

ANADARKO PETROLEUM CORP - EBUS
DO NOT MAIL - PO BOX 4995
THE WOODLANDS, Texas

Helen E. Karich
Helen E. Karich Unit #1

Basic

Post Job Summary **Squeeze Perfs**

Prepared for: John Strahan
Date Prepared: 8/20/2010
Version: 1

Service Supervisor: CONGDON, RICHARD

Submitted by: Mark Sauter

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 2800699		Quote #:		Sales Order #: 7573558	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Webb, Larry			
Well Name: Helen E. Karich			Well #: Unit #1			API/UWI #: 05-123-07851-00	
Field: WATTENBERG		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Legal Description: Section NENE32 Township 3N Range 66W							
Lat: N 40.185 deg. OR N 40 deg. 11 min. 7.548 secs.				Long: W 104.796 deg. OR W -105 deg. 12 min. 14.58 secs.			
Contractor: Basic			Rig/Platform Name/Num: .				
Job Purpose: Squeeze Perfs							
Well Type: Producing Well			Job Type: Squeeze Perfs				
Sales Person: FLING, MATTHEW			Srvc Supervisor: CONGDON, RICHARD			MBU ID Emp #: 320306	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CONGDON, RICHARD S.	2.5	320306	MAHONEY, KELLAN Carl	2.5	476531	MILLER, GEOFFREY Alan	2.5	460232
WILEY, JAMES A	2.5	440080						

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
8/17/10	2.5	1						

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	17 - Aug - 2010	06:30 MST
Form Type	BHST				On Location	17 - Aug - 2010	16:30 MST
Job depth MD	4600. ft		Job Depth TVD	4600. ft	Job Started	17 - Aug - 2010	17:13 MST
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	17 - Aug - 2010	18:02 MST
Perforation Depth (MD)	From	900.00 ft	To	901.00 ft	Departed Loc	17 - Aug - 2010	19:00 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
Perforation Interval								4600.	4601.	.	.
Production Casing	Used		4.5	4.052	10.5			.	8009.	.	8009.
Tubing	Used		2.375	1.995	4.6			.	4300.	.	.

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
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1	Squeeze Cement	POZ PREMIUM 50/50 - SBM (12302)	210.0	sacks	13.2	1.6	7.95	3.0	7.95
	0.3 %	HALAD(R)-322, 50 LB (100003646)							
	10 %	SALT, 100 LB BAG (100003652)							
	7.95 Gal	FRESH WATER							
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	50.0	sacks	15.8	1.15	5.0	3.0	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	5 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	21	Shut In: Instant		Lost Returns		Cement Slurry	70	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	21	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	101
Rates									
Circulating	2	Mixing	3	Displacement	3	Avg. Job	3		
Cement Left In Pipe	Amount	50 ft	Reason	CUSTOMER REQUEST					
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					

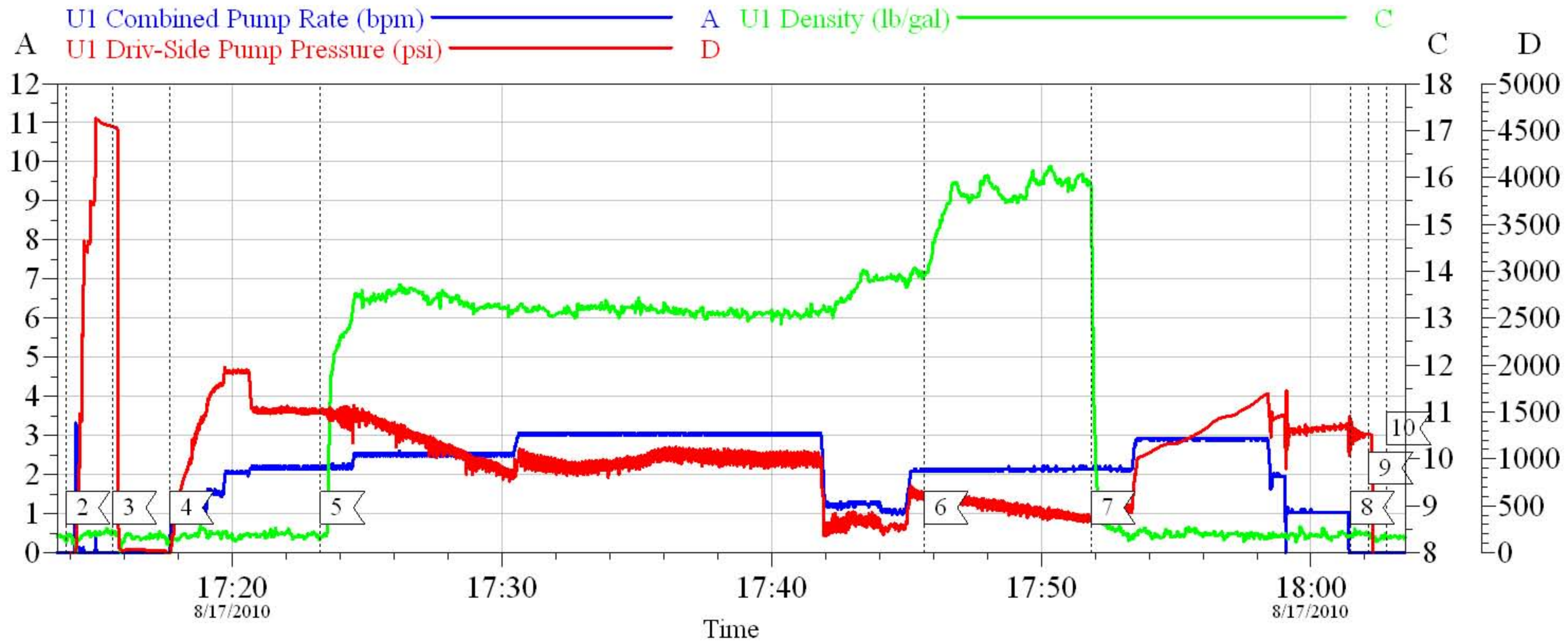
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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Other Job or Site	08/17/2010 16:30							ASSESED LOCATION. RIGGED UP, UPWIND OF RETURNS TANK
Start Job	08/17/2010 17:13							HELD PRE-JOB SAFETY MEETING WITH RIG CREW
Test Lines	08/17/2010 17:15					4543.0		
Pump Spacer 1	08/17/2010 17:17		2	10	10	1914.0		FRESH WATER TO ESTABLISH RATE AND/OR CIRCULATION
Pump Lead Cement	08/17/2010 17:23		3	60	70	1499.0		210 SACKS 50/50 POZ MIXED @13.2PPG WITH FRESH WATER
Pump Tail Cement	08/17/2010 17:45		2	10	80	644.0		50 SACKS NEAT CEMENT MIXED @15.8PPG WITH FRESH WATER
Pump Displacement	08/17/2010 17:51		3	21	102	349.0		FRESH WATER TO DISPLACE CEMENT 255' BELOW PACKER SET@ 4295' OR 50' ABOVE TOP PERFS @ 4600'
Shutdown	08/17/2010 18:01					1213.0		ISIP
Shut In Well	08/17/2010 18:02					1259.0		LEFT WELL SHUT IN WITH 2 3/8" TUBING SWAGE AND 2" LO-TORQUE VALVE"
End Job	08/17/2010 18:02							RIG DOWN TO DEPART LOCATION

ANADARKO (SQUEEZE)

HELEN E. KARICH UNIT #1



Global Event Log

Intersection			UCPR	UD	UDPP	Intersection			UCPR	UD	UDPP
2	Start Job	17:13:49	0.000	8.272	-0.977	3	Test Lines	17:15:33	0.000	8.402	4543
4	Fresh Water	17:17:40	0.000	8.229	0.000	5	13.2ppg 50/50 Poz	17:23:16	2.150	8.344	1499
6	15.8ppg Neat	17:45:40	2.085	13.92	643.9	7	Water Displacement	17:51:51	2.150	15.80	348.8
8	Shutdown	18:01:28	0.000	8.359	1213	9	Shut In Well	18:02:10	0.000	8.406	1259
10	End Job	18:02:49	0.000	8.330	-31.27						

Customer:
Well Description:

Job Date: 17-Aug-2010
UWI:

Sales Order #: 7573558

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17-Aug-10 18:12