### Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 340078 Ship To #: 2947485 Quote #: Sales Order #: 9785611 Customer: ENCANA OIL & GAS (USA) INC. - EBUS Customer Rep: Willson, Rodney Well Name: Kerr 1V Well #: 1 SWD API/UWI #: 15-135-25442 Field: City (SAP): NESS CITY County/Parish: Ness State: Kansas Legal Description: Section 1 Township 20S Range 15W Contractor: Precision Rig/Platform Name/Num: Job Purpose: Cement Intermediate Casing Well Type: Development Well Job Type: Cement Intermediate Casing Sales Person: DAIGLE, COLTER MBU ID Emp #: 371263 Srvc Supervisor: CARRILLO. EDUARDO Job Personnel Exp Hrs **HES Emp Name HES Emp Name** Emp# Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# LUNA, JOSE A CARRILLO, 11 371263 11 480456 NORTON, BRUCE 11 499926 EDUARDO Carrillo Wayne Equipment HES Unit # Distance-1 way **HES Unit #** Distance-1 way **HES Unit #** Distance-1 way **HES Unit #** Distance-1 way 10744298C 10240245 165 mile 165 mile 10988832 165 mile 11133699 165 mile 11748315 165 mile Job Hours On Location Date Operating Date On Location Operating On Location Operating Date Hours Hours Hours Hours Hours Hours 9/02/2012 11 4 TOTAL Total is the sum of each column separately Job **Job Times** Formation Name Date Time Time Zone Formation Depth (MD) Top 02 - Sep - 2012 03:00 **Bottom** Called Out CST BHST 02 - Sep - 2012 10:00 CST Form Type On Location 02 - Sep - 2012 4951. ft Job depth MD Job Depth TVD 4951. ft 13:00 CST Job Started Water Depth Wk Ht Above Floor 02 - Sep - 2012 13:30 GMT 4. ft Job Completed Perforation Depth (MD) From Departed Loc 02 - Sep - 2012 14:30 CST То Well Data Weight Description New / Max Size ID Thread Top MD Grade **Bottom** Top **Bottom** Used pressure lbm/ft MD **TVD TVD** in in ft psig ft ft ft Intermediate 8.5 4900. 4620. Open Hole Intermediate 8.75 1600. 4620. Open Hole Intermediate Unknow 7. 6.366 23. N-80 4897. 3000. Casing n Surface Casing Unknow 9.625 8.921 36 J-55 1600. Sales/Rental/3rd Party (HES) Description Qty Qty uom Depth Supplier PLUG, CMTG, TOP, 7, HWE, 5.66 MIN/6.54 MAX CS 1 EA SUGAR - GRANULATED 100 LB **Tools and Accessories** Type Size Qtv Make Depth Type Size Qtv Make Depth Type Size Make Qty **Guide Shoe** Packer Top Plug 7: Н 1 Float Shoe Bridge Plug **Bottom Plug** Float Collar Retainer SSR plug set Plug Container Insert Float 7' 1 Н

Centralizers

0 1 0 1 0 0010 00 00

Stage Tool

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						Misco	ellane	ous Mat	erials						
Gelling Agt			Conc Surfactant				Conc Acid Type			Qty	Co	nc %			
Treatment Fld		Conc Inhibitor				Conc Sand Type		d Type		Size	Qty	/			
							Flui	d Data							
St	age/Plug	#: 1													
Fluid #	J		Fluid Name				Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/s			Total Mix Fluid Gal/sk	
1	Lead Cement MIDCON-2 CEMENT STANDARD - SBI (15078)			- SBM	60.0	sacks	11.4	2.89	17.84	17.84 17.84		7.84			
	0.25 lbm		POLY	-E-FLAKE (1	012169	40)									
	17.838 Ga	l	FRES	H WATER											
2 Standard			CMT - STANDARD CEMENT (100003684)				100.0	sacks	15.6 1.18		5.2	5.3		5.2	
	94 lbm		CMT.	- STANDARD	- CLAS	SS A REC	3 OR T	YPE I, B	JLK (10	0003684)					
	0.25 lbm		POLY	-E-FLAKE (1	012169	940)									
	5.204 Gal		FRES	H WATER											
3	Water Ba Mud (TBC)							0.00	bbl	-	.0	.0	.0		
Ca	alculated '	Values	3	Pres	sures					V	<b>olumes</b>	•			
Displa	cement	187	7 <b>S</b>	hut in: insta	nt	Lost Re		turns	0	Cement Slurry		5	2 Pad		
Top O	f Cement	367	5 <b>5</b>	Min		Cemer		Returns	0	Actual Displacem		nent 1	78 Treat	ment	
Frac G	iradient		1:	5 Min	Spacer				0	Load and	Breakdo	own	Total	Job	230
·							R	ates							
	lating	6		Mixing		6		Displac	ement		<u> </u>	Avg.	Job	6	) 
	ent Left In		Amo		Reason					( )				Т.	
Frac	Ring # 1 @		ID	Frac ring	#2@	۵۱		Frac Rin			D	Frac Rii	ng # 4 @		D
TI	ne Inform	ation	State	ed Herein I	s Con	rect	Custom	er Represe	entadive Si	gnature					

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2947485	Quote #:	Sales Order #: 9785611				
Customer: ENCANA OIL 8	& GAS (USA) INC EBUS	Customer Rep: W	illson, Rodney	_			
Well Name: Kerr 1V	Wel	I#: 1 SWD	API/UWI #: 15-135-25442	_			
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas				
Legal Description: Section	n 1 Township 20S Range	15W					
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: Precision	Rig/Platfor	m Name/Num: 209		_			
Job Purpose: Cement Inte	ermediate Casing		Ticket Amount:				
Well Type: Development V	Well Job Type:	Cement Intermediate Casing					
Sales Person: DAIGLE, Co	OLTER Srvc Supe EDUARDO	rvisor: CARRILLO,	MBU ID Emp #: 371263				
	EDUARDO						

Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl		Pressure psig		Comments	
		#	******	Stage	Total	Tubing	Casing		
Call Out	09/02/2012 03:00							Dispach Called Cement Crew Out For Encana Oil Job On Well Kerr 1V # 1SWD. A 7' Intermediate Casing	
Other	09/02/2012 05:30							Loading Equipment.	
Pre-Convoy Safety Meeting	09/02/2012 06:15							Discussed All Routs To Take And Hazards On The Road. Discussed All Stops.	
Arrive At Loc	09/02/2012 09:35								
Assessment Of Location Safety Meeting	09/02/2012 09:40							Rig Was Runing Casing In Hle	
Other	09/02/2012 09:50							Got Numbers From Customer Rep // TD = 4950 // TP = 4951 // SJ = 43.87 // Displacment = 187 BBLS	
Pre-Rig Up Safety Meeting	09/02/2012 10:00							Discussed All Red Zones Were To Spot In Equipment And Run Lines. Have Spoter At All Times. Whent Over JSA.	
Rig-Up Completed	09/02/2012 11:00								
Wait on Customer or Customer Sub-Contractor Equip	09/02/2012 11:05							Wating On Rig.	
Other	09/02/2012 16:30							Casing At Bottom	
Activity Description			Rate bbl/ min	Volume bbl		Pressure psig		Comments	

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		#		Stage	Total	Tubing	Casing	
Other	09/02/2012 16:35							Rig Circulating Customer Rep Said Theye Were Going To Circulat For 1 HR.
Pre-Job Safety Meeting	09/02/2012 17:00							Discussed Job Step With All On Location Whent Over Numbers With Customer Rep Pumping Rates And PSI. Had Rig Hands Sign Safety Sheet. Customer Rep Said To Pump At 6 To 6 1/2 BPM.
Start Job	09/02/2012 17:26		<u> </u>					
Test Lines	09/02/2012 17:28						4000. 0	Test Lines @ 4000 PSI. Heal For 1 Min.
Pump Lead Cement	09/02/2012 17:33		5	31	31		300.0	Pumped 60 SKS CMT @ 11.4 PPG // 60 = 31 BBLS CMT // 60 X 2.89 = 173.4 CU/FT LEAD CMT
Pump Tail Cement	09/02/2012 17:39		5	21	52		400.0	Pumped 100 SKS CMT @ 15.6 PPG // 100 = 21 BBLS CMT // 100 X 1.18 = 118 CU/FT TAIL CMT
Shutdown	09/02/2012 17:44							
Drop Plug	09/02/2012 17:45							
Pump Displacement	09/02/2012 17:48		6	187	239		350.0	Pumped 187 BBLS H2O Displacement.
Displ Reached Cmnt	09/02/2012 18:05							
Slow Rate	09/02/2012 18:19		2	187	239		950.0	Slowed Down Last 10 BBLS Displacment @ 2 BPM. @ 177 BBLS.
Bump Plug	09/02/2012 18:22		2	187	239		1150. 0	Bumped @ 1150 Took To 1630 PSI.
Check Floats	09/02/2012 18:27							Got 1 1/2 BBLS Back Floats Are Good.
End Job	09/02/2012 18:30							
Pre-Rig Down Safety Meeting	09/02/2012 18:50							Discussed All Red Zones Proper Lifting Spoting Equipment Out Of Location
Rig-Down Completed	09/02/2012 20:05							

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Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl		Pres ps	sure sig	Comments	
		#		Stage	Total	Tubing	Casing		
Other	09/02/2012 20:10							Thank You Ed And Crew Halliburton.	
Crew Leave Location	09/02/2012 20:25							Discussed All Routs And Stops Back To Yard.	

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