

STATE OF WEST VIRGINIA DEPÁRTMENT OF MINES

Oil and Gas Division

WELL RECORD

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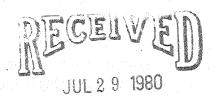
Quadrangle Sandyville Permit No. JAC-1528					Recycling	Gas X Comb. Storage
					Disposal	(Kind)
Company <mark>Kaiser Explora</mark> Addréss P.O.Box 8, R Farm Waldo Kelley	avenswood,	WV 26164	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Clay Lic Well No. KEM #49 District Grant The surface of tract is owned Waldo & Audrey Kelley Address Rt. 1, Box 12, Mineral rights are owned by Address Drilling Commenced 9/16/ Drilling Completed 9/25/ Initial open flow 0 Final production 300 M cr Well open 6	Sherman, WV Same Same 80 cu. ft	Sand Crk. 20 592.48 20 592.48 20 20 20 20 20 20 20 20 20 20 20 20 20 2	Size 20-16 Cond. 13-10" 10 3/4 9 5/8 8 5/8 7 5 1/2 4 1/2 3 2 Liners Used		1825'(KB) 260 sks 50/5 100 sks clas) 150 sks 50/5 100 sks clas (2600' fille
Well treatment details: Newburg dry: set 7" p of plug: perforated 0 w/25,000# 80/100 sand 25 BPM avg rate, 3800 Coal was encountered at Fresh water Producing Sand Oriskany	riskany San 1. 1000 gal 1. psig avg p 	idge plug at dstone from 28% HCL acid ressure; breFeet	4343'-4353', . 250 BBL wa akdown: 2800	dumped 15 (KB); hydr ter, 170,0 psig. Inches	' of calso ofracture 00 SCF of	d formation nitrogen;
Formation Color H	ard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
Soil & Shale Sand Siltstone Shale Sand Shale Sand Red Rock Sand Shale Sand Red Rock Salt Sand Red Rock Salt Sand Shale Salt Sand Shale Salt Sand Shale Salt Sand Shale Coffee Shale Berea Sand Shale Brown Shale Shale Onondaga Lime Oriskany Sand		0 16 144 266 322 394 451 502 838 851 877 910 1012 1184 1417 1574 1997 2020 2024 3165 3670 4010 4240	16 144 266 322 394 451 502 838 851 877 910 1012 1184 1417 1574 1997 2020 2024 3165 3670 4010 4240 4328	Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas	3050' 3210', 323 3680', 37 4065', 41	774

of Marie Log tops in the records sortion.

The state of the s	· · · · · · · · · · · · · · · · · · ·		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas of Water * Komarks
Helderberg Lime Chert & Dolomite Newberg Sand (Williamsport) Bloomsburg	4370 4404 5043 5057	4404 5043 5057 5140	Show/Gas 4960'
TOTAL DEPTH	5140		· ·
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			C1/10
			5140 4370 770 -explfig
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Oil and Gas Division

OIL & GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION OF MINES

O THE DEPARTMENT OF MINES,	지구나의 문제 살다. 본 이렇게 되었다.
Charleston, W. Va.	DATE July 18, 1980
urface Owner Waldo & Audrey Kelley	Company Kaiser Exploration and Mining Company
	26173 Address P. O. Box 8, Ravenswood, WV 26164
Mineral Owner Waldo and Audrey Kelley	
	26173 Location (waters) Clay Lick of Little Sand Creek
oal Owner Same as above	Well No. KEM #49 Elevation 592.48
Address Same as above	District Grant County Jackson
Coal Operator None	Quadrangle Sandyville
Address	5
HIS PERMIT MUST BE POSTED AT THE WELL	SITE
All provisions being in accordance with Chapter of the W. Va. Code, the location is hereby appropriately and a commenced by 4-4-81	ved Tychromon
La Sylmon N. Mary & Brancon	
Deputy Director - Oil & Gas Division	PHONE 354-7259
ENTLEMEN:	
	ration and Mining of Quecorded on the 31 day of January 155 Page 18 & 24
X NEW WELLDRILL D	DEEPERREDRILLFRACTURE OR STIMULATE
•	LY DRILLED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a register ave been notified as of the above date.	ed engineer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operato make by Section 3 of the Code, must be rece	r are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *
coal owners at their above shown respective	address day before, or on the py to the Department of Mines at Charleston, West Virginia.
	Very truly yours
LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)
EDITIONAL LOGS DIRECTLI TO:	Well Operator
EST VIRGINIA GEOLOGICAL AND	R, A, Pryce <u>Kaiser Exploration and Mining Company</u>
CONOMIC SURVEY	Address Stree:
. O. BOX 879	of Well Operator P. O. Box 8
ORGANTOWN, WEST VIRGINIA 26505 C-304 - 292-6331	City or Town
	Ravenswood, WV 26164
	State

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of office 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.

47-035-1528

BLANKET BOND

PERMIT NUMBER July

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

PROPOSED WORK ORDER	ro X DRILL	_ DEEPEN FI	RACTURE-STIMULATE
DRILLING CONTRACTOR: (RESPONSIBLE AGENT:	
NAME Burdette Drillin	g Company	NAME Robert A. Pi	ryce ·
	, Charleston, WV 25312	ADDRESS P. O. Box	8, Ravenswood, WV 26
TELEPHONE		TELEPHONE 273-537	7]
	PLETED WELL: 5050'	ROTARY X	CABLE TOOLS
PROPOSED GEOLOGICAL FO			
TYPE OF WELL: OII	GAS X CO	MBSTORAGE	DISPOSAL
			ODOTHER
•	· · · · · · · · · · · · · · · · · · ·		
TENTATIVE CASING PROGR.			
CASING AND TUBING	USED FOR		
SIZE	DRILLING	LEFT IN WELL	CEMENT HILL UP OR SACKS - CUBIC FT.
20 - 16	<u> Name and American State and Am</u>		
13 - 10 13 3/4"	250	2501	Cement to surface
9 - 5/8	2060'	2060'	350 Cement
8 - 5/8			Dawet -
7	5050'	5050'	250 Cement
5 ½ 4 ½			
3			D. C.
2			Perf. Top Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATE	R DEPTHSFEET	SALT WATER _	FEET
APPROXIMATE COAL DEPTH	S		<u></u>
IS COAL BEING MINED IN T	HE AREA? No	BY WHOM?	
TO DRILL:			
SUBMIT FIVE (5) COPIE OF PLAT. TO DRILL DEEPER OR REDR	S OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BO	OND AND PERMANENT COPY
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMIT	OF OG - 1, SHOWING ORIGINATO 1929, A PERMANENT COPTED.	AL PERMIT NUMBER AND Y OF THE PLAT AND T	D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:		•	
DOND, FERNANCHI FLA	ORIGINALLY DRILLED BEFORE T AND ORIGINAL WELL RECOFF ORIGINALLY DRILLED ON AND	RD.	
ING ORIGINAL PERMIT N	UMBER, AND PERFORMANCE BO	OND.	, FIVE COPIES OG - 1, SHOW
Required forms must be fill four (24) hours in advance	ed within ninety (90) days of con	apletion for bond release.	Inspector to be notified twenty
mereor.	be completed by the coal operat		
WAIVER: I the undersigned, Ag	ent for	Coal Company, Owner	or Operator of the coal unde
this lease have exami	ned and place on our mine maps	this proposed well location	on.
providing operator has	Coal Company hav	e no objections to said we ions in Articles 4, 5, and 7	ll being drilled at this location, Chapter 22 of the West Virginia
Code.			S. S. S. S.
		dental and the second s	
		For	r Coal Company
,			Official Title
			Official Title

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