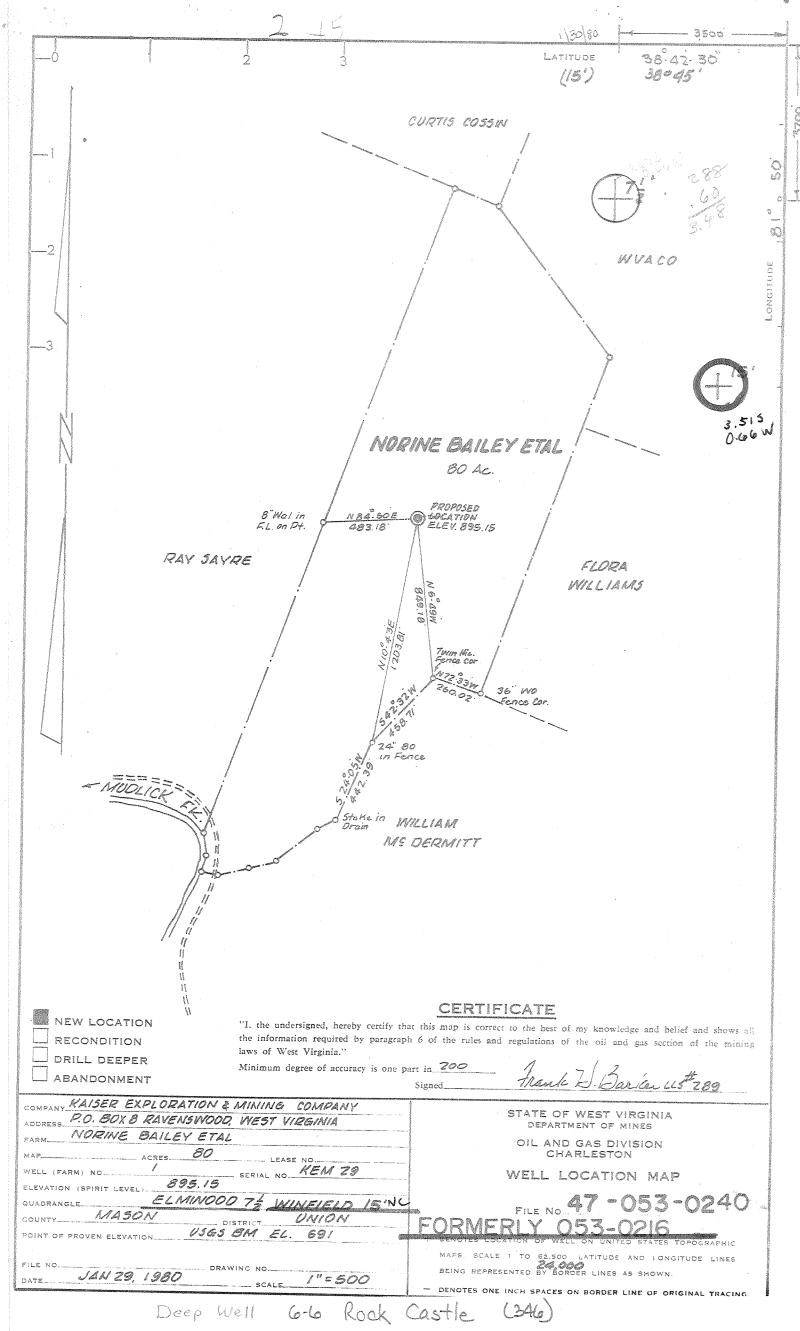


0 wwo -



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

Quadrangle_Elmwood Permit No. MAS 240	RD \	Cable Recycling_	Oil Oil Comb Comb (Kind)
Company Kaiser Exploration and Mining Company Address P. O. Box 8, Ravenswood, WV 26164 Tut Faim Norine Bailey et al Acres 80	- 1	Lest in' Well	Cement fill up Cu. st. (Sks.)
Well No. KEM #29 Elev. 895.15 20-16 District Union County Mason Cond.			
The surface of tract is owned in fee by 13-10"] Norine Bailey, et al 9 5/8 -	0 3/4' 255'(KB)	255'(KB)150 sks class (to surface)
Address 3939 Rickles Rd., Columbus, OH 43220 8 5/8 Mineral rights are owned by Same 7 6 Address Same 5 1/2	2676'(KB)	267 6'(KB	65 sks 50/50)100 sks class (1400' fillup
Drilling Commenced 10/22/80 4 1/2 Drilling Completed 10/28/80 3	4935'(KB)	4935' (KB)225 sks 50/50 (2000' fillup
Final production 700 M ou. ft. per day == bbls. Liners Us Well open 6 hrs. before test 1800 RP.	sed		
	opy of cementing reco	ord.	2
Perforated Oriskunv from 4840' 4848' (KB). 4 holes/ intropen hydrofractured zone w/30.000# 80/100 sand HCL acid. 190.000 SCF of nitrogen, and 945 bbl of psig; treated zone at 22.5 BPM, 4050 psig pressure 4200 psig; instantaneous shut in pressure was 3600 was 3200 psig; used 2223 hydraulic horsepower. Coal was encountered at	. 30.000# 20/40 water; breakdow; ; maximum recor psig; 15 minute Inche	sand. 10 n pressure ded pressure shut in	00 gal 28% e was 3200 ure was pressure - Feet

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas of Water	· Remaiks
Suil and	Shala	. •	0	2)	-	Committee and the second secon
Sand	211016		21	21 53		
Siltston	ω.		53		· 5	,
Sand	C		132	132		
Siltston	د.	<i>:</i>	1/3	1/3	•	
Red Rock	C		284	284		
Sand			8	649		
Shale			649	660		
Sand			660	715		
Red Rock		* .	715	731		
Shale			/31	1001		% ·
in the			1001	1022		•
			1022	1050		
Shale	1		1050	1078		
Sand			10/8	1092	,	
Shale			1092	1143		
bond			1143	11:71	•	
Shale				1166		
Sand			1166	1233		enga e ■ egg e ^{nge} e
· itale			1213	1308	7	
Call			801.1	1456		
Shale			1456	1/16		
Sand			1/16	1734	ì · · · · · · · · · · · · · · · · · · ·	•
Shale	•		1/34	1752	, .	

the manner of the same	The sale of the sale of the sale of		Oil, Gas or Wate	· Themales
Color Fird of Soft	Top Feet	Bottom Fest	and the commence of the property of the property of the comparing of the c	and the second s
Sand Shale Sand Shale Sand Big Lime Shale Big Injun Shale	1752 1765 1832 1855 1892 1959 2052 2097 2144 2537.	1765 1832 1855 1892 1959 2052 2097 2144 2537 2558		n KB-907
Berea Sand GRW9-4:9071 KB Shale	2558 2573	2573 3744	3/1	38', 3208', 3280' 75', 3715'
Brown Shale	3744	4195	Show/Gas 37	53', 3873', 4025' 85'
Shale Marcellus Shale Onondaga Lime Oriskany Sand Helderberg Lime	4195 4526 4744 4821 4861	4526 4744 4821 4861 4950	Show/Gas 45	25', 4455' 50', 4658', 4685' 72'-91'
Total Depth	4950			g grande en 1960 - 5 Grande en 1960 - 5
		•	e dimensional	
l popular				
GR log - el 907/KB H 3750 J 4190 A 4325 Rh 4529 On 4745				
•				
				٠,
		principal de la companya de la compa	·	
		£,		
			-	
				The second secon

nar December 3.

Suranyo NO Proce /de

December 3.

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

			cporc or ,	ACTI MOLK		
Farm name:	BAILEY, NOR	INE	Operator	Well No.:	KEM 29 BA	ILEY
LOCATION:	Elevation:	895.15 Quad	rangle: EI	LMWOOD		
	District: 1 Latitude: Longitude	UNION 3200 Feet Sou 3500 Feet Wes	th of 38	ounty: MASON Deg. 42Min Deg. 50 Min	30 Sec	•
P. RAV	KE ENERGY, II O. BOX 8 ENSWOOD, WV N V. McCALLI:	26164-0000	[&]	kkkadxxixx EXISTING kkkkkkxixxx		Cement Fill Up Cu. Ft.
			Size		Ç.	1
Permit Issu	JERRY TEPHABO ed: () ommenced: 0	07/12/90	_10-3/4"	255'		1 150 sx
plug-back work C plug-back work C Verbal Plug Permission	granted on:		 7" 	2676'		1 165 sx
plug-back Depth	(feet) depths (ft)	41100 ft	 4-1/2" 	4935'		 225 sx
Salt water	depths (ft)		entered interests			Exemples Column
Is coal bei Coal Depths	ng mined in a (ft):N/A	area (Y/N)? _N			 	
OPEN FLOW D.	ATA		i			
T	ing formatior nitial open f inal open flo ime of open f rock Pressur	Devonian Brown low MCF, w 80 MCF, low between in ce 900 psice	o fi Nitial and	Pay zone of itial open nal open fl final test pressure)	0	Bbl/
		ormation	/d Oil: In /d Fi nitial and	Pay zone ditial open nal open fl	depth (ft)	·
LOG WHICH	IS A SYSTEMA	FORM PUT THE DR STIMULATING, ATIC DETAILED RED BY THE WELL	PHYSICA GEOLOGICA	L CHANGE, L RECORD C	Tranc 2 /	mirro ricer

For: PEAKE ENERGY, INC

By: John V McCallister, Assistant Operations Manager Date: 8/29/90

SEP 1 4 1990

FORM WR-35 (Reverse)

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

8/15/90

Young's Wireline set permanent, mechanical plug with cal-seal in 4-1/2" casing at 440 ft. Perforated the Brown Shale interval from 3713 to 4188 ft with 31 holes.

8/16/90

Dowell foam-fractured the Brown Shale using 60,000 lbs of sand, 297 bbl of fluid, and 616,000 SCF of nitrogen. BDP = 2050 psig. ATP = 2300 psig. ISIP = 1250 psig.

WELL LOG

FORMATION	TOP	BOTTOM	REN	MARKS
NOTE: Well was originall drilled and completed in the Oriskany Sand by Kaiser Exploration & Mining Co. All casing and formation data remains th same as previously submit by Kaiser in 1980.	0			
10365-				

FORM WW-2B

Page 1 of 1

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

O7/12/92

WELL	WORK	PE	RM	ΙT	Al	P	L	IC	CAT	ï	ON
		1		4							

1)	Well Operator: Peake Energy, Inc. 37085 (9) 33	8
2)	Operator's Well Number: Kem #29 Bailey 3) Ele	evation: 895.15
4)	Well type: (a) Oil/ or $Gas x$ /	
	(b) If Gas: Productionx/Underground Storage Deep/ Shallow	
5)	Proposed Target Formation(s): Devonian Brown Shale	
6)	Proposed Total Depth: 4188 feet	·
7)	Approximate fresh water strata depths: Not Reported	
8)	Approximate salt water depths: Not Reported	
9)	Approximate coal seam depths: Not Reported	
10)	Does land contain coal seams tributary to active mine? Yes	es/ No_x_/
11)	Proposed Well Work: Set Perm. Plug and Cal-Seal over Oriskany at A	400'.
12)	CASING AND TUBING PROGRAM Existing W	
TYPE	SPECIFICATIONS FOOTAGE INTERVALS	CEMENT
	Weight For Left in Size Grade per ft. drilling well	Fill-up
Condi	actor 10/4 255/88/(855)/KB.	130 StSUASA
Fresh	n Water	
Coal		653K: 5050 TOZA
Inter	mediate 7" DM NW - 8676KB	p 1400 fill up
Prbdu	1ction 42 1935 KB	50555
<u>Tubir</u>	ng d	NDAY CLU
Liner	Oil an	Gitting
PACKE	CRS : Kind	Section
2/0	O Sizes	
	For Divison of Oil and Gas Use Only	
	Fee(s) paid: Well Work Permit Reclamation Fund	WPCP
D.	Plat 1 WW-9 WW-2B WI Bond Stanker Sul	Agent
1	/(Type)	

מאמת	1 of		1)	Date	June 6, 1990	
Form	WW2-A		2)	Operator	's well number KEM #29	4
(09/	87) Copy		31	APT Well	No: 47 - 053	_ 0240 -FR2
LITE	CODY		3 ,		State - Count	ty - Permit
		STATE	OF WEST	VIRGINIA		٤
		DEPARTMENT OF EN	RGY, DI	VISION OF	OIL AND GAS	W 2 2
		NOTICE AND APPLIC	ATION F	OR A WELL	WORK PERMIT	Oil and Gas Source
4)	Surface O	wner(s) to be serv	red:	5) (a) C	oal Operator:	Oil and Gas Section
	(a) Name	Norine Bailey				
	Address _	Norine Bailey 3939 Bickles Road Columbus, OH 43220	<u> </u>	Address		
	/ h \ % 1 1 1 1 1 1 1 1 1	Columbus, Un 43220)	(b) Coal	Owner(s) with	Declaration
					Owner (S) wren	
	Address _			Address		
	(c) Name					
	Address _					
				Address		
6)	Inchector	Jerry Tephabock		(c) Coal	Lessee with D	eclaration
0)	Address	Rt. 1, Box 101A		• •		
		Ripley, WV 25271		Address		
	Telephone	(304) - 372 6805				
		TO THE PERSON(S)	NAMED AB	OVE TAKE	NOTICE THAT:	
	Included	is the lease or l	eases or	other co	ntinuing contr	act or
cont	racts by w	hich I hold the r	ight to	extract o	il and gas <u>OR</u>	
_X	Included	is the informatio	n requir	ed by Cha	pter 22B, Arti	cle 1,
Sect	ion 8(d) o	f the Code of Wes that as required	t virgin	ila (see p	Dage 2)	Virginia Code
ĭ hə	ve served	copies of this no	tice and	napcer 22 Lapplicat	ion, a locatio	n plat, and
acco	mpanving d	ocuments pages 1	through	on th	ne above named	parties, by:
	Pers	onal Service (Aff	idaviť a	ttached)		
		ified Mail (Postm				
	Publ	ication (Notice o	f Public	ation att	ached)	
	I have re	ad and understand	Chapter	22B and	38 CSR 11-18,	and I agree
to t	he terms a	and conditions of	any perm	nit issued	l under this ap	plication.
	I certify	under penalty of	law tha	at I have	personally exa	imined and am
fami	liar with	the information s	ubmitted	d on this	application fo	orm and all
latta	chments, a	and that based on	my inqui	ry of the	se individuals	immediately
		or obtaining the i		ion, I bel	lieve that the	information
ıs t	rue, accur	ate, and complete e that there are	cianifia	ant nensi	lties for submi	ttino false
info	l all awal rmation i	ncluding the poss	ihility	of fine a	and imprisonmen	it.
1111	Jimacion, I	Well C	perator.	PEAKE E	NERGY, INC.	
		By:	JAN ME	caf line	-	
	,	Its:			ted Agent	
		Addres	S	P. O. B	ox 8	
				Ravensw	ood, WV 26164	-
Subs	scribed and	Teleph I sworn before me		day of	June	, 19 90
0 0) ./ ^	0				
	John Kel Commission	expires Octo	ober 28.	1003		_Notary Publi
tit A	- Primit 22 TOH	Cybires	vari co.	لدرزر		





Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE October 7, 1980
Surface Owner Norine Bailey, et al	Company Kaiser Exploration and Mining Company
Address 3939 Bickles Rd., Columbus, OH 43220	
Mineral Owner Same as above	
Address	Location (waters) Mud Lick Fork
Coal Owner Union Carbide Corporation	
Address 32 Sanderson Road, Clendenin, WV 2	5045 District Union County Mason
Coal Operator Same as above	Quadrangle_Flmwood
Address	
IS PERMIT MUST BE POSTED AT THE WELL SITE	
provisions being in accordance with Chapter 22, the W. Va. Code, the location is bereby approved	INSPECTOR
drilling . This permit shall expire if	TO BE NOTIFIED <u>Kenneth Butcher</u>
erations have not commenced by 6-10-81	ADDRESS <u>RFD #1, Barboursville, WV 25504</u>
Deputy Director - Oil & Gas Division	PHONE736-4885
GENTLEMEN:	en e
The undersigned well operator is entitled to drill upon	the above named farm or tract of land for oil and gas, having fee
itle thereto, (or as the case may be) under grant or leas	se dated _August 18 1978 by Norine
Bailey, et al made to Kaiser Exploration a	nd Mining Gorecorded on the 14th day of November
19.78, in Mason County, Book 44	Page107
X NEW WELLDRILL DEEFET.	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILL	ED BEFORE JUNE 5 1969
The section of the se	er or licensed land surveyor and all coal owners and/or operators
o make by occion o of the code, must be received by, o	by notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to the	by registered mail, or delivered to the above named coal operators day
CLFASE SUBMIT COPIES OF ALL SECRETS ALL SECRETS AND ALL SECRET	(Sign Name) A P
	R, A, Pryce, Operations Manager Kaiser Exploration and Mining Company Street
c. 0. BOX 879 **GORGANTOWN, WEST VIRGINIA 26505 **********************************	
	Ravenswood, West Virginia 26164
	State
	The state of the s

47-053-0240

of

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

PROPOSED WORK ORDER	TO X DRILL	DEEPENF	RACTURE-STIMULATE			
DRILLING CONTRACTOR:	(If Known)	RESPONSIBLE AGENT:				
NAME Not known at the	present time	NAME Robert A. Pryce				
		· · · · · · · · · · · · · · · · · · ·				
TELEPHONE		TELEPHONE 273-5371				
ESTIMATED DEPTH OF CO	MPLETED WELL: 4990'	ROTARY X	CABLE TOOLS			
PROPOSED GEOLOGICAL F	ORMATION: Oriskany					
TYPE OF WELL: O	OIL GAS_XC	OMBSTORAGE	DISPOSAL			
	RECYCLI	NG WATER FLO	OODOTHER			
·	2_					
TENTATIVE CASING PROG	RAM:					
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP			
SIZE	DRILLING	WELL	OR SACKS - CUBIC IT			
20 - 16						
13 - 10						
9 - 5/8 10 3/4"	250	250	Cement to surface			
8 - 5/8						
7 5 ½	2650	2650	125 sks = 570 feet			
4 ½	4990	4990	125 sks - 1500 feet			
3			Perf. Top			
2			Perf. Bottom			
Liners			Perf. Top			
			Perf. Bottom			
APPROXIMATE FRESH WAT	TER DEPTHSFEET _	SALT WATER _	FEET			
APPROXIMATE COAL DEPT	HS					
IS COAL BEING MINED IN	THE AREA? Not at this t	ime BY WHOM?				
TO DDIII.						
TO DRILL:	IDC 07 00					
OF PLAT.	IES OF OG - 1, \$100.00 PERMI	T FEE, PERFORMANCE BO	OND AND PERMANENT COPY			
TO DRILL DEEPER OR RED						
SUBMIT FIVE (5) COPI	ES OF OG - 1, SHOWING ORIGI	NAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON			
MUST ALSO BE SUBMI	R TO 1929, A PERMANENT CO	OF THE PLAT AND T	HE ORIGINAL WELL RECORD			
TO FRACTURE - STIMULAT	F-					
BOND, PERMANENT PI	L ORIGINALLY DRILLED BEFOR AT AND ORIGINAL WELL REC	KE JUNE 5, 1929, FIVE (5) (WRD	COPIES OG - 1, PERFORMANCE			
	L ORIGINALLY DRILLED ON AN		0 FIVE CORIES OC 1 SHOW.			
ING ORIGINAL PERMIT	NUMBER, AND PERFORMANCE	BOND.	9, FIVE COPIES OG - 1, Show-			
four (24) hours in advance	filed within ninety (90) days of c	completion for bond release.	Inspector to be notified twenty-			
The following waiver mu	ist be completed by the coal opc	rator if the permit is to be	issued within ton days of receipt			
thereof.						
	Agent for					
this lease have exam	mined and place on our mine ma	ips this proposed well locati	ioñ			
We the	Coal Company l	have no objections to said w	ell being drilled at this location,			
providing operator h	has complied with all rules and regu	lations in Articles 4, 5, and 7	7, Chapter 22 of the West Virginia			
Code.	*		ALC:			
•	;	`	The second secon			
	,	F.,	or Coal Company			
		, (an aloue of our growing			