



103 - 11601

Mesa Energy Partners, LLC  
 BDU 6607B G-11-299  
 Surface Casing Cement Summary

Date	Method Used	String	Cementing Tool Setting / Perf Depth	Cement Volume - Sacks	Cement Top	Cement Bottom	Comments
8/24/2010	DV Tool	Surface Casing	Stage tool @ 1629'	Stage 1: 950 sx. Stage 2: 430 sx.	1680	3035	No returns stage 1. Partial returns on stage 2.
8/27/2010	Squeeze	Surface Casing	Perfs @ 1535'	450 sx	1535	3035	No returns to surface.
8/29/2010	Squeeze	Surface Casing	Perfs @ 1535'	517 sx	1535	3035	No returns to surface.
9/1/2010	Squeeze	Surface Casing	Perfs @ 1490' - 1492'	415 sx	1100	3035	No returns to surface.
9/6/2010	Squeeze	Surface Casing	Perfs @ 1060'	125 sx	1060	3035	No returns to surface.
9/7/2010	Squeeze	Surface Casing	Perfs @ 1060'	330 sx	960	3035	No returns to surface.
9/11/2010	Squeeze	Surface Casing	Perfs @ 952'-954' & 925'-927', 752' - 754'	45 sx, 45 sx	892	3035	Ran 1" tubing down annulus to 394' to break up suspected LCM bridge.
9/18 - 9/19/2010	Squeeze	Surface Casing	700' - 702', 810' - 812', 890' - 892'	275 sx	700	3035	
9/22/2010	Squeeze	Surface Casing	620' - 622', 640'	17 sx	620	3035	Pressure to 1100 psi and held.
9/22/2010	1" tubing	Surface Casing	394'	17 sx	354	3035	
9/22/2010	1" tubing	Surface Casing	350'	31 sx	164	3035	
9/22/2010	1" tubing	Surface Casing	149'	53 sx	0	3035	Circulate cement to surface

Details of Work:

8/24/10:	RU Halliburton Cementers, Safety Meeting, Pump First Stage Cement - 10-40-10 Spacer - Lead Cement 800 Sxs, 12.3#, 2.34 yield, 12.53 Gal/sk, Slurry of 333.4 BBls - Tail Cement 150 Sxs, 12.8#, 2.08 yield, 10.59 Gal/sk Slurry Of 53.6 BBls - Displace w/110 BBls H2O, 122.9 BBls Mud - Drop Bomb, Open DV Tool, Circulate Through DV Tool, Pump 600 BBls over 3 hrs - No Returns, Mix / Pump High Vis-2.5% LCM Sweep 120 BBls, Pump Down Annulus, Pump 2nd Stage Cement 10 BBI Spacer Tail Cement 430 Sxs, 12.3#, 2.34 Yield, 12.53 Gal/sk Slurry Of 179.2 BBls, No Cement Returns To Surface, Plug Held, WOC
8/27/10:	Stud Thompson W/BLM on Location To Witness Cement Job, Schlumberger, Will Run Bond Log 36 Hrs From Plug Down To Determine Remedial Operations For Surface Casing
8/27/10:	WOO, Mix / Pump High Vis 20% LCM Down Backside, Perforate Casing @ 1535', MU Retainer Packer and Set @ 1480', Pump 150 BBI 8.6#, 44 Vis, 5% LCM Through Retainer / Perfs - No Returns, Pump 25 BBI Fresh, 30 BBI Superflush, 10 BBI Spacer, Tail Cement of 450 Sxs, 12.3#, 2.45 Yield, 14.06 Gal/sk - Slurry of 196.4 BBls - No Returns

8/29/10:  
TIH, Pump Through Perfs, WOC Cementers, Pump High Vis 20% LCM Down Backside, Cement = 20 BBL Inj Test, 3 BBL H2O Spacer, 40 BBL CaCl Spacer, 3 BBL H2O Spacer, 5 BBL Flocheck Spacer, 3 BBL H2O Spacer, Scav Cement 67 Sxs, 1 I# 3.74 Yield 23.54 Gal/sk Slurry of 45 BBls, 3 BBL Spacer, 20 BBL Superflush, 3 BBL Spacer, Scav Cement Slurry 45 BBls, H2O Spacer, 20 BBL Superflush, 3 BBL H2O Spacer, Scav Cement Slurry of 45 BBL, 3 BBL Spacer, 20 BBL Superflush, 5 BBL H2O Spacer Tail Cement 450 Sxs, 1.2.3#, 2.5.1 Yield, 1.4.38 Gal/sk, Displace W/20.5 BBL H2O, Sting Out, Reverse Circulate 42 BBL, No Returns - Did not Circulate, Trip Out, LD Stinger, WOC

8/29/10:  
WOC, Run Schlumberger Isolation Scanner / USIT Log, WOO, Relog Top 700' Casing, Pump 60 BBL Down Backside 65 PSI, Pump away 60 BBls Down Casing, 523 PSI, Wait on Perf/Hand, Perforate Casing @ 1490-1492' 1.2 x .4, PU Retainer, TIH, Set Retainer @ 1449', Wait On Cementers

9/1/10: Vin Halliburton, Rig Up Halliburton Cementers, Pump 200 BBls High Vis 22% LCM Down Backside, Displace W/ 130 BBL Water, Safety Meeting, Cement w/ 30 BBL Injection Test, 100 BBL Foamed Mud, 5 BBL H2O, 30 BBL Superflush, 5 BBL Fresh Lead Of 355 Sxs, 1.4.3#, 1.2.1 Yield 5.7 Gal/sk Slurry Of 76.5 BBls Nitrogen Charged Foamed Cement, Tail 50 Sxs 1.4.3# 1.2.1 Yie 5.27 Gal/sk, Slurry of 10.8 BBls Unfoamed Cement, Displace w/ 20.1 BBls, Unsting From Retainer, Reverse Circ, TOOH, No Circulation No Returns During Cement Job, LD Stinger, WOC, 48 Hrs for Bond Log

9/1/10: weight balanced pill, Trip in to 3005', Set 1.5-1.6 ppg weighted pill top @ 1540', Pull up to 1539' to cement, HES pumps 70 bbl water ahead of 25.6 bbl, 12.5 sxs, 1.5 yield, 4.96 gal/sk cement @ 1539', Pull out to 1162', Squeeze cement with 1000psi, Top on squeeze 1196', WOC, POOH, Rig up RMW and perforate @ 1060' with 5 - .038" shot @ 1060', Set Set retainer @ 1129' Attempt to circulate back side of casing, Hole taking fluid, pump 21 bbl. at 2 bbl/min ending with 340 psi & no returns, Wait on retainer, PU retainer Mr. Weller phoned Bud Thompson & Betty Lau with the BLM, discussed procedures & options, Proposed bullhead squeeze into perfs. @ 1060', with BLM rejecting this option, Proposed pumping thixotropic cement into perfs at 1060' was approved

9/1/10: set retainer at 1041', Rig up HES, Hook rig's mud system to cementing manifold, Safety meeting with drill for critical situation due to thixotropic mix used, HES pumps 10 bbls water, 20 bbls superflush, 10 bbl water, 124.2 bbl mix of 330 sxs 12.5 ppg, 1.95 ft/sk, 10.88 gal/sk, thixotropic cement mix, displacement of 22 bbl. water @ .4 - 1 bbl/min, High psi during displacement 870 psi, Pull out of stinger reverse circ. pipe to pits 1.8 bbl cement back to res. pit. HES pump cavitating & mix rate faster than fluid going down hole, Mix rates 1-2 bbl/min, 3 bbl min. to clear cavitation, Cement down @ 11:43 a.m. WOC, Trip in to drill out retainer and cement, Mr. Weller informed Betty Lau of BLM, BLM requests 36 hrs. WOC before USIT log being ran, Log to be ran 11:30 pm 9-8-10

9/1/10: WOC Fishing Tools, PU Knight Fishing Tools, TIH, Sting Over Setting Tool - Pull Free, Trip Out, LD Fish & Tools, Pressure Test Bridge Plug, Safety Meeting W/ Halliburton, Run In Wireline Perforate @ 952'-954' & 925'-927' 5 x .38 Perfs, TIH T7975' Rev Circ 14 BBls, 8 BBL Spacer, Halco Cement 45 sxs, 1.2.5# 2.26 Yield, 12.9 Gal/sk Water Slurry Of 18.1 BBls, Displace W/10.2 BBls Water, TOOH 4 Stands, Reverse Circ 18 BBls, Block Squeeze 3.6 BBls Cement - Held 700 PSI, TOOH, Perforate @ 752'-754' 5x.38,

11H V/12: Rev Circ. xx BBls, 3 BBl Injection Test, Haico Cement 40 Sxs, 12.5# 12.0 Yield, 12.9 Gal/Sk Water Slurry @ 18.1 BBls  
Displace W/7.4 BBls Water, TOOH 4 Stands, Rev Circ 16 BBls, Block Squeeze 10.3 BBls Held 700 PSI, RD Halliburton, TOOH, WOC  
Schlumberger scheduled to run usir logs 0900 9/13/10

WO Loggers, RU / RUN IBC Log, Nipple Up BOP, RU Schlumberger Loggers - Run IBC Logs, WO Perf Truck, Perf Casing  
9/30/89 @ 700'-702' / 810'-812' / 890'-892', RU Retainer, TIH, Set Retainer, TOOH, XO Stinger, TIH, 24 BBL Injection Test

Retainer @ 870' Circulation Squeeze, 50 Sxs, of 15.8#, 1.15 Yield, 4.97 Gal/Sk Slurry Of 10.2 BBls - Partial Returns, Trip Out 3 Sids  
Reverse Circ 24 BBls, Pump Injection Rate w/ 36 BBls H2O no Returns, Pump Lead Cement, 225 Sxs 12.5#, 1.95 Yield, 10.88  
Gal/Sk Water, Slurry Of 78.1 BBls, Displace W/ 12.5 BBls H2O, Partial Returns By End Of Cement Job, Leave Pipe Shut In 4 Hrs,  
Open Bag, TOOH, LD Stinger, WOC, TIH, Drill Out Cement / Retainer

Squeeze Cement - Squeeze 6 BBls 17 sxs 12.5# 1.97 Yield, 10.85 Gal/Sk, pressure up to 1100 psi and held, Bleed off pressure  
at 394' 6 BBl Slurry, 17 Sxs of Same As above, Pull out to 273', Circulate, WOC, Run 1" Tubing In Tag @ 354', Cement @ 350'  
With 11 BBls, 31.4 Sxs Same as Above Cement, Pull 1" Out to 149', Circ, WOC, Run 1" Tubing Into 164' Tag Top of Cement  
Cement @ 149', 18.5 BBl Slurry, 52.7 Sxs With Same As Above Cement, 4 Bbls Cement Circulated To Surface, Rig Down  
Halliburton Cementers