

**HALLIBURTON**

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**SUNDANCE ENERGY INC**

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**MLD 13-22  
Wattenberg  
Weld County , Colorado**

**Cement Production Casing**  
22-Jun-2012

**Job Site Documents**

## Field Ticket

<b>Field Ticket Number:</b> 9613418		<b>Field Ticket Date:</b> Friday, June 22, 2012	
<b>Bill To:</b>		<b>Job Name:</b> MLD	
<b>Ship To:</b> SUNDANCE ENERGY INC MLD, 13-22 2934921 S22 T4N R68W BERTHOUD, CO 80513		<b>Order Type:</b> Streamline Order (ZOH)	
		<b>Well Name:</b> MLD 13-22	
		<b>Company Code:</b> 1100	
		<b>Customer PO No.:</b> NA	
		<b>Shipping Point:</b> Brighton, CO, USA	
		<b>Sales Office:</b> Rocky Mountains BD	
		<b>Well Type:</b> Gas	
		<b>Well Category:</b> Development	

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7523	CMT PRODUCTION CASING BOM	1	JOB	0.00	0.00	0.00		0.00
16091	ZI - PUMPING CHARGE	1	EA	0.00	9,081.00	9,081.00	65%	3,178.35
	DEPTH	7273						
	FEET/METERS (FT/M)		FT					
432904	CMT, ROCKIES SG SETUP	1	EA			8,771.00	58.71%	3,621.70
	NUMBER OF UNITS	1						
432905	CMT, ROCKIES SG MILEAGE	60	MI			1,347.00	61.7%	515.91
	Number of Units	1						
432906	CMT, ROCKIES SG DELIVERY	1	TNM			2,071.90	63.21%	762.17
	NUMBER OF TONS	8.25						
528788	MUD FLUSH III	24	BBL	0.00	94.45	2,266.80	65%	793.38
452963	FRACCEM (TM) SYSTEM	160	SK			10,129.73	65%	3,545.40
101985045	CHEM, CLA-WEB - TOTE	6	GAL	0.00	474.30	2,845.80	65%	996.03
100007955	SHOE-FLT- 4 1/2 8RD - HI-PORT	1	EA	0.00	918.00	918.00	65%	321.30
100004752	CLR,FLT,4-1/2 8RD,9.5-13.5PPF,2-3/4	1	EA	0.00	700.00	700.00	65%	245.00
100004491	CTRZR ASSY,TURBO,API,4 1/2 CSG X 7 7/8	15	EA	0.00	166.00	2,490.00	65%	871.50
100004622	CLAMP - LIMIT - 4-1/2 - HINGED -	1	EA	0.00	44.20	44.20	65%	15.47
101241019	PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA	0.00	186.00	186.00	65%	65.10
100005045	KIT,HALL WELD-A	1	EA	0.00	74.30	74.30	65%	26.00

*Field Ticket*

**Field Ticket Number:** 9613418 **Field Ticket Date:** Friday, June 22, 2012

**Bill To:**  
 [Empty Box]

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**Well Name:** MLD 13-22  
**Company Code:** 1100  
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**Well Category:** Development

**Ship To:**  
 SUNDANCE ENERGY INC  
 MLD, 13-22  
 2934921  
 S22 T4N R68W  
 BERTHOUD, CO 80513

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount		
100004595	BSKT,CEM,4 1/2 CSG X 6 1/4,8 3/4 H	2	EA	0.00	390.00	780.00	65%	273.00		
100008028	SUGAR, GRANULATED, IMPERIAL	50	LB	0.00	6.44	322.00	65%	112.70		
<b>Halliburton Rep:</b> BRANDON NIELSON						<b>Totals</b>	<b>USD</b>	<b>42,027.73</b>	<b>26,684.72</b>	<b>15,343.01</b>
<b>Customer Agent:</b> Gene Hudson										
<b>Halliburton Approval</b>										

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE.  
 CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS.

X \_\_\_\_\_ FIELD TICKET TOTAL: USD 15,343.01

Customer Signature

Was our HSE performance satisfactory? Y or N      Were you satisfied with our Equipment? Y or N      Were you satisfied with our people? Y or N  
 (Health, Safety, Environment)

Comments  
 [Empty Box]

The Road to Excellence Starts with Safety

Sold To #: 344834	Ship To #: 2934921	Quote #:	Sales Order #: 9613418
Customer: SUNDANCE ENERGY INC		Customer Rep: Hudson, Gene	
Well Name: MLD	Well #: 13-22	API/UWI #: 05-123-35709-00	
Field: Wattenberg	City (SAP): BERTHOUD	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: 55	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: AARON, WESLEY		Srcv Supervisor: NIELSON, BRANDON MBU ID Emp #: 479703	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DIRKS, RICHARD E	4.8	485940	MARKOVICH, STEVEN Michael	4.8	502964	NIELSON, BRANDON K	4.8	479703

**Equipment**

HES Unit #	Distance-1 way						
10248053C	30 mile	10951212	30 mile	11488570C	30 mile		

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6-22-12	4.8	2						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	7237. ft			On Location	22 - Jun - 2012	18:15	MST
Job depth MD	7237. ft			Job Started	22 - Jun - 2012	20:20	MST
Water Depth				Job Completed	22 - Jun - 2012	21:51	MST
Perforation Depth (MD)	From	To		Departed Loc	22 - Jun - 2012	23:00	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
Open Hole				7.875				595.	7824.	.	.
Production Casing	New		4.5	4.	11.6				7273.	.	.
Surface Casing	Used		8.625	8.097	24.		J-55	595.		.	.

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
SHOE-FLT- 4 1/2 8RD - HI-PORT	1	EA		
CLR,FLT,4-1/2 8RD,9.5-13.5PPF,2-3/4	1	EA		
CTRZR ASSY,TURBO,API,4 1/2 CSG X 7 7/8	15	EA		
CLAMP - LIMIT - 4-1/2 - HINGED -	1	EA		
PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA		
KIT,HALL WELD-A	1	EA		
BSKT,CEM,4 1/2 CSG X 6 1/4,8 3/4 H	2	EA		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	4.5	1	hwe
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4.5	1	Screwin
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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Clay Web Water Spacer		20.00	bbl	8.4	.0	.0	.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	1000.0	5.0	
3	CalyWeb Water Spacer		10.00	bbl	8.4	.0	.0	.0	
4	Fraccem 13.5#	FRACCEM (TM) SYSTEM (452963)	160.0	sacks	13.5	1.69	8.04	5.0	8.04
	8.04 Gal	FRESH WATER							
5	ClayWeb Water Displacement		112.7	bbl	8.34	.0	.0	7.0	
	2.5 gal/Mgal	CLA-WEB - TOTE (101985045)							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	113.1	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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Customer: SUNDANCE ENERGY INC		Customer Rep: Hudson, Gene	
Well Name: MLD	Well #: 13-22	API/UWI #: 05-123-35709-00	
Field: Wattenberg	City (SAP): BERTHOUD	County/Parish: Weld	State: Colorado
<b>Legal Description:</b>			
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: Ensign		Rig/Platform Name/Num: 55	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: AARON, WESLEY		Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	06/22/2012 20:22							TESTED LINES TO 3000 PSI NO VISIBLE LEAKS. WATER TEST WAS TEMP 86.5, PH 7, IRON 0, SU;FATE<200, CHLORIDE 0
Pump Spacer 1	06/22/2012 20:29		5	20			313.0	RIG WATERMIXED WITH CLAWEB
Pump Spacer 2	06/22/2012 20:35		5	24			194.0	RIG WATER MIXED WITH MUDFLUSH
Pump Spacer 1	06/22/2012 20:45		5	10			432.0	RIG WATER MIXED WITH CLAWEB
Pump Cement	06/22/2012 20:47		8	48			560.0	160 SKS FACCEM MIXED @ 13.5 PPG WITH RIG WATER
Shutdown	06/22/2012 20:57							
Clean Lines	06/22/2012 20:57							
Drop Top Plug	06/22/2012 21:05							PLUG PRE LOADED WITNESSED BY COMPANY REP
Pump Displacement	06/22/2012 21:05		8	112.7			320.0	RIG WATER MIXED WITH CLAWEB
Bump Plug	06/22/2012 21:22		3				830.0	CALCULATED PRESSURE TO LAND WAS 581 PSI
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

# HALLIBURTON

## Cementing Job Log

Check Floats	06/22/2012 21:22							pressured up to 1730 psi held for about 1 minute, all pressure released with system loop closed. open release line and got about 1.5 bbl back to truck, closed valve and put 3 bbl back into the casing and got 0 pressure increase. shut in well with 150
Shutdown	06/22/2012 21:23							psi on it agreed upon with myself and company rep. Advised rep to leave shut in for minimum 4 hours without releasing any pressure in that time.
Test Lines	06/22/2012 21:46							Pressure tested truck to 2500 psi on location for 5 minutes to eliminate possible truck leak.
End Job	06/22/2012 21:51							

*Water Analysis For Cement Mixing Water*

Company:	SUNDANCE ENERGY INC	Lease:	MLD	Well Name, Nbr:	MLD, 13-22
Rig Name/Nbr:	55	API No. /UWI		05-123-35709-00	
County:	Weld	State:	Colorado	Country:	United States of America

**FIELD TEST KIT**

**NOTE:** These tests are an indication of POTENTIAL contamination and are not conclusive.  
 For more comprehensive results, a sample should be submitted to the Local Area Lab

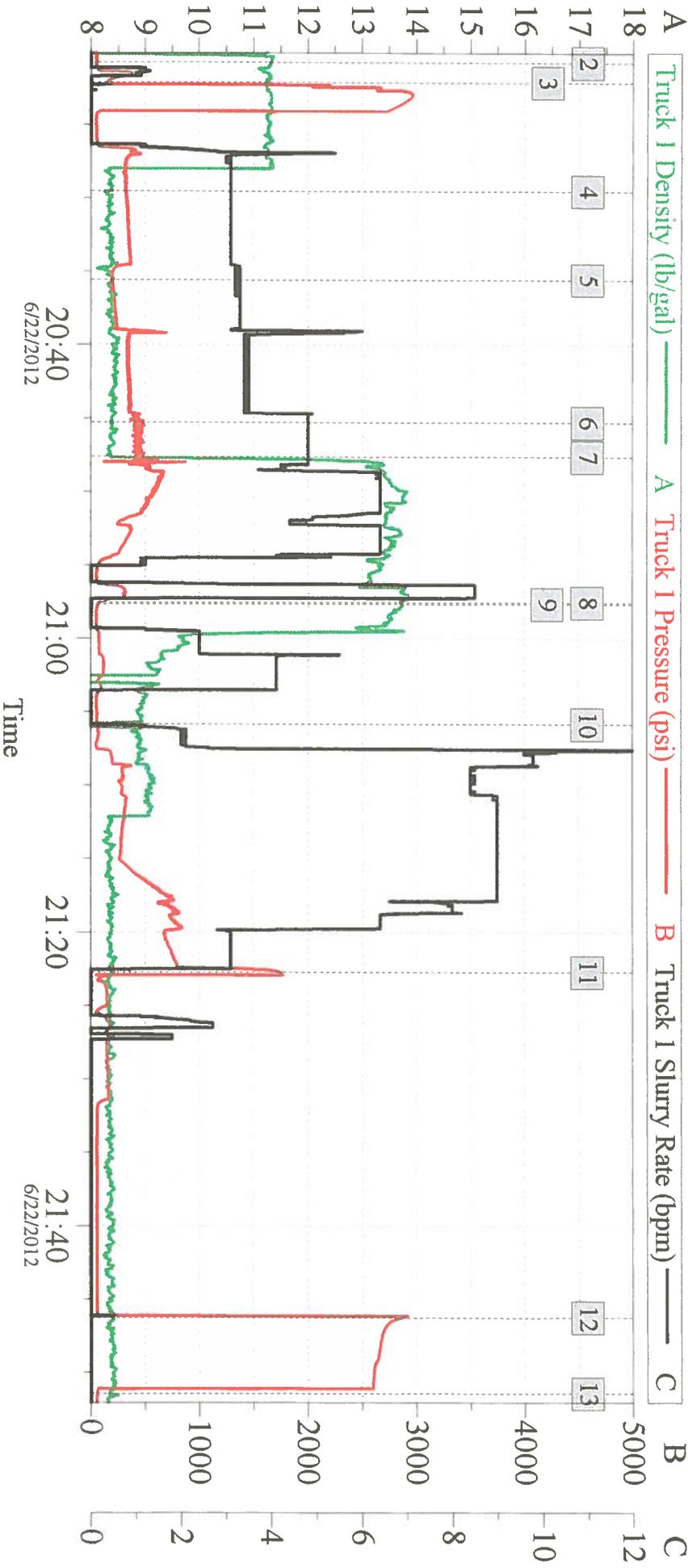
Date	22-Jun-2012	Ticket Number	9613418
Service Supervisor	NIELSON, BRANDON	Water Source	Rig water

Temperature	86.5	[<80 F]
pH.	7	[between 6-8 pH]
Specific Gravity		[1.000 - 1.005 see Chart]
Chart in Kit shows comparisons of:	Chlorides 0	[<3,000 ppm @ 1.004 S.G.]
	Calcium	[<500 ppm @ 1.004 S.G.]

PASS	FAIL	<b><u>Nessler's Nitrogen</u></b>	[Passing Parameters]
<input type="checkbox"/>	<input type="checkbox"/>	Color of Yellow	[<4.5 ppm (mg/L)]
		<b><u>Tannin-Lignin</u></b>	
<input type="checkbox"/>	<input type="checkbox"/>	Color of Blue	[<25.0 ppm]
		<b><u>Sulfate</u></b>	<200
		Degree of Clarity	[200 ppm]
<input type="checkbox"/>	<input type="checkbox"/>	Black X Visible	[if NO >200 ppm = FAIL]
		<b><u>Iron (Fe)</u></b>	0
<input type="checkbox"/>	<input type="checkbox"/>	Degree of Orange	[<20.0 ppm]

# SUNDANCE MLD 13-22

## 4.5 PRODUCTION



### Global Event Log

Intersection	T1P	Intersection	T1P	Intersection	T1P
1 Starting Job	19:39:03 43.00	2 Start Job	20:20:45 48.00	3 Test Lines	20:22:07 147.7
4 Pump Spacer 1	20:29:32 313.1	5 Pump Spacer 2	20:35:34 194.0	6 Pump Spacer 1	20:45:17 432.1
7 Pump Cement	20:47:39 460.7	8 Shutdown	20:57:33 80.69	9 Clean Lines	20:57:39 66.41
10 Pump Displacement	21:05:49 49.00	11 Bump Plug	21:22:44 1734	12 Truck Test	21:46:17 2846
13 End Job	21:51:27 54.00	14 Ending Job	21:53:27 54.00		

Customer: SUNDANCE	Job Date: 22-Jun-2012	Sales Order #: 9613418
Well Description: PRODUCTION	UWI: 05-123-35709-00	ENSING 55