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Bepartment of Mines Gil und Gas Bivision

Date	November 25, 1985
Operator' Well No.	S JK-1240
Farm	Hess
API No. 4	7 - 095 - 1115

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Undergrou	/ Waste nd Storage	e Disposal e/ Deep	/ Sha	llow_x_/)
IOCATION: Elevation: 1100 Watershed District: Centerville County Tyles		Quadrangle	Pennsbor	co 7.5
To I Enterprised Inc	•			
ADDRESS P.O. Box 48, Buckhannon, WV 26201 DESIGNATED AGENT Richard Reddecliff	Casing	Used in Drilling		Cement fill up Cu. ft.
ADDRESS P.O. Box 48, Buckhannon, WV 26201 SURFACE OWNER O.W. Griffin	Size 20-16 Cond.	DITTING		
ADDRESS P.O. Box 3025, Parkersburg, WV 26101 MINERAL RICHIS CHNER Garnet I. Hess, et al.	13-10" 9 5/8	30	0	0 sks.
ADDRESSOIL AND GAS INSPECTOR FOR THIS WORK Robert_	8 5/8	1268	1268	270 sks.
Lowther ADDRESS General Delivery Middlebourne, WV 26149 PERMIT ISSUED 9/30/85	5 1/2	5940.70	5940.70	285 sks.
DRILLING COMPLETED 10/18/85 DRILLING COMPLETED 10/24/85	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Rhine Street			pth	feet
Depth of completed well 5978 feet. Water strata depth: Fresh 740,1615 feet;				
Coal seam depths: None			ned in th	e area? No
OPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d				-84 fee Bbl/
Gas: Initial open flow Mcf/d Combined Final open flow 696 Mcf/d Time of open flow between ini	F	inal open	flow	Bb1/
Static rock pressure 1325 psig(surfa (If applicable due to multiple completion	nce measuro n)	ement) aft	er ⁹⁶ h	ours shut i -74
Second producing formation Alexander, Be Gas: Initial open flow Mcf/d	Oil: I	nitial ope	en flow_	Bbl/
Final open flowMcf/d Time of open flow between in	itial and	final tes	ts	hours
Static rock pressurepsig(surface	ce measure		••	ours shut i DFC (1993) reverse sid

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

Q mi restreet

Devonian Shale: Perforations: 5876-84 (16 holes)

Fracturing: 300 sks. 20/40 sand: 408 Bbls. fluid.

Alexander: Perforations: 5264-66 (8 holes) 5275-77 (8 holes)

Fracturing: 450 sks. 20/40 sand:500 gal. acid: 518 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (5940.7 \times 0.0075) + 459.7 = 564.25 \times = 53.34T = \frac{1}{53.34(564.25)} = \frac{1}{=30.097} = 0.000033$ $Pf=(1325)(2.72) = (0.000033)(0.661)(5428.5)(0.9) \qquad Pf=(1325)(2.72) = (1325)(1.11)$

Pf=1470 psi

WELL LOG

			- REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	I
Internation with the on with	100 1101	201101	and salt water, coal, oil and ga
Top soil & shale	0	15	
Sand & sandy shale	15	170	Damp @ 290'
Sandy shale, red rock & sand	170	365	_
Sand, shale & red rock	365	· 745	½" stream @ 740'
Sandy shale & sand	745	1520	
Sand & sandy shale	1520	1670	½" stream @ 1615'
Sandy shale	1670	1920	
Little Lime	1920	1940	Gas ck @ 2475 No show
Big Lime GER + Po Wim	1940	2005	
Sand sandy shale	2005	2420	Gas ck @ 3467 No show
Sandy shale & sand Sandy shale & sand	2420 2880	2880 3455	Gas ck @ 4739 No show
Sandy Shale & Sand Sandy shale & sand	3455	4560	Gas CR @ 4739 NO SHOW
Brown sand	4560	4720	Gas ck @ 4987 No. show
Sandy shale & sand	4720	5264	Sub Cir C 150, Inc. Dia.
Alexander	5264	5277	Gas ck @ 5295 No show
Sandy shale & sand	5277	5876	
Devonian Shale	5876	5884	•
Sandy shale	5884	5978	
from 0.0 e log;	1	T.D.	Rhinestreet @ T.D.
Top Deu 2 2500.		1.5.	
by thickness		1	
ups Dou undiff 2500 1100			
Cur Huran 3600 1250			
Java 4850 _ 200			
Arigola 5050 250			
Etimestrent 5300 600.			·
Cashaque Sh. 5900.			
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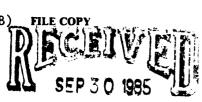
(Attach separate sheets as necessary)

J & J Enterprises, In	c. `.
Well Operator	
By: Daniel 7,5	Tark Daniel F.Stark-
Date:	11/25 /85 Asst.Geologist

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 will, encountered in the drilling of a well."

FORM WW-2(B) (Obverse) 7/85





1)	Date: Sep	tembe	er 26	بزار	85
2)	Operator's Well No	JK-1	1240		
3)	API Well No.		-095-1115		
		State	County	P	ermit

STATE OF WEST VIRGINIA DIVISION OF OIL BEFANTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A	Oil	/ Gi		<u>X</u>				
		(If "Gas",		n	Χ	/ Underground	d storage	/ Deep	_/ ShallowX/)
5) LOCATIO		Elevation:				. Watershed:	big kun		
	I	District:	<u>Cente</u>	ryil	<u>le 석요</u>	County:	Tyler	Quadrangle: _	Pennsboro 7,5'
		к <u>л я л</u>	Enterp	rise	s, CODE	: <u>24150</u>	7) DESIGNATE		rd Reddecliff
Addres	s		30x 48		6001		Address		Box 48
	. —		annon,		6201				nannon, WV 26201
8) OIL & GA							9) DRILLING CO		
		obert					Name	S.W. Jack [
Addres		eneral			C140		Address	P.O. Box 48	
		iddleb	-					<u>Buckhannon</u>	
10) PROPOSI	ED WEL	L WORK:			_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X</u>
			Plug of	f old	formation_	/ Perfo	orate new formation	/	
						well (specify)			
11) GEOLOG				,	5995'	Street 441			•
12) Estim	•	•			125'	fee	AL ZA		•
13) Appro		-	-		N/A	•	ıt, N/A	feet.	V
14) Appro					N/A	Is c	oal being mined in the	area? Yes	/ NoX
15) CASING	AND IU							•	
CASING OR TUBING TYPE	l	SPE	CIFICATION! Weight	5 1	. 1	FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	-	4 H-40	42	X		30'	0'	0 Sacks	Kinds
Fresh water	7	8 ERW	23	X	 	1100'	1100'	To Surface	y rule 15.05
Coal	8 5/	8 ERW	23	<u> </u>		1100'	1100'	To Surface	Lizes
Intermediate	+	 	 						
Production	41/2	J-55	10.5	X_	-	5995'	5945'	300 Sacks	Depths set
Tubing	 	+	 		 			or as requir	ed by rule 15-01
Linc.	╂		-					 	Perforations:
	+	+	 					<u> </u>	Top Bottom
	#		 	<u> </u>			<u> </u>	 	
			J		1 1		<u> </u>	1	
						EEICE UCE	ONLY		
						FFICE USE			
					U	KILLING P	EKWIII		
Permit number_	4	7-095-	1115					Sep	tember 30 1985
								Dat	
This permit coversity	ering the	well operat	or and wel	l location	on shown b	elow is evidence	of permission grante	ed to drill in accordan	ce with the pertinent legal re-
o. 8) Prior to th	e constru	ction of ro	ads, locatio	ns and	Dits for any	permitted work	otification must be given In addition, the w	ven to the District Oil ell operator or his con	and Gas Inspector, (Refer to tractor shall notify the proper
district oil and g	gas inspec	tor 24 hour	s before ac	tual pe	rmitted wo	rk has commend	ed.)		mactor small notify the proper
The permitted w	ork is as	described is	n the Notic	e and A	application,	plat, and reclan	nation plan, subject t	o any modifications a	nd conditions specified on the
everse nereor.									
Permit expires _		eptemb	er 30	, 15	701	unless we	ll work is commenced	prior to that date and	prosecuted with due diligence.
Г									
Bond:	Agen	t:]	Plat:	Casi	ng Fe	ee WPCE	S&E	Other	
MUIS MUISON MILMA									
							1 /	- I T	1/200
NOTE: Keep o	ne copy	of this pern	nit posted a	it the d	rilling locat	ion.	J JUKG	yarus -	NUM
-		<u> </u>	·			L		sion of Oil	and Gas File
		See	the reverse	e sid e o	f the APPI	JCANT'S COP	Y for instructions to	the well operator.	