

KINDER MORGAN

**McELMO DOME
HE 5**

**API Well No.:
05-083-66010**

**3/30/2004
MONTEZUMA**

WHIPSTOCK PLUG

**Customer Representative:
JIMMY HALE/ 970-882-2875
Halliburton Operator:
STEVE STROMBERG/ 486-0167
Ticket No.:
2999907**

HALLIBURTON

CEMENT JOB SUMMARY SHEET

Job Type

WHIPSTOCK PLUG

				Measure
Casing	Size	Weight	Grade	d Depth
Surface	10°	36	J55	3500+-
Intermediate				
Production	7	29		8,175
Tubing	2 7/8	7.9	PH6	8,240
Drill Pipe	3 1/2	13.3	IF	7,925
Open Hole	6 1/2			8,321

CEMENT DATA

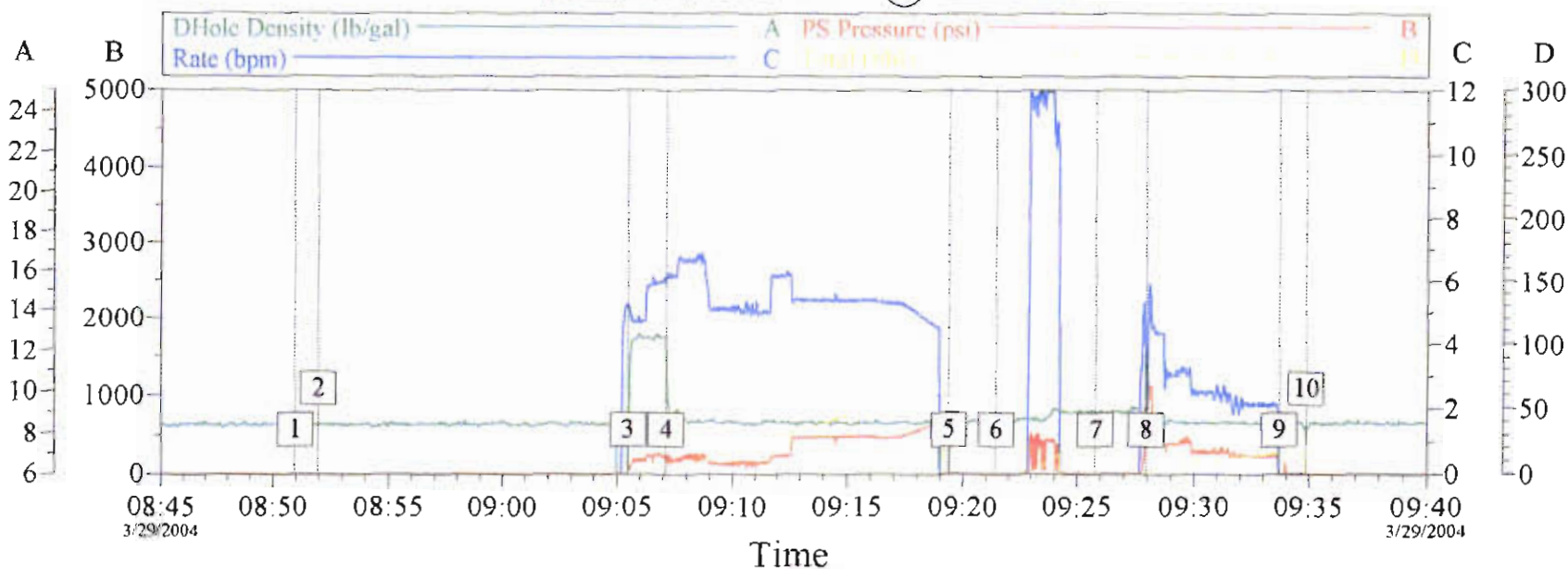
Spacer	10 Bbls FRESH WATER			
Cement 1	H			50 Sacks
Additives	.2% HR-5, .15% HR-25, 3% KCl			
	Weight (lb/gal)	16.50	Yield (cuft/sk)	1.07
			Water (gal/sk)	4.35
Cement 2				Sacks
Additives				
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Cement 3				Sacks
Additives				
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Cement 4				Sacks
Additives				
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Displacement	H2O	#REF!	(lb/gal)	

CEMENTING EQUIPMENT

Provider			
Guide Shoe	es.	Centralizers	es.
Float Shoe	ea.	Plug Type	ea.
Float Collar	es.	Packer	ft.
DV Tool	ft.	Retainer	ft.

SPOT LOST CIRCULATION PILL.

DRILL PIPE SET @ 8294'.



Event Log

1	Start Job	08:50:58	2	Mix Calcium Carbonate Pill	08:51:58
3	Pump Calcium Carbonate Pill	09:05:27	4	Pump Displacement	09:07:05
5	Shut Down	09:19:22	6	Clean Lines	09:21:26
7	Drill Pipe Stuck...	09:25:45	8	Circulate Well	09:27:57
9	Shut Down	09:33:41	10	Attempt To Pull Pipe	09:34:52
11	End Job	10:58:50			

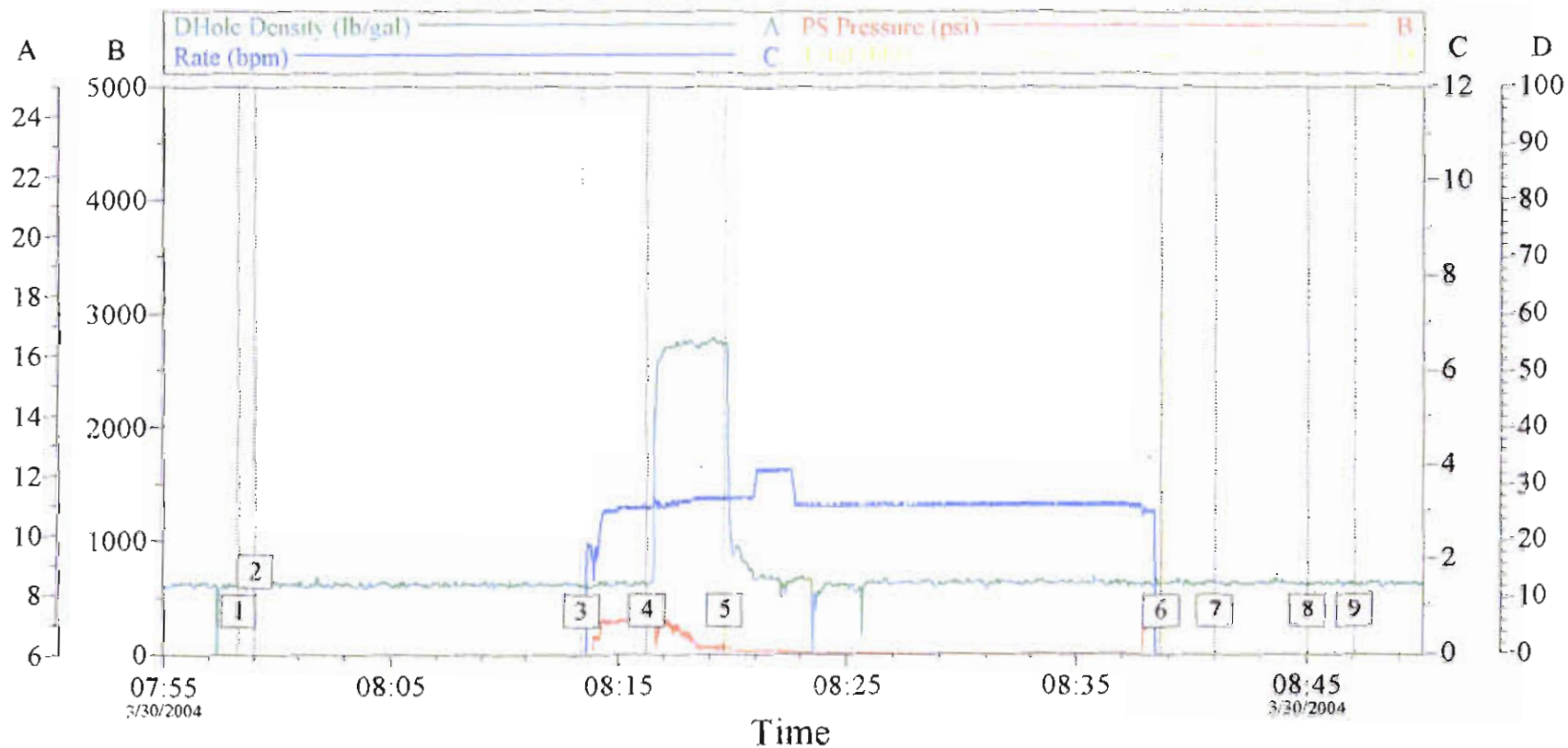
Customer: **KINDER MORGAN**
Well Description: **McELMO DOME HE#5**

Job Date: **3/29/04**
UWI: **05-083-66010**

Ticket #: **2999907**
STROMBERG HERRERA

HALLIBURTON
CemWin v1.4.0
29-Mar-04 11:06

WHIPSTOCK PLUG



Event Log

1 Start Job	07:58:20	2 Mix Cement	07:59:04	3 Pump Spacer 1	08:13:26
4 Pump Cement	08:16:15	5 Pump Displacement	08:19:38	6 Shut Down, Open Bypass	08:38:40
7 Rig Down HES	08:40:57	8 PUH w/ Drill Pipe	08:45:01	9 End Job	08:47:03

Customer: **KINDER MORGAN**
Well Description: **M:ELMO DOME HF 5**

Job Date: **3/30/04**
UWI: **05-083-66010**

Ticket #: **2999907**
STROMBERG HERRERA

HALLIBURTON
CemWin v1.4.0
30-Mar-04 09:23

KINDER MORGAN

**McELMO DOME
HE-5**

**API Well No.:
05-083-66010**

**3/15/2004
MONTEZUMA**

PLUG BACK

**Customer Representative:
JIMMY HALE/ 970-882-2875
Halliburton Operator:
STEVE STROMBERG/ 486-0167
Ticket No.:
2974393**

HALLIBURTON

CEMENT JOB SUMMARY SHEET

Job Type

PLUG BACK

				<i>Measure</i>
<i>Casing</i>	<i>Size</i>	<i>Weight</i>	<i>Grade</i>	<i>d Depth</i>
<i>Surface</i>				
<i>Intermediate</i>				
<i>Production</i>	7	29		8,190
<i>Tubing</i>				
<i>Drill Pipe</i>	3 1/2	13.3		8,190
<i>Open Hole</i>	6			8,336

CEMENT DATA

Spacer	10 Bbls FRESH WATER			
Cement 1 Additives	H 3% KCl, .15% HR-5, 1/4# FLOCELE			115 Sacks
	Weight (lb/gal)	16.50	Yield (cuft/sk)	1.07
			Water (gal/sk)	4.35
Cement 2 Additives				Sacks
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Cement 3 Additives				Sacks
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Cement 4 Additives				Sacks
	Weight (lb/gal)		Yield (cuft/sk)	
			Water (gal/sk)	
Displacement	H2O	#REF!	(lb/gal)	

CEMENTING EQUIPMENT

Provider			
Guide Shoe	ea.	Centralizers	ea.
Float Shoe	ea.	Plug Type	ea.
Float Collar	ea.	Packer	ft.
DV Tool	ft.	Retainer	ft.

Plug-Back/Balanced Plug Cementing

Well Information

Bottom of wrkstg	8229	ft.
Drill Pipe Size	2 7/8	in.
Drill Pipe Weight	7.9	lb/ft
Hole Size	6 1/2	in.
Displacement Fluid	58.57	bbls
density	8.33	lb/gal
Spacer Fluid	10	bbls
density	8.33	lb/gal
Height of plug	140	ft.

Cement/Slurry

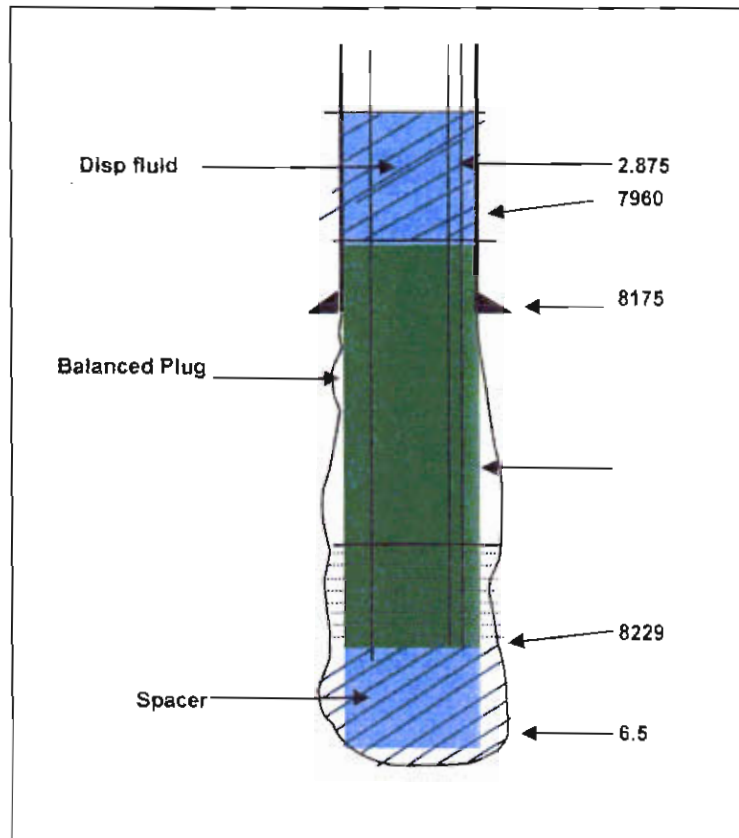
Density	16.5	lb/gal
Yield	1.07	cuft/sk
Water Req.	4.35	gal/sk
Total sks slurry	50	sks
Total bbls slurry	9.53	bbls
Total cubic feet	53.50	cuft
Hydrc val. for cmt	0.8577	

Redbook Information

	bbls/linft	cuft/linft
Capacity of hole	0.041	0.2304
Cap. of drill pipe	0.00496	0.04167
V & H btn cas&hol	0.033	0.1854

Calculations

Hght of cmt with wrkstg plug	251.01	ft
Volume of spacer behind	1.50	bbls
Volume of disp. fluid	38.07	bbls
Volume of water for job	5.18	bbls



Customer	KINDER MORGAN
Well Name	McELMO DOME
Lease	HE 5
Date	3/30/2004
Cementer	STEVE STROMBERG/ 486-0167
SO #	2999907

HALLIBURTON		JOB SUMMARY		<small>SALES ORDER NUMBER</small> 2974	<small>TICKET DATE</small> Monday, March 15, 2004																																																																																
<small>REGION</small> NORTH AMERICA		<small>NWA / COUNTRY</small> ROCKY MOUNTAIN		<small>BDA / S:</small> COLO	<small>COUNTY</small> MONTEZUMA																																																																																
<small>MBU ID / EMPL #</small> FA0212/217406		<small>H.E.S. EMPLOYEE NAME</small> STEVE STROMBERG/ 486-0167		<small>PSL DEPARTMENT</small> ZONAL ISOLATION																																																																																	
<small>LOCATION</small> FARMINGTON, NM		<small>COMPANY</small> KINDER MORGAN		<small>CUSTOMER REP / PHONE</small> JIMMY HALE/ 970-882-2875																																																																																	
<small>TICKET AMOUNT</small>		<small>WELL TYPE</small> CO2		<small>APl/UWI #</small> 05-083-66010																																																																																	
<small>WELL LOCATION</small> CORTEZ, COLO		<small>DEPARTMENT</small> ZONAL ISOLATION 10003		<small>SAP BOMB NUMBER</small>	<small>JOB TYPE</small> PLUG BACK																																																																																
<small>LEASE NAME</small> McELMO DOME	<small>Well No.</small> HE-5	<small>SEC / TWP / RNG</small> SEC 36 / TWP 38 N / RNG 19 W																																																																																			
<small>H.E.S. EMP NAME / EMP # / (EXPOSURE HOURS)</small> S. STROMBERG/ 217406 9.0 G. BROWNE/ 274939 3.0		<small>HRS</small> T. PHILLIPS/ 226879 3.0		<small>HRS</small> BIZZELL/ 162183 9.0 D. JONES/ 302489 9.0																																																																																	
<small>H.E.S. UNIT #S / (R/T MILES)</small> 10286184 240 10547384 240		<small>R/T MILES</small> 10251395 240		<small>R/T MILES</small> 10205677/ 10025039 240																																																																																	
<small>Form Name _____ Type _____</small> <small>Form Thickness _____ From _____ To _____</small> <small>Packer Type _____ Set At _____</small> <small>Bottom Hole Temp. _____ Pressure _____</small> <small>Retainer Depth _____ Total Depth _____</small> Tools and Accessories <table border="1" style="width:100%;"> <thead> <tr> <th>Type and Size</th> <th>Qty</th> <th>Make</th> </tr> </thead> <tbody> <tr><td>Float Collar</td><td></td><td></td></tr> <tr><td>Float Shoe</td><td></td><td></td></tr> <tr><td>Centralizers</td><td></td><td></td></tr> <tr><td>Top Plug</td><td></td><td></td></tr> <tr><td>Limits Clamp</td><td></td><td></td></tr> <tr><td>BASKET</td><td></td><td></td></tr> <tr><td>Insert Float</td><td></td><td></td></tr> <tr><td>Guide Shoe</td><td></td><td></td></tr> <tr><td>Weld-A</td><td></td><td></td></tr> </tbody> </table>						Type and Size	Qty	Make	Float Collar			Float Shoe			Centralizers			Top Plug			Limits Clamp			BASKET			Insert Float			Guide Shoe			Weld-A																																																				
Type and Size	Qty	Make																																																																																			
Float Collar																																																																																					
Float Shoe																																																																																					
Centralizers																																																																																					
Top Plug																																																																																					
Limits Clamp																																																																																					
BASKET																																																																																					
Insert Float																																																																																					
Guide Shoe																																																																																					
Weld-A																																																																																					
Materials <table border="1" style="width:100%;"> <thead> <tr> <th>Mud Type</th> <th>H2O</th> <th>Density</th> <th>8.3</th> <th>Lb/Gal</th> </tr> </thead> <tbody> <tr> <td>Disp. Fluid</td> <td>H2O</td> <td>Density</td> <td>8.3</td> <td>Lb/Gal</td> </tr> <tr> <td>Prop. Type</td> <td></td> <td>Size</td> <td></td> <td>Lb</td> </tr> <tr> <td>Acid Type</td> <td></td> <td>Gal.</td> <td>%</td> <td></td> </tr> <tr> <td>Surfactant</td> <td></td> <td>Gal.</td> <td>In</td> <td></td> </tr> <tr> <td>NE Agent</td> <td></td> <td>Gal./Lb</td> <td>In</td> <td></td> </tr> <tr> <td>Gelling Agent</td> <td></td> <td>Gal/Lb</td> <td>In</td> <td></td> </tr> <tr> <td>Fric. Red.</td> <td></td> <td>Gal/Lb</td> <td>In</td> <td></td> </tr> <tr> <td>Breaker</td> <td></td> <td>Gal/Lb</td> <td>In</td> <td></td> </tr> <tr> <td>Blocking Agent</td> <td></td> <td>Gal/Lb</td> <td></td> <td></td> </tr> <tr> <td>Perfpac Balls</td> <td></td> <td>Qty.</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>KCL substitute</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Mud Type	H2O	Density	8.3	Lb/Gal	Disp. Fluid	H2O	Density	8.3	Lb/Gal	Prop. Type		Size		Lb	Acid Type		Gal.	%		Surfactant		Gal.	In		NE Agent		Gal./Lb	In		Gelling Agent		Gal/Lb	In		Fric. Red.		Gal/Lb	In		Breaker		Gal/Lb	In		Blocking Agent		Gal/Lb			Perfpac Balls		Qty.			Other					KCL substitute					Other					Other									
Mud Type	H2O	Density	8.3	Lb/Gal																																																																																	
Disp. Fluid	H2O	Density	8.3	Lb/Gal																																																																																	
Prop. Type		Size		Lb																																																																																	
Acid Type		Gal.	%																																																																																		
Surfactant		Gal.	In																																																																																		
NE Agent		Gal./Lb	In																																																																																		
Gelling Agent		Gal/Lb	In																																																																																		
Fric. Red.		Gal/Lb	In																																																																																		
Breaker		Gal/Lb	In																																																																																		
Blocking Agent		Gal/Lb																																																																																			
Perfpac Balls		Qty.																																																																																			
Other																																																																																					
KCL substitute																																																																																					
Other																																																																																					
Other																																																																																					
<table border="1" style="width:100%;"> <thead> <tr> <th>Date</th> <th>Called Out</th> <th>On Location</th> <th>Job Started</th> <th>Job Completed</th> </tr> </thead> <tbody> <tr> <td>3/15/04</td> <td>3/15/04</td> <td>3/15/04</td> <td>3/15/04</td> <td>3/15/04</td> </tr> <tr> <td>Time</td> <td>00:00</td> <td>04:30</td> <td>10:44</td> <td>12:08</td> </tr> </tbody> </table>						Date	Called Out	On Location	Job Started	Job Completed	3/15/04	3/15/04	3/15/04	3/15/04	3/15/04	Time	00:00	04:30	10:44	12:08																																																																	
Date	Called Out	On Location	Job Started	Job Completed																																																																																	
3/15/04	3/15/04	3/15/04	3/15/04	3/15/04																																																																																	
Time	00:00	04:30	10:44	12:08																																																																																	
Well Data <table border="1" style="width:100%;"> <thead> <tr> <th>Casing</th> <th>New/Used</th> <th>Weight</th> <th>Size</th> <th>Grade</th> <th>From</th> <th>To</th> <th>Max. Allow</th> </tr> </thead> <tbody> <tr> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Intermediate</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Production</td> <td>USED</td> <td>29.0</td> <td>7</td> <td></td> <td></td> <td>8,190</td> <td></td> </tr> <tr> <td>Tubing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Drill Pipe</td> <td>USED</td> <td>13.3</td> <td>3 1/2</td> <td></td> <td></td> <td>8,190</td> <td></td> </tr> <tr> <td>Open Hole</td> <td></td> <td></td> <td>6</td> <td></td> <td>8190</td> <td>8,336</td> <td>Shots/Ft.</td> </tr> <tr> <td>Perforations</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Perforations</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DV Tool</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Casing	New/Used	Weight	Size	Grade	From	To	Max. Allow	Surface								Intermediate								Production	USED	29.0	7			8,190		Tubing								Drill Pipe	USED	13.3	3 1/2			8,190		Open Hole			6		8190	8,336	Shots/Ft.	Perforations								Perforations								DV Tool							
Casing	New/Used	Weight	Size	Grade	From	To	Max. Allow																																																																														
Surface																																																																																					
Intermediate																																																																																					
Production	USED	29.0	7			8,190																																																																															
Tubing																																																																																					
Drill Pipe	USED	13.3	3 1/2			8,190																																																																															
Open Hole			6		8190	8,336	Shots/Ft.																																																																														
Perforations																																																																																					
Perforations																																																																																					
DV Tool																																																																																					
<table border="1" style="width:100%;"> <thead> <tr> <th colspan="2">Hours On Location</th> <th colspan="2">Operating Hours</th> <th>Description of Job</th> </tr> <tr> <th>Date</th> <th>Hours</th> <th>Date</th> <th>Hours</th> <th></th> </tr> </thead> <tbody> <tr> <td>3/15/04</td> <td>9.00</td> <td>3/15/04</td> <td>2.00</td> <td>SEE JOB LOG</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Total</td> <td>9.00</td> <td>Total</td> <td>2.00</td> <td></td> </tr> </tbody> </table>						Hours On Location		Operating Hours		Description of Job	Date	Hours	Date	Hours		3/15/04	9.00	3/15/04	2.00	SEE JOB LOG																																														Total	9.00	Total	2.00																
Hours On Location		Operating Hours		Description of Job																																																																																	
Date	Hours	Date	Hours																																																																																		
3/15/04	9.00	3/15/04	2.00	SEE JOB LOG																																																																																	
Total	9.00	Total	2.00																																																																																		
<table border="1" style="width:100%;"> <thead> <tr> <th>Ordered</th> <th>Hydraulic Horsepower Available</th> <th>Used</th> </tr> </thead> <tbody> <tr> <td>Treating</td> <td>Average Rates in BPM</td> <td>Overall</td> </tr> <tr> <td>Feet</td> <td>Cement Left in Pipe Reason</td> <td>CUSTOMER REQUEST, WHIPSTOCK</td> </tr> </tbody> </table>						Ordered	Hydraulic Horsepower Available	Used	Treating	Average Rates in BPM	Overall	Feet	Cement Left in Pipe Reason	CUSTOMER REQUEST, WHIPSTOCK																																																																							
Ordered	Hydraulic Horsepower Available	Used																																																																																			
Treating	Average Rates in BPM	Overall																																																																																			
Feet	Cement Left in Pipe Reason	CUSTOMER REQUEST, WHIPSTOCK																																																																																			
Cement Data <table border="1" style="width:100%;"> <thead> <tr> <th>Stage</th> <th>Sacks</th> <th>Cement</th> <th>Bulk/Sks</th> <th>Additives</th> <th>W/Rq.</th> <th>Yield</th> <th>Lbs/Gal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>115</td> <td>H</td> <td>BULK</td> <td>3% KCl, .15% HR-5, 1/4# FLOCLE</td> <td>4.35</td> <td>1.07</td> <td>16.5</td> </tr> <tr><td></td><td></td><td></td><td>BULK</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>BULK</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>BULK</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>BULK</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>						Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal	1	115	H	BULK	3% KCl, .15% HR-5, 1/4# FLOCLE	4.35	1.07	16.5				BULK								BULK								BULK								BULK																																				
Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal																																																																														
1	115	H	BULK	3% KCl, .15% HR-5, 1/4# FLOCLE	4.35	1.07	16.5																																																																														
			BULK																																																																																		
			BULK																																																																																		
			BULK																																																																																		
			BULK																																																																																		
<table border="1" style="width:100%;"> <thead> <tr> <th colspan="2">Summary</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Circulating Breakdown</td> <td>Displacement Maximum</td> <td>Preflush: Gal - BBI</td> <td>10</td> </tr> <tr> <td>Lost Returns</td> <td></td> <td>Load & Bkdn: Gal - BBI</td> <td></td> </tr> <tr> <td>Cmt Rtn#Bbl</td> <td>Actual TOC</td> <td>Excess /ReturnGal BBI</td> <td></td> </tr> <tr> <td>Average</td> <td>Frac</td></tr></tbody></table>						Summary				Circulating Breakdown	Displacement Maximum	Preflush: Gal - BBI	10	Lost Returns		Load & Bkdn: Gal - BBI		Cmt Rtn#Bbl	Actual TOC	Excess /ReturnGal BBI		Average	Frac																																																														
Summary																																																																																					
Circulating Breakdown	Displacement Maximum	Preflush: Gal - BBI	10																																																																																		
Lost Returns		Load & Bkdn: Gal - BBI																																																																																			
Cmt Rtn#Bbl	Actual TOC	Excess /ReturnGal BBI																																																																																			
Average	Frac																																																																																				