		
TENTATIVE CASING PROCRAM	:				
CASING AND TUBING SIZE	USED FOR DRILLING	LLIT IN WELL	OR SACKS - CUBIC FT.		
20 - 16	e de la companya del la companya de la companya del la companya de				
13 - 10	antiganticionen film austi autres, mi skultividijadoin (k. h.) – ett i interpropriese, language es killis (k. essentari				
9 - 5/8		0.40. C.	T 6 . 5		
			To_Surface		
7	Control Service Service and restrictions of the service Servic	Appropriate the state of the st			
5 1/3	American in the address to the second	2650	160 sks Pozz		
1	a capital facility (see proceedings of their capital to the lay on the capital the capital the capital difference. Sold of	AND THE RESIDENCE OF THE PARTY	Perf. Top		
1			Pert. Bottom		
\$ inces	A CONTRACTOR OF THE PROPERTY O		FCB. LOP		
		and the property of the state o	Peri. Boston		
	magner, a a shina na na dallata say le r finance, a ninging si a si da si da sanannan na mina si bidata daga s mini da Mari sa sa na magneria da sa da da da sa	o es es l 'annes colonias es es es es es es			
TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PE	RMIT FEE, PERFORMANCE	BOND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRIE	JI.:				
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT	TO 1929, A PERMANEN	RIGINAL PERMIT NUMBER . T COPY OF THE PLAT ANI	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
			5) COPIES OG - 1, PERFORMANCE		
OIL AND/OR GAS WELL O			929, FIVE COPIES OG - 1, SHOW-		
Required forms must be file four (24) hours in advance.		of completion for bond release	se. Inspector to be notified twenty-		
The second secon					
thereof.			he issued within ten days of receipt		
WAIVER: I the undersigned, Ag this lease have exami	ent forned and place on our mi	Coal Company, Owne maps this proposed well to	rner or Operator of the coal under scation.		
We the	Coal Comp	pany have no objections to said	d well being drilled at this location, nd 7, Chapter 22 of the West Virginia		
Code.					
	4.		For Coal Company		

Official Title