



IV-35 (Rev 8-81)



OIL & GAS DIVISION State of Mest Hirginia
DEPT. OF MINES Bepartment of Allines

Bil und Gas Bivision

Date 1/8/85 Operator's Well No. 2						
	•		chard	son	Heirs	
API No	47		085		5947	

WELL OPERATOR'S REPORT

			~-			
			STIMULATING,	\cap D	DHVSTCAL.	CHANGE
	TAY		STITMIN AT LING	Or.	FILLSTOWN	<u></u>
DOTT T.TNC.	FRACTURLING	YIM) OK	ULI WILL -			

WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Underground	/ Waste nd Storage	Disposal / Deep	/ / Shal	.low/)
LOCATION: Elevation: 825' Watershed 0il	Spring			
District: Grant County Ritchi	ie C	wadrangle	Petroleu	m 7.5
COMPANY Chaq Oil Company				,
ADDRESS 3030 Maxroy St., Houston, TX 77008	Caging	Used in	Left	Cement fill up
DESIGNATED AGENT Robert W. Burk	Tubing	Drilling	in Well	Cu. ft.
Commercial Banking & Trust Bldg. ADDRESS Parkersburg, WV 26101	Size			
SURFACE OWNER W. B. Richardson Heirs	20-16 Cond.			
ADDRESS Parkersburg, WV	13-10"	44,	ት ተ	
MINERAL RIGHTS OWNER W. B. Richardson Heirs	9 5/8			
ADDRESS Parkersburg, WV	8 5/8	664'	664'	190 sks
OIL AND GAS INSPECTOR FOR THIS WORK Samuel	7			
Hersman ADDRESSP.O.Box 66, Smithville, WV	5 1/2			1
PERMIT ISSUED 10-14-82	4 1/2	3874'	3874'	490 sks
DRILLING COMMENCED 11-5-82	3		 	
DRILLING COMPLETED 11-12-82	2		3514'	+
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Shale		De	pt h 3871	<u>'</u> feet
Depth of completed well 3874' feet	Rotary X	/ Cab	le T∞ls_	
Water strata depth: Fresh 790' feet;	Salt	fee	t	
Coal seam depths: NA	_ Is coal	L being mi	ned in th	ne area? NO
· · · · · · · · · · · · · · · · · · ·				Mary Mary
Producing formation Harrell, Brallier-Che	mung Pa	ay zone de	pth 1910	<u>'-3777'</u> feet
see Tribial open flow 850 Mcf/d	Oil: I	nitial ope	SU LIOM	NA BDI/G
Final open flow (15) Mcf/d	F	inal open	flow	NA Bbl/d
mim of open flow between ini	tial and	final test	ts <u>48</u>	nours
Static rock pressure 950 psig(surfa	ice measur	ement) af	ter <u>168</u> h	ours shut in
(If applicable due to multiple completion	on)			
second producing formation NA	F	ay zone d		
Cas: Initial open flow Mcf/d	Oil: 1	initial op	en riow	Bb1/d
Final open flowMcf/d	Oil: I	final open	I IIOW	
Time of open flow between in	itial and	rinal tes		hours 1985 hours shut in
Static rock pressurepsig(surfa	ce measur	ement) alt	<u></u>	المد عمانين ميران،

FOF: IV-35 (PE EPSE)

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

Perforations: 1st Stage - 28 holes - 3476' to 3777'- Quy Java > Chinestreet.

2nd Stage - 25 holes - 2543' to 3154' Hurron 3rd Stage - 30 holes - 1910' to 2311' Hurron

Foam Fracs:

lst Stage - Harrell

2nd Stage - Chemung-Brallier 3rd Stage - Chemung

Frac Wi 15,000# 80/100; 150,000# 20/40 in 991,000 SCF N_2 and 705 bbls

for the second

sand laden water.

Refrac:

7/22/83 1 MMCF Nitrogen and 3750 gallons Methanol

WELL LOG

		·	REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
Not available Silt Shale Salt sand Shale Sand	0 47 60 75 188 212 400	47 60 75 188 212 400 685	Oil @ 70'±
Silty Shale Wells Stray Silt and Shale Coffee Shale Berea Silt and Silty Shale Gordon	685 693 771 777 783 891	693 771 777 783 891 909	Oil & Gas @780' Hole wet @ 790'
Shale And Silty Shale Fourth Sand Silt and Shale Fifth Sand Silt and Silty Shale Shale and Silty Shale Riley Shale and Silty Shale Benson Shale	909 991 1076 1103 1115 1270 2051 2214 2484	991 1076 1103 1115 1270 2051 2214 2484 2512 2696	Gas chk. @ 1100' - No show
Alexander Shale Brown Shale Shale	2696 2794 2940 2967 3618	2794 2940 2967 3618 3784	Gas chk. @ 2728' - No show Gas chk. @ 3271' - No show Gas chk. @ 3519' - 1.5 MCF
Brown Shale Shale Limey Shale	3784 3815	3815 3904 Phinestree	TD Gas chk. @ TD - N.E.G.
		مل اسا	3904 325 3079 22 309

(Attach separate sheets as necessary)

Chaq Oil Company

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 coal, encountered in the drilling of a well."



		8	DE			WEST VIRG	GINIA	Well No. 47 State	County Pe
							D GAS DIVISION)N	
4									
4) WELL TYPE:	B (If "	'Gas'', Pro	duction _		/ Unde			/ Deep	
5) LOCATION:									A CONTRACTOR OF THE SECOND
6) WELL OPER								AGENT	
Address			17 6				Address	t som	
7) OIL & GAS						•			
ROYALTY O	WNER _	No. 10 April 1			•	12)	COAL OPERA Address	TOR	
						36	Audicss		
Acreage	WAIED		-10) 	1(C) 5	$\overline{H/\Lambda}$	1 13)			ATION ON RECORD:
8) SURFACE OV Address	WNEK		11/2	<u> </u>		3)))	Name		
			7777	0CT 0	5 198 2		- 1441 000		
Acreage		F) T0		001 0					
9) FIELD SALE Address	(IF MAD	E) TO:		-u o ca	S DIVISION	ON	Address		
10) OIL & GAS I	NSDECTO	D TO DE	NODE	PT. C	JF MII	NE3		WITH DECLARATI	
Name							Address		
Address		* 3.471 * 3.471	er û i Gerênê bi bi						
15) PROPOSED	-					6 . 7 D-4-21		ture or stimulate	
is) FROFOSED	WORK.						v formation		
(6) GEOLOGICA	AL TARGE	T FORMA	ATION, _						
17) Estimated	depth of c	ompleted v	well,	· · · · · · · · · · · · · · · · · · ·		feet			
18) Approxim						-	lt,		
						Is coal b	eing mined in the	area? Yes	/ No
20) CASING ANI	n IORING				* al				
CASING OR TUBING TYPE	Size	Grade	ECIFICATION Weight per ft.	VS Used	d For	FOOTAGE I	NTERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water			<u> </u>	ļ			· 1.000		
Coal Intermediate							(g u f s	Light Control	Sizes
Production	1 1 A	1		-		No. 100	14.15.	1876 .27.3.	Depths set
								1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Tubing	<u> </u>		1						11
		<u> </u>	1	, ,				11	Perforations:
Tubing									Perforations: Top Botton
Tubing									1
Tubing Liners	N RIGHTS	3							1
Tubing Liners 21) EXTRACTION Check and pro-	ovide one o	of the follo	_						Top Botton
Tubing Liners 21) EXTRACTION Check and pro	ovide one o d is the lea	of the follouse or lease	es or other					e right to extract oil or	Top Botton
Tubing Liners 21) EXTRACTIO Check and pro Include The req	ovide one o d is the lea juirement o	of the follouse or lease of Code 22	es or other			contracts by		e right to extract oil or	Top Botton
Tubing Liners 21) EXTRACTION Check and pro Included The req 22) ROYALTY PI Is the right to e	ovide one of d is the lea juirement of ROVISION extract, pro	of the follouse or lease of Code 22 NS oduce or ma	es or other 2-4-1-(c) (1) arket the o	through (4)). (See reve	erse side for state or other of	specifics.) continuing contra	ct or contracts providing	gas.
Tubing Liners 21) EXTRACTION Check and pro Included The req 22) ROYALTY PI Is the right to esimilar provisi	ovide one of d is the least quirement of ROVISION extract, pro- on for con-	of the follouse or lease of Code 22 NS oduce or managements of the code of the	es or other 2-4-1-(c) (1) arket the on	through (4)). (See reve	erse side for state or other of	specifics.) continuing contra	ct or contracts providing	Top Botton
Tubing Liners 21) EXTRACTION Check and pro Included The req 22) ROYALTY Pl Is the right to esimilar provisis produced or m	ovide one of d is the lead to	of the follouse or lease of Code 22 NS oduce or manpensation	es or other 2-4-1-(c) (1) arket the ou to the ow No	through (4)). (See reve ed upon a le oil or gas in	erse side for sease or other on place which	specifics.) continuing contra 1 is not inherentl	ct or contracts providir y related to the volum	gas.
Tubing Liners 21) EXTRACTION Check and pro Included The req 22) ROYALTY PI Is the right to e similar provisi produced or m If the answer above 23) Required Copi	ovide one of d is the lea quirement of ROVISION extract, pro- on for con- narketed? e is No, no- ies (See rev	of the follows or lease of Code 22 NS oduce or manpensation Yes thing additionerse side.)	es or other 2-4-1-(c) (1) arket the out to the own No itional is not	il or gas bas oner of the ceeded. If the	ed upon a le oil or gas in e answer is	erse side for state or other on place which	specifics.) continuing contra i is not inherently y use Affidavit F	ct or contracts providir y related to the volum form IV-60.	gas. ng for flat well royalty of e of oil or gas so extra
Tubing Liners 21) EXTRACTION Check and proceed of the answer above 23) Required Copies of this named coal or	ovide one of d is the lea quirement of ROVISION extract, pro on for connarketed? e is No, no ies (See rev Permit Apperator, coo	of the follouse or lease of Code 22 NS oduce or manpensation Yes bothing additions and owner(s)	es or other 2-4-1-(c) (1) arket the or to the ow No itional is not and the end and coal	il or gas bassoner of the ceeded. If the	ed upon a le oil or gas in e answer is and reclama	ease or other of place which Yes, you mation plan have	specifics.) continuing contra i is not inherently y use Affidavit F ve been mailed b	ct or contracts providing related to the volume form IV-60.	gas.
Tubing Liners 21) EXTRACTIO Check and pro Include The req 22) ROYALTY Pl Is the right to e similar provisi produced or m If the answer above 23) Required Copi Copies of this named coal or Mines at Char	ovide one of d is the lea quirement of ROVISION extract, pro on for con narketed? e is No, no ies (See rev Permit Ar perator, co- cleston, We	of the follouse or lease of Code 22 NS oduce or manpensation Yes othing addiverse side.) oplication a allowner(s) est Virginia	arket the on the own No it is not the end and the end, and coal at.	il or gas base oner of the or eeded. If the closed plat a lessee on o	ed upon a le oil or gas in e answer is and reclama or before the	erse side for sease or other of place which Yes, you mation plan have day of the research	specifics.) continuing contra i is not inherentl y use Affidavit F we been mailed b mailing or deliver	oct or contracts providing related to the volume form IV-60. To registered mail or delegy of this Permit Appli	gas. ng for flat well royalty of e of oil or gas so extra
Liners Linelude Linelude Linereq Linelude Li	ovide one of d is the lea quirement of ROVISION extract, pro on for con narketed? e is No, no ies (See rev Permit Ap perator, co- cleston, We	of the follouse or lease of Code 22 NS oduce or manpensation Yes othing addiverse side.) oplication a allowner(s) est Virginia	arket the on the own No it is not the end and the end, and coal at.	il or gas bassoner of the ceeded. If the	ed upon a le oil or gas in e answer is and reclama or before the	erse side for sease or other of place which Yes, you mation plan have day of the research	specifics.) continuing contra i is not inherentl y use Affidavit F we been mailed b mailing or deliver Signed:	oct or contracts providing related to the volume form IV-60. To registered mail or delease of this Permit Appli	gas. ng for flat well royalty of e of oil or gas so extra
Liners Line and proceed of more and procedured of more and procedured Copies of this named coal of Mines at Char	ovide one of d is the lea quirement of ROVISION extract, pro on for con narketed? e is No, no ies (See rev Permit Ap perator, co- cleston, We	of the follouse or lease of Code 22 NS oduce or manpensation Yes othing addiverse side.) oplication a allowner(s) est Virginia	arket the on the own No it is not the end and the end, and coal at.	il or gas base oner of the or eeded. If the closed plat a lessee on o	ed upon a le oil or gas in e answer is and reclama or before the	erse side for sease or other on place which Yes, you mand the idea of the idea	specifics.) continuing contra is not inherentl y use Affidavit F ve been mailed b mailing or deliver Signed: Its:	oct or contracts providing related to the volume form IV-60. To registered mail or delegy of this Permit Appli	gas. ng for flat well royalty of e of oil or gas so extra
Tubing Liners 21) EXTRACTIO Check and pro Includee The req 22) ROYALTY PI Is the right to e similar provisi produced or m If the answer above 23) Required Copie Copies of this named coal or Mines at Char Notary: My Commission	ovide one of d is the lead quirement of ROVISION extract, proof on for comparketed? e is No, no less (See revenit Apperator, cooleston, Wester of Expires	of the foliouse or lease of Code 22 NS oduce or monpensation Yes othing additiverse side.) oplication a all owner(s) est Virginia	es or other 2-4-1-(c) (1) arket the or to the ow No itional is not and the end, and coal a.	il or gas base oner of the or eeded. If the closed plat a lessee on o	ed upon a le oil or gas in e answer is and reclama or before the	erse side for sease or other on place which Yes, you man tion plan has day of the research	continuing contra continuing contra n is not inherentl y use Affidavit F we been mailed b mailing or deliver Signed:	oct or contracts providing related to the volume form IV-60. To registered mail or delease of this Permit Appli	gas. ng for flat well royalty of e of oil or gas so extra
Tubing Liners 21) EXTRACTIO Check and pro Includee The req 22) ROYALTY PI Is the right to e similar provisi produced or m If the answer above 23) Required Copie Copies of this named coal or Mines at Char Notary: My Commission	ovide one of d is the lea quirement of ROVISION extract, pro on for con narketed? e is No, no ies (See rev Permit Ap perator, co- cleston, We	of the foliouse or lease of Code 22 NS oduce or monpensation Yes othing additiverse side.) oplication a all owner(s) est Virginia	es or other 2-4-1-(c) (1) arket the or to the ow No itional is not and the end, and coal a.	il or gas base oner of the or eeded. If the closed plat a lessee on o	ed upon a le oil or gas in e answer is and reclama or before the	erse side for sease or other on place which Yes, you mand the idea of the idea	continuing contra continuing contra n is not inherentl y use Affidavit F we been mailed b mailing or deliver Signed:	oct or contracts providing related to the volume form IV-60. To registered mail or delease of this Permit Appli	gas. ng for flat well royalty of e of oil or gas so extra
Tubing Liners 21) EXTRACTIO Check and pro Include The req 22) ROYALTY Pl Is the right to e similar provisi produced or m If the answer above 23) Required Copi 24) Copies of this named coal op Mines at Char Notary: My Commission	ovide one of d is the lead quirement of ROVISION extract, proon for comparketed? e is No, no dies (See rev. Permit Apperator, cooleston, Western Expires	of the follouse or lease of Code 22 NS oduce or manpensation Yes othing additions allowner(s) est Virginia	arket the own to the own of the own own of the own own of the own	il or gas bassoner of the deeded. If the closed plat a lessee on o	ed upon a le oil or gas in e answer is and reclama or before the OFFICE DRILLI	erse side for sease or other of place which Yes, you mand the plan has a day of the plan	continuing contraints not inherently use Affidavit F we been mailed by mailing or deliver Signed: Its: ILY MIT	ct or contracts providing related to the volume form IV-60. The providing registered mail or delay of this Permit Appliance of the providing Permit Appliance of the Permit Appliance of the providing Permit App	gas. ng for flat well royalty of e of oil or gas so extra

proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		unless d	rilling is commenced prior to that date and prosecuted with due diligence.
Bond:	Agent:	Plat:	Casing	Fee	
İ		1.			Administrator, Office of Oil and Gas