Plot of Log Card CSD W 38-52-30 38-55 7/2°COTTAGEVILLE LATITUDE 15° KRAVENS WOOD 2 MARSHALL COMER CARL MCKOWN JAC 796 2200 (Deed) 175Ac. WOODRUFF INVESTMENT PROPOSED REVISED LOCATION ELEV. 805.73 VICK ROLLINS COMPANY W. N. RHODES CERTIFICATE "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all NEW LOCATION the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining RECONDITION laws of West Virginia." Minimum degree of accuracy is one part in ZOO DRILL DEEPER Signed\_\_\_ ABANDONMENT STATE OF WEST VIRGINIA NY KAISER EXPLORATION & MINING CO ADDRESS POBOX 537 RIPLEY W. VA. OIL AND GAS DIVISION CHARLESTON well (FARM) NO. 1-REV. DEK 33 SERIAL NO. ELEVATION (SPIRIT LEVEL). G05./3 WELL LOCATION MAP COTTAGEVILLE 7/2 RAVENSHOOD 15°
QUADRANGLE JACKSON DISTRICT FILE NO. JAC-1467 JACKSON 035 OISTRICT KINLEY

OT. IN ROAD INTERSECTION SHOWN + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC POINT OF PROVEN ELEVATION..... MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES ABOVE EL. 507 BEING REPRESENTED BY BORDER LINES AS SHOWN. 47 - 035 OCT. 5, 1978 DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING ep wellowo) 6-6 North Ripley (342)

OGT 19 1978



MAR 1 6 1979

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

ON & GAS DIVISION DEPT. OF MINE

### Oil and Gas Division

#### WELL RECORD

Quadra	ngle	Cottagevi	Processor.	1	е
		JAC-1467			
Permit	No.	amortisch filmmen. Har i vanklade i debter filmt in der i derbeite bille.			

Rotary XXX	Oil
Cable	Gas_XXX
Recycling	Comb
Water Flood	Storage
Disposal	

·			Dispusai	(Kind)
Company KAISER EXPLORATION & MINING CO.  Address Box 537, Ripley, W. Va.  Mary Aultz Acres 175	Casing and 🕅	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Mud Run  Well No. DEK #33 Elev. 613 KB  District Ripley County Jackson	Size 20-16 Cond.			
The surface of tract is owned in fee by	9 5/8	209	209	100 Sax
Address Evans, W. Va.  Mineral rights are owned by W. C. Kuryla	8 5/8 7	2240	2240	75 Sax
Mineral rights are owned by W. C. Kuryld 113 Chiles St. St. Albans, W. Va. Drilling Commenced 10/9/78	5 1/2 Ja 4 1/2		4632	200 Sax
Drilling Completed 10/17/78  Initial open flow 17 MCFD OUX XX bbls.	3		4558	
Final production 100 MCFD CMXMX per daybbls.  Well open	Liners Used		+330	
Well treatment details: Perforated $4\frac{1}{2}$ " casing 4559' to 4561' with	Attach copy of c	ementing rec	ord.	

Well treatment details:
Attach copy of cementing record.

Perforated 4½" casing 4559' to 4561' with 16 shots.

Frac with 783 bb1 water and 43,000# sand.

Coal was encountered at \_\_\_\_\_\_\_ Feet \_\_\_\_\_\_ Inches

Fresh water \_\_\_\_\_\_\_ Feet \_\_\_\_\_\_ Salt Water \_\_\_\_\_\_ Feet \_\_\_\_\_\_

Producing Sand \_\_\_\_\_\_ Oriskany Sand \_\_\_\_\_\_\_ Depth \_\_\_\_\_\_ 4559-4561

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Surface Shale Sand Shale & Shale/Sand Stringers Shale Sand Shale Cand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Injun Sand Shale Coffee Shale Berea Sand Gray Shale Brown Shale Gray Shale	0 36 92 138 330 536 958 1036 1130 1160 1218 1280 1478 1552 1622 1714 1728 1856 2181 2206 2208 3384 3869	, 36 92 138 330 536 958 1036 1130 1160 1218 1280 1478 1552 1622 1714 1728 1856 2181 2206 2208 3384 3869 4290	

<sup>(</sup>over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 23	Bottom Feet	Oil. Gas or Water	* Řemarks
Marcellus Shale Onondaga L. S. Oriskany Sand Helderberg L. S.	4290 4448 4525 4564	4448 4525 4564		
Total Depth	4653'	(著) (2) 121 (4)		
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APPROVED

Robert A. Pryce
Operations Manager

В

FORM:			DE		OF MINES, OR REVISED	OIL AND GA	e divisio;	- Cheumani	DEK - 33
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WELL TYPE:								costi	
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LOCATION:					Watershed:				
	Distric	t :	Ripley	The state of the s	County:	Jackson	2113	irangle:C	ottageville (7.5')
WELL OPERAT	or Kai:	ser Ex	plorati	on and	Mining Co.	DESIGN	ATEC AGEN	SAME	
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				7 26164			***************************************	RI	CEIVED
•	-								
PERMITTED W	Pl	na oll	old for	rmation_	X/ Per	forate new	formation		EFB9 - 1982 L AND GAS DIVISION V DEPARTMENT OF MINES
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Coal s Pluq	eam dept	hs: _	NONE	-1- 20	Is coa	il being m	ined in th	ne area? NO	- 70
Back Work w	as comme	enced .	Marc	n 28	, 19	, and c	ompleted _	March 29	, 19 79
CASING AND	TUBING :	PROGRA	M: See	e previo	ous well re	cord file	ed upon O	riskany comp	oletion.
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[08-78]

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

3/28/79 Set permanent bridge plug in 4 1/2" casing at 4520 (KB). Perforated Marcellus Shale with 21 holes from 4246-4443 (KB).

3/29/79 Foam fractured the Marcellus interval with 15,000# of 80/100 sand, 43,500# of 20/40 sand, 500 BBLS of water, 500 gallon of 15% HCL Acid, and 560,000 SCF of nitrogen. Formation treated at an average pressure of 1900 psig and an average rate of 10 BP1.

WELL LOG

FORMATION	Color	Hard or Coft	Top Feet	Bottom Feet	Remarks Including indication of all and salt water, coal, cil an
NOTE: See pre	vious well	record fi	Led upon c	ompletion o	of Oriskany Sandstone.
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	nde-quientes appropriate de constantes de co	tia iyaddanin dandan ayaqaya			
	Birth feer woman see see see see see see see see see se				

(Attach separate sheets to complete as necessary;

KAIS	<u>ER</u>	EXPL(	DRATION	AND	MINING	COMPANY
Well	Ope	erator				

By R.A.P.

Its <u>Operation Manager</u>

 Régulation 2.02(i) provides as
"The term light or fuelt logishall mean a systematic, detailed geologial record of all fermations, including oral, encountered in the drilling of a well."





OR & GAS EIVISION DEPT. OF MINES

#### Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  Charleston, W. Va.	r	DATE Octo	ber 4, 1978	3	
Surface Owner Dewayne & Betty Clen	idenin c	Company KAISER	EXPLORATION	V & MINING CO.	
Address Evans, W. Va.		Address Box 537			
Mineral Owner William C. Kuryla, et		Farm Mary Au	•		
Address 113 Chiles St., St. Alb					LES
	•	Location (waters)_N			 7 2
Coal Owner Same as above		Vell No. 1-DEK 33			•
		District Ripley			
Coal Operator Not operated		Quadrangle <u>Cottac</u>	J <mark>eville 7½</mark>		
Address THIS PERMIT MUST BE POSTED AT THE V	WELL SITE				
All provisions being in accordance with Ch of the W. Va. Code, the location is hereby	approved				
for <u>drilling</u> . This permit shall	the Carlo	ECTOR E NOTIFIED	Richard	Morris	
operations have not commenced by 2-				ville, W. Va.	-
110-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			`		
Deputy Director - Oil & Gas Division	PHON	E <u>354-7259</u>			
GENTLEMEN.			•		
GENTLEMEN:	duil upon the she	over named forms on	turat of land fa	n all and an basis	- 6
The undersigned well operator is entitled to					-
The undersigned well operator is entitled to itle thereto, (or as the case may be) under gr	rant or lease dated	May 15	19.75	by <u>W. N. &amp;</u>	
The undersigned well operator is entitled to itle thereto, (or as the case may be) under grant Wary V. Rhodes made to Devon & E	rant or lease dated	May 15	19.75 n the	by <u>W. N. &amp;</u>	
The undersigned well operator is entitled to itle thereto, (or as the case may be) under grant Wary V. Rhodes made to Devon & E	rant or lease dated	May 15	19.75 n the	by <u>W. N. &amp;</u>	
The undersigned well operator is entitled to itle thereto, (or as the case may be) under grant Wary V. Rhodes made to Devon & E	rant or lease dated	May 15 and recorded or Page 513	19.75 n the	by <u>W.N. &amp;</u> day of	
The undersigned well operator is entitled to sitle thereto, (or as the case may be) under grandary V. Rhodes made to <u>Devon &amp; Education</u> County, Boo	rant or lease dated ason lason DEEPER	May 15 and recorded on Page 513 REDRILL	19.75 n the FRACT	by <u>W.N. &amp;</u> day of	
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\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

JAC-1467 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		RESPONSIBLE AGEN	
NAME FWA Drilling Co	ompany		
ADDRESS Box 448, Elkvie			Ripley, W. Va.
TELEPHONE 965-3379			827
ESTIMATED DEPTH OF COMP			CABLE TOOLS
PROPOSED GEOLOGICAL FOR		ROIARI AXX	CABLE TOOLS
		COMP COOP AC	E DISPOSAL
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TENTATIVE CASING PROGRAM	Vi:		
	and the state of t		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
SIZE	DRILLING	WELL.	OR SACKS - CUBIC 1/T.
<u>20 - 16</u> 13 - 10			
0 5/0		200	
8 - 5/8	200	200	100 sax=to surface
7 5 ½	2225	2225	75 sax=625'
4 1/2			
3		4625	200 sax=2400'
2			Perf. Top
Liners			Perf. Topologic and assets of
			Perf. Bottom
			Texts Bottom
OF PLAT.  TO DRILL DEEPER OR REDRIL  SUBMIT FIVE (5) COPIES ( WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE  TO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT  OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	OF OG - 1, \$100.00 PERM L: OF OG - 1, SHOWING ORIGINATED SEPTEMBERS OF THE SEPTEMBER	SIT FEE, PERFORMANCE ESTABLE PERMIT NUMBER AND COPY OF THE PLAT AND DRE JUNE 5, 1929, FIVE (5) ECORD.  AND/OR AFTER JUNE 5, 1928 BOND.	SOND AND PERMANENT COPY  ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  29, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-
WAIVER: I the undersigned, Ages this lease have examine We the	nt for Coal Company	Coal Company, Owner this proposed well local have no objections to said well attached the company of the compan	vell being drilled at this location, 7, Chapter 22 of the West Virginia
		rangan dari dari dari dari dari dari dari dari	or Coal Company
			Official Title