

**HALLIBURTON**

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**SUNDANCE ENERGY INC**

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**HFE 24-22  
WATTENBERG  
Weld County , Colorado**

**Cement Production Casing**

**01-Oct-2012**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

Sold To #: 344834	Ship To #: 2954722	Quote #:	Sales Order #: 9855116
Customer: SUNDANCE ENERGY INC		Customer Rep:	
Well Name: HFE	Well #: 24-22	API/UWI #:	
Field: WATTENBERG	City (SAP): BERTHOUD	County/Parish: Weld	State: Colorado
Legal Description:			
Lat:		Long:	
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: CLEMONS, WILLIAM	MBU ID Emp #: 407973

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/01/2012 02:00							CALLED OUT ON SUNDANCE 24-22 PRODUCTION
Pre-Convoy Safety Meeting	10/01/2012 04:20							DISCUSSED CONV ORDER AND SAFE ISSUES TO BE POSSIBLY ENCOUNTERED DURING CONVOY
Crew Leave Yard	10/01/2012 04:30							CALLED IN JOURN MANAGEMENT TO DISPATCH
Arrive At Loc	10/01/2012 05:15							CALLED IN JOURN MANAGEMENT TO DISPATCH
Pre-Rig Up Safety Meeting	10/01/2012 05:20							DISCUSSED SITE SPECIFIC HAZARD OTHER HAZARDS POSSIBLY ENCOUNTERED WHILE SPOTTING EQUIPMENT AND RIGGING UP
Rig-Up Equipment	10/01/2012 05:30							RIGGED UP TO TH FLOOR
Pre-Job Safety Meeting	10/01/2012 06:43							DISCUSSED FLOOR RIGUP, SAFETY HAZARDS ENCOUNTERED WHILE PUMPING, EMERGENCY RESPONSE, AND J PROCEDURE WITH CoMan & RIG CREW
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 344834

Ship To # : 2954722

Quote # :

Sales Order # : 98

SUMMIT Version: 7.3.0040

Monday, October 01, 2012 10:24:00

		#		Stage	Total	Tubing	Casing	
Rig-Up Completed	10/01/2012 06:43							PLUGS LOADED WITNESSED BY CoMan, WASHUP LINE RAN TO THE PIT, HEAD ATTACHED TO CASING JOB READY TO BE STARTED.
Start Job	10/01/2012 06:43		2	4	4		20.0	FILLED LINES WITH H2O
Pressure Test	10/01/2012 06:43						4000. 0	PRESSURE TESTED HES LINES TO 4000
Pump Spacer	10/01/2012 07:47		5	20	24		20.0	MIXED & PUMPED CLAYFIX H2O
Pump Spacer	10/01/2012 07:51		5	24	48		341.0	MIX & PUMP MUDFLUSH
Pump Spacer	10/01/2012 07:57		5	10	58		426.0	MIXED & PUMPED CLAYWEB WATER
Pump Lead Cement	10/01/2012 08:00		8	105	163		488.0	MIXED & PUMPED 250 SKS OF EXTENDACEM @ 11.3 PPG, 2.46 YIELD, 14.17 GAL/SK
Pump Tail Cement	10/01/2012 08:16		8	48	184		252.0	MIXED & PUMPED 155 SKS OF FRACCEN @ 13.5 PPG, 1.74 YIELD, 8.30 GAL/SK
Shutdown	10/01/2012 08:23							DROP TOP PLUG WITNESSED BY CoMan
Clean Lines	10/01/2012 08:24							WASHED PUMPS & LINES TO PIT
Drop Top Plug	10/01/2012 08:27							TOP PLUG DROPPED AND POSITIVELY DISPLACED WITNESSED BY CoMar
Pump Displacement	10/01/2012 08:28		8	116	300		900.0	BEGIN PUMPING H2O DISPLACEMENT AT 8 BPM, RATE WAS SLOWED TO 2 BPM WITH 10 BBLs LEFT IN PREPARATION TO BUMP THE PLUG
Shutdown	10/01/2012 08:53						960.0	PLUG DID NOT BUMP WE PUMPED 5 BBLs OVER PER CoMan
Check Floats	10/01/2012 08:54							FLOATS DID HOLD AND WE GOT 2 BBLs BACK TO TRUCK
Other	10/01/2012 08:55							ALL CEMENT PUMPED PER DESIGN, PLUG WAS NOT BUMPED, FLOATS DID HOLD,
Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl	Pressure psig			Comments

Sold To #: 344834

Ship To #: 2954722

Quote #:

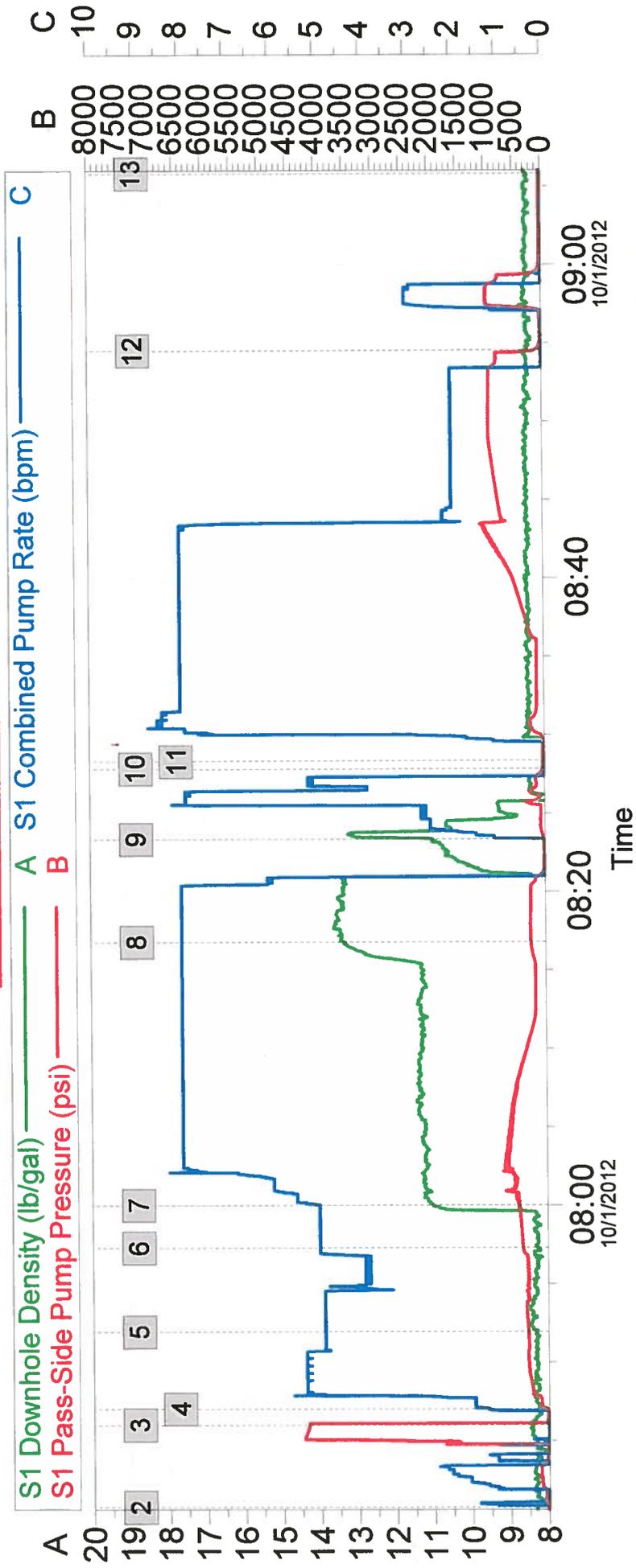
Sales Order #: 98551

SUMMIT Version: 7.3.0040

Monday, October 01, 2012 10:24:00

		#		Stage	Total	Tubing	Casing	
Safety Meeting - Pre Rig-Down	10/01/2012 09:00							DISCUSSED PRESSURE RELEASE PROCEDURE AND OTHER SAFETY HAZRDS ASSOCIATED WITH RIG-DOWN
Rig-Down Equipment	10/01/2012 09:05							RELEASED PRESSURE FROM IRON AND RRIGGED DOWN THE GROUND AND THE FLOOR
Rig-Down Completed	10/01/2012 10:00							ALL IRON RIGGED DOWN
Pre-Convoy Safety Meeting	10/01/2012 10:25							HELD CONVOY WITH CREW PRIOR TO THIER JOURNEY BACK TO SERVICE CENTER
Return to Service Center from Job	10/01/2012 10:30							CREW CALLED IN JOURNEY TO DISPATCH
End Job	10/01/2012 10:30							

**SUNDANCE**  
**WELL 24-22 PRODUCTION**



Global Event Log							
Intersection	SDD	SPPP	SCPR	Intersection	SDD	SPPP	SCPR
2 Start Job	07:40:44	8.300	1.000	3 Test Lines	07:45:59	8.420	0.000
4 Pump Spacer 1	07:47:01	8.250	20.01	5 Pump Spacer 1	07:51:56	8.300	4.900
6 Pump Spacer 1	07:57:18	8.250	426.0	7 Pump Lead Cement	08:00:01	11.02	5.000
8 Pump Tail Cement	08:16:48	13.30	252.2	9 Shutdown	08:23:22	10.96	0.000
10 Drop Top Plug	08:27:52	-0.030	20.00	11 Pump Displacement	08:28:20	-0.060	0.000
12 Check Floats	08:54:32	8.383	126.7	13 End Job	09:05:50	8.340	0.000

Customer: SUNDANCE      Job Date: 01-Oct-2012      Sales Order #: 9855116      OptiCem v6.4.21  
 Well Description: 24-22      JOB TYPE: PRODUCTION      SUPERVISOR: BILL CLEMONS      01-Oct-12 10:19

*Field Ticket*

<b>Field Ticket Number:</b> 9855116		<b>Field Ticket Date:</b> Monday, October 01, 2012	
<b>Bill To:</b> SUNDANCE ENERGY INC 633 17TH ST STE 1950 DENVER, CO 80202		<b>Job Name:</b> HFE 24-22 <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> HFE 24-22 <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	
<b>Ship To:</b> SUNDANCE HFE 24-22,WELD HFE 24-22 2954722 BERTHOUD, CO 80513			

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 DEPTH FEET/METERS (FT/M)	1 7505	EA FT	0.00	9,081.00	9,081.00	65%	3,178.35		
432904	CMT, ROCKIES SG SETUP	1	EA			9,553.00	53.9%	4,403.70		
432905	CMT, ROCKIES SG MILEAGE Number of Units	90 1	MI			1,807.40	61.31%	699.28		
432906	CMT, ROCKIES SG DELIVERY NUMBER OF TONS	1 19.28	TNM			5,581.92	63.9%	2,014.89		
528788	MUD FLUSH III	24	BBL	0.00	94.45	2,266.80	65%	793.38		
452963	FRACCEM (TM) SYSTEM	155	SK			9,860.90	65%	3,451.32		
101894003	ENHANCER 923	365	LB	0.00	1.05	383.25	65%	134.14		
101985045	CHEM, CLA-WEB - TOTE	14	GAL	0.00	474.30	6,640.20	65%	2,324.07		
452981	EXTENDACEM (TM) SYSTEM	250	SK			12,665.51	65%	4,432.92		
100003668	SUPER CBL	40	LB	0.00	72.35	2,894.00	65%	1,012.90		
100003652	SALT,MORTON-PUREX-FINE	588	LB	0.00	0.44	258.72	65%	90.55		
<b>Halliburton Rep:</b> WILLIAM CLEMONS						<b>Totals</b>	<b>USD</b>	<b>60,992.70</b>	<b>38,457.20</b>	<b>22,535.50</b>
<b>Customer Agent:</b>						<b>Halliburton Approval</b>				

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Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
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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 22,535.50

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

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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	Srvc Supervisor: CLEMONS, WILLIAM	MBU ID Emp #: 407973	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	6	372277	BELL, ROBERT Preston	6	437060	CLEMONS, WILLIAM Edward	6	407973
EDWARDS, MICHEAL H	6	522592						

**Equipment**

HES Unit #	Distance-1 way						
10246780C	40 mile	10988836C	40 mile	11142999	40 mile	11360865C	40 mile
11362287C	40 mile	11527037	40 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/01/2012	6	4						

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	01 - Oct - 2012	02:00	MST
Form Type			BHST	On Location	01 - Oct - 2012	05:15	MST
Job depth MD	7505. ft		Job Depth TVD	Job Started	01 - Oct - 2012	07:40	MST
Water Depth			Wk Ht Above Floor	Job Completed	01 - Oct - 2012	09:05	MST
Perforation Depth (MD)	From		To	Departed Loc	01 - Oct - 2012	11:00	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				545.	7217.	545.	7217.
Production Casing	Unknown		4.5	4.	11.6			.	7189.	.	7189.
Surface Casing	Unknown		8.625	8.097	24.			.	545.	.	545.

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	4 ½	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4 ½	1	HES
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	

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 M Fluid Gal
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	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)	250.0	sacks	11.3	2.46	14.12		14.12
	0.2 %	SUPER CBL, 50 LB PAIL (100003668)							
	3 %	SALT, 100 LB BAG (100003652)							
	14.12 Gal	FRESH WATER							
5	Fraccem 13.5#	FRACCEM (TM) SYSTEM (452963)	155.0	sacks	13.5	1.74	8.3	5.0	8.3
	5 lbm	ENHANCER 923, BULK (101894003)							
	8.3 Gal	FRESH WATER							
6	ClayWeb Water Displacement			bbl	8.34	.0	.0	7.0	
	2.5 gal/Mgal	CLA-WEB - TOTE (101985045)							
Calculated Values		Pressures			Volumes				
Displacement	116	Shut In: Instant		Lost Returns	N/A	Cement Slurry	157	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	116	Treatment	
Frac Gradient		15 Min		Spacers	54	Load and Breakdown		Total Job	
Rates									
Circulating	8	Mixing		8	Displacement	8	Avg. Job		8
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					