
BILL BARRETT CORPORATION E-BILL

Dow-Laura 3-28

Garfield County , Colorado

Plug to Abandon Service

10-Dec-2013

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2367804	Quote #:	Sales Order #: 900957011
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lyons, Ed	
Well Name: Dow-Laura	Well #: 3-28	API/UWI #: 05123210000000	
Field:	City (SAP): KERSEY	County/Parish: Garfield	State: Colorado
Legal Description: Section 28 Township 5N Range 63W			
Contractor: Workover		Rig/Platform Name/Num: Workover	
Job Purpose: Plug to Abandon Service			
Well Type: Development Well		Job Type: Plug to Abandon Service	
Sales Person: GREGORY, JON		Srvc Supervisor: MCBRIDE, NATHAN	MBU ID Emp #: 313810

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CONGDON, RICHARD S.	8.0	320306	MARKOVICH, STEVEN Michael	16.0	502964	MCBRIDE, NATHAN Charles	8.0	313810
TAUILILI, SAIAGA	16.0	545471						

Equipment

HES Unit #	Distance-1 way						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/7/13	5	2	12/9/13	7	2	12/10/13	9	5
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	07 - Dec - 2013	07:30	MST
Form Type			BHST	On Location	07 - Dec - 2013	13:00	MST
Job depth MD	5900. ft		Job Depth TVD	Job Started	07 - Dec - 2013	10:45	MST
Water Depth			Wk Ht Above Floor	Job Completed	10 - Dec - 2013	17:30	MST
Perforation Depth (MD)	From		To	Departed Loc	10 - Dec - 2013	00:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
4-1/2" Casing	Unknown		4.5	4.	11.6				7227.		
2-7/8" Tubing	Used		2.875	2.469	6.45				5807.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
Stage/Plug #: 1										

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Squeeze#1 Plug#1	HALCEM (TM) SYSTEM (452986)	36.0	sacks	15.8	1.36	5.66	2.0	5.66
	5.66 Gal	FRESH WATER							
2	SQUEEZE #2 PLUG#2	SQUEEZECEM (TM) SYSTEM (452971)	66.0	sacks	15.8	1.15	4.97	2.0	4.97
	4.97 Gal	FRESH WATER							
3	SQUEEZE #3 PLUG #3	SQUEEZECEM (TM) SYSTEM (452971)	150.0	sacks	15.8	1.15	4.97	2.0	4.97
	4.97 Gal	FRESH WATER							
4	SQUEEZE #3 PLUG #4	HALCEM (TM) SYSTEM (452986)	24.0	sacks	15.8	1.15	4.97	2.0	4.97
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	0.2 %	HR-5, 50 LB SK (100005050)							
	4.97 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns	0	Cement Slurry	48.5	Pad	
Top Of Cement	0	5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2		
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 2367804	Quote #:	Sales Order #: 900957011
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Lyons, Ed	
Well Name: Dow-Laura	Well #: 3-28	API/UWI #: 05123210000000	
Field:	City (SAP): KERSEY	County/Parish: Garfield	State: Colorado
Legal Description: Section 28 Township 5N Range 63W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Workover		Rig/Platform Name/Num: Workover	
Job Purpose: Plug to Abandon Service			Ticket Amount:
Well Type: Development Well		Job Type: Plug to Abandon Service	
Sales Person: GREGORY, JON		Srvc Supervisor: MCBRIDE, NATHAN	MBU ID Emp #: 313810

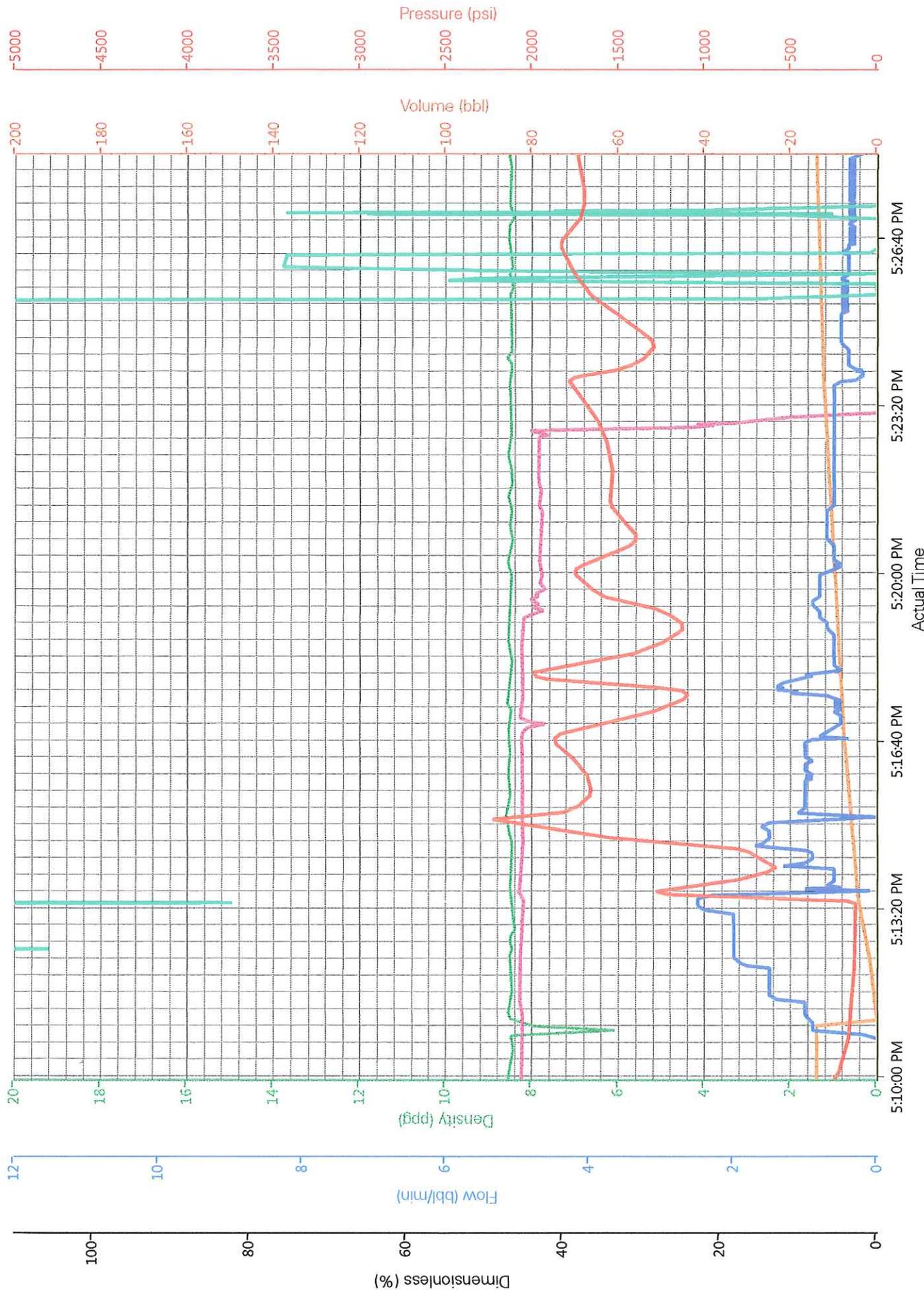
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	12/07/2013 13:00							Pump truck on location @ a 1230 SS on location @ 1300
Assessment Of Location Safety Meeting	12/07/2013 13:05							
Pre-Rig Up Safety Meeting	12/07/2013 13:10							
Comment	12/07/2013 13:53							Rig starting to Run in with Retainer/Perferating
Rig-Up Equipment	12/07/2013 13:53							
Rig-Up Completed	12/07/2013 13:53							Finish Rigging as far as possible. Wait on 3rd party activities to finish.
Pre-Job Safety Meeting	12/07/2013 13:53							
Casing on Bottom	12/07/2013 16:10							
Start Job	12/07/2013 16:58							
Pump Water	12/07/2013 17:06		2	2				
Test Lines	12/07/2013 17:13						4000.0	
Comment	12/07/2013 17:31							During injection test. Communication occurred between tbg and annulus above retainer.
Crew Leave Location	12/07/2013 18:00							Released @ 1800 to return tomorw. Equipment to stay on location.
Arrive At Loc	12/09/2013 08:30							Requested on location was 1200
Wait on Orders - Start Time	12/09/2013 12:00							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	12/09/2013 14:00		0.5	35	37		800.0	Pump Retainer into position on wireline
Pressure Test	12/09/2013 14:54							Test Retainer 1000psi for 4 minutes final pressure 1140
Comment	12/09/2013 15:00							Crew Released from location to return RTP @ 0830
Crew Leave Location	12/09/2013 15:45							
Arrive at Location from Service Center	12/10/2013 09:45							
Assessment Of Location Safety Meeting	12/10/2013 09:50							
Pre-Job Safety Meeting	12/10/2013 10:30							
Start Job	12/10/2013 10:47							
Pressure Up	12/10/2013 10:51						415.0	Pressured up Backside
Test Lines	12/10/2013 11:00			2	39	3500.0		Filled Lines with 2 bbl Water. Pressure did not hold. No Leaks on Surface. Customer requested go ahead with job.
Establish Rate	12/10/2013 11:11		2	6	45	1540.0		Injection Test. Pumping through Retainer @ 5807' and Perfs @ 5900'
Pump Cement	12/10/2013 11:33		2	9	54	1340.0		36 sacks of HalCem mixed @ 15.8ppg, Yeild 1.36 ft3/sk, Water Requirement 5.66 gal/sk
Pump Displacement	12/10/2013 11:38		1	21	75	550.0		Calculated Displacement was 22 bbl. Left one bbl cement in Tubing to fall out on top of retainer. (Aprox. 64')
Shutdown	12/10/2013 12:04					350.0		Rlg unstung from Retainer. Pressure fell to 0 PSI.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Wait on Customer or Customer Sub-Contractor Equip	12/10/2013 12:05							Rig Pulled Tubing out of Well. Rigged up Wireline to Shoot next Perfs. Shot Perfs and Rigged down Wireline. Rig ran Mechanical Packer on Tubing and Set. Had to Change Surface casing valve before next stage could be started.
Wait on Customer or Customer Sub-Contractor Equipm	12/10/2013 15:15							
Pressure Up	12/10/2013 15:26						125.0	Pressured up Backside
Establish Rate	12/10/2013 15:32							Injection Test. Unable to Pump. Pressured up and held. Tool hand adjusted tubing position.
Establish Rate	12/10/2013 15:40		2	4	79	80.0		Injection Test. Pumping through Retainer @ 650' and Perfs @ 750'
Pump Cement	12/10/2013 16:01		2	13.5	92.5	63.0		66 sacks SqueezeCem mixed @ 15.8ppg, Yeild 1.15 ft3/sk, Water Requirement 4.97 gal/sk
Pump Displacement	12/10/2013 16:09		2	1.5	94	80.0		Calculated Displacement was 2.5 bbl. Left one bbl cement in Tubing to fall out on top of retainer. (Aprox. 64')
Shutdown	12/10/2013 16:10							
Wait on Customer or Customer Sub-Contractor Equip	12/10/2013 16:11							Rig Pulled Tubing out of Well. Rigged up Wireline to Shoot next Perfs. Shot Perfs and Rigged down Wireline. Rig ran Mechanical Packer on Tubing and Set. Had to Change Surface casing valve before next stage could be started.
Wait on Customer or Customer Sub-Contractor Equipm	12/10/2013 17:10							
Establish Rate	12/10/2013 17:13		2	4	98			Injection Test. Pumping through Retainer @ 422' and Perfs @ 322'
Pump Cement	12/10/2013 17:21		2	26	129			126sacks SqueezeCem mixed @ 15.8ppg, Yeild 1.15 ft3/sk, Water Requirement 4.97 gal/sk

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	12/10/2013 17:34							24sacks PlugCem mixed @ 15.8ppg, Yeild 1.15 ft3/sk, Water Requirement 4.97 gal/sk. Did not use as second Plug. Mixed it up and pumped it as top off Cement
Pump Displacement	12/10/2013 17:40		2	0.5	129.5			Calculated Displacement was 1.3 bbl. Left one bbl cement in Tubing to fall out on top of retainer. (Aprox. 64')
End Job	12/10/2013 17:45							Rig Pulled remaining Tubing from Hole
Pre-Rig Down Safety Meeting	12/10/2013 18:00							
Depart Location for Service Center or Other Site	12/10/2013 18:30							

Final Chart



DH Density (ppg) Recirc Density (ppg) Pump Stg Tot (bbl) Comb Pump Rate (bbl/min) Mix Water Rate (bbl/min) PS Pump Press (psi) Cmrt Valve Psn (%) Water Valve Psn (%)

Final Chart

