

MIRUSU 3/5/93, NDWH, NUBOPS. TOH W/ 237 jts TBG. TIH W/CIBP & set @ 7400'. Press test to 2500psi. Held OK. TOH W/TBG. ND BOPS and WH, installed 5000# WH press. test to 3500psi. seal leaked. Removed WH. RU WLE. RIH and dumped bailed cmt on CIBP set @ 7410'. CMT TOP @ 7347'. Installed new WH & frac valve & press. test CSG & WH to 3500psi. Held. RU WLE & RIH ran CBL, CCL, GR from 5717' to surf CMT top on 4.5" CSG @ 3800', CMT top 7" CSG @ 3000'. RIH and Perf CSG.

Perf: 5476'-5480', 5536'-5540', 5553'-5556', 5558'-5560', 5574'-5576', 5596'-5599, 5616'-5620', 5654'-5658', W/1 JSPF .48" diam.

RIH & set RET RBP @ 5465'. RIH & dumped 5' of sand on RBP. RIH and perf MV Point lookout from 5434'-5442', 5414'-5416, 5367'-5404', 5338'-5354', W/2 JSPF, .48" diam..

Frac: interval 5442'-5338' W/ 190,000 GAL BORAGEL, 177500# 12/20 Brady sand, AIP 637psi. AIR 80 BPM. total 190,000gal.

RIH & set RBP @ 5015'. press. test RBP to 2000psi. Held OK. RIH & dumped 5' sand on RBP.

RIH and perf MV. Cliff house interval 4942'-4961', 4927'-4039', 4921'-4923', 4915'-4918', 4898'-4911', 4886'-4892', 4810'-4831, W/ 2 JSPF, .48" diam. RD WLE

RU Frac equip. frac Cliff house perfs from 4810' to 4961' W/59693 gal gel pad & 36334 gal-gel with 1190sxs 119000lbs of 12/20 brady sand. screened out on 4.28 LBS/GAL. AIP 1100psi. AIR 85 BPM. Displaced Frac W/3246 GALS total load to recover =2363 BBls. RD.

TIH W/RET. head & tagged sand @ 3610'. Rel. RBP @ 5465'. Plug would go down but would not come up worked for 4.5hrs. Tied to circ hole W/N2- did not get any N2 back to surf- pump 75000 SCF- RBP came free & TOH W/plug. TIH W/ new RET head to liner. TIH W/RET. head for RBP set @ 5465' tagged fill @ 5390'. RU N2 equip. & cleaned out sand W/ 150,000 SCF of N2. REL. RBP & TOH. RIH & set RBP @ 4775' Press. test RBP to 2000psi. held OK. RIH & dumped 5' sand on RBP set @ 4775'.

RIH and perf MV from 4720'-4725', 4712'-4717, 4685'-4688', 4671'-4673', 4664'-4666', 4574'-4590', with 2 JSPF, .48' diam.

Frac: MV intervals 4725'-4574' by pumping 30,000 GAL X-link GEL & staging in 1435sx of 12/20 Brady sand up to 7 LBS per gal, AIP 624psi. AIR 40 BPM.