





State of West Virginia **Division of Environmental Protection** Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:

East Resources Inc

Operator Well No.: MARTH ELDER NO. 2

LOCATION:

Elevation:

1195'

Center Point 7.5 Quadrangle:

District:

McElroy

County: Tyler

Latitude:

Longitude:

6,800 Feet south of 7,725 Feet west of

39 Deg 27 Min

30 Sec. 00 Sec.

Company:

EAST RESOURCES, INC.

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

Rotary

MICHAEL MCCOWN

Inspector:

Mike Underwood

Permit Issued: Well work Commenced:

10/19/01

Well work Completed:

11/18/01 11/20/01

Verbal plugging

permission granted on:

X Cable

Total Depth (feet)

Rig 3,865 NA

Fresh water depths (ft)

Salt water depths (ft)

NA

Is coal being mined in area (Y/N)

Coal Depths (ft):

NA

Deg 40	Min 00	Sec.			
Casing	Used in	Left	Cement Fill Up		
Tubing	Drilling	in Well	Cu. Ft.		
Size					
8 5/8"	1515'	1515'	Existing		
4 1/2"	3865'	3865'	Existing		
	Casing & Tubing Size	Casing & Used in & Tubing Drilling Size 8 5/8" 1515'	% Tubing Drilling in Well Size 8 5/8" 1515' 1515'		

OPEN FLOW DATA * waterflood producer

Drodu	cing formation	Gordon	Pay zone	depth (ft)	3084-	-3088
	Initial open flow		Oil: Initial open flo		*	Bbl/d
Gas:	Final open flow	* MCF/d	Final open flow		*	Bbl/d
Static	Time of open flow be rock pressure	tween initial and fina	al tests arface pressure)	Ho after	urs 504	Hours
Secon Gas:	d producing formation Initial open flow Final open flow	MCF/d MCF/d	Final open flor	w		Bbl/d Bbl/d
Static	Time of open flow be rock pressure	etween initial and fination psig (st	al tests urface pressure)	after Ho	urs	Hours
OR STIMULATI	K OF THIS FORM, PUT THE NG, PHYSICAL CHANGE, E RECORD OF ALL FORMATIO Office of C. 2. Cas	$\Gamma C.~~2)$ THE WELL LOG V	VHICH IS A SYSTEMA	TIC DETAILE	D	G
	APR 0 1 2002 WV Department of Environment of the second o	For: EAST RESOU By: Date:	RCES, INC. /Ser Keldy 1/24/0:			
	The state of the s				400 ~	- 20 02

5 2002 APK

Treatment:

Plugged back to 3135' w/ 102 sks cement, Perforated Gordon : 3084 -3088' - treated w/ 500 gal 15% HCL, 184 bbls Cross linked gel and 13000#20/40 sand

Well Log:

Big Lime	2242	2333
Big Injun	2233	2434
Squaw	2434	2502
Weir	2502	2764
Berea	2764	2868
Gantz	2868	2882
30' sand	3048	3106
Gordon	3283	3292
Originnal TD	3865	
Plug back TD	3135	

FORM IV-2 Obverse) 08-78)

FFEFPHONE: (304) 348-3092



	State	County	Permit
API Well No	. 47	. 095	. 0939
Operator's Well NoA	rza	Elder	# 1
Date: Aug	10), t	9 <u>81</u>

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

•	OIL AND GAS V	VELL PERMIT			
WELL TYPE: Oil X			***		
(If "Gas", I	Production/ Underg	round storage/	Deep	/ Shallow	/ <i>)</i>
LOCATION: Elevation:	<u>893'</u> Water	shed: <u>Indian Cr</u>	eek	· · · · · · · · · · · · · · · · · · ·	
District: <u>M</u>	Countries Countr	y: <u>Tyler</u>	Quadran	gle: Center P	oint 7.
WELL OPERATOR L&M Pe	troleum Co.	DESIGNATED AGI	ENT <u>Dav</u>	id Clovis	
Address P.O. B	ox 89	Address	P.0	Box 288	
Reno,	Ohio 45773	-	Par	kersburg, W	V 26101
OIL & GAS ROYALTY OWNER <u>Marth</u>	a Elder	COAL OPERATOR		None	
Address 301 C	helsea St.	Address			
Siste	rsville, WV	-	***		
Acreage 95.5		COAL OWNER(S)	WITH DECI	ARATION ON RE	CORD.
SURFACE OWNER Forre	st R. Glover	Name			PRET
Address Rt. 1		Address		Company Company	W/h
		Variation Transfer of the Paris			-
	rsville, WV	Maria	NI / 4	74333 3 [1	1981
		Name			
FIELD SALE (IF MADE) TO:		Address		CH & GAS D	
Address N/A				Dayl. of	
OUL A CAC BIODEOTOR TO D	CNATCED	COAL LESSEE WI			
OIL & GAS INSPECTOR TO B		Name			
Name Phillip L. Tr		Address			
Address Rt. 23		· 			
Alma,_	WV 26320				
	s entitled to operate for oil or gas ;				
other contract/ dated/ Martha E. Eld	or	to the undersigned well o	perator from	Arza Elder	and
IF said deed, lease, or other con	ntract has been recorded:)	-			
Recorded on, 1	in the office of the Clo	erk of the County Commiss	ion of	Tyler Con	inty, West
Virginia in <u>Deed</u> Book	190 at page 494	. A permit is requested as	s follows:		•
	_/ Drill deeper/ R			,	
	old formation/ Perfor			- Carrie	
		*			
Other phy	rsical change in well (specify)				-
planned	as shown on the work order o	n the reverse side hereof			
nake by Code \$22-4-3 must be fil	coal owner(s), and coal lessee are	nereby notified that any obj	jection they v	vish to make or are r	equired to
epartment.	A WASHINGTON TO THE PROPERTY OF TAXABLE	s within thiesen (15) days a	ruct the tect	eipt of this Applicat	ion by the
	and the enclosed plat and reclam	ation plan have been mailed	d hu segistere	d mail on deliment	L., L.,
ne above named coal operator, coa					
ne Department of Mines at Char			g	y or time return App	dication to
PLEASE SUBMIT COPIES OF AL	ī				
GEOPHYSICAL LOGS DIRECTLO:		T 9.M T	Ontmol	ım Ca	
			<u>Petrolei</u> Well O	perator	
VEST VIRGINIA OIL AND GA CONSERVATION COMMI	•)
SION 015 WASHINGTON STREET EAS	T BLANKET BASE		rance		
CHARLESTON, WV 25311		Its Vi	ce Pres	rident.	

and the second second

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING C	ONTRAC	TOR (II	F KNOW	N) _						
				Ad	ldress					•
CT-01-0-010-1		m con			44. P					
						evonian S		•		
								y <u>X</u> / C	able tools	/
Approxi	mate wat	er strata	depths:	Fres	h,	N/A feet	; salt,	N/A feet.		
Approxi	mate coal	seam d	epths:	-	N/A	ls coal	being mined	in the area? Yes_	/ No	<u>x</u> 1
CASING AND	TUBING	G PROG	RAM							
CASING OR TUBING TYPE		CIFICATI	Weight			l	NTERVALS	CEMENT FILL-UI	PACKERS	
	Size	Grade	per ft	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	5/8			X		250'	250	To surface	Kinds	
Fresh Water										
Cosi			,						Sizes	
Intermediate										
Production	4.5			X		4500 T.D.	4500 T.D.	450 150-165 sac	Sepths set	
Tubing								according		
Uners		·	,					Rulo 15.01		
¥									Perforations	
,									Тор	Bottom
		***************************************		-						
"Recli previo Code A se	amation Fusly paid \$22-4-8a	lan", apon the safrom the	oplicable ume well, e owner o	the fe	reclai e requ water	mation required ired by Code § 2 well or dwelling	by Code \$ 2 2-4-12a, and (ng within 200	ur copies of Form IV. lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regular v) if applicable, the of feet of the propose well where fracturing	2, (iii) Form IV- ion 23, (iv) unle onsent required I d well.	9, ss py
		orn jot w	men e bei	MIX 13	songn	it and is noted a	s such on the	well where fracturing Form IV-2 filed in co	anection therewit	h.
THIS PERMIT I										
All provisions of the W. Va.										
	ing					if				
operations hav	e noi con	nmanced	by4	19-8	2	_•				
tel	1 1	Su	del	W	// -					
Deputy Dire	ector - Oil	& Gas	Division	i Lightin		en e				
••••••		• • • • • • • •	******	*****		•••••		•		
The fo	llowing wa	siver mu er Code	st be comp 22-4-20	leted , if th	by the	coal operator as mit is to be iss	nd by any coal sued within fi	owner or coal lessee fteen (15) days of re	who has recorded	
	(新生)					WAIVE	R			
The undersign proposed well loo The undersigned applicable requir	ed coal o cation. If a l has no o rements o	perator_ a mine m objection of the W	to the weest Virgin	owne which ork pro is Co	cover oposed de an	lessee the area of the to be done at the governing	of t well location this location, regulations.	he coal under this w , the well location has provided, the well o	ell location has e been added to the perator has comp	xamined this te mine map. Died with all
	u vita									
Date:	****		, 19				Ву			· · · · · · · · · · · · · · · · · · ·
			-	,			Its			

(ROVINGE BURGETONED)



Well No. # 2
Farm Arza Elder
API = 47 - 095 -0939-REV.
Date 9-10-81

SEP 1 4 1981

STATE OF WEST VIRGINIA

OIL AND CHE DOUS OF OIL AND GAS - DEPARTMENT OF MINES WYDEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE:	011 <u>x</u> / Gas <u>x</u> /		
	(If "Gas", Productio	on/ Unde	erground storage / Deep / Shallow /
LOCATION:	Elevation: 1267'	Watersho	:d: Indian Creek
	District: McElroy	County:	td: Indian Creek Tyler Quadrangle: Center Point
	OR L&M Petroleum Co.		DESIGNATED AGENT David Clovis
			Address P.O Box 288
	Reno, Ohio 45773		Address P.O. Box 288 Parkersburg, W. Va. 26101
ROVALTY OUR	; 15.0 - Manatha B. 121.4.		
Address	Martha E. Elde 301 Chelsea St Sistersville,	r	
	Sistersville,	W. Va. h	Address
Acreage	95.5		
SURFACE OUR	IFD Formant D Clay		COAL OWNER(S) WITH DECLARATION ON RECORD:
Address	Forrest R. Glo	ver	NAME None
	Sistersville, N	W. Va.	Address
Acreage	Sistersville, N 95.5		NAME
FIFIN SALE	(IF MADE) TO:		Address
	N/A		
Address	21/42		COAL LESSEE WITH DECLARATION ON RECORD:
grand gladers			NAME N/A
OH AND CAS		,	Address
OTE MND GAS	INSPECTOR TO BE NOTI	FIED:	
NAMEPE	nillip L. Tracy		
Address R	t. 23 lma, WV 26320		
Talashana	lma, WV 26320		
re repnone_	1-304-758-4573		
to the unde	rsigned well operator	from <u>Arza I</u>	ed to operate for oil or gas purposes at the / other contract/ dated_Sept.15, 1971, Elder and Martha Erma Elder
	ed, essee, or other e		
ter orded on	, 19	, in the off	ice of the Clerk of County Commission of
Tyler requested a PROPOSED	WORK: Drill X / D Plug off old	rill Deeper formation	Deed Book at page 494. A permit is / Redrill / Fracture or stimulate / Perforate new formetion / well (specify)
Department of the Copies of the Sailed by reference or (s), and of the Department of	hey wish to make or a of Mines within fiftee his Permit Application eqistered mail or del coul lessees on or be timent of Mines at Cha	oal owner(s) re required en (15) days mand the en ivered by ha fore the day	work order on the reverse side hereof. , and coal lessee are hereby notified that among to make by Code \$22-4-3 must be filed with the after receipt of this Application by the Depolosed plat and reclamation plan have been not to the above named coal operator, coal owners of the mailing or delivery of this Applications to the above named coal operator.
PLEASE SUBM	LOGS DIRECTLY TO:		L&M Petroleum Co.
JEST VIDELM	IA OH AND GAG DIAM	7PP BAGG	Well Operator
TONGERVATION	IA OIL AND GAS BLANK F Commission	KET BOND _{By}	. (2. 1)
1 13 WASHING	, , ,	ву.	: Jaane Cagar
1944 E 1701.,	w. 25311	lts	
and a graph of the second	374/348-3092		Vice President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACT	OR (IF	KNOWN)							
	p	Address							
		***************************************		***					
GEOLOGICAL TARGET Estimated dept Approximate wa Approximate co Is coal being	h of co ter str al seam	ompleted ata dept depths:	well_ :hs: N/A	Fresh	fee , <u>N/A</u>	t. Rota feet; x /	ry _X / Cab salt,	le tool feet	
CASING AND TUBING	, BBOCDA			-			•	•	
CASING OR TUBING TYPE;		CIFICATI Weight			For Dril	- Left in	CEMENT FILL UP OR SACKS	PA	CKERS
Conductor 8 5/8	+	ipei it	X	Used	ling 250'	Well 250'	Cubic ft. To surface	Kinds	
Fresh water						2,10	To surface		
Coal Intermed.	-		 	 				Sizes	
Production : 4½"			X	-	4500'	4500'	450 sacks	Depths	cot
Tubing					1,000	4300	according to		36.6
Liners				<u> </u>			Rule 15.01	Perfora	ations:
}			 	+				Тор	Bottom
								-	
822-4-12b a required by 822-4-8a fr posed well. A separate	rectamend Regulation The Sorm IV. Form IV. Gring of the local Illing of the local Il	ation Pilation 2 22-4-12a owner of -2 shall r stimul d as such the shall have with this permit d by 5-1	an" a 3, (i 3, and any not ating h on HE WEL	pplica v) unl ! (v) i water be req is to the Fo L SITE er 22,	tess previous for application of the part	he reclame iously parable, the welling was fractural of the world and the welling was as fractural of the welling was a fractural or which was a fractural or w	llowed by Coo ation require id on the san consent requ rithin 200 fe ing or stimul ork for which connection th	ed by Co ne well, vired by set of a	ode the fee Code the pro-
is to be iss	see wno sued wi	nas rec thin fif	orded teen	a dec (15) d W A I	laration lays of re V E R	under Cod eccipt the		if the	permit
The undersigned collocation has examinated of the well lesigned has no object well operator has the governing regularity.	ned thincation to complie	s propos , the we o the wo d with a	ed we 11 lo rk pr	ll loc cation oposed	ation. Thas been I to be do	If a mine n added to one at th	map exists we the mine makes location	which co ap. The	overs the e under-
Date:	, 19	Orași de la constantina del constantina de la co							
			•	Ву	/:				
				lts					