

JOB SUMMARY				PROJECT NUMBER		TICKET DATE																																																																																																																
COUNTY Cheyenne COMPANY Chama Oil @ Minerals L.L.C. LEASE NAME Kern State Well No. 36-16-46 #1-H EMP NAME _____				TN# TN #1 CUSTOMER REP Bill Herd / David Waggoner EMPLOYEE NAME Jessie McClain		3/18/2013																																																																																																																
JOB TYPE Whipstock Plug																																																																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Jessie McClain</td> <td style="width:25%;"></td> <td style="width:25%;"></td> <td style="width:25%;"></td> </tr> <tr> <td>Derek Lewis</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mike Chalfant</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Jason Jones</td> <td></td> <td></td> <td></td> </tr> </table>								Jessie McClain				Derek Lewis				Mike Chalfant				Jason Jones																																																																																																		
Jessie McClain																																																																																																																						
Derek Lewis																																																																																																																						
Mike Chalfant																																																																																																																						
Jason Jones																																																																																																																						
Form. Name _____ Type: _____ Packer Type _____ Set At _____ Bottom Hole Temp. _____ Pressure _____ Retainer Depth _____ Total Depth _____				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Date</th> <th>Called Out</th> <th>On Location</th> <th>Job Started</th> <th>Job Completed</th> </tr> <tr> <td></td> <td>03/17/13</td> <td>03/17/13</td> <td>03/18/13</td> <td>03/18/13</td> </tr> <tr> <th>Time</th> <td>0830</td> <td>1800</td> <td>800</td> <td>1820</td> </tr> </table>				Date	Called Out	On Location	Job Started	Job Completed		03/17/13	03/17/13	03/18/13	03/18/13	Time	0830	1800	800	1820																																																																																																
Date	Called Out	On Location	Job Started	Job Completed																																																																																																																		
	03/17/13	03/17/13	03/18/13	03/18/13																																																																																																																		
Time	0830	1800	800	1820																																																																																																																		
Tools and Accessories <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type and Size</th> <th>Qty</th> <th>Make</th> </tr> </thead> <tbody> <tr><td>Auto Fill Tube</td><td>0</td><td>IR</td></tr> <tr><td>Insert Float Valve</td><td>0</td><td>IR</td></tr> <tr><td>Centralizers</td><td>0</td><td>IR</td></tr> <tr><td>Top Plug</td><td>0</td><td>IR</td></tr> <tr><td>HEAD</td><td>0</td><td>IR</td></tr> <tr><td>Limit clamp</td><td>0</td><td>IR</td></tr> <tr><td>Weld-A</td><td>0</td><td>IR</td></tr> <tr><td>Texas Pattern Guide Shoe</td><td>0</td><td>IR</td></tr> <tr><td>Cement Basket</td><td>0</td><td>IR</td></tr> </tbody> </table>				Type and Size	Qty	Make	Auto Fill Tube	0	IR	Insert Float Valve	0	IR	Centralizers	0	IR	Top Plug	0	IR	HEAD	0	IR	Limit clamp	0	IR	Weld-A	0	IR	Texas Pattern Guide Shoe	0	IR	Cement Basket	0	IR	Well Data <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></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>Casing</td><td>n/a</td><td>0</td><td></td><td></td><td>n/a</td><td>n/a</td><td>3000</td></tr> <tr><td>Liner</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Liner</td><td></td><td></td><td></td><td></td><td></td><td></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></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Open Hole</td><td></td><td></td><td></td><td></td><td></td><td></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>Perforations</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					New/Used	Weight	Size	Grade	From	To	Max. Allow	Casing	n/a	0			n/a	n/a	3000	Liner								Liner								Tubing								Drill Pipe								Open Hole							Shots/Ft.	Perforations								Perforations								Perforations								
Type and Size	Qty	Make																																																																																																																				
Auto Fill Tube	0	IR																																																																																																																				
Insert Float Valve	0	IR																																																																																																																				
Centralizers	0	IR																																																																																																																				
Top Plug	0	IR																																																																																																																				
HEAD	0	IR																																																																																																																				
Limit clamp	0	IR																																																																																																																				
Weld-A	0	IR																																																																																																																				
Texas Pattern Guide Shoe	0	IR																																																																																																																				
Cement Basket	0	IR																																																																																																																				
	New/Used	Weight	Size	Grade	From	To	Max. Allow																																																																																																															
Casing	n/a	0			n/a	n/a	3000																																																																																																															
Liner																																																																																																																						
Liner																																																																																																																						
Tubing																																																																																																																						
Drill Pipe																																																																																																																						
Open Hole							Shots/Ft.																																																																																																															
Perforations																																																																																																																						
Perforations																																																																																																																						
Perforations																																																																																																																						
Materials <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>WBM</th> <th>Density</th> <th>Lb/Gal</th> </tr> </thead> <tbody> <tr><td>Mud Type</td><td>WBM</td><td>9.3</td><td></td></tr> <tr><td>Disp. Fluid</td><td>WBM</td><td>9.3</td><td></td></tr> <tr><td>Spacer type</td><td>SAPP</td><td>BBL</td><td>33</td></tr> <tr><td>Spacer type</td><td>H2O</td><td>BBL</td><td>5.5</td></tr> <tr><td>Acid Type</td><td></td><td>Gal.</td><td>%</td></tr> <tr><td>Acid Type</td><td></td><td>Gal.</td><td>%</td></tr> <tr><td>Surfactant</td><td></td><td>Gal.</td><td>In</td></tr> <tr><td>NE Agent</td><td></td><td>Gal.</td><td>In</td></tr> <tr><td>Fluid Loss</td><td></td><td>Gal/Lb</td><td>In</td></tr> <tr><td>Gelling Agent</td><td></td><td>Gal/Lb</td><td>In</td></tr> <tr><td>Fric. Red.</td><td></td><td>Gal/Lb</td><td>In</td></tr> <tr><td>MISC.</td><td></td><td>Gal/Lb</td><td>In</td></tr> </tbody> </table>					WBM	Density	Lb/Gal	Mud Type	WBM	9.3		Disp. Fluid	WBM	9.3		Spacer type	SAPP	BBL	33	Spacer type	H2O	BBL	5.5	Acid Type		Gal.	%	Acid Type		Gal.	%	Surfactant		Gal.	In	NE Agent		Gal.	In	Fluid Loss		Gal/Lb	In	Gelling Agent		Gal/Lb	In	Fric. Red.		Gal/Lb	In	MISC.		Gal/Lb	In	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Hours On Location</th> <th colspan="2">Operating Hours</th> <th rowspan="2">Description of Job</th> </tr> <tr> <th>Date</th> <th>Hours</th> <th>Date</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>03/17/13</td> <td>25.0</td> <td>03/18/13</td> <td>4.0</td> <td>Whipstock Plug</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>25.0</td> <td>Total</td> <td>4.0</td> <td></td> </tr> </tbody> </table>				Hours On Location		Operating Hours		Description of Job	Date	Hours	Date	Hours	03/17/13	25.0	03/18/13	4.0	Whipstock Plug																																									Total	25.0	Total	4.0	
	WBM	Density	Lb/Gal																																																																																																																			
Mud Type	WBM	9.3																																																																																																																				
Disp. Fluid	WBM	9.3																																																																																																																				
Spacer type	SAPP	BBL	33																																																																																																																			
Spacer type	H2O	BBL	5.5																																																																																																																			
Acid Type		Gal.	%																																																																																																																			
Acid Type		Gal.	%																																																																																																																			
Surfactant		Gal.	In																																																																																																																			
NE Agent		Gal.	In																																																																																																																			
Fluid Loss		Gal/Lb	In																																																																																																																			
Gelling Agent		Gal/Lb	In																																																																																																																			
Fric. Red.		Gal/Lb	In																																																																																																																			
MISC.		Gal/Lb	In																																																																																																																			
Hours On Location		Operating Hours		Description of Job																																																																																																																		
Date	Hours	Date	Hours																																																																																																																			
03/17/13	25.0	03/18/13	4.0	Whipstock Plug																																																																																																																		
Total	25.0	Total	4.0																																																																																																																			
Perfpac Balls _____ Qty. _____ Other _____ Other _____ Other _____ Other _____				Pressures MAX 950 AVG 400 Average Rates in BPM MAX 4.5 AVG 3.5 Cement Left in Pipe Feet n/a Reason n/a																																																																																																																		
Cement Data <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Stage</th> <th>Sacks</th> <th>Cement</th> <th>Additives</th> <th>W/Rq.</th> <th>Yield</th> <th>Lbs/Gal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>280</td> <td>Class H</td> <td>0.2% C-37</td> <td>3.3</td> <td>.93</td> <td>17.5</td> </tr> <tr> <td>2</td> <td>280</td> <td>Class H</td> <td>0.2% C-37</td> <td>3.3</td> <td>.93</td> <td>17.5</td> </tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>								Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal	1	280	Class H	0.2% C-37	3.3	.93	17.5	2	280	Class H	0.2% C-37	3.3	.93	17.5	3							4																																																																																		
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal																																																																																																																
1	280	Class H	0.2% C-37	3.3	.93	17.5																																																																																																																
2	280	Class H	0.2% C-37	3.3	.93	17.5																																																																																																																
3																																																																																																																						
4																																																																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4"> Summary Preflush Breakdown _____ Type: _____ _____ MAXIMUM _____ _____ Lost Returns-n _____ _____ Actual TOC _____ Average _____ ISIP 5 Min. _____ 10 Min. _____ 15 Min. _____ </td> <td colspan="4"> Preflush: BBI 33.00 Type: SAPP Load & Bkdn: Gal - BBI _____ Excess /Return BBI 0 Pad:Bbl -Gal _____ Calc. TOC: 4,092 Calc.Disp Bbl _____ Treatment: Gal - BBI _____ Actual Disp. 38.00 Cement Slurry: BBI _____ Disp:Bbl _____ Total Volume BBI 163.00 </td> </tr> </table>								Summary Preflush Breakdown _____ Type: _____ _____ MAXIMUM _____ _____ Lost Returns-n _____ _____ Actual TOC _____ Average _____ ISIP 5 Min. _____ 10 Min. _____ 15 Min. _____				Preflush: BBI 33.00 Type: SAPP Load & Bkdn: Gal - BBI _____ Excess /Return BBI 0 Pad:Bbl -Gal _____ Calc. TOC: 4,092 Calc.Disp Bbl _____ Treatment: Gal - BBI _____ Actual Disp. 38.00 Cement Slurry: BBI _____ Disp:Bbl _____ Total Volume BBI 163.00																																																																																																										
Summary Preflush Breakdown _____ Type: _____ _____ MAXIMUM _____ _____ Lost Returns-n _____ _____ Actual TOC _____ Average _____ ISIP 5 Min. _____ 10 Min. _____ 15 Min. _____				Preflush: BBI 33.00 Type: SAPP Load & Bkdn: Gal - BBI _____ Excess /Return BBI 0 Pad:Bbl -Gal _____ Calc. TOC: 4,092 Calc.Disp Bbl _____ Treatment: Gal - BBI _____ Actual Disp. 38.00 Cement Slurry: BBI _____ Disp:Bbl _____ Total Volume BBI 163.00																																																																																																																		
CUSTOMER REPRESENTATIVE																																																																																																																						
Thank You For Using O - TEX Pumping																																																																																																																						

[illegible]

O-Tex
Pumping, LLC

COMPANY Chama Oil @ Minerals L.L.C.				PROJECT NUMBER TN# TN # 34		AFE/WORK ORDER		DATE	
CONTRACTOR SECO Rig # 1				Owner		LEGAL DESCRIPTION NE36/16S/46W		API 050170772800	
LEASE & WELL # Kern State				36-16-46 #1-H		COUNTY Cheyenne		STATE CO	
DIRECTIONS						MILEAGE 600			
From the JCT of HWY 287 and HWY 96 (East of Eads Colorado) go 17 mi east on HWY 96 (mile Marker 186) to CR 59, go go 11.5 mi north on CR 59 to CR BB/AA (County line) go west 4.1 mi to 2nd cattle guard, turn north 1 mi on new le location ase RD. to location.									
Job Procedures:									
JobType: Whipstock Plug									
Casing Size Casing Weight Thread Tbnq/DP Size Weight Plug. Cont. Swage Top Plug Bottom Plug % Excess									
0.00 14 25%									
Number and Type Units Casing Depth Hole Depth Hole Size									
1. pickup/trailer 1. ump truck 2. Bulk Truck 700 5500 8.75									
Remarks Tubing Depth Depth-TVD Mud Weight/Type									
Take 4" and 4.5 " DP Pin 50 LBS Sugar, 300 LBS SAP, 5 gal clay max, 15 gal plexaid 803 5450 9.3 WBM									
Materials									
1st plug # of Sacks Type Additives									
280 Class H 0.2% C-37									
Weight PPG Yield Ft3/Sk Water Gal/Sk									
17.5 .93 3.3									
2nd plug # of Sacks Type Additives									
280 Class H 0.2% C-37									
Weight PPG Yield Ft3/Sk Water Gal/Sk									
17.5 .93 3.3									
# of Sacks Type Additives									
Weight PPG Yield Ft3/Sk Water Gal/Sk									
ACID Type Additives									
Inhibitor Surfactant clay cont.									
Flush Quantity Type Additives									
40 MUD WASH SAPP AND PLEXAID 803									
Spacer Quantity Type Additives									
10 H2O 2% Claymax									
Quantity Type Additives									
Safety and Info									
Drive carefully, Stay on Lease RD, Weare PPE at all times.									
Sales Items									
Casing Size Casing Weight Thread Circulating Iron									
0.00									
Guide Shoe Float Shoe Float Collar Insert Float Valve									
Centralizers - Number Size Type									
Wall Cleaners - Number Type MSC (DV Tool) MSC Plug Set									
Limit Clamps Thread lock Other									
Remarks take 4" and 4.5" DP Pin 50 lbs sugar, 300 lbs sapp, 5 gal claymax, 15 gal plexaid 803									
Customer Rep. Cell Phone Office Phone Fax Time of Call									
Bill Herd / David Waggoner (720) 626 9326 1/0/00 0:00									
Call Taken By Date Ready Time Ready									
Terry Pickard									
Crew Called Time									