

)	Date: May	31,	19_83
	Operator's		

Operator's Well No. KEM #280

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3)	API Well No.	47	035	1849
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Elevation: Total Watershot: Syzantore Creek Syzantore Cr	Clint Hun					ATE OF WEST VIE		0.00	
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WELLTYPE: A OII				¥	IL AND G	AS WELL TERMIT	ATTACATION	y or late they d	5 # 3 # 1 L
LOCATION: Elevation: 791 Watersheld: Systamore. Creek County: JackSon Quadrangle: Ripley County: JackSon County: J	WELL TYPE			/ Cas	Χ ,	itan ila ili pa			2.1.77 14
LOCATION: Elevation: 791 Watersheld: Systamore. Creek County: JackSon Quadrangle: Ripley County: JackSon County: J	WELLTIFE	B (If"	Gas" Proc	luction	X	/ Underground sto	orage	/ Deep/	Shallow X_/)
District: Ripley County: JackSON Quadrangle: Ripley WELOPERATOR RaiSer Exploration and Mining CO JI) DESIGNATED AGENT R. A. Pryce Address P. O. BOX 8 RAVENSWOOD, WY 26164 OIL & CAS ROYALTYOWNER T. J. Randol ph. et. al. 12 COAL OPERATOR None Address F. Same Address F. Same RAJDEY WY Assenge 80 Dt. Of 161 acres. SURRACEOWNER ROY H. Ganter-bury Address Rt. 1. Ripley MY 25271 Address			ion: 79	91		Watershed:	Sycamore	Creek	
WELL OPERATOR \$\frac{1}{\text{BLSE}} = \frac{1}{\text{Exploration}} \text{ address } \frac{1}{\text{RAVENSWOOd}} \text{ WW 26164} \text{ address } \frac{1}{\text{RAVENSWOOd}} \text{ WW 26164} \text{ address } \frac{1}{\text{RAVENSWOOd}} \text{ WW 26164} \text{ address } \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. E. Goodwin }} \frac{1}{\text{ Address }} \frac{1}{\text{ CoAL OWNER(S)}} \text{ WITH DECLARATION ON RECORD.} \text{ Name } \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. D. III. }} \frac{1}{\text{ COAL OWNER(S)}} \text{ WITH DECLARATION ON RECORD.} \text{ Name } \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. D. III. }} \frac{1}{\text{ COAL OWNER(S)}} \text{ WITH DECLARATION ON RECORD.} \text{ Name } \frac{1}{\text{ Name }} \frac{1}{\text{ Address }} \frac{1}{\text{ V. E. D. III. }} \frac{1}{\text{ COAL OWNER(S)}} \text{ WITH DECLARATION ON RECORD.} \text{ Name } \frac{1}{\text{ Name }} \frac{1}{\text{ None }} \fra	Document						ckson	Quadrangle:	Ripley
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Mines at Charleston, West Virginia. Notary: My Commission Expires OFFICE USE ONLY Unit number 47-035-1849 Date 09/08/2023 Date 09/08/2023	Copies of this	Permit App	olication ar	nd the enclo	sed plat and	reclamation plan h	ave been mailed b	y registered mail or deliv	vered by hand to the abo
Notary:					essee on or t	perore the day of the	maning or delive	P A D	ation to the Department
My Commission Expires OFFICE USE ONLY 47-035-1849 DRIVATING PERMIT Date 09/08/2023		ieston, wes	, rugula.		*		Signed:	A.1-	
OFFICE USE ONLY 47-035-1849 DRIVATING PERMIT Date 09/08/2023		n Engless					Cou	neral Manager	
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mit number						OFFICE USE O	DNLY		
Date 09/08/2023		47-03	35-1849		1	DRILLING PER	MIT	June 27	19
the state of the state of permission granted to drill in accordance with the pertinent less	nit number _							Dat	09/08/2023
A DELINIA CAPTER THE WELL OPERATOR MINE THE PROPERTY OF THE PR	e permit anua	ing the well	operator	and well lo	cation show	n below is evidence	of permission gra	nted to drill in accordan	ce with the pertinent leg
	er to No. 10) P	rior to the co	onstruction spector 24	of roads, b	ocations and	pits for any permitte	nmenced.)	tion, the wen operator of	and the second second
rements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspectation of the properties of the construction of roads, locations and pits for any permitted work in addition, the well operator or his contractor shall not per district oil and gas inspector 24 hours before actual permitted work has commenced.)	pres wistiff Off	seemen Both title	Language at 1			The state of the s			

Permit expires	February	27, 1984	-	unless d	rilling is commenced prior to that date and prosecuted with due diligence
Bond:	Agent:	Plat:	Casing	Fee	Jell

LEASE SUMMARY

KEM # 280

Tract Discription

County: Jackson

District: Ripley

Acres: 80

Bounded By: North - Jacob Landfried

East - Ina Ray

South - C. W. Jewell

West - Mabel Landfried

Lease Parties

Lessor(s): T. J. Randolph et al/C. E. Goodwin

Lessee: Kaiser Exploration and Mining Company

Recording Information

Book and Page: 172/215

Royalty Provision

1/8 of prevailing field price



OIL & GAS DIVISION
DEPT. OF MINES

IV-9 (192V 8-81)

DATE	May	11,	1983	
WELL	NO.	KEM	#280	The second secon

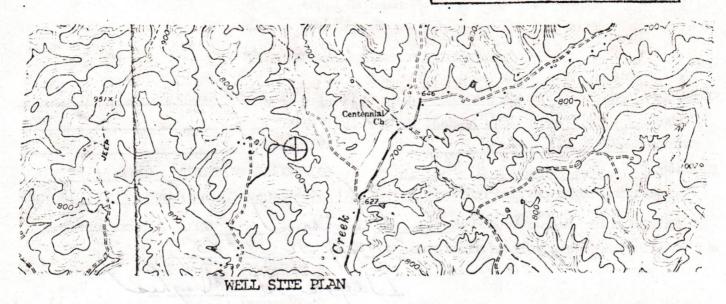
State of Mest Mirginia API NO. 47 - 035-

Department of Allines Bil und Oss Division

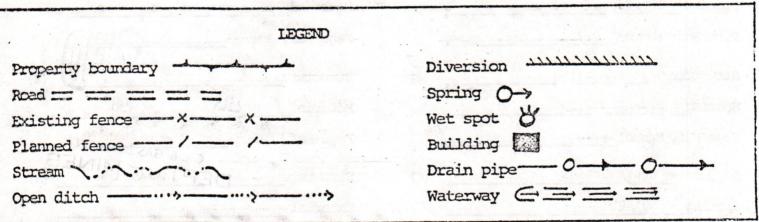
. CASTRICTIC	IN AND HECT	LAMATION PLAN	
COMPANY NAME Kaiser Exploration and Mi	ning Co PI	SIGNATED AGENT Same	
Address p. O. Box 8, Ravenswood,	WY 2616	4 Address	
Telephone 273-5371		Telephone	
IANDOWNER Roy H. Canterbury		SOIL CONS, DISTRICT WE	stern
Revegetation to be carried out by Ka	iser Expl		
This plan has been reviewed by	11	1	corrections
and additions become a part of this pla			curacums
	1/	(Date)	
	Jac	me W. Thighes	
	/	(SCD Agent)	
ACCESS ROAD		LOCATION	
Structure Road Culvert	(A)	Structure None Required	(1)
Spacing .12" diameter		Material	
Page Ref. Manual 2:7		Page Ref. Manual	MET CO
Structure Drainage Ditch	(B)	Structure PAGE	(2
Spacing Farthen	,_,	1876	2 1983
Page Ref. Manual 2.12			
		Oil & G	AS DIVISION
Structure Cross Drains	(C)	Structure DEPT.	OF MINES
Spacing 60', 80'		Material	
Page Ref. Manual 2:4		Page Ref. Manual	
All structures should be inspected commercial timber is to be cut and so cut and removed from the site before	racked and	all brush and small timbe	. All r to be
of Ro	EVEGETATIO	N	
Treatment Area I		Treatment Area	TT
Lime 4 Tons/acre		Lima Same as Area I	Tons/acre
or correct to pH		or correct to pH	
Fertilizer 14-14-14 600 lbs/acre		Fertilizer	lbs/acre
(10-20-20 or equivalent)		(10-20-20 or eq	
Mulch Hay 2 Tons/acre	•	Mulch	Tons/acre
Seed* 81% Orchard Grass/15% Ryabs/acre		Seed*	lbs/acre
Kentucky 31 Fescue 16 lbs/acre		**************************************	lbs/acre
Red Clover 8_1bs/acre			lbs/acre
*Inoculate all legumes such as vatch, Inoculate with 3% recommended conount.	trefoil	and clovers with the prope	r bacterium.
	FIAN FRE	FARED BY Vincent Wood	09/08/2023
NOTES: Please request landowners!		LDDRESS 116 Pfost Avenue	
sceeding for one growing season.		Ripley, WV 252	71
necessary for comments.	FEC	ONE NO. 372-2709	

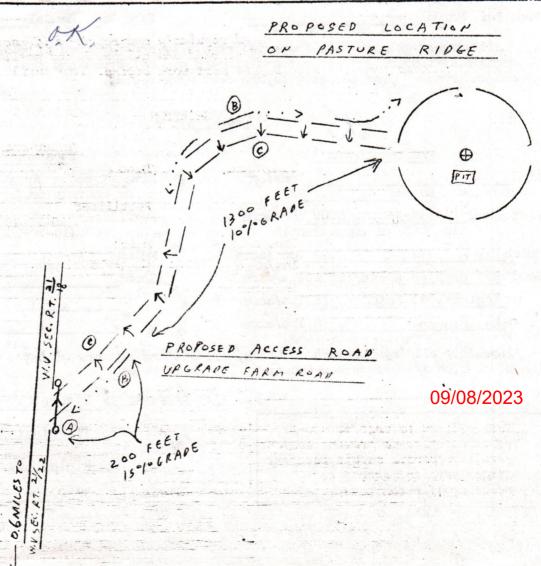
ATTACH OR PHOTOCOPY SECTION OF INDLVED TOPOGRAPHIC MAP. QUADRANGLE RIPLEY

LEGEND
Well Site Access Road ———



ketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.





OIL & GAS DIVISION DEPT. OF MINES



State of West Wirginia Department of Alines Oil und Cas Division

Date	
Operat	or's
Well I	No. KEM-280
Farm	T. J. Randolph et al
ADT N	2 47 - 035 - 1849

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Wast	e Disposa e / Dee	l/	llow x /)	
IOCATION: Elevation: 791' Watershed				gargage-ristates	
District: Ripley County Lack					
de company de de de la filia de la despera company anticolor de la company de la compa	. З. Адафия до посторова до посторо			and an analysis of the second	. ,
					:
COMPANY KEMGAS		g-man-man-man-man-man-man-man-man-man-man			•
ADDRESS P.O. Box 8, Ravenswood, WV 26164	Casing	Used in	Left	Cement fill up	
DESIGNATED AGENT Same	Tubing	Drilling	in Well	Cu. ft.	
ADDRESS Same	Size	Constitution and the Constitution of the Const			
SURFACE OWNER Roy H. Canterbury	20-16 Cond.				
ADDRESS Rt. 1, Ripley, WV	13-10"3/	1	239'	175 sks Cla	4
MINERAL RIGHTS OWNER T.J. Randolph, et al	9 5/8				
ADDRESS c/o C.E. Goodwin, Evans, WV	8 5/8	Committee and result for each rest or committee and result of the second			
OIL AND GAS INSPECTOR FOR THIS WORK Homer	7		2211'	100 sks 50, mix, 100 s	50 poz s Clas
Dougherty ADDRESS Linden Rt., Box 3A, Looney ville, WV	5 1/2			A	
PERMIT ISSUED	4 1/2		4234 '	200 sks 50 pozmix	50
DRILLING COMMENCED 10/14/83	3				
DRILLING COMPLETED 10/19/83	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used				
GEOLOGICAL TARGET FORMATION Devonian Brown Shall	e	Dept	h 4951'	feet	
Depth of completed well 4320' feet R		/ Cable	Tools		
Water strata depth: Fresh N/A feet;	Salt N/A	feet	Drilled o	n fluid	
Coal seam depths: None					
OPEN FLOW DATA	Drilled	with fluid	l – not kn	own	
Producing formation Devonian Brown Shale	Pav	zone dept	h 4951	' feet	
Gas: Initial open flow Trace Mcf/d					
Final open flow384 commingled/cf/d					
Comingled test Time of open flow between initi					ACK
Static rock pressure 1150 psig(surface					200
(If applicable due to multiple completion-	_)				4
Second producing formation Berea Sandsto	ne Pay	zone dept	h 2459	/08/2023 12465 feet	
Gas: Initial open flow Trace Mcf/d					
Final open flow 384 comming led Mcf/d					
Comingled test Time of open flow between initi					
Static rock pressure 1150 psig(surface)					
Communication of the Communica		***	Triferon of the residence of the control of the con		

DETAILS OF PERFORMTED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC.

10/26/83 - Devonian Brown Shale perforations: <u>1st Stage</u>: Lower Brown Shale. 3958'-4235', shot selectively, 18 holes, .39" in diameter.

10/28/83 - Devonian Brown Shale perforations: 2nd Stage: Upper Brown Shale. 3413'-3903'; shot selectively, 20 holes, .39" diameter. Berea Sandstone perforations 3rd Stage 2458'-2464'; 3 holes/ft, 18 holes.

Fracture. 1st Stage: Lower Brown Shale: Breakdown = 1300 psig with foam at 40 BPM, 75% quality, 60,000# 20/40 sand at 4-10 ppg with 2500-2700 psig. N2 at 25,000 scf/min and liq. at 10 BPM. Total N2 of 700,000 scf. Total sand laden fluid of 203 bbls and total fluid of 270 bbls; ISIP=2620. 5 min SIP=1380 psig. 2nd Stage: Upper Brown Shale. Breakdown = 2680 psig with foam at 40 BPM, 75% quality, 60,000# 20/40 sand at 4-10 ppg with 2650-2800 psig. N2 at 25,000 scf/min & liq at 10 BPM, total N2 of 698,000 scf. Total sand laden fluid of 320 bbls. ISIP=2770 psig. 5 min SIP=1550 psig. 3rd Stage: Berea Sandstone. Breakdown=2870 WELL LOG foam at 16 BPM. 75% quality. 60,000#

20/40 sand at 4-10 ppg with 2250-2170 psig. No at 16 BPM. 75% quality. 60,000# 10/40 sand at 4-10 ppg with 2250-2170 psig. No at 9.000 scf/min & liquity of 10/41 pand laden if it = 200 being remarks retained filling at 4 psig. REMARKS BOTTOM FEET Including indication of all fresh FORMATION COLOR HARD OR SOFT TOP FEET and salt water, coal, oil and gas Soil & Shale 60 322 Shale & Siltstone 60 Sand 322 394 Shale 394 590 590 650 Sand 650 751 Shale 751 808 Sand Shale & Siltstone 808 1273 Sand 1273 1315 1396 Shale 1315 1396 1466 Sand Shale & Siltstone 1466 1750 Salt Sands 1750 1814 Big Lime (Greenbrier) 1814 1992 2040 1992 Shale 2040 2102 Big Injun 2102 2441 Shale 2464 Coffee Shale (Sunbury) 2441 Berea Sand 2464 2472 S/g S/g 3435 2472 3693 Shale Brown Shale 3693 4244 S/g @ 3960, 4020, 4100 4244 4314 Shale Total Depth 4314

(Attach separate sheets as necessary)

	KAISER	EXPLORATION	AND	MINING	COMPANY	
Grydnight In-	Well Op	erator			,	
By::_	2.1	1.P	William and a second se			09/08/2023
Daite	:	November 15.	198	3	Section Section 1994 and the Contract of the C	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including eval, encountered in the drilling of a well."

Permit No. 035 1849

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION DEPT. OF MINES

Company Kg. Ser	Explore T.on	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS	
Address		Size				
Farm Carroy		16			Kind of Packer	
Well No		13	No FeV 170 mo			
	County 5 Ackson	81/4		200	Size of	140
		65%			Depth set	
Drilling commenced		5 3/16				
Drilling completed	Total depth	3			Perf. top	
Date shot	Depth of shot	2	A-2		Perf. bottom	
Initial open flow	/10ths Water inInch	Liners Used			Perf. top	
Open flow after tubing	/10ths Merc. inInch				Perf. bottom	
Volume	Cu. Ft.	CASING CEME	NTED	_SIZE	No. FTI	Date
Rock pressure	lbshrs.	NAME OF SER	VICE COMPA	NY		
Dil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCI	IES
Fresh water	feetfeet	FEET_	INCH	ES	FEETINCH	HES
Salt water	feetfeet	FEET_	INCH	ES	FEETINCH	HES
			no promoto se			
Drillers' Names						
Remarks: Set 22:	211 of 7" Comet 90	albul.	100 CKC	t A loc		
101883	1678617	7 7 166 5	re 1	3 0/50 p	02	
	col +	1426 per 3	545	1985 9	ナかる	
	•	120 100	Hoc Hoc	ule,		

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ONDANS			ABBBBBB						
			ADDRESS			-			
FARMCOUNTY									
Filling Material Used			4.8						
Liner L	ocation	Amount	Packer	Location					
PLUGS USED	AND DEPTH PLACED		BRIDGES	1	G AND TU	BING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST			
	-			-					
and the same of th			6 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6						
				-					
×	To Asside	* ********	9						
	70.0321								
	LESCHERA								
rillers' Names		500000							
			AND THE PARTY OF T						
emarks:									





State of West Virginia

OIL & GAS DIVISION DEPT. OF MINES

Department of Mines Oil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 8, 1984

	re	bruary o,	1904		
COMPANY	Kaiser Exploration & Mining	Co.	PERMIT NO _	035-184	9 6/83
P. O. Bo	x 8		FARM & WELL	NO Rando	1ph, #KEM-280
Ravenswo	od, West Virginia 26164		DIST. & COU	NTY Rip1	ey/Jackson
RULE	DESCRIPTION			IN COMPLI	
				YES	NO
23.06	Notification Prior to Starti		_		
25.04	Prepared before Drilling to	Prevent Was	ste		
25.03	High-Pressure Drilling		_		
16.01	Required Permits at Wellsite		-		
15.03	Adequate Fresh Water Casing		-		
15.02	Adequate Coal Casing		-		
15.01	Adequate Production Casing		-		
15.04	Adequate Cement Strenght		-		
15.05	Cement Type		-		
23.02	Maintained Access Roads		-		
25.01	Necessary Equipment to Preve	nt Waste	-		
23.04	Reclaimed Drilling Pits	ne waste	-	-	
23.05	No Surface or Underground Po	11ution	_		
23.07	Requirements for Production		Pinelines	<u> </u>	
16.01	Well Records on Site	a Gathering	Tiperines _		
16.02	Well Records Filed		-		-
7.05	Identification Markings		-		
7.03	racinitication markings		_		
I HAVE I	NSPECTED THE ABOVE CAPTIONED	WELL AND RE	COMMEND THAT	IT BE RE	LEASED:
			SIGNED _	lung	Typhalorl
			DATE		71784
Your wel	l record was received and rec	lamation re	quirements s	nnroved	In accordance
with Char	pter 22, Article 4, Section 2	the above	wall will r	comain und	or bond
coverage	for the life of the well.	, the above	well will i	emain unu	er bolid
coverage	Tot the life of the well.		7/	1/2	
				, -	1-0
			Administrato	or-Oil & Ga	as Division
			Jul	y 27, 1984	+
			Ι	DATE	

