



REVISED

IV-35 (Rev 8-81)	EQ	VIE	E
4,30	FOV:	7 1984	

State of Mest Mirginia Pepartment of Mines Gil und Gas Nivision

Date	12		/84					
Oper					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Well	No.	•		25	_		musumus	
Farm			ice					
API	No.	47	- 0	135	****	1751	-FR	AC

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DEPT. OF MINES

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

District: Ripley County Jacontpany Kaiser Exploration and Mining Company				
	KSON (Juagrangie	_ 77,5-7,5-6	
CMPANY Kaiser Exploration and Mining Company			s Krbre	
CMPANY Kaiser Exploration and Mining Company				
ADDRESS P. O. Box 8 Ravenswood, WV 26164	Caging	Used in	Left	Cement
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling		fill up Cu. ft.
ADDRESS Same	Size			
SURFACE OWNER Fairplain Land Corporation	20-16			
ADDRESS Ripley, Wv 25271	Cond. 3/4		253	150 sx clas
MINERAL RICHIS OWNER Gladys A. Price et al			253	TJU SA CIAS
ADDRESS 422 Brook Circle, Hurricane, WV	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8		0403	100 sx clas
Mace ADDRESS Rt. 1 Box 5 Sandridge	7		2401	00 SX 50/30
PERMIT ISSUED 9/01/82 (5-/5-84)	5 1/2			
DRILLING COMMENCED 9702762' 05 24/84	4 1/2		5165	225 sx 50/5
DRILLING COMPLETED 9780/62: 05 31/874	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	. 2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	useđ			
			. 5009	
GEOLOGICAL TARGET FORMATION Oriskany Sandsto			th 5009	feet
- and a fact that a point of the second of t	an aminimum	/ Cabl	100000	
Water strata depth: Fresh N/A feet; Coal seam depths: N/A				. 170
Coal seam depths: N/A	Is coal Drilled on	•		e area? NO
OPEN FLOW DATA	printed on	TIMIC IIO	c Mioeire	•
Producing formation Devonian Brown Shal	e Pay	zone dep	th 4144-	4220 feet
Gas: Initial open flow Mcf/d	Oil: Ini	-	Garagana	Contract of the Contract of th
Final open flow 184 474 Mcf/d	Fir	al open f	low	Bbl/d
Time of open flow between ini				
Static rock pressure 875 psig(surfa	ce measurer	ment) afte	r ho	urs shut in
(If applicable due to multiple completion	n)			
Second producing formation Berea Sandst	one Pay	zone dep	th 2489-	2499 feet
Gas: Initial open flow - Mcf/d	Control of the Contro		COLUMN TO STREET, STRE	Construction and any construction of the Const
and the second s	Oil: Fi	_	4	Bbl/d
repleted Final open flow 290 Mcf/d Time of open flow between ini			-	ours
N89 Static rock pressure 950 psig(surface			Control of the last of the las	urs shut in

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

10/29/82 Basin to set permanent plug @ 4350'.
05/24/84 Young's to perf Berea with 30 (.39" dia) shots from 2489' to 2499'.

05/31/84 NOWSCO to foam frac Berea. Breakdown pressure: 2100 psig, total nitrogen: 648 mscf, total sand: #60,000 of 20/40 sand, total fluid: 259 bbls, ISIP: 2300 psig, 5 min SIP: 2200 psig.

FORMATION CO	DLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
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e jihara	e e lega de la companya de la compan	•		The second of th
		4		The second secon
	at gray region y ist			Property and a contract was defined.

(Attach separate sheets as necessary)

	Kaiser Exploration and Mining Company
	Well Operator
•	
	By: 7. W. Kulst
	Date: 12/20/84

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 that, encountered in the drilling of a well."

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IV-35 (Rev 8-81)



State of West Birginia

Department of Mines
Oil and Gas Division

	Date December 1, 1982
	Operator's
	Well No. KEM - 255
•	
	Farm Gladys A. Price
	API No. 47 - 035 - 1751

12EQ 1 4 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

WELL OPERATOR'S REPORT

OF

DRITLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production X / Undergr	on/ Wast	te Disposa ge/ Dee	il/ p/ Sha	ullow /)
LOCATION: Elevation: 798' G Watershed				
District: Ripley County			e pint	·
and the second of the second o	<u> </u>		KIDIE	Y
COMPANY KAISER EXPLORATION AND MINING COMPANY				
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Casing	Used in	Left	Cement
DESIGNATED AGENT R A Pryce	Tubing		in Well	fill up Cu. ft.
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Size			
SURFACE OWNER Fairplain Land Corporati n	20-16 Cond.	-		
ADDRESS Ripley, WV 25271	13-10"		0.50	
MINERAL RIGHTS OWNER Gladys A. Price, et al	9 5/8		253	150 sx
ADDRESS 422 Brook Circle, Hurricane, WV				
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8			
Mace ADDRESS Rt 1, Box 5, Sandridge	7		2401	165 sx
PERMIT ISSUED 9/1/82	5 1/2			
DRILLING COMMENCED 9/22/82	4 1/2		5165	225 sx
DRILLING COMPLETED 9/30/82	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
GEOLOGICAL TARGET FORMATION Oriskany S.S.	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	L.		
Depth of completed will 5175 6-11			h 5009	feet
Depth of completed well 5175 feet	Rotary X	_/ Cable	Tools	
Water strata depth: Freshfeet;	*			
Coal seam depths:	. Is wal h	mine mine	d in the	area?
OPEN FLOW DATA				
Producing formation Oriskany S.S.	Pay	zone depti	h 5066- 507	' ⁴ feet
Gas: Initial open flow 70 Mcf/d	Oil: Init	ial open	flow	Bhī /a
Final open flow Made water Mcf/d	Fina	d open fl	OW	Bb] /d
Time of open flow between init	ial and fin	al tests	hou	rs
Static rock pressure 375 psig(surface	e measureme	nt) after	bour	s shut in
(If applicable due to multiple completion				
Second producing formation Devonian Brown S	hale Pay	zone depti	. 4144-422	0 feet
Gas: Initial open flow Mcf/d	Oil: Init	ial open :	Elow	Bb1 /d
Final open flow 184 Mcf/d	Oil: Fina	l open flo	W	Bh1 /a
Time of open flow between init:	ial and fin	al tests	har	rs
Static rock pressure 875 psig(surface	measuremen	t) after	bonir	s shut in
-				DEC 27 1
		(Contin	ie on reve	erse side) "

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

10/06/82 Oriskany S.S. Perforation:

5066-5074 (4 shots/ft.)

32 holes, 0.39" dia. 10/08/82 Oriskany S.S.

Fracture: (acidizing)

Pumped 2500 gal of 28% HCL w/1000 SCF N2/bbl

Treatment pressure: 1650 psig ISIP: 500 psig

PLUGGED BACK

11/10/82 Devonian Brown Shale Perforation:

11/11/82 Devonian Brown Shale

4144-4220, 17 shots, 0.35" dia. % 4350° Fracture:

Total sand 60,000 # 20/40

Total N2: 1,195 MSCF; Total fluid: 409 BBL

ISIP: 1800 PSI

Treatment pressure: @ 2600 PSI WELL LOG

FORMATION	COLOR HARD OR SO	FT TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandsto	ne and shale ne ne shale .S. hale us a L.S. y S.S.	0 1132 1228 1670 1985 2120 2464 2487 2499 3731 4291 4661 4960 5009 5100	1132 1228 1670 1985 2120 2464 2487 2499 3731 4291 4661 4960 5009 5100 5175 T.D	s/g @ 3569,366,3866,4060, s/g @ 4148, 4173, 42601, 4416,447 4920, 4980,5020 s/g @ 5070, 5089,5116
	4144			
from ex	1645 - Log 100			• , , , , , , , , , , , , , , , , , , ,
and	2486 2486 2500			
in which	3780 4282 4430 4690			

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

1982 December 1, Date:

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including

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4936 4 960

Noveellus



Date: _Aug	ust.	20 .	19_{
Operator's	******	1000	
Wall No	KEM	#255	

API Well No. 47

035 . 1751

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3	ÖI	L AND GAS W)N		•
WELL TYPE:	go_some	Gas X	Constitution (national particular)		CONTRACTOR OF THE PARTY OF THE	T ME II	•	
		uction X	Underground	I storage	1	Deep X	/ Shallo	w A
LOCATION:		798'						//
		pley	· ·				: Riple	V
WELL OPERATO	OR_Kaiser_Exp							
	P. O. Box 8			Addre		P. 0.		American der symmetricanschaperen
ا الله الله الله الله الله الله الله ال	Ravenswood.	, WV 26164	* , d	•	4.	•	swood, WV	26164
OIL & GAS ROYALTY OWN	IER Gladys A	. Price, et	al	COAL OPE	RATOR			
Address	422 Broo	k Circle		Addre	-			
	Huricane	, WV 2552	6	•	() () () () () () () () () () () () () (
Acreage	134.5			COAL OWN	JED(C) W	ITU DECLA	DATION	N RECORD:
	ER_ <u>Fairplai</u>	n Iand Com						
Address		и вана согр WV 25271			ss_No	oil and	- 035 OW	er
		77 23271	CONTRACTOR	Manue	n	A Carlo		
Accage		All control of the co	TO THE RESIDENCE AND ADDRESS OF THE SECOND S	Name		~		
FIELD SALE (IF	: MADE) TO:		COMMISSIONAL PROPERTY OF THE P	Addre	e e			-
-Address		• • •	•					
#DOUGHESTINGS		Ober Printer der Printer (Printer (Printer) der Anders (Printer) der And	·	COAL LESS	SEE WITH	I DECLARA	TION ON P	ECOPD-
OIL & GAS INSI	PECTOR TO BE N	OTIFIED		Name			AZOR ON A	LCOND.
	Mace		· · · · · ·	Addre	ss			
Address	Rt. 1, Box	5						•
•	Sandridge, T	WV	903 age affect ()	•			•	
The undersigned	l well operator is enti	tled to operate for o	il or gas purpose	s at the abo	ve location	ererdam m alamai		•
other contract		ember 14,19					Charles	
Tean	Price se, or other contract				opo			
	cmeber 219 8			he County C	`aiii	Jac	kson	_
Va. in Leas	se	57	295		Ommussion	1 01		County, West
					7.		er er er er er er er. F	Middle State
	Plus off old fo					stimulate	/	
•		ermation		v tormation.		•		
	Omer physical	change in well (sp	ecity)					
	-planned as s	hown on the work	order on the r	everse side	hereof	1		
The above named								
nake by Code \$22-	l coal operator, coal o 4-3 must be filed wi	th the Department	of Mines within	nomico mai i fifreen 715	l any objec	tion they wish	to make or a	re required to
Separtment.					, cays aite	n me receipt	of this Appl	ication by the
Copies of this Per	mit Application and t	he enclosed plat am	d reclamation pl	an have bee	n mailed b	y registered n	nail or deliver	ed by hand to
he above named co	al operator, coal owr	ner(s), and coal less	ee on or before	the day of th	ne mailing	or delivery of	this Permit	Application to
he Department of	Mines at Charleston	n. West Virginia.	engentelle to a martie. Es monarte Materiale annice attention for a monarte attention of the second					
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VEST VIRGINIA CONSERVATION	OIL AND GAS ON COMMIS-	AUGZ	المحال	n. [20	Well Oper	ator /do	Sai,

1615 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

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REGELVEN		
	* KAISER EXPLORATION A	MI
AUG 2 3 1982	Well Oper	ra
	By R.a. Proce	wik (in
OIL & GAS DIVISION	to Consumal Ma	
DEET OF MINE!	General Manager	
LAME OF MINEL	No. al	

BLANKET BOND

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						P. O. Box				
	•					Elkview,	WV 2507	1		
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								in the area? Yes_		
CASING AND				***********			a court summed	in the area; it's	/ No	/
						tu.	•	•		
CASING OR TUBING TYPE	#	CIFICAT	IONS Weight	CONTRACTOR OF THE PROPERTY OF		FOOTAGE	INTERVALS		PACKERS	
	Size	Grade	per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor									Kinds	
Fresh Water	10 3/	<u> </u>				250'	250	150 sks class	A (to surf	aca)
Coal								•	Sizes	ice)
intermediate	7"	i sasa sasa	Land to the	ra, ereg		2383 '	2383'	65 sks 50/50	pozmix	
Production	4 1/2) 18				5165'	5165'	100 sks Class	tt	
Tubing								225 sks 50/50	DOSHUX sec	
Liners										
-			·						Perforations:	
	•								Тор	Bottom
		*****								•
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70AM 09-0

Kaiser Exploration and Mining Company

Spal operator or owner

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

OLC 14 1919 OIL AND GAS DIVISION .

AFFIDAVIT OF PLUGGING AND FILLING WELL

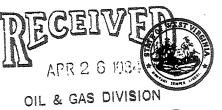
AFFIDAVIT SHOULD DE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPENATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPENATOR AT THEIR RESPECTIVE

Same

NAME OF WELL OFERATOR

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	SE PROPERTY SWIER				_County
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	•	Clare	ence Price		torial .
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and filled in the fol	lowing manner:			ic acti act	hingRed
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)	Date: April	5	 19_84
١	Operator's		

Operator Well No._

1751-FRA(3) API Well No. State County Permit

DEPLACEMENT OF MIP'ES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

B (If "Gas", Production X Underground storage Deep Shallow X District: Ripley County: Jackson Quadrangle: Ripley
5) LOCATION: Elevation: 798' Watershed: Grasslick Run District: Ripley County: Jackson Quadrangle: Ripley 6) WELL OPERATOR KEMBAS Kaiser Exp & Mining Co. 7) DESIGNATED AGENT R. A. Pryce Address P. O. Box 8 Ravenswood, WV 26164 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name J. Tephabock Name Kaiser Drilling Rig #1 Address Ripley, WV 25271 Address P. O. Box 8 Ravenswood, WV 26164 10) PROPOSED WELL WORK: Drill Drill deeper Redrill Stimulate X Plug off old formation Perforate new formation X Other physical change in well (specify) Squeeze 4 1/2" casing: treat Berea; iso 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone Shale, Berea with tubing and packer. 12) Estimated depth of completed well, 4350' (PBTD) feet 13) Approximate trata depths: Fresh, 160' feet; salt, 650' feet. 14) Approximate coal seam depths: None Is coal being mined in the area? Yes No X TUBING TYPE Slape Grade Weight per It. New Used For drilling Left in well (Cubic feet) Kinds None
6) WELL OPERATOR KEMBAS Kaiser Exp & Mining Co. 7) DESIGNATED AGENT R. A. Pryce Address P. O. Box 8 Ravenswood, WV 26164 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name J. Tephabock Name J. Tephabock Name Address Ripley, WV 25271 Address P. O. Box 8 Ravenswood, WV 26164 10) PROPOSED WELL WORK: Drill D
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Other physical change in well (specify) Squeeze 4 1/2" casing; treat Berea; iso 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone Shale, Berea with tubing and packer. 12) Estimated depth of completed well, 4350' (PBTD) feet 13) Approximate trata depths: Fresh, 160' feet; salt, 650' feet. 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No X 15) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILL-UP OR SACKS TUBING TYPE Size Grade Per ft. New Used For drilling Left in well (Cubic feet) Conductor Kinds None
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OFFICE USE ONLY
DRILLING PERMIT
47 025 1751 pp. c
114 15 170
Date
This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal puirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refe
No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pro-
district oil and gas inspector 24 hours before actual permitted work has commenced.)
The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on
reverse hereof. Permit expires May 15, 1986
Permit expiresunless well work is commenced prior to that date and prosecuted with due dilige
Bond: Agent: Plat: Casing Fee
BLANKET 967-
[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Administrator, Office of Oil and Gas
NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.