

**SYNERGY RESOURCES CORPORATION
20203 HIGHWAY 60
PLATTEVILLE, Colorado**

Phelps 11-32NHZ

Ensign 17

Post Job Summary **Cement Production Liner**

Date Prepared: 11/30/2013
Version: 1

Service Supervisor: WHIPPLE, WESLEY

Submitted by: TRIER, DEREK

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,920.00
Open Hole Section	6-1/8" Open Hole		6.125		7,920.00	12,054.00
Casing	Production Liner	4.50	4.000	11.60	7,625.00	12,054.00
Drill Pipe	Drill Pipe	4.00	3.340	14.00	0.00	7,625.00

HALLIBURTON

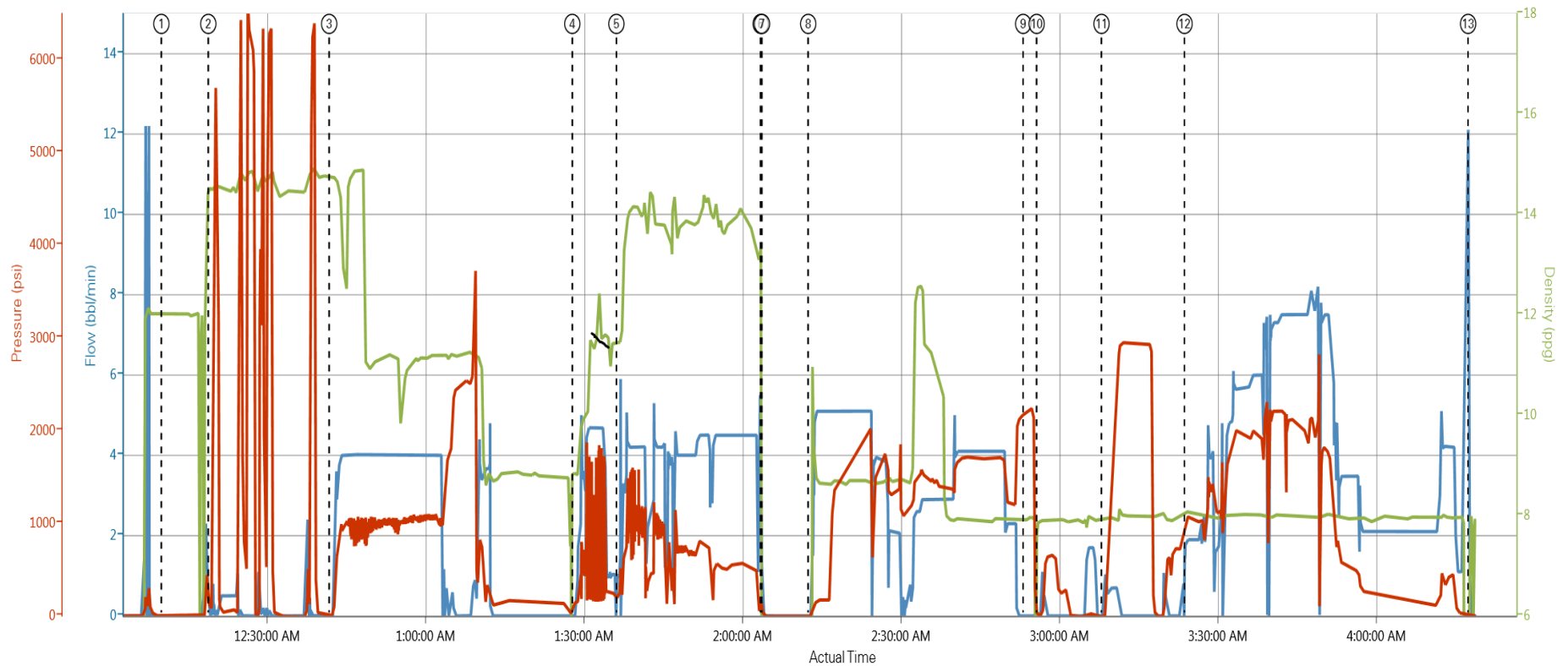
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Clean Spacer III	11.50	4.00	23.50 bbl	23.50 bbl
1	2	Cement Slurry	ExpandaCem	13.80	4.50	280.0 sacks	280.0 sacks
1	4	Spacer	Clean Spacer III	11.50	3.00	6.50 bbl	6.50 bbl
1	5	Spacer	2% KCL Displacement	8.33	4.00	67.75 bbl	67.75 bbl

HALLIBURTON

Data Acquisition

SYNERGY PHELPS 11-32NHZ LINER



DH Density (bbl/min) Comb Pump Rate (ppg) PS Pump Press (psi)

① Start Job 0;12.08;-3 ④ Pump Spacer 1;0.8.84;148 ⑦ Drop Top Plug 0;0.2;-2 ⑩ Other 0;7.94;-7 ⑬ End Job 0;8.05;30
 ② Test Lines 0;14.52;86 ⑤ Pump Cement 1;11.47;256 ⑧ Pump Displacement 0;0.14;-7 ⑪ Other 0;7.92;-10
 ③ Other 0;14.8;3 ⑥ Shutdown 0;0.25;14 ⑨ Bump Plug 0;7.92;2199 ⑫ Clean Hole 1.9;8.11;1100

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
11/26/2013 11:30		Call Out							CREW CALLED OUT FROM COORDINATOR OFFICE @
11/26/2013 15:20		Arrive At Loc							CREW ARRIVED ON LOCATION, ADVISED BY COMPANY REP THAT RIG WAS STILL RUNNING DRILL PIPE INTO HOLE.
11/26/2013 20:50		Safety Meeting							CREW HELD A PRE JOB SAFETY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND PROCEDURES.
11/26/2013 21:00		Rig-Up Equipment							CREW HELD A PRE RIG UP SAFETY HUDDLE AND PERFORMED HAZARD HUNT. COMMENCED RIG UP OF IRON AND SPOTTING OF PUMPING AND BULK EQUIPMENT. CASING ON BOTTOM @ 2050
11/26/2013 23:45		Drop Ball							WEATHERFORD TOOL HAND DROPPED BALLS INTO FREEFALL
11/27/2013 00:09		Start Job							
11/27/2013 00:18		Test Lines							PRESSURE TESTED PUMPS AND LINES TO 6000PSI. 1" VALVE ON FLOOR FAILED PRESSURE TEST. REPLACED AND PROCEEDED TO PRESSURE TEST. FOUND NO LEAKS AND PRESSURE HELD
11/27/2013 00:42		Pump Ball	4					980.0	PUMPED BALL DOWN
11/27/2013 01:04		Ball on Seat						1150.0	SEATED BALL
11/27/2013 01:08		Other						3750.0	BLEW BALL SEAT
11/27/2013 01:27		Pump Spacer 1	4					400.0	MIXED AND PUMPED 23.5BBLs OF CLEAN SPACER @ 11.5PPG
11/27/2013 01:35		Pump Cement	4.5					570.0	MIXED AND PUMPED 280 SKS OF EXPANDACEM @ 14.4 PPG
11/27/2013 02:02		Shutdown							
11/27/2013 02:03		Drop Top Plug							WEATHERFORD TOOL HAND DROPPED PLUG FROM CEMENT HEAD. HES SUPERVISOR WITNESSED PLUG LEAVE CEMENT HEAD
11/27/2013 02:11		Pump Displacement	4					1870.0	PUMPED 67.75BBLs OF KCL DISPLACEMENT. AT 69BBLs PLUG LATCHED UP, PUMPED REMAINING 6.5BBLs OF CLEAN SPACER @ 11.5PPG.
11/27/2013 02:52		Bump Plug						2404.0	BUMPED PLUG 500PSI OVER FINAL PUMPING PRESSURE
11/27/2013 02:55		Check Floats						2404.0	RELEASE PRESSURE BACK TO PUMP TRUCK, FLOATS HELD AND RECEIVED 1 BBL BACK
11/27/2013 02:58		Set Packer							STING OUT AND SET PACKERS
11/27/2013 03:07		Other						2900.0	PRESSURED UP ON THE BACK SIDE @ 2900 FOR 5 MIN
11/27/2013 03:16		Other	6					2500.0	RELEASED PRESSURE BACK TO PUMP TRUCK
11/27/2013 03:23		Clean Hole							PUMPED KCL WATER TO CLEAN OUT HOLE
11/27/2013 04:16		End Job							

The Road to Excellence Starts with Safety

Sold To #: 359915		Ship To #: 3117319		Quote #:		Sales Order #: 900923796	
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Gentry, Ron			
Well Name: Phelps			Well #: 11-32 NHZ		API/UWI #:		
Field: EATON		City (SAP): LOCHBUIE		County/Parish: Weld		State: Colorado	
Contractor: Ensign			Rig/Platform Name/Num: Ensign 17				
Job Purpose: Cement Production Liner							
Well Type: Development Well				Job Type: Cement Production Liner			
Sales Person: PLIENESS, RYAN			Srvc Supervisor: WHIPPLE, WESLEY			MBU ID Emp #: 518611	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MAYFIELD, BYRON L	14.7	528751	NIELSON, BRANDON K	14.7	479703	ROBINSON, TROY	14.7	77771
WHIPPLE, WESLEY Morgan	14.7	518611						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036295	20 mile	11410470C	20 mile	12010172	20 mile	53301	20 mile

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	26 - Nov - 2013	11:30	MST
Job depth MD	12050. ft		Job Depth TVD	7300. ft	27 - Nov - 2013	00:09	MST
Water Depth			Wk Ht Above Floor	20. ft	27 - Nov - 2013	04:16	MST
Perforation Depth (MD)	From		To	Departed Loc	27 - Nov - 2013	06:00	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
6-1/8" Open Hole				6.125				7920.	12054.		
Intermediate Casing	Unknown		7.	6.276	26.			.	7920.		
Production Liner	Unknown		4.5	4.	11.6			7625.	12054.		
Drill Pipe	Unknown		4.	3.34	14.			.	7625.		

Fluid Data

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
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1	Clean Spacer III		23.50	bbl	11.5	2.63	15.07	4.0	
2	ExpandaCem	EXPANDACEM (TM) SYSTEM (452979)	280.0	sacks	13.8	1.68	7.74	4.5	7.74
	7.74 Gal	FRESH WATER							
4	Clean Spacer III		6.50	bbl	11.5	2.63	15.07	2.0	
	42 gal/bbl	CLEANSPOACER III (719269)							
	1.733333 lbm/bbl	SA-1015, 50 LB SACK (102077046)							
	213.483333 lbm/bbl	SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)							
5	2% KCL Displacement		67.75	bbl	8.33			4.0	
Calculated Values		Pressures		Volumes					
Displacement	67.75	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	Yes	Actual Displacement	67.75	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
The Information Stated Herein Is Correct				Customer Representative Signature					

