

DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

IV-35 (Rev 8-81)



State of West Wirginia

Department of Alines Gil und Cas Division

Date_	July 7,	1986		
Opera	tor's	45 5		
Well I		#33		
Farm_	C. E.	Kessel		
API N). 47 -	035	-	1540 -FRAC

JUL 1 0 10 15

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	٠	(If "Ga	s," Pro	xduction	Loe Gol	lergrou	nd Storag	e Disposa ge/ Deeg	p/ Sha.	llow_x/)
IXXI			n: 892	.15	_Watersh	ned Pa		Creek, Kess		
		District	Ripl	ey	_County_	Jacks	son	Quadrangle	e Kenna	
				•						
YMPAN	ry Ka	iser Expl	oration	and Mi	ning Comp	pany		*		
		P.O.Box					Casing	Used in	Ieft	Cement
		AGENT					Tubing		in Well	fill up Cu. ft.
DDRES							Size			
	Complete Comments	NER C. E	. Kesse	1			20-16			
DDRES	s 11	1 Highlaw	n Driv∈	e, Riple	y, WV 2	5271	Cond.			
	Caracastastastastas	GHIS CWNE				٠,,,	13-10"	See orig	nal_0G-10	
DORES	:S	same					9 5/8 8 5/8			
IL AN	VD GAS	S INSFECT	MOR FOR	THIS W	ORK Jerr	·	7			
Teph	abock	ADDRE	ss Rt.	1 Box 1	LO1A Ripl	ey, WV	5 1/2			
ERMI	r ISS	UED_	3-2	8-86			4 1/2			
RILLI	DNG O	OMENCED	J	une 19,	1986		3			
RILLI	ING O	CAPLETED	J	une 27,	1986	more state and a	2			
if api	PLICA	BLE: PU	JGGING	OF DRY	HOLE ON			1		
	KING.	PROGRESS VERBAL					Liners used			
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		of compi					lotary X	/ Cable		
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			Section and the section of the secti				•		•	
Den 1				Brown	Shale		ľ) na	y zone dep	-h 4232-	4436 feet
	er .	cing for								
	Jas:			-27	CASCONIA CO.					Bbl/d
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	uf a	mplicabl	e due t	o multi	p le comp Berea S	andston	e		•h 2725-23	729 feet
j										
V	Gas:									Bb1/d
			-							Bbl/d
				_				inal tests	•	
D	Stati	ic rock p	ressure	9 900	psig(s	surface	measuran			rs shut in
								(Conti	ruc on re	verse of de)

DETAILS OF PERFORMED INTERVALS, FRACTURING OR STIBULATING, PHYSICAL CHANGE, ETC.

6/19/86 - Young Wireline perforated the Berea Sandstone from 2725' to 2729' with 16 shots.

6/27/86 - Halliburton 75% foam frac the Berea Sandstone with 331 bbl fluid, 612,500 scf Nitrogen, 60,000# 20/40 sand @ average pressure of 2672 psig. ISIP: 1450 psig. 5 MIN SIP: 1250 psig.

WELL LOG

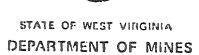
•		g out	September Comments and	•	
ORMATION COLOR HARD OR	SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of al and salt water, coal, oil	l fresh and gas
See original OG-10					
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(Attach separate sheets as necessary)

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i	By:		12.						***************************************
:	Date:	July	7, 198	36					
	German		SAMPLE STATE						

Regulation 2.02(i) provides as follows: Note: detailed geological record of all formations, including east, encountered in the drilling of a well."



Oil and Gas Division

WELL RECORD Rotary_X Oi!_ Cable_ Gus_ Quadrangle Kenna Recycling Comb. Water Flood__ Storage_ Permit No. JAC-1540R Disposal (Kind) Company Kaiser Exploration and Mining Company Casing and Used in Left Cement fill up Address P. O. Box 8. Ravenswood, WV <u> 26</u>164 Tubing Drilling in Well Cu. ft. (Sks.) Farm C. E. Kessel Acres_ Location (waters) Parchment Crk. & Kessel Run Well No. <u>KFM #55</u> _ Elev.__892.15 20-16 District_Rinley _ County_Jackson_ sca Cond. The surface of tract is owned in fee by_ 13-10" 10 3/4" 252'(KB)175 sks class A, 39 252'(KB) C. E. Kessel, et al Calcium cloride, 9 5/8 1/4#/sk flocele (to surface) Address <u>Ill Highlawn Drive</u>, Ripley, WV 8 5/8 Mineral rights are owned by____ Same 2602'(KB) <u>2602'(K</u>B)65 sks 50/50 pozmi Same __ Address__ 5 1/2 100 sks class A 5/21/81 Drilling Co:ninenced___ 4 1/2 5241'(KB) .5241'(KB)250 sks 50/50 pozm 5/28/81 Drilling Completed_ 10% salt, 1/4#/sk Initial open flow 110,000 5180'(KB)flocele Final production 150,000 cu. ft. per day --Liners Used Well open ____3_ hrs. before test 1520 RP. Well treatment details: Attach copy of cementing record. 5/31/81: Perforated Oriskany Sandstone from 5168'-5171' (KB) and 5196'-5203' (KB), 40 hours, 2 1/8" glass jets on strip; hydrofractured Oriskany w/15,000# 80/100 sand and 45,000# of 20/40 sand, 165,000 SCF of nitrogen, 500 gal of 28% HCL acid, 2320 HHP. 22 BPM avg rate, 4350 psig avg pressure; instantaneous shut in pressure was 3900 psig. Coal was encountered at. .Feet Inches Fresh water_ Feet . Salt Water. Feet Producing Sand_ Oriskany Sandstone Depth 5168'-5171'(KB); 5196'-5203'(KB) Formation Color . Hard or Soft ~ Top Feet Bottom Feet Oil, Gas or Water * Remarks *All formation tops taken from electric log depths Soil & Shale 0 12 Sandy Shale 12 59 Sand 59 154 Shale 154 330 Sand & Shale 330 421 Red Rock 421 538 Sand & Shale 538 704 Shale 704 749 Sand & Shale 749 953 Sand 953 975 Shale 975 1019 Sand 1019 1025 Shale 1025 1106 Sand 1106 1114 Shale 1114 1147 Sand 1147 1158 Shale 1158 1318 Sand 1318 1404 Shale 1437 1404 Sand 1437 1581 Shale 1581 1600

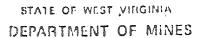
(OVCI)

* Indicates Electric Log tops in the remarks section.

Formation Culor Hard or Soft	Top Fret	Bottom Feet	Oil, Gas or Water
Sand Shale Salt Sand Big Lime (Greenbrier) Shale Injun Sand Shale Coffee Shale (Sunbury) Berea Sand Shale Brown Shale Brown Shale Shale Marcellus Shale Onondaga Lime (Corniferous) Oriskany Sand Helderberg	1600 1661 1873 2062 2210 2250 2301 2690 2711 2720 3934 4447 4801 5071 5150 5188	1661 1873 2062 2210 2250 2301 2690 2711 2720 3934 4447 4801 5071 5150 5188 5247	Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas
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APPROVED August 26 10 81

By. . General Manager . . . (Inde)



Oil and Gas Division

WELL RECORD

Rotary__X__Oil_

Quadrangle_Kenna					Comb
Permit No. <u>JAC-154</u> 0R				Disposal	- Storage
S 3 and M	ining Compa	201		1	
Company Kaiser Exploration and M Address P. O. Box 8. Ravenswood.	111119 COMP6		Used in	Left	Cement fill up
Farm C. E. Kessel ,Ac		Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Parchment Crk. & K	essel Run	Size			1
Well No. KEM #55 Ele	v. 892.15	20-16			
District Ripley County lack		Cend.			
The surface of tract is owned in fee by		13-10" 10 3/4"	252'(KB)	252'(K	B)175 sks class
C. E. Kessel, et al	*	9 5/8			Calcium cloric
Address 111 Highlawn Drive, Riple	y, WV	8 5/8			(to surface)
Minicral rights are owned by Same		7	2602'(KB)	2602'(K	B)65 sks 50/50
AddressSame	*	5 1/2	<u> </u>		100 sks class /
Orilling Commenced 5/21/81		4 1/2	5241'(KB)	5241'(K	B)250 sks 50/50
Drilling Completed 5/28/81		3		51001/1	10% salt, 1/4
Initial open flow 110,000 cu. ft	bbls.	2	<u> </u>	1 2180. (1	B)flocele
Final production 150,000 cu. ft. per day	bbls.	Liners Used	<u></u>	ļ	
Well openhrs. before test_	620_ RP.		L	1	
Well treatment details:	• ,	Attach copy of o			
5/31/81: Perforated Oriskany Sar	ndstone from	m 5168'-5171'	(KB) and S	5196'-520)3' (KB),
40 hours 2 1/8" glass jets on s	strio: hydr	ofractured Or	iskany W/I:),UUU# 30	J/ IUU Sand .
and 45,000# of 20/40 sand, 165,0	000 SCF of	nitrogen, 500	gal of 285	. HCL ac	1d, 2320 HHP.
22 BPM avg rate, 4350 psig avg p	oressure; i	nstantaneous s	shut in pro	essure wa	as 3900 psig.
Coal was encountered at					
Fresh water Fee Producing Sand Oriskany Sandstone					
Froducing Sand Of Iskany Sands Cone		Depti	1	121 (80)	, 1130 = 3203 (25)
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	* Remarks
*All formation tops taken					
from electric log depths					
	÷ .				
Soil & Shale	0	12			
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Shale	154	330			,
Sand & Shale	330	421			
Red Rock	421	533			
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Sand	1437	1437	Manual Ma		* A
Shale	1587	1600			

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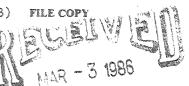
Formation Culor Hard or Suft	Top Feet	Bottoin Feet	Oil, Gas or Water	* Kemarks
Sand Shale Salt Sand Big Lime (Greenbrier) Shale Injun Sand Shale Coffee Shale (Sunbury) Berea Sand Shale Brown Shale Brown Shale Onondaga Lime (Corniferous) Oriskany Sand Helderberg	1600 1661 1873 2062 2210 2250 2301 2690 2711 2720 3934 4447 4801 5071 5150 5188	1661 1873 2062 2210 2250 2301 2690 2711 2720 3934 4447 4801 5071 5150 5188 5247	Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas Show/Gas	,
Total Depth	5247			
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APPROVED Land Q. P. 10 81

By . r. General Manager . (Inter

FORM WW-2(B) FILE COPY (Obverse)

7/85





1)	Date:	Febru	ary	7	1:86	
2)	Operator's Well No.	KEM	#55,	Kes	sel	
		47	40 to 1000 - 10	035	16/10	777

3) API Well No.

State County

DIVISION OF OIL & GAS STATE OF WEST VIRGINIA DEPARTMENT OF EXERGYMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A THIRD FOR A THIR

WELL TYP				*******	***************************************					
	E: A Oi	il	/ Ga	s <u>X</u>	/					
	B (If	f "Gas", F	² roduction	1 <u>X</u>		_/ Underground sto	age	_/ Deep	/ Shallow	X/
LOCATION		vation:	892.					eek. Kessel		/ }
LOCFE 101		trjet:	Riple		14.65		ckson	Quadrangle: _		
WELL OPE		Käjser			oncan			AGENT R.A.	Diarras	
Address	INA I UN	P N	Box 8	man		· continued management		Same	-Pryce	
Aggress	***************************************	Ravens		WV	26164	MILITARIA CARACTERISTA CONTRACTOR	Address	Sallie_		
	***************************************			·······	20104			····		
OIL & GAS				FIED		9)	DRILLING CO		- 4	
Name _ <u>J6</u>	Ψ,	- P						<u>er Company T</u>	0015	***************************************
Address		1, BOX ev. WV	<u>x 101-/</u> / 252				Address	Same		
PROPOSE	D WELL Y	WORK:	Drill		/ Drill	deeper	/ Redrill	/ Stimulate	<u>X/</u> .	DA 1990
			Plug of	f old f	ormation	/ Perforate	new formation_	<u>X</u> /	S. J.	Sandard Comment
			Other p	hysical	change in	well (specify) SQUE	eze 4 1/2"	casing, per	rforate B	erea.
GEOLOGI	CAL TAR	GET FOR	_					Berea. Shale		
						ID feet		<u> </u>		
				21 12	7 1		_N/A	£		
13) Approx				,			•	feet.		V
14) Approx				None	-b	Is coal	being mined in the	area? Yes	/ No_	
CASING A	.ND TUBI	NG PROC	JRAM							
ASING OR UBING TYPE	l .	SPEC	IFICATIONS	ŝ	Ì	FOOTAGE INT	ERVALS	CEMENT FILL-UP OR SACKS	PAC	KERS
DEMENTS EXTENDED	Stze	Grade	Weight per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
ductor									Kinds N	one
h water	10 3/4	H-40	40.5	Y		252(KB)	252(KB)	175 sks		O II C
		11=30	174				- cochion	777 282	Sizes	
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duction	4 1/2	N-80	11-6-	<u> </u>		and the first of the second of	5241(KB)_	250 sks	Depths set	
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CHARLES AND AND CHARLES AND			A)-F				<u>l</u>	March 28	19 86
mit number	4	7-035)-104(16.58
mit number _	4	<u>7-035</u>) <u>-194</u> (The street				D:	att	
					on shown	below is evidence of	permission grante			ertinent legal re
s permit cove	ring the w	ell operato	or and wel	ll location	on shown	below is evidence of e reverse hereof Notifi	permission grante	d to drill in accorda	ince with the be	ertinent legal re
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s permit cove rements subje 8) Prior to the	ring the west to the co	ell operate onditions of ion of roa	or and wel contained ids, location	li location herein a	and on the	below is evidence of e reverse hereof Notifi my permitted work, york has commenced.	cation must be given addition, the we	d to drill in accorda	ince with the be	ertinent legal rector. (Refer to ottify the prope
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

O THE DEPARTMENT OF MINES,		ran ja ja remingju	。 金海水平型 使数型分型 100000000000000000000000000000000000
Charleston, W. Va.	DATE	November 5, 1980	•
urface Owner C. E. Kessel, et al	Compa	ny Kaiser Exploraiton and	Mining Company
ddress 111 Highlawn Drive, Ripley, WV		P. O. Box 8. Ravenswood.	to the comparation of the comparation of
lineral Owner Same as above	the state of the s	C. E. Kessel	
		on (waters) Parchment Creek	
ddressSame as above			
		No. KEM #55	
ddress	Distric	t Ripley	County Jackson
oal Operator Same as above	——— Quadra	angle Kenna	e e e e e e e e e e e e e e e e e e e
ddress	The second secon	en de la companya de	was a menggalah manggalah saga
HIS PERMIT MUST BE POSTED AT THE WELL SI	reign of the second second	and the second of the second o	and conserve a proposed on the first section of
provisions being in accordance ust of		and the property of the second se	or was a first of the second o
The state of the s	LNEDECTO	${f R}_i$ distribution (). It will be a construction of the section i	mant in a contratant and the contratant
: Permi shall expire	if TO BE NO	TIFIED Richard Morris	
perations have not commenced by 77-14-81	ADDRESS	P. O. Box 372, Grantsvill	and the second second
Tro-Dukette	•	P. U. BUX 3/2, Grantsvill	e, wv
Deputy Director - Oil & Gas Division	PHONE	354-7259	
ENTLEMEN:			entre marinetari
The undersigned well operator is entitled to di	ill upon the above na	med farm or tract of land for oil	and gas, having fee
le thereto, (or as the case may be) under gran	t or lease dated JU	<u>1980</u> by	C. E. &
Martena Kessel made to Kaiser Explorat	ion and Mining (of recorded on the 27th	day of August
80, in Jackson County, Book	156 Fage	749	
NEW WELLDRILL DE	'प्रवास	EDDIII ED ACTION	
OIL AND GAS WELL ORIGINALLY			OR STIMULATE
DID AND GAB WEDE ORIGINALL	1 DRILLED BEFORE	E JUNE 5, 1969.	
The enclosed plat was prepared by a registered we been notified as of the above date.	engineer or licensed	land surveyor and all coal owner	ers and/or operators
The above named coal owners and/or operator	are hereby notified th	nat any objection they with to m	alia or are required
make by Section 3 of the Code, must be received	ed by, or filed with t	the Department of Mines within t	en (10) days. *
Copies of this notice and the enclosed plat were	e mailed by registered	mail, or delivered to the above n	amen coal operators
coal owners at their above shown respective a	Cores:	cav	hotore or on the
me day with the mailing or delivery of this copy	. to the Debtument c	of Mines at Charleston, West Virgi	nia.
THE COURT CONTROL OF ATT	Very truly	your.	
LEASE SUEMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO:	(Sign Fram		
SUPRISICAL LUGS DIRECTED TO:	1827. 11277	Viell Operator	
EST VIRGINIA GEOLOGICAL AND		R. A. Pryce	
CONOMIC SURVEY	Address	P, U, DUX O Street	
O. BOX 879	of.		and the second
ORGANTOWN, WEST VIRGINIA 26505	-Well Operator	Ravenswood City or Town	
0-304 - 292-6331	•		
		17 1 17 1 1 0 00704	
The second secon	20%	West Virignia 26164	

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

PROPOSED WORK	ORDER TO	XDRILL	DEEPEN	FF	RACTURE-STIMULATE			
DRILLING CONTRA			RESPONSIBLE AGENT:					
NAME Not know				NAME_Robert A. Pryce				
ADDRESS					8. Ravenswood, WV			
TELEPHONE					1			
	•	ED WELL: 5110'			CABLE TOOLS			
		TION: Oriskany	- NOIANI	^	CABLE TOOLS			
			-		mrano a A T			
TYPE OF WELL:	OIL		•		DISPOSAL			
		RECYC	LING V	WATER FLO	ODOTHER			
TENTATIVE CASIN	G PROGRAM:			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	en e			
CASING AND TU	BING	USED FOR	Liut	T IN	CEMENT FILL UP			
SIZE		DRILLING	WEI	LL ·	OR SACKS - CUBIC IT			
20 - 16								
13 - 10	70.0/41							
9 - 5/8	10_3/4'	250'.	25	50' ·	To surface			
8 - 5/8								
7 5 1/3		2600'	260	00'	125 sks = 570'			
4 1/2		5110'	51	10'	125 sks - 1500'			
3					Perf. Top			
2					Perf. Bottom			
Liners					Perf. Top			
					Perf. Bottom			
					3.			
APPROXIMATE FRE	ESH WATER DI	EPTHSFEET	`SAI	LT WATER _	FEET			
APPROXIMATE COA	·				:			
IS COAL BEING MI	NED IN THE	AREA? No	ВУ	WHOM?				
TO DOILL.		and the second of the second o	-					
TO DRILL:	(E) CODIEC OF	. 00 3 610000 555	,					
OF PLAT.	(3) COPIES OF	OG - 1, \$100.00 PER	MIT FEE, PERFO	RMANCE BO	ND AND PERMANENT COPY			
• *	OD DEDDIN	•		•				
TO DRILL DEEPER								
WELLS DRILL	ED PRIOR TO E SUBMITTED.	1929, A PERMANENT	GINAL PERMIT N COPY OF THE P	NUMBER AND LAT AND T	D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORT			
TO FRACTURE - ST	IMIII.ATE:			•	•			
		**************************************			·.			
BOND, PERMA	NENT PLAT A	ND ORIGINAL WELL R	ORE JUNE 5, 192 ECORD.	9, FIVE (5) C	OPIES OG - 1, PERFORMANCE			
OIL AND/OR G ING ORIGINAL	AS WELL ORIG PERMIT NUMB	INALLY DRILLED ON ER,AND PERFORMANC	AND/OR AFTER . E BOND.	JUNE 5, 1929	, five copies og - 1, show			
Required forms four (24) hours	must be filed w	ithin ninety (90) days of	completion for b	ond release.	Inspector to be notified twenty			
· .								
		•						
The following w	waiver must be o	completed by the coal o	perator if the perm	nit is to be is	ssued within ton days of receip			
thereof.								
WAIVER: I the unde	ersigned, Agent	for	Coal Com	pany, Owner	or Operator of the coal unde			
this lease	have examined	and place on our mine	maps this propose	d_well location	on			
					ell being drilled at this location			
					, Chapter 22 of the West Virgini			
Code.				-, -, -, -, 1	,			
		7			$m_{oldsymbol{\omega}}$			
				17.	; C . C			