

## ROOSEVELT STATE 9-2

## PRODUCTION REPORT

3-3-84 MI & RU Diamond Rental Co. Pulling Unit #752. Installed 6" 3000# manual BOP. PU 4-3/4" bit & 6-3-1/2" DC then RIH PU 133 jts. 2-3/8" tbg to DV tool @ 4397'. RU reverse unit & DO DV tool in 4 hrs. Circ hole clean & tested 5-1/2" csg to 2500 psi. Cont RIH PU 2-3/8" tbg to TOC @ 7639'. DO top rubber plug & 60' cmt to 7700'. SDON.

Daily Well Cost: \$ 4,741  
Cumulative Cost: \$318,336

3-4-84 Fin DO hard cmt 7700' to FC @ 7979'. RD rev unit. Pull 3 jts tbg to 7898' & SDON.

Daily Well Cost: \$ 5,122  
Cumulative Cost: \$323,458

3-6-84 RU Western Co. spot 500 gal 15% HCl 7929-7413 & POH 2-3/8" tbg lay down DC & Bit. RU Schlumberger. Run log from 7959-3500'. Perf 7912-18' 7 holes with hyperjet II. PU packer & TIH to 7798. Rev circ 10 bbl into tbg. 1 bbl to load press annulus to 500#. Pump into perfs 1 BPM @ 2000 psi for 12 bbls. SDON. Load to recover 43 bbls.

Daily Well Cost: \$ 16,232  
Cumulative Cost: \$339,690

3-07-84 FL first run @ 1800'. Swab 5hrs. rec 74 bbls 15 runs all water FL standing @ 3000'. Swab 3 hrs. rec 26 bbl water FL @ 3000'. continue swabbing for 3 hrs. & rec 28 bbl water. SDON. Have rec 128 of 43 bbls.

Daily Well Cost: \$ 1,600  
Cumulative Cost: \$341,290

3-08-84 Made 1 swab run FL @ 1800' all wtr. Release pkr & POH w/2-3/8". RU Schlumberger & set Halliburton cement retainer @ 7905'. RIH stinger & 2-3/8" load hole 23 bbl fresh wtr. Sting into retainer & establish rate 2 bpm @ 3000#. Western squeezed Fusselman perfs @ 7912-18' with 75 sx class H with .5% CF-1 mixed @ 15.6# 1 gal. w/59 sx in perfs rate 1/4 bpm @ 3700#. Pull out of retainer & reverse out 16 sx con't to displace hole 175 bbl. Spot 500 gal 15% HCl 7400-6900'. POH to 6000'. SDON.

Daily Well Cost: \$ 6,468  
Cumulative Cost: \$347,758

- 3-09-84 Con't POH w/2-3/8" retainer stinger. RU Schlumberger & perf 7868, 69, 77, 78, 87, 88 & 89. RIH pkr, SN & 2-3/8" tbg to pull BOP. Install X-MAS tree Rev 8 bbls into tbg & set pkr. Pump down tbg into perfs 1/2 bpm @ 3300# with 13 bbls fresh water. ISDP 3000# (5) 1300#, (10) 50# (12) 0#. Start swabbing load to rec 43 bbls 14 runs in 3 hrs Rec 62 bbls fluid to 4800' 100% wtr & SDON.
- Daily Well Cost: \$ 6,388  
Cumulative Cost: \$354,146
- 3-10-84 FL @ 1400' after first swab run, 100% water swab 9 hrs rec total 113 bbl. Release pkr, install BOP and POH. SDON.
- Daily Well Cost: \$ 1,600  
Cumulative Cost: \$355,746
- 3-11-84 RU Schlumberger & set Halliburton 5-1/2" cement retainer @ 7860'. RIH w/retainer stinger & 2-3/8" tbg to test tbg to 3000# Ok. Sting into retainer & Western Co. squeeze Fusselman perfs. @ 7868-89'. Establish rate into perfs 1 bpm @ 2800#. Staged last 5 bbls & squeezed to hold 3800#. Reverse out 19 sx cement. 55 sx in perfs. Mixed 75 sx class H with .5% CF-1. Circ hole clean & spot 500 gal 15% HCl @ 7860-7360'. POH w/2-3/8" tbg & stinger. SDON.
- Daily Well Cost: \$ 6,468  
Cumulative Cost: \$360,614
- 3-12-84 RU Schlumberger & perf Fusselman @ 7841,43,45,47,& 7849 1 shot each using Hyper jet II. PU pkr & SN RIH 244 jts. 2-3/8" pull BOP install X-MAS tree. Rev 8 bbls into tbg & set pkr @ 7725'. Pump down tbg .4 bpm form started taking fluid @ 3800#. Pump 11 bbls .4 bpm @ 4000# after 11 bbls gradual decrease to 2400# @ .6 bpm. after 13 bbls pumped press inc. to 2600# @ .6 bpm shut down @ 14 bbls pumped ISDP= 2300#. Put on vacuum for 2 mins. Made 5 runs with swab rec 28 bbls water & had show of gas. After 6th run well kicked off flowing 50% oil. Flowed 45 min & made 21 bbls on 30/64" choke to 24/64" choke. Flowed 22 bbls next hr 420 psi choke to 18/64" made 10 bbls next hr. tbg press 610#. Next 3hrs. made 29 bbls on 18/64" choke w/ 580#. Est 80% oil.
- Daily Well Cost: \$ 6,043  
Cumulative Cost: \$366,657
- 3-13-84 SITP=1500 psi after 16 hrs overnite. Laid ±1320' 2-3/8" 8rd floline from #2 well to tank battery @ #1 well. Tied well into production facilities. SITP=1500 psi @ 6:30 p.m. Open well to tanks thru production facilities on 20/64" choke & flowed 148 BO + 0 BW in 16 hrs. overnite w/FTP=410 psi @ 10:30 a.m. 3-13-84 after 16 hrs. Estimate gas rate @ 200+ MCFPD rate. LAST REPORT.
- Daily Well Cost: \$ 2,300  
Cumulative Cost: \$368,957

3-16-18

TP=100 psi on 4-/64" choke @ 8:30 a.m. 3-15-84. Ru Western Co. & pressured 2-3/8" x 5-1/2" annulus to 1500 psi. Acidized Fussleman perfs 7841'-49' w/2000 gal 15% HCl using 7 ball sealers as follows: start acid @ 3 BPM-200 psi & pumped 400 gal acid, 1 ball, 400 gal acid, 1 bal, 400 gal acid, 1 ball, 400 gal acid, 1 ball & 200 gal acid, 3 balls 200 gal acid, flush w/33 BFW. At 24 bbl pumped tbg loaded & PI as follows:

28 bbl	3 BPM	700 psi	
32	3	2000	
33	3	2400	acid on formation
36	3	4000	
37	2-1/2	4200	Slow pump
37-1/2	2-1/2	4000	Start brk
39	3	3400	inc rate
42	4	2400	inc rate
43	4	2200	1st ball on perfs
47	4-1/2	1800	inc rate start flush
62	4-1/2	1600	3rd ball on perfs
71	4-1/2	1800	4th ball on perfs
80	4-1/2	1800	all flush in
ISDP= vac		Total load = 80 BLW	

Tagged FL @ 4600' on 1st run then swabbed 14 bbl fluid in 3 hrs. w/FL scattered from 5500' to SN @ 7720'. Next 4 hrs. Swabbed 20 BW w/FL scattered to SN and on last run oil cut inc then KO flowing @ 6:00 p.m. Left well open to tanks overnite on 20/64" ck & flowed 13 BO + 0 BW plus est 150 MCFPD gas in 13 hrs. w/FTP=200 psi @ 8:00 a.m. 3-16-84. HR 34 of 80 BLW.

Daily Well Cost: \$ 6,228  
Cumulative Cost: \$375,185

3-17-84

FTP=200 psi @ 8:00 a.m. Opened choke from 20/64" to 40/64" & flowed 12 BO in 2 hrs w/FTP to 0 psi. RU to swab & tagged FL @ 5500' on 1st run. Swabbed 11 BO in 7 runs in 3 hrs swabbing from SN @ 7698'. Swabbed 2 hrs making 1 run/hr & rec 13 BO w/FL scattered from 6500' to SN. SDON & left well open to tanks on 32/64" ck. Flowed 36 BO + 7 BW in 17 hrs w/FTP=100 psi @ 8:00 a.m. 3-17-84.

Daily Well Cost: \$ 1,600  
Cumulative Cost: \$376,785

3-18-84

Flowed 31 BO + 0 BW in 24 hrs on 32/64" ck w/FTP=100 psi.

3-19-84

Flowed 16 BO + 0 BW in 24 hrs on 32/64" ck w/FTP=100 psi.

3-20-84

FTP=100 psi on 32/64" ck @ 8:00a.m. 3-19-84. Open choke to 3/4" & unloaded 2 BO w/FTP to 0 psi. RU to swab & made 2 swab runs to SN w/scattered pockets of fluid & rec 1 BO On 1st run w/no rec on 2nd run. Released pkr & equalized hole. POH w/244 jts 2-3/8" tbg & LD 5-1/2 Baker Model "R" pkr. Install BOP & WO Schlumberger. RU Schlumberger & set 5-1/2" Baker Model S CIBP on WL @ 7830'. Made 1 run w/4'x40' dump bailer & capped CIBP w/15' cmt to 7815'. RIH w/2-3/8" tbg open ended to 7500'. SDON.

Daily Well Cost: \$ 1,800  
Cumulative Cost: \$378,585

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3-21-84 Fin RIH to 7784'. Spotted 500 gal 15% acid 7784'-7284'. Schlumberger perf 5-1/2" csg in Cisco w/1 JSPF @ 7772'-76' (total 5 holes). FL fell 2500' after perf. RIH w/pkr on 2-3/8" tbg & set @ 7629'. Swabbed 25 BW in 2 hrs w/FL steady @ 4100'. SDON.

Daily Well Cost: \$ 9,511  
Cumulative Cost: \$388,096

3-22-84 FTP=390 psi after 14 hrs swabbed and flowed 57 BW show of oil after 8 hrs. w/FL scattered from 2100' to SN. Well KO flowing @ 4 BPH rate w/FTP=150 psi.

Daily Well Cost: \$  
Cumulative Cost: \$

3-23-84 Flowed 5BO + 16BW in 16 hrs. overnite on 20/64" choke FTP=70psi. @ 8:30 a.m. Bled to 0 w/no fluid to surface. Swabbed 4BO + 43 BW in 10-1/2 hrs. w/FL @ 3900' to SN after 8 hrs. Last 2 hrs. swabbed 3BO + 1 BW w/FL undetectable in hole. Left well open to tank overnite on 32/64" choke and flowed 7 BO + 4 BW in 13 hrs. w/FTP=20 psi. Well dead @ 8:30 a.m. 3-23-84.

Daily Well Cost: \$ 1,800  
Cumulative Cost: \$392,376

3-24-84 FTP=20psi & well dead @ 8:30 a.m. RU to swab & tagged FL @ 4900' on 1st run. Swabbed 5BO & 13BW in 9 hrs from SN w/FL undetectable in hole. Left well open on 32/64" ck overnite & flowed 1-1/2 BO in 13 hrs.

Daily Well Cost: \$ 1,600  
Cumulative Cost: \$393,976

3-25-84 Well dead @ 8:30 a.m. 3-24-84. RU Western Co. & acidized Cisco perfs 7772-76' w/1500 gal 15% DS-30 acid & 7 ball sealers @ 4-1/2 -6 BPM on vacuum. Did not see any ball sealers & ISDP=vac. Total load to rec =68 BW. RU to swab & FL @ 5300' on 1st run. Swabbed 39 BW in 5 hrs. w/FL falling to 5500' & remaining scattered to SN. HR 39 of 68 BLW. Left well open overnite on 32/64" choke w/no rec in 14 hrs.

Daily Well Cost: \$ 3,528  
Cumulative Cost: \$397,504

3-26-84 Well dead @ 8:00 a.m. 3-25. SI welll for 24 hrs.

3-27-84 After 24 hrs SITP=220 psi. Open to tanks on 24/64" ck & bled to 0 in 20 min w/no fluid to surf. RU to swab & tagged FL @ 1100' on 1st run. Swabbed 11 BW in 2 runs in 3/4 hr & well KO flowing. Flowed 47 BW in 6 hrs on 1" ck w/FTP=0 psi. Ran WL temp sur & RA tracer sur indicating no fluid movement belwo Cisco perfs 7772'-76'. SDON.

Daily Well Cost: \$ 7,800  
Cumulative Cost: \$405,304

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3-28-84 Tbg on slight vac @ 8:30 a.m. 3-27-84. Released pkr & equalized hole. Remove X-MAS tree & installed BOP. POH w/70 stds 2-3/8" tbg & shut down due to high winds.

Daily Well Cost: \$ 900  
Cumulative Cost: \$406,204

3-29-84 Well on vac @ 8:30 a.m. 3-28-84. Fin POH w/2-3/8" tbg & LD pkr. RU United Pkr Service 3-3/4" x 38' drill bailer & made runs attempting to drill out cmt off CIBP @ 7830' w/o any progress. Rec 7 ball sealers & ± 1 gal cmt in 5 runs. RD bailer & SDON.

Daily Well Cost: \$ 1,673  
Cumulative Cost: \$407,877

3-30-84 PU 4-3/4" bit, 6-3-1/2" DC, crossover & SN. RIH w/245 jts. 2-3/8" tbg tag cmt plug @ 7815'. Drlg cmt from 7815'-7830'. Drlg CIBP 7830' tag bottom @ 7855' and drlg to 7860'. Drop standing valve. Pressure up to 4800# and burst tubing. Lost 310 bbls fluid today.

Daily Well Cost: \$ 7,220  
Cumulative Cost: \$415,097

3-31-84 Start POH w/2-3/8" tbg & tbg parted after pulling 250' off bottom. Fin POH to tbg part on 13 th jt from top & SDON. TOF Calc @ 424'.

Daily Well Cost: \$ 1,200  
Cumulative Cost: \$416,297

4-1-84 RIH w/overshot on new 2-3/8" tbg & engage tbg fish @ 578'. Work tbg to 30,000# over string wt for 1 hr. w/no movement & SDON.

Daily Well Cost: \$ 2,500  
Cumulative Cost: \$418,797

4-2-84 RU WL & ran freept. indicating tbg fish stuck @ 2400'. Attempt to back off 2-3/8" tbg @ 2335' & 2304' w/string shots w/no success. Back off 2-3/8" tbg @ 2172'. Then POH & LD 51 jts. (1600') 2-3/8" tbg fish. RIH w/overshot, jars & DC to ±700' & SDON.

Daily Well Cost: \$ 4,262  
Cumulative Cost: \$423,059

4-3-84 Fin RIH w/overshot & engaged fish @ 2172'. Jarred free & POH to rec 4 jts (129') 2-3/8" tbg fish w/bottom split from string shot. LD fish & RIH w/overshot & fishing tools on 2-3/8" tbg to ±250'. SD due to high winds.

Daily Well Cost: \$ 2,650  
Cumulative Cost: \$425,709

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- 4-4-84 Fin RIH w/overshot & unable to engage fish @ 2308'. POH & rec piece of shot tbg fish 6" x 3" in grapple. Dress fishing tools & RIH w/overshot. Engage fish @ 2308' & jar up hole 12' in 2 hrs then no further movement in total of 4-1/2 hrs. Ran free-pt & back off fish @ 2357'. POH & rec 2 jts (62') 2-3/8" tbg fish. TOF @ 2357'. SDON.
- Daily Well Cost: \$ 9,023  
Cumulative Cost: \$434,732
- 4-5-84 RIH w/overshot dressed w/3-1/8" grapple & fishing tools on 2-3/8" tbg & attempted to engage fish @ 2357' w/no success. POH & change grapple to 2-3/8". Re-run fishing tools & engaged fish @ 2357'. Jar on fish for 3 hrs & moved uphole 5' then stuck for last 2 hrs. SDON.
- Daily Well Cost: \$ 8,847  
Cumulative Cost: \$445,579
- 4-6-84 Resume jarring on fish for 1/2 hr w/no movement. Release overshot & POH. Ran full opening overshot & engaged fish @ 2352'. Backed off 2-3/8" tbg fish @ 2385'. POH & rec 1 jt (33') 2-3/8" tbg fish. RIH & attempt to screw into fish w/no success. POH w/tbg. SDON.
- Daily Well Cost: \$ 4,330  
Cumulative Cost: \$447,909
- 4-7-84 Ran magnet on WL to 2385' & POH w/no rec. RIH w/3-1/2" DC & 2-3/8" tbg to  $\pm$ 2300'. POH & LD tbg & DC. Unload & tally 4-1/4" DC & 2-7/8" tbg. SD due to high winds.
- Daily Well Cost: \$ 2,180  
Cumulative Cost: \$450,089
- 4-8-84 RIH w/Kutrite shoe & fishing tools on 12-6-1/4" DC & 2-7/8" tbg. Mill over TOF 2384' to 2386' in 2-1/2 hrs. & shoe quit cutting. POH & rec 1/2 of 8rd coupling in shoe.
- Daily Well Cost: \$ 5,665  
Cumulative Cost: \$455,754
- 4-9-84 RIH w/Kutrite shoe & fishing tools as before & mill on TOF @ 2384' for 2 hrs w/no progress. POH w/4-3/4" mill & fishing tools to TOF @ 2384'. Work junk down hole 1' w/mill in 1/2 hrs. POH w/mill. RIH w/Kutrite shoe & fishing tools as before. Cut over fish 2385'-2393' in 3 hrs & engaged fish w/overshot. Pull to 60,000# & SDON.
- Daily Well Cost: \$ 6,762  
Cumulative Cost: \$462,516

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4-10-84 Jar tbg fish once @ 65,000# then pull free. POH & rec 3 pieces ( $\pm 15'$ ) 2-3/8" tbg fish in shoe. Re-ran Kutrite shoe & fishing tools to new TOF @ 2390'. Cut over fish 2390' to 2398' in 3 hrs. POH & rec 2 pieces ( $\pm 14'$ ) 2-3/8" tbg fish in shoe. SD due to high winds. TOF est @ 2398'.

Daily Well Cost: \$ 3,740  
Cumulative Cost: \$466,256

4-11-84 RIH w/Kutrite shoe, overshot, extensions and fishing tools on 2-7/8" tbg. Cut over fish 2397'-2409' in 3-1/2 hrs. POH & rec 8 pieces (19') 2-3/8" tbg fish. Re-run shoe & fishing tools as before. Cut over fish 2406'-2412' in 3 hrs. SDON.

Daily Well Cost: \$ 4,290  
Cumulative Cost: \$470,546

4-12-84 POH w/fishing tools & rec 8 pcs 2'x2" of 2-3/8" tbg fish. Re-ran kutrite shoe on fishing tools as before & cut over fish 2412'-2415' in 3 hrs. POH & rec 11 pcs 1'-2'x2" 2-3/8" tbg fish. Re-ran kutrite shoe on fishing tools as before & cut over fish 2412'-2415' in 2 hrs. SDON.

Daily Well Cost: \$ 4,890  
Cumulative Cost: \$475,436

4-13-84 Cont cut over fish 2412'-2418' in 3 hrs & POH w/no rec. RIH w/4-3/4" x 3-3/4" kutrite shoe & 32' washpipe on fishing tools & 2-7/8" tbg. Cut over fish 2415'-2421' in 5 hrs. SDON.

Daily Well Cost: \$ 4,840  
Cumulative Cost: \$480,276

4-14-84 Cont cut over fish 2421-27 in 4 hrs. POH & rec 2 pcs. 2-3/8" tbg fish 7-1/2' long plus 3 pcs 2-1/2' long & 5 pcs 4-6" long. RIH w/new kutrite shoe on fishing tools & cut over fish 2427-29 in 2-1/2 hrs. POH & rec 3 pcs 2-3/8" tbg fish 2' long. SDON. TOF @ 2429'.

Daily Well Cost: \$ 4,740  
Cumulative Cost: \$485,016

4-15-84 RIH w/fishing tools & DC. POH & LD same. RIH w/2-7/8" workstring & POH LD tbg. Removed BOP & tbg head. Dug out cellar & prep to 5-1/2" csg.

Daily Well Cost: \$ 1,750  
Cumulative Cost: \$486,766

4-16-84 SDOS.

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4-17-84 Weld on 5-1/2" pick up sub & rig up csg jacks. PU 5-1/2" csg & remove slips. RU WL & RIH w/string shot but unable to work below 2038' in 5 hrs. RD WL. Attempt manual back off on 5-1/2 csg but broke @ 1400'. Screw csg together & SDON.

Daily Well Cost: \$ 2,225

Cumulative Cost: \$488,991

4-18-84 RU WL & RIH w/string shot on 2 attempts to back off 5-1/2" csg @ 2417' w/no success. Ran free pt on 5-1/2" csg indicating pipe 100% stuck @ 2245'. RD WL & pulling unit. Release all rental equipment & suspend operations for evaluation.

Daily Well Cost: \$ 8,083

Cumulative Cost: \$497,074