

Reef Exploration L.P.  
State 2 Well #1  
Unit G  
1980 FNL & 1980 FEL  
Sec 2, T-23-S,R-31-E  
Eddy County, New Mexico

Completion  
Drilling Report

30-015-35678

**Date:** 8-21-07

MI Key WS pulling unit. SDFD.

**Date:** 8-22-07

RU PU. NU BOP. PU 4 3/4" bit, string mill, DC's and 2 7/8" L-80 tbg and TIH. Tag cmt @ 6388'. Drl out cmt and DV tool. Work string mill through area of DV tool. TIH and tag PBDT @ 8354'. Circ hole clean. SDFD.

**Date:** 8-23-07

POH. W/O Halliburton WL. RU Halliburton WL and TIH w/spherical cmt bond log. Tag PBDT @ 8352'. Run bond long f/PBDT to 3600'. RD WL. SDFD.

**Date:** 8-24-07

TIH w/tbg. Install gauge in tbg. Release unit. SD to wait on orders.

**Date:** 8-29-07

SITP 0 PSI. WOO. Roustabouts and backhoe leveled chat and built back firewall for tank battery.

**Date:** 9-03-07

TBG press=0 psi. WOO. Delivered 4 frac tanks, set and manifold together.

**Date:** 9-04-07

MIRU Halliburton. Circ hole with 2% KCL WTR and spot 200 gals 17% MCA up to 8140'. RD Halliburton. POH with 2 7/8" TBG. RU Halliburton WL. TIH and perf with 2 jspf as follows: 8236-8238', 8228-8230', 8206-8210', 8192-8194'. Total 20 Holes RD Halliburton WL. SDFD.

**Date:** 9-05-07

PU pkr and TIH to +/- 8078'. RU Halliburton reverse acid into tbg. Set pkr. Acidized perf's with 1500 gals 10% MCA acid and 18 bio balls. Form broke at 1.4 bpm @ 2154 psi. Increase rate to 3.5 BPM. Had good ball action on first few balls with press increasing then breaking back. ISIP 270 psi, 5 min 226 psi, 10 min 212 psi, 15 min 202 psi. RD Halliburton TLTR 90 bbls. Bled press to frac tank. Swab 6 hrs. fl @ 7100' and holding. SDFD. Rec 59 BLW 31 BLWTR

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**Date: 9-06-07**

SITP 30 psi. IFL 5000'. Skim of oil on 1<sup>st</sup> run. Swab down to SN @ 2:00 pm. Made run every hour, make 500 to 600' per hr. (approx 2.895 bph). Started getting 40% oil cut. Made last run @ 7:00 pm. SDFD. Rec 43 bbls fluid. All load rec plus 12 bbls.

**Date: 9-07-07**

SITP 25 psi. IFL 6800'. Swab down in 4 runs. SD 1 hr. Gained 300' of fluid. SD 2 hrs gained 600' of fluid. First run 80% oil cut, last run 40-50% oil cut. SDFWE. Total rec 5 bo, 22 bw, 100% load wtr.

**Date: 9-08 & 09-07**

SDFWE

**Date: 9-10-07**

SITP 40 psi. IFL 4900'. Swab down to SN in 4 runs. SD 1 hr, had 350' fluid entry. Swab until 3:00 pm. Rec 3 BO 10 BW. RU Halliburton for frac job this AM. SDFD.

**Date: 9-11-07**

SITP 25 SPI. Finish RU Halliburton frac services. Try to start frac and blender went down. c/o blender @ 3:00 PM. Blender #2 went down. c/o blender @ 6:00AM. Frac'd zone F/ 8192-8238' with 29000 gals silverslim lt basic (11) with 42000 # of premium brown 20/40 sand with radioactive tracer. Max press 3017 psi, ave press 1623 psi, max rate 15.9 bpm, ave rate 13.0 bpm. ISIP 450 psi, 5 min 358 psi, 10 min 328 psi, 15 min 310 psi. SDFD RD Halliburton. TLTR 699 bbls.

**Date: 9-12-07**

SITP 50 psi. Start swabbing. IFL 1300'. Made 34 runs all 99% wtr. Ffl 3600: Rec 134 BLW, 535 BLWTR. SDFD.

**Date: 9-13-07**

SITP-TSTM. Start swabbing. IFL 3000'. Made 36 runs. 4% oil cut @ end of day, some gas SDFD. Rec 3 BO, 189 BLW, 346 BLWTR.

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**Date: 9-14-07**

SITP-50 psi. Start Swabbing. IFL 3700', made 36 runs. 10-15% oil cut most of day. Rec 20 bo 150 blw, 196 blwtr. SDFWE.

**Date: 9-15-07 & 9-16-07**

SDFW.

**Date: 9-17-07**

SITP- 120 psi. Start swabbing IFL @ 3100'. Made 38 runs. Average 40% oil cut with good gas blow. Start assembly of tank battery. SDFD. Rec 50 bo, 126 BLW, 70 BLWTR.

**Date: 9-18-07**

SITP- 70 psi. Start swabbing IFL @ 3500'. Made 37 runs. Average 40% oil cut with good gas blow. SDFD. Rec 55 bo, 30 BW, 70 BLW. All load recovered.

**Date: 9-19-07**

SITP- 70 psi. Start swabbing IFL @ 4300'. Made 1 run. 100% oil. Release pkr and POH. MIRU precision pressure data with protonics RA tool. Found RA tracer F/8230' up to 8038'. POH and RD. MIRU Halliburton WL and set composite BP @ 7100'. Perf with 1 jsfp F/6934-44'. (11 Holes). POH and RD Halliburton WL. PU pkr and start TIH. SDFD. Transfer oil to new battery and wtr in pits.

**Date: 9-20-07**

MIRU Halliburton. Set pkr @ 6792'. Halliburton acidized perfs w/1300 gals 10% MCA acid. Form broke @ 3444 psi @ 1 BPM. Ave rate & press 4.0 BPM @ 1639 psi. Max rate & press 4.2 BPM and 5323 psi. ISIP 319 psi, 5 min 90 psi, 10 min vac. RD Halliburton. Start swabbing. IFL 2900'. Made 15 runs. FFL @ SN. Gain 400' fluid in 1 hr. 5% oil cut. SDFD. Rec 58 BLW, 96 BLWTR.

**Date: 9-21-07**

SITP- 0 psi, start swabbing. IFL 7000'. Swab down in 2 runs. Made 1 run every 2 hrs. Gain 300'. 20% oil cut. SDFD. Rec 14 BLW, 8 BLWTR.

**Date: 9-22-07**

SDFD.

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**Date: 9-23-07**

Finish Filling Frac Tanks, everything ready to frac. SDFD

**Date: 9-24-07**

SITP—0 psi. Start Swabbing. IFL 4900' Swab down in 7 runs. Make 1 run/hr. total of 11 runs for day. Gain 400' of fluid in 1 hr. Had 10% oil cut. SDFD. Rec 28 BLW, 21 BLWTR

**Date: 9-25-07**

SITP—0 psi. Start swabbing. IFL 4800', 10% oil cut. MIRU Halliburton and Cardinal RA Tracer. Frac as follows: 3000 gal pad, 1356 gal wtr frac could not get gel to cross link. Flush with 2% KCL to bottom perf. SD to fix problem. Corrected problem and resume frac. Pumped 22,700 gals Silver Stim Lt Basic (11) and 21,000 #Premium Brown 20/40 sand. Ave Rate & Press 9.81 BPM @ 2047 psi. Max Rate 11.99 BPM, Max Press 2648 psi. ISIP 325 psi, 5 min 315 psi, 10 min 300 psi, 15 min 278 psi. SDFD. 696 BLWTR.

**Date: 9-26-07**

SITP—Vac. Made 33 swab runs. IFL 2600', FFL 4900'. 100% wtr. SDFD. Rec 180 BLW, 516 BLWTR.

**Date: 9-27-07**

SITP-0. Made 37 swab runs. IFL 3700', FFL 5200'. 100% wtr. SDFD. Rec 157 BLW, 359 BLWTR.

**Date: 9-28-07**

SITP-0 psi. Made 1 swab run. IFL 4200'. 100% wtr. MIRU Protechnics. Ran RA Tracer Survey, shows all sand F/6328-6950'. RD Protechnics. Resume Swabbing made 26 runs 100% wtr. SDFWE. Rec 126 BLW, 233 BLWTR.

**Date: 10-01-07**

SITP-slight vac. Made 33 swab runs. IFL 3800'. 100% wtr most of the day 1% oil cut @ end of day. FFL 5400'. SDFD. Rec 122 BLW. 111 BLWTR.

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**Date: 10-02-07**

SITP-slight vac. Made 34 swab runs. IFL 4000', FFL 5300'. 100% wtr. Lst run less than 1% oil cut. SDFD. Rec 100 BLW, 1 BLWTR.

**Date: 10-03-07**

SITP-slight vac. Made 1 swab run. IFL 4000'. Release pkr and POH. RU Halliburton WL and PERF with 2 jspf over the following intervals: 6910-6914, 6920-6924, (18 holes) RD WL. TIH with pkr and tbq. set pkr@ 6790'. Halliburton acidized perms with 1000 gals 10% MCA acid and 27 Bio Balls. Max rate and press 4.3 bpm and 728 psi. Ave rate and press 3.3 bpm @ 225 psi. Had good ball action. ISIP vac. RD Halliburton. Made 5 swab runs. IFL 2000', FFL 3200'. 100% wtr. SDFD. Rec 19 BLW, 92 BLWTR.

**Date: 10-04-07**

SITP- 0 psi. Made 36 swab runs. IFL 3000', FFL 4900'. 100% wtr. SDFD. Rec 62 BW, 92 BLW, 0 BLWTR.

**Date: 10-05-07**

SITP- 0 psi. Made 23 swab runs. IFL 4300', FFL 4900'. 100% wtr. SDFWE. Rec 89 BW.

**Date: 10-08-07**

SITP- 0 psi. Made 1 swab run. IFL 3300'. 15% oil. Release Pkr and POH. MIRU knight rev unit. PU and TIH with Bit and DC's. Tag BP @ 7100'. Try to establish circ, would not circ. Drl out CIBP and TIH. Tag PBTD @ 8252'. Start POH. SDFD.

**Date: 10-09-07**

Finish POH. PU bulldog bailer and TIH. Tag fill @ 8252'. Clean out to 8290' and bailer stopped working. POH and LD bailer. SDFD.

**Date: 10-10-07**

Run Prod TBG as Follows: 1-BP (8196'), 1-4' PS, SN (8155'), 6 Jts 2 7/8" tbq, 5 1/2" x 2 7/8" TAC (7966'), 255 Jts 2 7/8". ND Bop set TAC with 13k tension NU wellhead. Weatherford set pumping unit. Hook up elec. SDFD.

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**Date: 10-11-07**

PU and run pump and rods as follows: 1 ½" x 25' pump, 1-1" rod, 1-1" shear tool, 3-1" rods, 130-3/4" rods, 98-7/8" rods, 92-1" rods, 1-6' 1" pony rod, 1 ½" x 26' polish rod w/16' liner. Hang well on. Build wellhead, hook up generator. Start well pumping @ 6:00 pm 10-11-07. SDFD.