

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

Phelps
Phelps 11-32NHZ

Ensign/ Ensign/17

Post Job Summary **Cement Conductor Casing**

Version: 1

Service Supervisor: WHIPPLE, WESLEY

Submitted by: MCKAY, ADAM

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Open Hole Section	Open Hole		17.000		0.00	210.00
Casing	Surface Casing	13.38	12.715	48.00	0.00	190.00

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	0.00	5.0 bbl	5.0 bbl
1	2	Cement Slurry	SwiftCem B2	13.40		90.0 sacks	90.0 sacks
1	3	Spacer	Displacement	8.33	0.00	27.0 bbl	27.0 bbl
1	4	Cement Slurry	Top Out Cement	15.80			27.0 bbl

HALLIBURTON

Job Summary

Job Information

Job Start Date	11/10/2013	Time From End Mud Circ. to Job Start	10.00 minute
Job MD	210.0 ft	Pipe Movement During Cementing	None
Job TVD	210.0 ft	Calculated Displacement	27.16 bbl
Height of Plug Container/Swage Above Rig Floor	2.0 ft	Amount of Cement Returns	20.00 bbl
Surface Temperature at Time of Job	40 degF	Job Displaced by (rig/halco)	Cement Unit HP Pumps
Mud Type	Water Based Mud	Annular flow Before Job? (Water/Gas)	Unknown
Actual Mud Density	9 lbm/gal	Annular flow After Job? (Water/Gas)	Unknown
Time Circulated before job	1.00 hour(s)	Length of Rat Hole	17.00 ft
Rate at Which Well was Circulated	5.600 bbl/min		
Pipe Movement During Hole Circulation	None		

Cementing Equipment

Number of Centralizers Used	3	Plug set used?	Unknown
Pipe Centralization	Through Entire Cement Column	Did Plugs Bump?	No
Did Float Equipment Hold?	Unknown	Calculated Pressure to Bump Plugs	45.6 psig
		Did Stage Cementing Tool Open Properly?	Unknown

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
11/10/2013 18:30		Call Out						CREW CALLED OUT @ 1830
11/10/2013 21:00		Crew Leave Yard						CREW PRE TRIPPED EQUIPMENT AND HELD A PRE JOURNEY SAFETY MEETING PRIOR TO LEAVING YARD
11/10/2013 21:20		Arrive At Loc						ARRIVED ON LOCATION, AND MET WITH COMPANY REP TO DISCUSS JOB
11/10/2013 23:30		Casing on Bottom						CASING ON BOTTOM @2330
11/10/2013 23:50		Rig-Up Equipment						HELD A PRE RIG UP SAFETY HUDDLE AND PERFORMED A HAZARD HUNT. SPOTTED PUMPING AND BULK EQUIPMENT AND COMMENCED RIG UP OF IRON.
11/11/2013 00:20		Safety Meeting						HELD A PRE JOB SAFETY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS AND PROCEDURES
11/11/2013 00:37		Test Lines						PRESSURE TESTED PUMPS AND LINES TO 1500PSI, FOUND NO VISABLE LEAKS AND PRESSURE HELD GOOD
11/11/2013 00:40		Pump Spacer 1	1	5			11.0	PUMPED 5BBL FRESH WATER SPACER WITH RED DYE ADDITIVE.
11/11/2013 00:45		Pump Cement	2.8	28.69			29.0	MIXED AND PUMPED 90SKS OF SWIFTCEM @ 13.4PPG
11/11/2013 00:54		Shutdown						
11/11/2013 01:01		Drop Top Plug						DROPPED TOP PLUG , WITNESSED BY COMPANY REP
11/11/2013 01:02		Pump Displacement	2.8	27.16			41.0	PUMPED FRESHWATER FROM LAYDOWN TANK, RECIEVED 20 BBLS OF CEMENT TO SURFACE
11/11/2013 01:14		Shut In Well					60.0	SHUT PRESSURE IN ON WELL AT 60PSI AS PER COMPANY REP FOR APROX 6-8 HRS. LEFT A 2INCH STOP VALVE ON RIG SWEDGE.
11/11/2013 01:17		End Job						
11/11/2013 03:40		Start Job						

The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3117319	Quote #:	Sales Order #: 900890629
Customer: SYNERGY RESOURCES CORPORATION		Customer Rep: Pouling, Dave	
Well Name: Phelps		Well #: 11-32NHZ	API/UWI #: 05-123-37687
Field: WATTENBERG	City (SAP): LOCHBUIE	County/Parish: Weld	State: Colorado
Lat: N 40.01 deg. OR N 40 deg. 0 min. 36.299 secs.		Long: W 104.792 deg. OR W -105 deg. 12 min. 27.63 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Ensign 17	
Job Purpose: Cement Conductor Casing			
Well Type: Development Well		Job Type: Cement Conductor Casing	
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 #
NIELSON, BRANDON K	4.7	479703	SCILEPPI, JOSEPH Dean	4.7	555492	WHIPPLE, WESLEY Morgan	4.7	518611

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	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

TOTAL	Total is the sum of each column separately							
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Job

Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	10 - Nov - 2013	18:30 MST
Form Type		BHST			On Location	10 - Nov - 2013	21:20 MST
Job depth MD	210. ft	Job Depth TVD	210. ft		Job Started	10 - Nov - 2013	00:00 MST
Water Depth		Wk Ht Above Floor	2. ft		Job Completed	10 - Nov - 2013	00:00 MST
Perforation Depth (MD)	From		To		Departed Loc		

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
Open Hole				17.				.	210.		
Surface Casing	Unknown		13.375	12.715	48.		J-55	.	190.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
MILEAGE FOR CEMENTING CREW,ZI	10	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	10	MI		
SHOE,FLT,TROPHY SEAL,13-3/8 BTC	1	EA		
PLUG,CMTG,TOP,13 3/8,HWE,11.79 MIN/12.72	1	EA		
Description	Qty	Qty uom	Depth	Supplier
BASKET - CEMENT - 13-3/8 CSG X 17-1/2	1	EA		

COLLAR-STOP-9 5/8"-FRICTION-HINGED	1	EA		
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4	2	EA		
CENTRALIZER-13 3/8"-CSG-17 1/2"-HINGED	3	EA		

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
1	Fresh Water Spacer		5.00	bbl	8.33			1	
2	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	90.0	sacks	13.4	1.79	9.51	3	9.51
	0.25 lbm	POLY-E-FLAKE (101216940)							
	9.51 Gal	FRESH WATER							
3	Displacement		27.00	bbl	8.33			3	
4	Top Out Cement	HALCEM (TM) SYSTEM (452986)		sacks	15.8	1.15	4.99		4.99
	4.989 Gal	FRESH WATER							

Calculated Values

Pressures

Volumes

Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	

Rates

Circulating		Mixing		Displacement		Avg. Job	
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
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