

Before 6/5/27 ..... New Location Drill Deeper .... Redrill Abandonment ...

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION

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Company CITIES SERVICE OIL COMPANY
Manners Box 873 CHARLESTON, HILLA.
Form DORA CAVENDER ETAL COMSOL
Tract 107-/ Acres 96.75 Lease No.WU-239
Well (Farm) No. 8-/ Serial No. GW-1642
Elevation (Spirit Level)
Quadrangie CHRELESTON / NE
County Klasiasitia District Elde
Engineer Would & Worte
Engineer's Registration No. 2//3
File No Drawing No. W.S.GA

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

WELL LOCATION MAP FILE NO. 180-2308

- + Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line. of original tracing.

Deep Well ewburg)



## STATE OF WEST VIRGINIA DE

PAR	RTMEN	IT OF	MINES
OIL	AND G	AS DIV	ISION 4

Rotary	$\mathbf{x}$
Spudder	
Cable Tools	
Storage	

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WELL RECORD

mpany Cities Service Oil Company dress Box 873, Charleston, W. Va. 25323  rm Dora Cavender, et al Cons. Acres 96.75 cation (waters) Coopers Creek ell No. "B" #1, GW-1642 ell No. "B" #1, GW-1642 estrict EIk county Kanawha e surface of tract is owned in fee by Emma Jones, et ux Box 349-A Address Clendenin, W. Va. estrict Fights are owned by Va. J. Harrison, et al 224 Milam St. Address New Orleans, La 224 Milam St. Address New Orleans, La 225 Milam St. Address New Orleans, La 226 Milam St. Address New Orleans, La 227 Milam St. Address New Orleans, La 228 Milam St. Address New Orleans, La 229 Milam St. Address New Orleans, La 23/8" 4. 7# 5806! Ett ShotBot shot From To Liners Used W Cage on bottom Perf. top. Perf. top. Perf. top.  Attach copy of cementing record.  CASING CEMENTED. SIZE No. Ft. Amount of cement used (bags) Name of Service Co. see reverse side.  COAL WAS ENCOUNTERED AT none FEET.  ELL ACIDIZED (DETAILS).  Date of Service Co. see reverse side.  COAL WAS ENCOUNTERED AT none FEET.  FEET.  INCHES.  FEET.	
cation (waters) Coopers Creek  ell No. "B" #1, GW-1642   Elev. 932. 861   133/8"48# 901 901 none  strict EIk   County Kanawha   10   Size of    Box 349-A   Address Clendenin, W. Va.    Box 349-A   Address Clendenin, W. Va.    Box 349-A   Address New Orleans   La    If further add contact C. S. Oil Co)    Illing commenced 10-18-68   C. S. Oil Co)    Illing completed 10-29-68   23/8" 4.7# 5806! 5806! Perf. bottom    Inch   Attach copy of cementing record.    CASING CEMENTED   SIZE   No. Ft.    Amount of cement used (bags)    Name of Service Co. see reverse side    bbls. 1st 24 hrs.   COAL WAS ENCOUNTERED AT none FEET	
ell No. "B" #1, GW-1642   Elev 932.86"   133/8"48#   90"   90"   none  strict EIk   County Kanawha   10   Size of    Box 349-A   Address Clendenin, W. Va.   6%   5-1/2"   17#   5765   5765"    24 Milam St.   Address New Orleans, La   21   21   23/8"   4½    Illing commerced 10-18-68   23/8" 4.7 # 5806"   5806"   Perf. top    It ShotEot shot From   To   Liners Used W   Cage on bottom   Perf. top    Ith   CASING CEMENTED   SIZE   No. Ft.    Amount of cement used (bags)   Name of Service Co.see reverse side    bbls. 1st 24 hrs.   COAL WAS ENCOUNTERED AT none   FEET	
ell No. "B" #1, GW-1642   Elev 932.86!   133/8"48#   90!   90!   none  strict EIk   County Kanawha   10   Size of    e surface of tract is owned in fee by Emma Jones, et ux   Box 349-A   Address Clendenin, W. Va.    neral rights are owned by Va. J. Harrison, et al   224 Milam St.   Address New Orleans, La    24 Milam St.   Address New Orleans, La   4½    10   17# 5765   5765!    24 Milam St.   Address New Orleans, La    25 Miling commenced 10-18-68   S. Oil Co)   3    10   10   10   10    11   10   10    12   1927!   1927!    13   1927!   1927!    14   5765   5765!    15   5765!   10    16   5806!   Perf. top    17   5806!   5806!   Perf. bottom    18   10   Size of    19   10   10    10   10   10    10   10	
strict EIk County Kanawha e surface of tract is owned in fee by Emma Jones, et ux Box 349-A Address Clendenin, W. Va.  heral rights are owned by Va. J. Harrison, et al  224 Milam St. Address New Orleans, La  23 Milam St. Address New Orleans, La  24 Milam St. Address New Orleans, La  25 J/2" 17# 5765 5765  26 Perf. top.  27 Joints Water in Inch  Attach copy of cementing record.  CASING CEMENTED SIZE No. Ft.  Amount of cement used (bags)  Name of Service Co. see reverse side  bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT none. FEET	
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Box 349-A Address Clendenin, W. Va.  neral rights are owned by Va. J. Harrison, et al  24 Milam St. Address New Orleans, La  25 Turther add contact C. S. Oil Co)  3 Perf. top.  23/8" 4.7# 5806 5806 Perf. bottom  the ShotBot shot From To Liners Used W Cage on bottom Perf. top.  23/8" 4.7# 5806 Service Co. Size No. Ft.  Attach copy of cementing record.  CASING CEMENTED SIZE No. Ft.  Amount of cement used (bags)  Name of Service Co. see reverse side  bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT none FEET.	
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FEET INCHES FEET	
ELL FRACTURED (DETAILS) see reverse side	IIVCITE
	renter form minimum is not in them.
SULT AFTER TREATMENT (Initial open Flow or bbls.) (53,000 MCF) (Newburg) Cal. Absolute O. F. 53 6	AO AO
OCK PRESSURE AFTER TREATMENT 2, 268# HOURS 42	
esh Water 651 Past	

Formation Color	Hard or	PPM	**************************************	Oil, Gas		
and the second section of the second	Soft	Тор	Bottom	or Water	Depth	Remarks
Soil		0.41	10		F == 8	
idstone	- Carried Control of C	10	100	F. water	651	
id and Shale	And the second s	100	915			
đ	and the second s	915	1620	S. water	1115	
Lime		1620	1770			·
d and Shale		1770	1927			
Ie		1927	4910			
ne		4910	5000	5000	560	
skany Sand		5000	5060	Somm.	933	
ne & Dolomite	:	5060	5800			
wburg Sand		5800	5802	Z00	4867	÷.
ne & Dolomite	McKenzie	5807	5840	0,50		
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tal depth	NOW THE THE RES AND SOR THE SHE HAS AND SOR OF	a depth cook which their state state cook .	5840' Dr	illes Meas.		
			= 5835° Sc	hlumberger	meas.	
	and implementation of the state		;			
ectric logs showed:						
				318	1920275	
wburg Sand		5793	5812	18/11.		
would be be			•	1 12	1000	
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	g samples.	. 1800a				
					of Mines	Fig. 4
anna i i i la			23.41.21.2			

Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Casing Rec	ord				cateromicaroscicanoscicanos (micro de Marco de M	example of the control of the contro	«Extensión de Vivilla de
0-18-68	Set and	cemented 13	-3/8" 48# F	-40 B-grad	e casing at	99' with 100	sacks of
0-10-00	regular	cement with	4% calcium	chloride.	Cement circ	ulated to sur	face.
0-21-68	Set and	cemented 8-	5/8" 24# H	40 A-grade	casing at l	927° with 30	0 sacks
	Pozmix	with 2% cal	cium chlorie	de. Cement	circulated	o the surfac	e. Pumped
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 bbIs	s. gel with l	st circulati	on material	ahead of ce	ment. Float	at 1898'.
	Central	zers 1898',	1807', 1710	b', 1631 and	1544.		eru in eller Skriffen besør Ned Sølen i eller et blude
10-26-68	Running	5-1/2" cas	ng. Odor s	dur gas whil	e running ca	sing. Set ar	d cemented
•	5-1/2"	17# J-55 nev	casing at	5,765' with	119 sacks of	Pozmix and	33 sacks
	cealmer	t. Ran 130	of 5-1/2" otralizers 5	733° 5.60	p new casing	5.3731. 5.24	11 and 5, 1071.
	Valve a			, , , , , , , ,			Francisco III (1965) A Santia (1965) Barretta (1965) A Santia (1965)
5 we		ta jaar 1 too		Lo dustrio Los	e. a e. liya sasiirid		alema gra teur bases
10 70 60	D C-1-	V	La mananta ta	d Hormation	Dangity G	amma Rav	Caliper and
10-30-68	Induction	n Logs. Sch	lumberger	T. D. 5,835	Newburg :	and from el	ectric logs
		312'.) 6' of ne					
ing a southwards at 12			e de la composição de l			***	
ned ) cond		The state of the s	Anto de 1 la 1940	etwike Jaket I.		in the second	10 10 10 10 10 10 10 10 10 10 10 10 10 1
11-4-68	70 hour	S.I. pressu	re 2280 psi	. Pumped in	500 gallons	of mud acid	and 1,000
	gallons	regular 15%	acid. Disp	Iaced acid a	nd fraced No	wburg Sand	with 22,000#
	Z0-40 s	and in 18,50	D gallons ge	elled water.	Maximum t	reating pres	sure 5, 400#.
	Averag	e treating pr	essure 4, 3.	32#. AIK 15.	increased	to 5.400#. C	bls. total fluid pened tubing
	and dis	placed rema	ining frac fl	luid in casin	g and tubing	Started flo	wing back and
	welkid	cked off. Flo	wed 4 hour	s and shut in		A second	
11 (2. 12 (2.4 %))							
11-5-68	20 hour	S. I. pressu	re 2, 230#.	plowing we.	it to clean u	parter fract	uring.
11-6-68	Flowing	g 4 hours to	clean up.				And the second of
11-8-68	42 hour	shut in pre	ssure 2, 268	# deadweigh	t pressure.	Ran calcula	ed open flow odor of sulphur
	during	test. Kitaga	en 110w 18 5 wa test indic	ated 160 pa	rts per mill	ion or 9.8 g	rains per
	hundre	d This is t	he maximun	n the testing	equipment	dould indica	te.
		1.				-	Lander Brown Service
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Date November 19	, 19 68
APPROVED Cities Service Oil Company	, Owner
By L. D. Todd, District Sup!t (Title)	