

AUG 1 2 1977



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

RECEIVED) MAR - 6 1978

OIL & GAS DIVISION DEFT. OF MINES

Rotary XXX

Cable_____ Recycling____

Water Flood__ Storage_

Oil_

Comb.

Oil and Gas Division

WELL RECORD /8

Quadrangle Cottageville	7	1/2	200
_			

Location (waters) Br. Loglick Run

The surface of tract is owned in fee by_

Initial open flow 133 M. cu. ft. _

Box 98, Ravenswood, WV

Mineral rights are owned by Same as above

Final production 266 MCFDcu. ft. per day _____bbls.

Kaiser Exploration & Mining Co.

_ County_ Jackson

_ Elev. 666

Permit No. <u>JAC-141</u>0 47-035

Address Box 98, Ra Farm Clara Baker

Well No. DEK #48

Clara P. Baker Et al.

Evans, WV

Address
Drilling Commenced 8/3/77
Drilling Completed 8/14/77

District Union

Company_

		Disposal	(Kind)
Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8	206	206	100 Sax
8 5/8			
7	2284	2284	75=625
5 1/2			
4 1/2	4593	4593	150 Sax=1657'
3			
2		4540'	

Well open _____hrs. before test 1650_ RP.

Well treatment details: Attach copy of cementing record. Halliburton

Perforated Oriskany section at 4510' - 4511' and 4520' - 4522' with 8 Omega Jet shots/foot.

Fractured Oriskany with 924 bbl water, 7000 lbs. 80/100 and 30,000 lbs. 20/40 sand, 135,000 scf nitrogen at 14.8 bbl/min.

Liners Used

Coal was encountered at None Feet Inches

Fresh water Feet Salt Water Feet

Producing Sand Oriskany Sand Depth 4510-4522

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks	
Shale	THE COLOR OF THE PARTY OF THE P	THE CHARLES AND ASSESSMENT OF THE STATE OF T	0	54		and the second section of the second section of the second section second secon	
Sand	•		54	62			
Shale			62	234			
Sand			234	248			
Shale			248	322			
Sand			322	340			
Shale			340	422			
Red Rock			422	466			
Sand			466	484			
Red Rock			484	542			
Sand			542	548			
Red Rock			548	572	T		
Sand			572	577			
Red Rock			577	646			
Shale			646	737	L-TV D		
Red Rock			737	853		•	
Sand			853	870			
Shale			870	920			
Sand			920	926			
Shale			926	980			
Salt Sand		na na Salaha Marajaran	980	1067			15
Shale		. **	1067	1143			
Sand		i sa	1143	1168			
Shale	The first section	en en en la lace de la	1168	1206	And the second s		

(over)

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

		4	-	
Formation Co	lor Hard or Soft	Top Feet/%	Bottom Feet	Oil, Gas or Water * Remarks
Sand Shale Sand Broken Sand Maxon Big Lime Shale Injun Sand Shale Coffee Shale Berea Sand Shale Brown Shale Brown Shale Brown Shale Brown Shale Shale Injun Sand Shale Brown Shale Brown Shale Brown Shale Brown Shale Shale Injun Sand Shale Brown Shale Brown Shale Brown Shale Brown Shale Shale Marcellus Shale Onondaga L.S. Oriskany Sand Helderberg L.S. Log Total De		1206 1231 1252 1263 1273 1305 1400 1411 1426 1430 1463 1466 1501 1506 1559 1648 1720 1743 1885 2203 2220 2227 3386 3854 4265 4412 4491 4523	1231 1252 1263 1273 1305 1400 1411 1426 1430 1463 1466 1501 1506 1559 1648 1720 1743 1885 2203 2220 2227 3386 3854 4265 4412 4491 4523 TD 4613	
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	:			o o niska o oji naziji Vistorija Vistorija

March 2 Date. APPROVED 4 By Operations Manager

(Title)





DEPARTMENT OF MINES

OIL & GAS DIVISION DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

						e de la companya della companya della companya de la companya della companya dell	*
							w.,
TO THE DEPARTMENT	of Mines,						
Charleston, W.	Va.	D.	ATE	July 2	7, 1977		
Surface Owner	Clara P. Baker, et al	C	V 244 5.240 Ev 21.	Kaiser	Explorat	ion & Min	ina Co
	ans, West Virginia 252	7.7	ddress		, Ravensw		
	ara P. Baker, et al	Fa	arm	Clara I	Baker	Acres	108
Address Evans	s, West Virginia 2524				· Locklid		.,
Coal Owner San	ne as above						- 666
Address	·		istrict	Union			Jacksor
Coal Operator Not	t operated			·	eville 7½		
Address			nemangic				
***************************************	POSTED AT THE WELL SITE						eî.

All provisions being in	accordance with Chapter 22.						
of the W. Va. Code, th	e location is hereby approved	INSPE		•			
or <u>drilling</u>	This permit shall expire if	TO BE	NOTIF	IED	Richard	Morris	
operations have not com	menced by <u>12-1-77</u>	ADDRE	SS		Grantsv	ille. W.	Va
Notest 2	Poll -	###A###	• ~ ~ .	. 3050			
Deputy Director - Oil	& Gas Division	PHUNE	35	4-7259	*****		•
GENTLEMEN:							1 -
The trademicaed mall a	perator is entitled to drill upo						
XXX NEW WELL	County, Book 117 DRILL DEEPER				ED A C	מת שמוני	TURATUY A MED
	AS WELL ORIGINALLY DRI					ORE OR S	I'IMULATE
	TO WHILL CHUILANDII DAL	LUEU DER	OKE JU	ME 5, 196	9.		; ·
The enclosed plat was nave been notified as of the	prepared by a registered enging above date.	eer or lice	ensed land	d surveyor	and all coal	owners and/	or operators
The above named coal to make by Section 3 of t	owners and/or operator are he he Code, must be received by,	reby notific or filed w	ed that a	ny objectio Department	n they wish of Mines wit	to make, or hin ten (10)	are required days. *
or coal owners at their al	d the enclosed plat were maile bove shown respective address or delivery of this copy to th			dav _		before	oal operators or on the
	or donvery or and copy so an	e nebattiii	ent Ol m	mes at Ona	nesion, west	virginia.	
PLEASE SUBMIT COPIE	'S OF ALL	Very	truly yo	urs, KAIS	ER EXPLOR	RATION & I	MINING CO
GEOPHYSICAL LOGS DI		(Sign	Name)_	× Lo	hut a	<u>. L., </u>	<u> </u>
					Well Operator	Robert A	. Pryce
WEST VIRGINIA GEOLO			-		PO Box 98	3	
ECONOMIC SURVEY P. O. BOX 879	P	ddress.			Street		
MORGANTOWN, WEST VI	RGINIA 26505 Well	Operator			Ravenswoo	Da .	
AC-304 - 292-6331				City	or Town		
				·	West Virg	inia	
					State		
					years.		
iblice and piat by the departing	o objections are filed or found by nent of mines, to said proposed loc- objections have been made by the co-	ation, the de	partment s	shall forthwith	issue to the w	ell operator a	permit reciting
	इस्मिन्स्सी≉						

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Robert A. Pryce

Signed by X

JAC-1410

47-035

PERMIT NUMBER

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

PROPOSED WORK ORDER TO XXX	DRILL	DEEPEN	FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Known	•	RESPONSIBLE AGEN				
NAME FWA Drilling Co.	23.7	NAME Bill W.	Backus			
ADDRESS Box 448, Elkview, W		ADDRESS Box 1433, Charleston, WV				
TELEPHONE 965-3379						
ESTIMATED DEPTH OF COMPLETED			_ CABLE TOOLS			
PROPOSED GEOLOGICAL FORMATION						
TYPE OF WELL: OIL	GAS_XXX	COMB STORAG	GE DISPOSAL			
	RECYC	CLING WATER F	LOOD OTHER			
MEND OF GRID DOOD AND						
TENTATIVE CASING PROGRAM:						
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP			
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.			
20 - 16						
13 - 10	0001					
9 - 5/8	2001	200'	100 sax=to surface			
8 - 5/8	00001	aro.				
5 1/2	23001	650'	75 sax=625'			
4 1/2	46 00 1	4600	150 cay= 19001			
3	4000		150 sax= 1800'			
2		Y STARRA BOARDON BY	Perf. Bottom			
Liners Control of the		the Paris Tax said	Perf. Top			
	##************************************		Perf. Bottom			
SUBMIT FIVE (5) COPIES OF OCO OF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG	- 1, SHOWING OR	IGINAL PERMIT NUMBER A	AND PERFORMANCE BOND. ON			
WELLS DRILLED PRIOR TO 192 MUST ALSO BE SUBMITTED.	9, A PERMANENT	COPY OF THE PLAT AND				
TO FRACTURE - STIMULATE:						
OIL AND/OR GAS WELL ORIGINA BOND, PERMANENT PLAT AND	ALLY DRILLED BE	FORE JUNE 5, 1929, FIVE (5	o) COPIES OG - 1, PERFORMANCE			
O.U. AND/OR GAS WELL ORIGINA ING ORIGINAL PERMIT NUMBER,	ALLY DRILLED ON	AND/OR AFTER JUNE 5, 1	929, FIVE COPIES OG -1, SHOW-			
Required forms must be filed within four (24) hours in advance.	n ninety (90) days o	of completion for bond releas	e. Inspector to be notified twenty-			
(21) hours in auvance.			kan jaron da eta 10a eta 12a e Eta 12a eta 12			
			the state of the s			
The following waiver must be comthereof.	pleted by the coal	operator if the permit is to b	e issued within ten days of receipt			
WAIVER: I the undersigned, Agent for		Coal Company, Own	ner or Operator of the coal under			
this lease have examined and						
· · · · · · · · · · · · · · · · · · ·		The proposed west to	eation.			
	Coal Compar					
providing operator has combine		ny have no objections to said	well being drilled at this location,			
Code.		ny have no objections to said				
		ny have no objections to said	well being drilled at this location,			

Official Title