

The Road to Excellence Starts with Safety

Sold To #: 303297	Ship To #: 2482566	Quote #:	Sales Order #: 4258513
Customer: CIMAREX ENERGY CO		Customer Rep: Walker, Steve	
Well Name: State 14 A Com	Well #: 2	API/UWI #: 30-015-34604	
Field: MILLMAN	City (SAP): LOCO HILLS	County/Parish: Eddy	State: New Mexico
Legal Description: Section 14 Township 19S Range 29E			
Contractor: Cactus Drilling Co.		Rig/Platform Name/Num: Cactus Drilling 122	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cementing	
Sales Person: RINGHOFFER, ALEX		Srvc Supervisor: GIDEON, BILLY	MBU ID Emp #: 322422

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOYCE, GARY S	22.0	325213	EDWARDS, CHARLIE L	12.0	325233	GIDEON, BILLY S	12.0	322422
HARRIS, JIMMY R	1.0	352331	MORENO, JESSIE	12.0	327283	RAYAS, ADRIAN	12.0	362493
WHITEFEATHER, DELANO Shane	1.0	345781						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10308386	25 mile	10565338	25 mile	10565339	25 mile	10565360	25 mile
10582268	25 mile	10582894	25 mile	10633274	25 mile	10724573	25 mile
52359	25 mile	53611	25 mile	54077	25 mile	6483	25 mile
7093	25 mile	77282C	25 mile	7784	25 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/14/06	10.5	4	03/15/06	2	2			
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To	Called Out	On Location	Job Started	Job Completed	Departed Loc
				BHST	3200 ft					14 - Mar - 2006	14 - Mar - 2006	14 - Mar - 2006	15 - Mar - 2006	15 - Mar - 2006
				104 degF						09:00	13:30	21:30	00:01	02:00

Well Data

Description	New / Used	Max pressure	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Intermediate Open Hole				12.25				400	3200		
Surface Casing	New		13.375	12.615	54.5	8 RD (ST&C)	J-55	0	400		
Intermediate Casing	Used		9.625	8.835	40	8 RD (LT&C)	P-110	0	3200		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
SHOE,CSG,TIGER TOOTH,9-5/8 8RD	1	EA		
CLR,FLT,9-5/8 LG 8RD 36-40PPF,P-110,2-3/	1	EA		
CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED	10	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	1	EA		
KIT,HALL WELD-A	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			

HALLIBURTON

Cementing Job Summary

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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Interfill C -- Lead Cement	INTERFILL C - SBM (14210)	1450	sacks	11.9	2.45	14.12	7.0	14.12	
	14.12 Gal	FRESH WATER								
	0.25 lbm	FLOCELE - 3/8, 25 LB SK (100005049)								
2	Premium Plus -- Tail Cement	CMT - PREMIUM PLUS CEMENT (100012205)	200	sacks	14.8	1.35	6.37	6.0	6.37	
	6.365 Gal	FRESH WATER								
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
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	42 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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Legal Description: Section 14 Township 19S Range 29E			
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: Cactus Drilling Co.		Rig/Platform Name/Num: Cactus Drilling 122	
Job Purpose: Cement Intermediate Casing			Ticket Amount: \$ 31,016.21
Well Type: Development Well		Job Type: Cementing	
Sales Person: RINGHOFFER, ALEX		Srvc Supervisor: GIDEON, BILLY	MBU ID Emp #: 322422

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/14/2006 08:00							
Safety Meeting - Service Center or other Site	03/14/2006 11:15							
Depart from Service Center or Other Site	03/14/2006 11:30							DELAYED LEAVING SERVICE CENTER DUE TO REPAIRING ALTERNATOR ON PUMP TRAILER
Arrive at Location from Service Center	03/14/2006 13:30							ARRIVED AT LOCATION JUST BEFORE CASING CREW RIGGED UP TO RUN CASING, ALL HALIBURTON MATERIALS ON LOCATION WHE WE ARRIVED
Safety Meeting - Assessment of Location	03/14/2006 13:45							
Safety Meeting - Pre Rig-Up	03/14/2006 14:00							
Rig-Up Equipment	03/14/2006 14:15							
Rig-Up Completed	03/14/2006 15:00							
HES Resources on Location and Available to Perform	03/14/2006 15:00							
Rig-Up Equipment	03/14/2006 20:00							RIG UP PLUG CONTAINER AND STEEL LINES TO CIRCULATE WELL
Circulate Well	03/14/2006 20:30							CIRCULATE WELL WITH RIG PUMPS FOR AN HOUR
Safety Meeting - Pre Job	03/14/2006 21:15							

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SUMMIT Version:

Wednesday, March 15, 2006 12:29:00

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Time Customer is Ready to Turn Control Over to HES	03/14/2006 21:30							
Start Job	03/14/2006 21:30							
Test Lines	03/14/2006 21:31					2500		TEST LINES TO 2500 PSI
Pump Spacer	03/14/2006 21:33		4	20			76	PUMP 20 BBLS OF FRESH WATER AHEAD OF CEMENT
Pump Lead Cement	03/14/2006 21:42		9	633			500	PUMP 1450 SACKS INTERFILL C CEMENT MIXED AT 11.9 LB/GAL
Pump Tail Cement	03/14/2006 23:10		6	48			240	PUMP 200 SACKS PREMIUM PLUS CEMENT MIXED AT 14.8 LB/GAL
Drop Top Plug	03/14/2006 23:18							
Pump Displacement	03/14/2006 23:23		9	239			384	PUMP FRESH WATER DISPLACEMENT, CALCULATED TO 239 BBLS
Bump Plug	03/14/2006 23:57						1374	BUMPED PLUG AT 860 PSI, TOOK PRESSURE UP TO 1376 PSI
Check Floats	03/14/2006 23:58							FLOATS HOLDING GOOD
End Job	03/15/2006 00:01							CIRCULATED 220 BBLS, 504 SACKS OF CEMENT TO SURFACE
Safety Meeting - Pre Rig-Down	03/15/2006 00:05							
Rig-Down Equipment	03/15/2006 00:15							
Rig-Down Completed	03/15/2006 01:15							
Safety Meeting - Departing Location	03/15/2006 01:30							
Depart Location for Service Center or Other Site	03/15/2006 02:00							
Return to Service Center from Job	03/15/2006 09:01							

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