

21-258-5E

COMPANY CITIES SERVICE OIL COMPANY
WELL CHESNEY-HEGBERG NO. 214

FOR THE INTERVAL 80. TO 700.

SDEP=	80.00	EDEP=	700.00	GRIN=	40.00	GRAX=	105.00
DSH =	2.65	NSH =	30.00	A =	0.62	M =	2.15
RI =	0.10	RSH =	5.00	SIRR=	40.00	BFT =	80.00
CALD=	9.00	GCUR=	2.00	DF =	1.00	DG =	2.65
NF =	100.00	LCOR=	-4.00	TF =	189.00	TM =	55.50
TSH =	100.00	CP =	1.00	SHCT=	40.00	SHDF=	0.
SSP =	24.00	PRNT=	1.00	PMAX=	30.00	SRHM=	0.50
N =	2.00	RMF =	0.06	GRAD=	1.00	SWOP=	3.00
CALM=	15.00	BITS=	7.87				

77M.0

CITIES SERVICE OIL COMPANY
CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSIITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
80.0	0	100	.1	1.0	36	0.00	0.00
81.0	0	100	.1	1.0	40	0.00	0.00
82.0	0	100	.1	1.0	42	0.00	0.00
83.0	0	100	.1	1.0	40	0.00	0.00
84.0	0	100	.1	1.0	48	0.00	0.00
97.0	0	100	.3	1.0	50	.08	0.00
98.0	0	100	.1	1.0	27	.09	0.00
99.0	0	100	.1	1.0	21	.09	0.00
100.0	0	100	.1	1.0	22	.09	0.00
101.0	0	100	.4	1.0	28	.09	0.00
102.0	0	100	.3	1.0	38	.10	0.00
108.0	0	100	.1	1.0	50	.10	0.00
112.0	0	100	.1	1.0	49	.11	0.00
113.0	0	100	.1	1.0	47	.11	0.00
114.0	0	100	.1	1.0	47	.11	0.00
115.0	0	100	.1	1.0	44	.11	0.00
116.0	0	100	.1	1.0	44	.11	0.00
117.0	0	100	.1	1.0	39	.11	0.00
118.0	0	100	.1	1.0	41	.11	0.00
119.0	0	100	6.8	1.0	48	.16	0.00
126.0	0	100	.9	1.0	50	.42	0.00
127.0	0	100	.3	1.0	47	.43	0.00
128.0	0	100	2.4	1.0	41	.44	0.00
129.0	1	100	8.5	1.0	44	.53	0.00
130.0	1	100	7.7	1.0	46	.61	0.00
131.0	0	100	4.9	1.0	40	.67	0.00
132.0	0	100	.1	1.0	30	.67	0.00
133.0	0	100	.5	1.0	22	.68	0.00
134.0	0	100	1.1	1.0	32	.69	0.00
135.0	0	100	1.2	1.0	39	.70	0.00
136.0	0	100	2.4	1.0	32	.72	0.00
137.0	0	100	1.8	1.0	28	.74	0.00
138.0	0	100	.1	1.0	26	.74	0.00
139.0	0	100	.1	1.0	24	.74	0.00
140.0	0	100	.1	1.0	29	.75	0.00
141.0	0	100	.1	1.0	43	.75	0.00
142.0	0	100	.1	1.0	46	.75	0.00
143.0	0	100	.1	1.0	35	.75	0.00
144.0	0	100	.1	1.0	34	.75	0.00
145.0	0	100	.1	1.0	34	.75	0.00
146.0	0	100	.1	1.0	32	.75	0.00
147.0	0	100	1.1	1.0	29	.76	0.00
148.0	0	100	5.1	1.0	38	.80	0.00
149.0	0	100	6.6	1.0	39	.87	0.00
150.0	1	100	7.8	1.0	24	.94	0.00
151.0	1	100	8.3	1.0	20	1.02	0.00

STOCK FORM NO. 81411-20

G.W.L.L

CITIES SERVICE OIL COMPANY
 CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
152.0	3	100	10.9	1.0	20	1.13	0.00
153.0	3	100	10.9	1.0	20	1.24	0.00
154.0	3	100	11.1	1.0	19	1.35	0.00
155.0	4	100	11.2	1.0	18	1.46	0.00
156.0	3	100	11.0	1.0	18	1.57	0.00
157.0	3	100	10.6	1.0	20	1.68	0.00
158.0	4	100	11.2	1.0	18	1.79	0.00
159.0	4	100	11.3	1.0	17	1.90	0.00
160.0	1	100	7.2	1.0	18	1.98	0.00
161.0	0	100	3.2	1.0	17	2.02	0.00
162.0	0	100	1.8	1.0	18	2.04	0.00
163.0	0	100	.1	1.0	25	2.05	0.00
164.0	0	100	.1	1.0	32	2.05	0.00
165.0	0	100	.1	1.0	27	2.05	0.00
166.0	0	100	.1	1.0	21	2.05	0.00
167.0	0	100	.1	1.0	28	2.05	0.00
168.0	0	100	.1	1.0	38	2.05	0.00
169.0	0	100	.1	1.0	47	2.05	0.00
170.0	0	100	.1	1.0	47	2.05	0.00
171.0	0	100	.1	1.0	46	2.05	0.00
176.0	0	100	3.7	1.0	49	2.17	0.00
177.0	0	100	3.8	1.0	47	2.21	0.00
178.0	0	100	3.8	1.0	46	2.25	0.00
179.0	0	100	6.3	1.0	44	2.30	0.00
180.0	1	100	9.1	1.0	40	2.39	0.00
181.0	2	100	9.8	1.0	36	2.48	0.00
182.0	2	100	10.3	1.0	31	2.59	0.00
183.0	4	100	11.4	1.0	23	2.70	0.00
184.0	0	100	.1	1.0	25	2.73	0.00
185.0	0	100	.1	1.0	22	2.73	0.00
186.0	0	100	.1	1.0	19	2.74	0.00
187.0	0	100	.1	1.0	21	2.74	0.00
188.0	0	100	.1	1.0	21	2.74	0.00
189.0	0	100	.1	1.0	25	2.74	0.00
190.0	0	100	.1	1.0	32	2.74	0.00
191.0	0	100	.1	1.0	41	2.74	0.00
194.0	0	100	1.3	1.0	44	2.75	0.00
195.0	0	100	.9	1.0	42	2.77	0.00
196.0	0	100	.1	1.0	45	2.77	0.00
197.0	0	100	.1	1.0	41	2.77	0.00
198.0	0	100	.1	1.0	35	2.77	0.00
199.0	0	100	.1	1.0	35	2.77	0.00
200.0	0	100	.1	1.0	30	2.77	0.00
201.0	0	100	.1	1.0	28	2.77	0.00
202.0	0	100	.1	1.0	26	2.77	0.00
203.0	0	100	.1	1.0	26	2.77	0.00
204.0	0	100	.1	1.0	29	2.78	0.00
205.0	0	100	.2	1.0	37	2.78	0.00

OWLL

CITIES SERVICE OIL COMPANY
 CHESNEY HECBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
214.0	0	100	2.1	1.0	42	2.92	0.00
215.0	0	100	.9	1.0	36	2.92	0.00
216.0	0	100	2.5	1.0	32	2.95	0.00
217.0	0	100	.1	1.0	30	2.96	0.00
218.0	0	100	.1	1.0	29	2.96	0.00
219.0	0	100	.1	1.0	24	2.96	0.00
220.0	0	100	.1	1.0	24	2.96	0.00
221.0	0	100	.1	1.0	32	2.96	0.00
222.0	0	100	.1	1.0	38	2.96	0.00
223.0	0	100	.1	1.0	36	2.96	0.00
224.0	0	100	.1	1.0	35	2.96	0.00
225.0	0	100	.1	1.0	37	2.96	0.00
229.0	0	100	.1	1.0	46	2.97	0.00
230.0	0	100	.1	1.0	46	2.97	0.00
232.0	0	100	.1	1.0	46	2.97	0.00
233.0	0	100	.1	1.0	45	2.97	0.00
234.0	0	100	.1	1.0	39	2.97	0.00
235.0	0	100	.1	1.0	31	2.97	0.00
236.0	0	100	.1	1.0	31	2.97	0.00
237.0	0	100	.1	1.0	29	2.98	0.00
238.0	0	100	.1	1.0	31	2.98	0.00
239.0	0	100	.1	1.0	40	2.98	0.00
255.0	0	100	.1	1.0	41	3.01	0.00
256.0	0	100	.1	1.0	34	3.01	0.00
257.0	0	100	.1	1.0	32	3.01	0.00
258.0	0	100	.1	1.0	42	3.01	0.00
259.0	0	100	.1	1.0	43	3.01	0.00
260.0	0	100	.1	1.0	50	3.01	0.00
265.0	0	100	2.3	1.0	48	3.05	0.00
266.0	0	100	1.7	1.0	42	3.07	0.00
267.0	0	100	.1	1.0	39	3.08	0.00
268.0	0	100	.1	1.0	31	3.08	0.00
269.0	0	100	.1	1.0	25	3.08	0.00
270.0	0	100	.1	1.0	27	3.08	0.00
271.0	0	100	.1	1.0	36	3.08	0.00
277.0	0	100	.1	1.0	48	3.09	0.00
278.0	0	100	.1	1.0	47	3.09	0.00
279.0	0	100	.1	1.0	39	3.09	0.00
280.0	0	100	.1	1.0	38	3.09	0.00
281.0	0	100	.1	1.0	41	3.09	0.00
282.0	0	100	.1	1.0	45	3.09	0.00
285.0	0	100	.1	1.0	42	3.10	0.00
286.0	0	100	.1	1.0	31	3.10	0.00
287.0	0	100	.1	1.0	24	3.10	0.00

O W L

CITIES SERVICE OIL COMPANY
CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
288.0	0	100	.1	1.0	22	3.10	0.00
289.0	0	100	.1	1.0	26	3.10	0.00
290.0	0	100	.1	1.0	32	3.10	0.00
291.0	0	100	.1	1.0	42	3.10	0.00
297.0	0	100	.1	1.0	50	3.11	0.00
298.0	0	100	.1	1.0	49	3.11	0.00
299.0	0	100	.1	1.0	47	3.11	0.00
300.0	0	100	.1	1.0	41	3.11	0.00
301.0	0	100	.1	1.0	37	3.11	0.00
302.0	0	100	.1	1.0	33	3.11	0.00
303.0	0	100	.1	1.0	29	3.11	0.00
304.0	0	100	.1	1.0	25	3.11	0.00
305.0	0	100	.2	1.0	23	3.12	0.00
306.0	0	100	.1	1.0	25	3.12	0.00
307.0	0	100	.1	1.0	26	3.12	0.00
308.0	0	100	.1	1.0	27	3.12	0.00
309.0	0	100	.1	1.0	26	3.12	0.00
310.0	0	100	2.8	1.0	26	3.13	0.00
311.0	3	100	10.9	1.0	29	3.25	0.00
312.0	1	100	7.9	1.0	41	3.33	0.00
313.0	0	100	.1	1.0	48	3.33	0.00
314.0	0	100	.1	1.0	41	3.33	0.00
315.0	0	100	.1	1.0	44	3.33	0.00
316.0	0	100	.1	1.0	49	3.33	0.00
323.0	0	100	2.5	1.0	43	3.35	0.00
324.0	1	100	8.5	1.0	41	3.44	0.00
325.0	1	100	7.9	1.0	42	3.52	0.00
326.0	1	100	8.1	1.0	32	3.60	0.00
327.0	0	100	.1	1.0	38	3.60	0.00
328.0	0	100	.1	1.0	28	3.60	0.00
329.0	0	100	.1	1.0	32	3.60	0.00
330.0	0	100	.1	1.0	34	3.60	0.00
331.0	0	100	.1	1.0	36	3.61	0.00
332.0	0	100	.1	1.0	31	3.61	0.00
333.0	0	100	.1	1.0	32	3.61	0.00
334.0	0	100	.1	1.0	32	3.61	0.00
335.0	0	100	.1	1.0	32	3.61	0.00
336.0	0	100	.1	1.0	31	3.61	0.00
337.0	0	100	.1	1.0	27	3.61	0.00
338.0	0	100	.1	1.0	31	3.61	0.00
339.0	0	100	.1	1.0	22	3.61	0.00
340.0	0	100	.1	1.0	21	3.61	0.00
341.0	0	100	.1	1.0	20	3.62	0.00
342.0	0	100	.1	1.0	20	3.62	0.00
343.0	0	100	.1	1.0	25	3.62	0.00
344.0	0	100	.1	1.0	31	3.62	0.00
345.0	0	100	.1	1.0	24	3.62	0.00
346.0	0	100	.1	1.0	24	3.62	0.00

D W L L

CITIES SERVICE OIL COMPANY
 CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
347.0	0	100	.1	1.0	30	3.62	0.00
348.0	0	100	.1	1.0	37	3.62	0.00
349.0	0	100	.1	1.0	47	3.62	0.00
355.0	0	100	3.3	1.0	38	3.82	0.00
356.0	0	100	4.2	1.0	28	3.86	0.00
357.0	0	100	1.8	1.0	27	3.89	0.00
358.0	0	100	.1	1.0	25	3.89	0.00
359.0	0	100	1.4	1.0	24	3.90	0.00
360.0	0	100	2.6	1.0	25	3.92	0.00
361.0	0	100	4.2	1.0	23	3.96	0.00
362.0	0	100	.1	1.0	28	3.97	0.00
363.0	0	100	.1	1.0	26	3.97	0.00
364.0	0	100	.1	1.0	24	3.97	0.00
365.0	0	100	.1	1.0	25	3.97	0.00
366.0	0	100	.1	1.0	42	3.97	0.00
377.0	0	100	1.2	1.0	40	4.07	0.00
378.0	0	100	.1	1.0	38	4.07	0.00
379.0	0	100	.1	1.0	33	4.07	0.00
380.0	0	100	.1	1.0	33	4.07	0.00
381.0	0	100	.1	1.0	34	4.07	0.00
382.0	0	100	.1	1.0	39	4.07	0.00
383.0	0	100	.1	1.0	43	4.07	0.00
384.0	0	100	.1	1.0	45	4.08	0.00
385.0	0	100	.1	1.0	48	4.08	0.00
389.0	0	100	.1	1.0	44	4.08	0.00
390.0	0	100	.1	1.0	45	4.08	0.00
391.0	0	100	.1	1.0	41	4.08	0.00
392.0	0	100	.1	1.0	36	4.08	0.00
393.0	0	100	.1	1.0	29	4.08	0.00
394.0	0	100	1.6	1.0	30	4.10	0.00
395.0	0	100	.1	1.0	41	4.10	0.00
396.0	0	100	.1	1.0	42	4.10	0.00
397.0	0	100	.1	1.0	37	4.10	0.00
398.0	0	100	.1	1.0	27	4.10	0.00
399.0	0	100	.1	1.0	25	4.10	0.00
400.0	0	100	.1	1.0	30	4.10	0.00
401.0	0	100	.1	1.0	26	4.10	0.00
402.0	0	100	.1	1.0	30	4.11	0.00
403.0	0	100	.1	1.0	38	4.11	0.00
404.0	0	100	.1	1.0	44	4.11	0.00
405.0	0	100	.1	1.0	31	4.11	0.00
406.0	0	100	.1	1.0	25	4.11	0.00
407.0	0	100	.1	1.0	21	4.11	0.00
408.0	0	100	.1	1.0	17	4.11	0.00
409.0	0	100	.1	1.0	17	4.11	0.00
410.0	0	100	.1	1.0	18	4.11	0.00
411.0	0	100	.1	1.0	21	4.11	0.00

0.00 LL

STOCK FORM NO. 61411-20

CITIES SERVICE OIL COMPANY
 CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
412.0	0	100	.1	1.0	22	4.12	0.00
413.0	0	100	.1	1.0	27	4.12	0.00
414.0	0	100	1.9	1.0	40	4.13	0.00
415.0	0	100	5.4	1.0	44	4.17	0.00
416.0	1	100	8.5	1.0	30	4.26	0.00
417.0	0	100	4.6	1.0	32	4.31	0.00
418.0	0	100	3.2	1.0	33	4.34	0.00
419.0	0	100	.1	1.0	41	4.34	0.00
420.0	0	100	.1	1.0	44	4.34	0.00
421.0	0	100	.1	1.0	42	4.34	0.00
422.0	0	100	.1	1.0	40	4.35	0.00
423.0	0	100	.1	1.0	38	4.35	0.00
424.0	0	100	.1	1.0	35	4.35	0.00
425.0	0	100	.1	1.0	33	4.35	0.00
426.0	0	100	.1	1.0	29	4.35	0.00
427.0	0	100	.1	1.0	30	4.35	0.00
428.0	0	100	.1	1.0	34	4.35	0.00
429.0	0	100	.1	1.0	35	4.35	0.00
430.0	0	100	.1	1.0	35	4.35	0.00
431.0	0	100	.1	1.0	30	4.35	0.00
432.0	0	100	.1	1.0	34	4.36	0.00
433.0	0	100	.1	1.0	39	4.36	0.00
434.0	0	100	.1	1.0	45	4.36	0.00
435.0	0	100	.1	1.0	44	4.36	0.00
436.0	0	100	.1	1.0	42	4.36	0.00
437.0	0	100	.1	1.0	41	4.36	0.00
438.0	0	100	.1	1.0	29	4.36	0.00
439.0	0	100	.1	1.0	23	4.36	0.00
440.0	0	100	4.4	1.0	24	4.39	0.00
441.0	3	100	11.0	1.0	23	4.49	0.00
442.0	2	100	10.4	1.0	25	4.59	0.00
443.0	0	100	6.5	1.0	27	4.67	0.00
444.0	0	100	1.8	1.0	30	4.70	0.00
445.0	0	100	.1	1.0	34	4.70	0.00
446.0	0	100	.1	1.0	37	4.70	0.00
447.0	0	100	.1	1.0	43	4.70	0.00
448.0	0	100	.1	1.0	41	4.70	0.00
449.0	0	100	.1	1.0	34	4.71	0.00
450.0	0	100	.1	1.0	38	4.71	0.00
451.0	0	100	.1	1.0	42	4.71	0.00
452.0	0	100	.1	1.0	42	4.71	0.00
453.0	0	100	.1	1.0	43	4.71	0.00
454.0	0	100	.1	1.0	42	4.71	0.00
455.0	0	100	.1	1.0	34	4.71	0.00
456.0	0	100	.1	1.0	32	4.71	0.00
457.0	0	100	.1	1.0	30	4.71	0.00
458.0	0	100	.1	1.0	30	4.71	0.00
459.0	0	100	.1	1.0	30	4.72	0.00
460.0	0	100	.1	1.0	37	4.72	0.00

OWLL

CITIES SERVICE OIL COMPANY
 CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POKOSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
464.0	0	100	.1	1.0	49	4.72	0.00
465.0	0	100	.1	1.0	40	4.72	0.00
466.0	0	100	.1	1.0	40	4.72	0.00
467.0	0	100	.1	1.0	41	4.72	0.00
468.0	0	100	.1	1.0	40	4.72	0.00
469.0	0	100	.1	1.0	42	4.73	0.00
470.0	0	100	.1	1.0	44	4.73	0.00
471.0	0	100	.1	1.0	42	4.73	0.00
472.0	0	100	.1	1.0	41	4.73	0.00
473.0	0	100	.1	1.0	40	4.73	0.00
474.0	0	100	.1	1.0	40	4.73	0.00
475.0	0	100	.1	1.0	31	4.73	0.00
476.0	0	100	.1	1.0	36	4.73	0.00
481.0	0	100	.1	1.0	49	4.74	0.00
482.0	0	100	.1	1.0	49	4.74	0.00
483.0	0	100	.1	1.0	38	4.74	0.00
484.0	0	100	.1	1.0	31	4.74	0.00
485.0	0	100	.1	1.0	43	4.74	0.00
489.0	0	100	.1	1.0	41	4.75	0.00
490.0	0	100	.1	1.0	31	4.75	0.00
491.0	0	100	.1	1.0	39	4.75	0.00
492.0	0	100	.1	1.0	34	4.75	0.00
493.0	0	100	.1	1.0	35	4.75	0.00
494.0	0	100	.1	1.0	48	4.75	0.00
496.0	0	100	.1	1.0	49	4.75	0.00
497.0	0	100	.1	1.0	42	4.75	0.00
498.0	0	100	.1	1.0	41	4.75	0.00
499.0	0	100	.1	1.0	42	4.75	0.00
500.0	0	100	.1	1.0	48	4.76	0.00
508.0	0	100	.1	1.0	45	4.76	0.00
509.0	0	100	.1	1.0	49	4.77	0.00
535.0	0	100	.1	1.0	46	4.86	0.00
566.0	0	100	.1	1.0	42	5.01	0.00
567.0	0	100	.1	1.0	44	5.01	0.00
576.0	0	100	.1	1.0	43	5.02	0.00
577.0	0	100	.1	1.0	35	5.02	0.00
578.0	0	100	.1	1.0	43	5.02	0.00
579.0	0	100	.1	1.0	48	5.02	0.00
580.0	0	100	.1	1.0	47	5.02	0.00
581.0	0	100	.1	1.0	46	5.02	0.00
582.0	0	100	.1	1.0	43	5.02	0.00
591.0	0	100	.1	1.0	50	5.12	0.00

O.W.L.L.

CITIES SERVICE OIL COMPANY
CHESNEY HECBERG UNIT MP NO. 214

DEPTH	PERM. INDEX MD	WATER SAT. %	POROSITY %	DENSITY HYDROCARBON GM/CC	CLAY %	CUM. POR. FEET	CUM. HYCARB FEET
599.0	0	100	.1	1.0	45	5.21	0.00
600.0	0	100	.1	1.0	37	5.22	0.00
601.0	0	100	.1	1.0	44	5.22	0.00
614.0	0	100	.1	1.0	50	5.23	0.00
615.0	0	100	.1	1.0	49	5.23	0.00
647.0	2	100	9.8	1.0	40	5.31	0.00
648.0	1	100	8.0	1.0	17	5.40	0.00
649.0	2	100	9.3	1.0	5	5.49	0.00
650.0	5	100	12.3	1.0	32	5.61	0.00
653.0	1	100	8.9	1.0	50	5.87	0.00
654.0	3	100	11.0	1.0	34	5.97	0.00
655.0	4	100	11.7	1.0	25	6.09	0.00
656.0	3	100	11.2	1.0	22	6.20	0.00
661.0	11	100	14.5	1.0	49	6.70	0.00
662.0	32	81	18.5	1.0	29	6.88	.03
663.0	32	81	18.5	1.0	18	7.07	.06
664.0	78	64	22.7	1.0	19	7.27	.12
665.0	163	54	26.8	1.0	15	7.53	.23
666.0	137	56	25.8	1.0	15	7.79	.35
667.0	150	56	26.3	1.0	16	8.05	.46
668.0	166	55	26.9	1.0	18	8.32	.58
669.0	177	56	27.3	1.0	12	8.59	.71
670.0	157	59	26.5	1.0	10	8.86	.82
671.0	112	65	24.6	1.0	19	9.11	.91
672.0	83	70	23.0	1.0	28	9.35	.99
673.0	8	100	13.4	1.0	48	9.51	1.00
694.0	0	100	0.0	1.0	42	10.55	1.00
695.0	0	100	0.0	1.0	30	10.56	1.00

STOCK FORM NO. 61411-20

O W L L

CITIES SERVICE OIL COMPANY
CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	GR	POR	RT	RXD	SXD	ROS	SW
600.0	45.3	.1	7.3	1.0	100.0	0.0	100.0
600.5	47.9	.1	7.7	1.6	100.0	0.0	100.0
601.0	51.7	.1	7.9	2.4	100.0	0.0	100.0
601.5	54.2	.1	7.6	2.8	100.0	0.0	100.0
602.0	55.4	.1	7.2	2.3	100.0	0.0	100.0
602.5	54.3	.1	6.8	2.0	100.0	0.0	100.0
603.0	54.0	.1	6.4	2.0	100.0	0.0	100.0
603.5	54.3	.1	6.1	2.2	100.0	0.0	100.0
604.0	54.8	.1	5.8	2.0	100.0	0.0	100.0
604.5	57.3	.1	5.5	1.7	100.0	0.0	100.0
605.0	61.1	.1	5.1	1.6	100.0	0.0	100.0
605.5	66.5	.1	4.8	1.7	100.0	0.0	100.0
606.0	70.4	.1	4.4	1.7	100.0	0.0	100.0
606.5	74.0	.1	4.1	1.7	100.0	0.0	100.0
607.0	77.4	.1	3.8	1.5	100.0	0.0	100.0
607.5	79.5	.1	3.6	1.4	100.0	0.0	100.0
608.0	81.6	.1	3.5	1.2	100.0	0.0	100.0
608.5	84.4	.1	3.4	1.2	100.0	0.0	100.0
609.0	85.7	.1	3.3	1.2	100.0	0.0	100.0
609.5	84.6	.1	3.3	1.3	100.0	0.0	100.0
610.0	83.4	.1	3.3	1.2	100.0	0.0	100.0
610.5	82.2	.1	3.3	1.1	100.0	0.0	100.0
611.0	81.7	.1	3.4	1.1	100.0	0.0	100.0
611.5	81.7	.1	3.7	1.1	100.0	0.0	100.0
612.0	80.2	.1	4.2	1.2	100.0	0.0	100.0
612.5	72.5	.1	4.6	1.7	100.0	0.0	100.0
613.0	65.8	.1	5.1	3.5	100.0	0.0	100.0
613.5	66.3	.1	5.4	8.7	100.0	0.0	100.0
614.0	56.8	.1	5.2	23.7	100.0	0.0	100.0
614.5	54.4	.1	4.8	16.7	100.0	0.0	100.0
615.0	60.7	.1	4.3	4.1	100.0	0.0	100.0
615.5	70.3	.1	3.9	1.4	100.0	0.0	100.0
616.0	75.9	.1	3.3	.9	100.0	0.0	100.0
616.5	92.0	0.0	2.9	.9	100.0	0.0	100.0
617.0	97.2	0.0	2.6	1.0	100.0	0.0	100.0
617.5	98.4	0.0	2.3	1.0	100.0	0.0	100.0
618.0	96.6	0.0	2.1	1.0	100.0	0.0	100.0
618.5	96.1	0.0	2.0	1.0	100.0	0.0	100.0
619.0	96.1	0.0	1.9	1.0	100.0	0.0	100.0
619.5	95.5	0.0	1.9	1.0	100.0	0.0	100.0
620.0	94.3	0.0	1.9	.9	100.0	0.0	100.0
620.5	93.8	0.0	1.9	.9	100.0	0.0	100.0
621.0	94.0	0.0	1.8	.8	100.0	0.0	100.0
621.5	92.8	0.0	1.8	.8	100.0	0.0	100.0
622.0	93.3	0.0	1.9	.8	100.0	0.0	100.0
622.5	92.2	0.0	1.9	.8	100.0	0.0	100.0
623.0	89.5	0.0	1.9	.9	100.0	0.0	100.0
623.5	86.0	.1	1.9	.9	100.0	0.0	100.0
624.0	84.2	.1	1.9	.9	100.0	0.0	100.0
624.5	81.5	.1	2.0	.9	100.0	0.0	100.0

O W L L

CITIES SERVICE OIL COMPANY
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DEPTH	GR	POR	RT	RXD	SXD	ROS	SW
625.0	81.2	.1	2.1	.8	100.0	0.0	100.0
625.5	78.8	.1	2.3	.8	100.0	0.0	100.0
626.0	75.1	.1	2.5	.8	100.0	0.0	100.0
626.5	70.3	.1	2.6	1.0	100.0	0.0	100.0
627.0	65.0	.1	2.8	1.1	100.0	0.0	100.0
627.5	60.9	.1	3.0	1.4	100.0	0.0	100.0
628.0	58.2	.1	3.1	1.7	100.0	0.0	100.0
628.5	57.3	.1	3.2	2.3	100.0	0.0	100.0
629.0	58.2	.1	3.3	1.3	100.0	0.0	100.0
629.5	60.5	.1	3.3	1.0	100.0	0.0	100.0
630.0	63.3	.1	3.3	1.0	100.0	0.0	100.0
630.5	66.2	.1	3.4	1.0	100.0	0.0	100.0
631.0	65.5	.1	3.6	1.0	100.0	0.0	100.0
631.5	64.9	.1	3.8	.9	100.0	0.0	100.0
632.0	60.7	.1	4.1	1.1	100.0	0.0	100.0
632.5	57.1	.1	4.5	3.5	100.0	0.0	100.0
633.0	55.5	.1	4.7	4.5	100.0	0.0	100.0
633.5	58.0	.1	5.2	2.8	100.0	0.0	100.0
634.0	68.8	.1	5.4	3.3	100.0	0.0	100.0
634.5	76.6	.1	5.5	2.2	100.0	0.0	100.0
635.0	81.1	.1	5.2	2.0	100.0	0.0	100.0
635.5	83.1	.1	4.8	2.2	100.0	0.0	100.0
636.0	84.0	.1	4.4	1.9	100.0	0.0	100.0
636.5	85.0	.1	4.1	1.6	100.0	0.0	100.0
637.0	85.9	.1	3.9	1.6	100.0	0.0	100.0
637.5	86.7	.1	3.8	1.6	100.0	0.0	100.0
638.0	85.1	.1	3.7	1.4	100.0	0.0	100.0
638.5	84.0	.1	3.6	1.4	100.0	0.0	100.0
639.0	82.6	.1	3.5	1.6	100.0	0.0	100.0
639.5	84.2	.1	3.5	1.6	100.0	0.0	100.0
640.0	87.0	0.0	3.4	1.4	100.0	0.0	100.0
640.5	89.8	0.0	3.3	1.5	100.0	0.0	100.0
641.0	91.8	0.0	3.2	1.5	100.0	0.0	100.0
641.5	92.8	0.0	3.1	1.5	100.0	0.0	100.0
642.0	92.8	0.0	2.9	1.4	100.0	0.0	100.0
642.5	95.6	0.0	2.8	1.4	100.0	0.0	100.0
643.0	97.0	0.0	2.7	1.3	100.0	0.0	100.0
643.5	97.0	0.0	2.7	1.3	100.0	0.0	100.0
644.0	98.6	0.0	2.5	1.2	100.0	0.0	100.0
644.5	105.6	0.0	2.4	1.0	100.0	0.0	100.0
645.0	111.4	0.0	2.4	.9	100.0	0.0	100.0
645.5	114.4	0.0	2.5	.9	100.0	0.0	100.0
646.0	108.4	0.0	2.9	1.0	100.0	0.0	100.0
646.5	98.7	3.4	3.2	1.0	100.0	0.0	100.0
647.0	81.7	9.8	3.4	1.1	100.0	0.0	100.0
647.5	72.2	9.3	3.5	1.6	100.0	0.0	100.0
648.0	64.8	8.0	3.7	3.2	100.0	0.0	100.0
648.5	57.6	6.4	3.8	4.1	100.0	0.0	100.0
649.0	51.9	9.3	3.9	4.0	100.0	0.0	100.0
649.5	57.8	11.1	4.0	3.4	100.0	0.0	100.0

OWLL

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DEPTH	GR	POR	RT	RXD	SXD	RCS	SW
650.0	74.1	12.3	4.0	1.6	100.0	0.0	100.0
650.5	83.3	10.5	3.8	1.2	100.0	0.0	100.0
651.0	86.6	9.6	3.5	1.1	100.0	0.0	100.0
651.5	89.3	8.1	3.3	1.1	100.0	0.0	100.0
652.0	90.5	7.2	3.1	1.1	100.0	0.0	100.0
652.5	89.1	7.7	3.1	1.1	100.0	0.0	100.0
653.0	85.5	8.9	3.2	1.1	100.0	0.0	100.0
653.5	82.4	9.8	3.4	1.1	100.0	0.0	100.0
654.0	78.0	11.0	3.6	1.1	100.0	0.0	100.0
654.5	73.1	12.0	3.7	1.2	100.0	0.0	100.0
655.0	70.9	11.7	3.7	1.3	100.0	0.0	100.0
655.5	69.3	11.4	3.8	2.3	100.0	0.0	100.0
656.0	71.2	11.2	3.8	3.2	100.0	0.0	100.0
30 → 656.5	79.5	11.2	3.8	1.4	100.0	0.0	100.0
657.0	84.3	11.5	3.8	1.2	100.0	0.0	100.0
657.5	91.3	8.8	3.7	1.2	100.0	0.0	100.0
658.0	96.6	5.9	3.6	1.2	100.0	0.0	100.0
658.5	94.6	7.2	3.4	1.2	100.0	0.0	100.0
659.0	92.8	8.4	3.3	1.2	100.0	0.0	100.0
659.5	91.0	9.5	3.3	1.3	100.0	0.0	100.0
660.0	88.7	10.9	3.3	1.3	100.0	0.0	100.0
660.5	85.7	12.7	3.4	1.3	100.0	0.0	100.0
661.0	82.3	14.5	3.5	1.3	100.0	0.0	100.0
661.5	77.1	17.0	3.6	1.4	89.9	10.1	89.9
662.0	70.5	18.5	3.7	1.6	81.0	19.0	81.0
662.5	66.7	18.5	3.7	2.5	81.0	19.0	81.0
663.0	63.0	18.5	3.8	3.8	80.7	19.3	80.7
7.1 → 663.5	62.5	18.7	3.8	3.0	79.5	20.5	79.5
664.0	63.9	22.7	3.8	2.0	70.8	29.2	64.5
664.5	62.5	24.7	3.8	1.9	65.3	34.7	58.8
665.0	61.4	26.8	3.8	1.9	59.6	40.4	53.9
665.5	60.8	26.4	3.8	1.9	60.4	39.6	54.8
666.0	63.4	25.8	3.8	2.0	61.4	38.6	56.1
666.5	64.6	25.4	3.8	2.1	61.4	38.6	57.1
667.0	64.5	26.3	3.7	2.0	59.3	40.7	55.6
667.5	62.5	27.2	3.7	2.0	58.1	41.9	54.2
668.0	63.1	26.9	3.6	1.9	59.5	40.5	55.5
668.5	61.3	27.0	3.5	1.9	60.1	39.9	55.6
669.0	59.8	27.3	3.4	1.8	60.0	40.0	55.6
669.5	59.1	27.0	3.4	1.9	60.3	39.7	56.9
670.0	59.4	26.5	3.3	1.8	62.5	37.5	58.8
670.5	65.6	26.1	3.2	2.1	60.3	39.7	60.3
671.0	70.4	24.6	3.2	2.1	65.0	35.0	65.0
671.5	73.1	24.2	3.2	1.9	66.6	33.4	66.3
672.0	75.3	23.0	3.2	1.8	73.0	26.4	69.9
672.5	79.0	19.5	3.2	1.6	83.7	16.3	83.7
673.0	86.6	13.4	3.1	1.6	100.0	0.0	100.0
673.5	89.7	10.8	3.0	1.7	100.0	0.0	100.0
674.0	94.3	7.0	3.0	1.6	100.0	0.0	100.0
674.5	95.6	6.3	3.0	1.6	100.0	0.0	100.0

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DEPTH	GR	POR	RT	RXD	SXD	ROS	SW
675.0	95.3	6.6	3.0	1.5	100.0	0.0	100.0
675.5	95.0	6.9	3.0	1.5	100.0	0.0	100.0
676.0	93.9	7.6	2.9	1.5	100.0	0.0	100.0
676.5	92.1	8.6	2.9	1.4	100.0	0.0	100.0
677.0	90.5	9.3	2.9	1.4	100.0	0.0	100.0
677.5	89.8	9.4	2.9	1.5	100.0	0.0	100.0
678.0	89.3	9.7	2.9	1.6	100.0	0.0	100.0
678.5	88.6	10.0	2.9	1.5	100.0	0.0	100.0
679.0	90.2	9.2	2.9	1.5	100.0	0.0	100.0
679.5	90.3	9.2	2.9	1.5	100.0	0.0	100.0
680.0	89.8	9.4	2.9	1.5	100.0	0.0	100.0
680.5	90.1	9.3	2.9	1.5	100.0	0.0	100.0
681.0	91.3	8.6	2.9	1.4	100.0	0.0	100.0
681.5	93.0	7.7	2.9	1.4	100.0	0.0	100.0
682.0	94.7	6.8	2.9	1.4	100.0	0.0	100.0
682.5	96.7	5.5	2.9	1.4	100.0	0.0	100.0
683.0	95.2	6.3	2.9	1.4	100.0	0.0	100.0
683.5	97.3	5.0	2.9	1.4	100.0	0.0	100.0
684.0	98.9	4.0	3.0	1.4	100.0	0.0	100.0
684.5	98.4	4.3	3.0	1.4	100.0	0.0	100.0
685.0	98.8	4.0	3.0	1.4	100.0	0.0	100.0
685.5	99.0	3.9	3.0	1.4	100.0	0.0	100.0
686.0	100.0	3.2	3.0	1.4	100.0	0.0	100.0
686.5	100.0	3.2	3.0	1.3	100.0	0.0	100.0
687.0	99.6	3.4	2.9	1.3	100.0	0.0	100.0
687.5	99.4	3.5	2.8	1.3	100.0	0.0	100.0
688.0	102.9	1.4	2.8	1.3	100.0	0.0	100.0
688.5	101.9	2.0	2.7	1.2	100.0	0.0	100.0
689.0	101.2	2.5	2.6	1.2	100.0	0.0	100.0
689.5	102.4	1.7	2.5	1.2	100.0	0.0	100.0
690.0	103.5	1.0	2.4	1.1	100.0	0.0	100.0
690.5	104.3	.5	2.4	1.1	100.0	0.0	100.0
691.0	105.0	.1	2.4	1.1	100.0	0.0	100.0
691.5	105.5	0.0	2.4	1.1	100.0	0.0	100.0
692.0	105.7	0.0	2.4	1.2	100.0	0.0	100.0
692.5	106.2	0.0	2.4	1.2	100.0	0.0	100.0
693.0	107.8	0.0	2.4	1.9	100.0	0.0	100.0
693.5	106.6	0.0	2.4	11.7	100.0	0.0	100.0
694.0	105.1	0.0	2.4	27.8	100.0	0.0	100.0
694.5	104.4	.5	2.4	2.4	100.0	0.0	100.0
695.0	106.6	0.0	2.4	2.4	100.0	0.0	100.0
695.5	108.6	0.0	2.4	2.4	100.0	0.0	100.0
696.0	109.7	0.0	2.4	2.5	100.0	0.0	100.0
696.5	109.6	0.0	2.4	2.5	100.0	0.0	100.0
697.0	103.2	0.0	2.4	2.5	100.0	0.0	100.0
697.5	107.0	0.0	2.5	2.5	100.0	0.0	100.0
698.0	106.1	0.0	2.5	8.4	100.0	0.0	100.0
698.5	105.7	0.0	2.5	2.5	100.0	0.0	100.0
699.0	104.9	.1	2.5	2.5	100.0	0.0	100.0
699.5	104.0	1.0	2.5	2.5	100.0	0.0	100.0

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CITIES SERVICE OIL COMPANY
CHESNEY HEGBERG UNIT MP NO. 214

DEPTH	GR	POR	RT	RXD	SXD	RDS	SW
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700.0	87.2	8.4	104.0	7.3	117.9	2.4	100.0
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STOCK FORM NO. 81411-20

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