

State of West Virsinia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: CALHOUN, ARTHUR L. Operator Well No.: FERREBEE 5 LOCATION: Elevation: 970.00 Quadrangle: WEST UNION District: CENTERVILLE County: TYLER Latitude: 9200 Feet South of 39 Des. 20Min. 0 Sec. Lonsitude 11500 Feet West of 80 Des. 50 Min. 0 Sec. Company: KEY OIL, INC. 6 GARTON PLAZA I Casing | Used in | Left | ICement | WESTON, WV & 1 Tubins | Drillins | in Well|Cu. Ft.| Asent: JAN E. CHAPMAN 1 Size Inspector: GLEN P. ROBINSON 111-3/4 1 42 1 42 Permit Issued: 11/21/88 12-2-88 Well work Commenced: Well work Completed: 12-7-88 Į 1 | 1117 | 8-5/8 | 1117 Verbal Flugging Permission granted on:______ Rotary_X__ Cable ____ Ris Total Derth (feet) ___5,238_____ 1 4-1/2 1 5169 1 250 sks. 1 Fresh water depths (ft) _80_____ Salt water depths (ft) ___0____ 1-1/2 Is coal being mined in area (Y/N)?N_ Coal Depths (ft):_____ --MAR-09-1984 5108-5120 OPEN FLOW DATA Alexander DIVISION OF OIL & GAS Benson DEPARTMENT OF ENERGY
Producing formation Riley Fay zone depth (ft) 4410-4445
Gas: Initial open flow 30 MCF/d Oil: Initial open flow 0 Bb1/d Benson 4815-4822 Final open flow $\frac{768}{MCF/d}$ Final open flow $\frac{0}{MCF/d}$ Bbl/d Time of open flow between initial and final tests $\frac{N/A}{MCF/d}$ Hours Static rock Pressure $\frac{1500}{MCF/d}$ psid (surface pressure) after $\frac{96}{MCF/d}$ Second producing formation____ ____ Pay zone depth (ft)____ Gas: Initial open flow_____Bbl/d Final open flow _____Rbl/d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS. INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL, INC.

Bu: Jan E. Chapman

Date: February 22, 1989

Time of open flow between initial and final tests_____Hours

Static rock Programme Hours

-----MAR-1-0-1989--

12-16-88	Halliburton	
Alexander	(5113.75-5116)	30,000# 20/40 Sand, 363,000 SCF N2, and 500 ga. acid
Benson	(4818-4820.25)	20,000 # 20/40 Sand, 366,000 SCF N ₂ , and 750 ga. acid
Riley	(4222-4443)	30,000# 20/40 Sand, 382,000 SCF N2, and 750 ga. acid

FORMATION	TOP FEET	BOTTOM FEET
Shale	0	140
Sand & Shale	140	380
Sand	380	440
Sand & Shale	440	910
Sand	910	950
Sand & Shale	950	1290
Sand	1290	1360
Sand & Shale	1360	1610
Sand	1610	1670
Shale	1670	1750
Maxton	1750	1770
Shale	1770	1780
Little Lime	1780	1820
Big Lime	1820	1880
Injun	1880	2000
Sand & Shale	2000	2337
Berea	2337	2340
Sand & Shale	2340	4410
Riley	4410	4450
Sand & Shale	4450	4815
Benson	4815	4820
Sand & Shale	4820	5100
Alexander	5100	5120
Sand & Shale	5120	5238
RTD	5238	
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DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

~and

MAR 1 0 1989

095-1267

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FORM WW-2B	~a5-1	0 - 3			Eupinas II	1 21/90 age of
			TE OF WEST		•	, , , , , , , , , , , , , , , , , , ,
	DEPART	WELL WO	ORK PERMIT	VISION OF O APPLICATIO	IL AND GAS N	•
1) Well Ope	erator:	· KEY	OIL COMPANY	INC. 25	655, 1;	670
2) Operator	r's Well	Number:	Ferrebee	#5	, , , , , , , , , , , , , , , , , , ,	evation: 970
4) Well typ	oe: (a)	0il <u>X</u> /	or Gas	5_X/		•
-	(b)	If Gas:	Production Deep	n <u>X</u> / Underg	round Storag Shallo	
5) Proposed	l Target	Formation	n(s):	Alexander 40	9	•
6) Proposed	i Total D	epth:	5500 .	feet	•	/
7) Approxim	mate fres	h water s	strata dépi	hs: 125	90,143	3`
8) Approxim	mate salt	water de	epths:	-0-	1335	14001
9) Approxim	mate coal	seam dep	oths:	-0- fa	AM155- 1	58'
10) Does lar	nd contai	n coal se	eams tribut	ary to act	ive mine? Y	es/ No_X_/
11) Proposed	d Well Wo	rk: Dril	l, Stimulate	, Produce N	ew Well	
12)	:	as are	10 110 min			
				NG PROGRAM		
TYPE	<u>s</u>	PECIFICAT	CIONS	FOOTAGE II	NTERVALS	CEMENT
57 PM 199	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4		42	42	-0-	38C5R18-11-3
Fresh Water	8-5/8	ERW	23	1120 Comert	te Dentose 1120	275 sacks to surface
Coal						38C5R18112
<u>Intermediate</u>				****		39CSR18-11,1
Production	4-1/2	J - 55	10.5	5500	5500	225 sks.
Tubing						
Liners					0)50	TOPINE
PACKERS : Kir					NO	V 0 3 1988
Dep	ths set				DIVISION	V OF OIL & GAS
12	F.	or Diviso	n of Oil a	nd Sas Use	DEDADTA	ENT OF ENERGY
Fee(s)	aja:	Well w	ork Permit		lamation Fund	d WPCP
IN Plat	Jr. WW-9	WW-	2B 1 B	sond DBU	Type)	Agent
		-		,	-15-1	

Page 1 of	RECEIVED	1)	Date: <u>October 26, 1988</u>	.,
Form WW2-A (09/87)	NOV 0 3 1988	2)	Operator's well number Ferrebee #5	
File Copy	DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	3)	API Well No: 47 - 095 State - County	- <u>/267</u> - Permit
	STATE OF	WEST	VIRGINIA	

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Arthur L. Calhoun	Name None
	Address Box 6	Address
	Smithburg, WV 26346	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name
		Address
	(c) Name	
	Address	Name
		Address
<i>C</i> \	Tananaha at an	
6)	Inspector Glen Robinson	(c) Coal Lessee with Declaration
	Address Rt 1 Mt. Pleasant Est.	Name
	Mineral Wells, WV 26150	Address
	Telephone (304)-489-9162	
	· · · · · · · · · · · · · · · · · · ·	
e.	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
	·	
	Included is the lease or leases or	other continuing contract or
cont	racts by which I hold the right to ,	extract oil and dae OP
<u> </u>	included is the information require	ed by Chapter 22p lating 1
Sect.	ion o(d) of the Code of West Virgin	ia (see page 2)
	I certify that as required under C	hapter 22B of the <u>West Virginia Code</u>
I ha	ve served copies of this notice and	application a least virginia code
acco	mpanying documents pages 1 through	application, a location plat, and
	Personal Service (Affidavit a	on the above named parties, by:
	V Cortified Wail (Doctor base)	ctached)
	X Certified Mail (Postmarked pos	stal receipt attached)
	Publication (Notice of Publication)	ation attached)
	T have yord and undambers of	
to +1	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
נט נו	ie terms and conditions of any perm	it issued under this appliantion
	I CELUITY UNGER Denairy of law that	t I bayo porcenally compined
ramı.	riar with the information submitted	On this application form and all
~ ~ ~ ~ ~ ~	rimenes, and that based on my indini	rv ot those individuals i
respe	mistrie for obtaining the information	on, I believe that the information
is t	de, accurate, and complete.	
	I am aware that there are significations	ant penalties for submitting false
infor	mation, including the possibility	of fine and imprisonment
	Well operator	1 Kern 211 Company
	By:	
	Its:	Vice President
	decob <u>o gare</u>	on Plaza, Weston, WV 26452
	Telephone (30	4)-269-7102
Subsc	cribed and sworn before me this 26th	
	Shull (See +), delio,)	Notary Dublia
Му с	omnission expires 15,199	Notary Public
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