

Job Summary		Ticket Number		Ticket Date			
		TN#	FL2154	8/6/2017			
COUNTY	COMPANY		API Number				
Weld	Ensign Drilling		05-123-09568				
WELL NAME	RIG	JOB TYPE					
Crystal State 55-8	Ensign 330	Plug					
SURFACE WELL LOCATION		O-TEX Field Supervisor		CUSTOMER REP			
Sec 8 T3N R62W		Doran, Ben		Andrew Peetom			
EMPLOYEES							
Peterson, Ryan							
Omar							
Seniours, David		Kopp, Jeff					
WELL PROFILE							
Max Treating Pressure (psi):				Bottom Hole Static Temperature (°F): 0			
Bottom Hole Circulating Temperature (°F):				Well Type: Oil			
Open Hole							
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)		
	7.875	468	5500				
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)		
Casing/Tubing/Drill Pipe							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	8.625	24	J-55	0	468		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.875	7.9		0	5500		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
CEMENT DATA							
Stage 1:		From Depth (ft):		5300	To Depth (ft):		5500
Type: Plug 1		Volume (sacks):		60	Volume (bbls):		12.3
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
100% Class G+0.3% CFL-3+0.3% CFR-2				15.8	1.15	4.96	
Stage 2:		From Depth (ft):		0	To Depth (ft):		504
Type: Plug 2		Volume (sacks):		120	Volume (bbls):		29.3
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
100% Class C+0.3% CFL-3+0.3% CFR-2				14.6	1.37	6.61	
Stage 3:		From Depth (ft):		0	To Depth (ft):		504
Type: Plug 2		Volume (sacks):		60	Volume (bbls):		12.3
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
100% Class G +0.3% CFL-3+ 0.3% CFR-2				15.8	1.15	4.96	
Stage 4:		From Depth (ft):		0	To Depth (ft):		248
Type: Plug 3		Volume (sacks):		96	Volume (bbls):		19.7
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
100% Class G				15.8	1.15	5.00	
SUMMARY							
Preflushes:		10 bbls of		Fresh Water		Stage 1	
		25 bbls of		Fresh Water		27.7	
		bbls of				Actual Displacement (bbl):	
						26.7	
Total Preflush/Spacer Volume (bbl):		35		Plug Bump (Y/N):		Bump Pressure (psi):	
Total Slurry Volume (bbl):		77.9		Lost Returns (Y/N):		(if Y, when)	
Total Fluid Pumped		139.6					
Returns to Surface:		Cement		1.5 bbls			
Job Notes (fluids pumped / procedures / tools / etc.):		Had 4 BBL (22SX) left on truck for top off, top off was not needed.					
Customer Representative Signature:		<div style="text-align: right;"> Thank You For Using </div>					



EQUIPMENT SHEET

Date: 8/6/2017

Job Site Leader: Doran, Ben

Max Pressure: _____ PSI

Company - Lease - Well #:

Ensign Drilling
Crystal State 55-8


Ticket #: FL2154

Employee Name *** Please Print ***	Employee Number	Unit Number	Trailer Number	Location	Company Name
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1	Doran, Ben		201017 1 TON		
2					
3	Peterson, Ryan		745067	446067	
4					
5	Omar		745033	445033	
6	Kopp, Jeff				
7	Seniours, David		746170	446170	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Job Safety Leader: _____

Report all Minor Injuries, Accidents, Vehicle Accidents or Environmental Spills Immediately.

 CEMENTING JOB LOG				Project Number FL2154		Job Date 8/6/2017	
O-Tex Location Brighton, Colorado 303-857-7948		Customer Ensign Drilling		State CO		County Weld	
Lease Name Crystal State 55-8		Well No. Doran, Ben		Customer Representative Andrew Peetom		Phone 970-433-0292	
Job Type Plug		Man Hours 120		API Number 05-123-09568			
USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB. THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.							
DATE	TIME	VOLUME	RATE	PRESS		JOB PROCEDURES	
				CSG	Tbg.		
8/5/2017	7:40					Arrive on location/Check in with company rep	
8/5/2017	7:45					Spot Trucks/ Rig In	
8/5/2017	8:30					PJSM	
8/5/2017	8:54	0.5				0 Fill Lines	
8/5/2017	9:15					Pump truck went down had grass and rocks from rig tank	
8/5/2017	9:20					Fix pump	
8/5/2017	10:54	2 bbl	1.00		150	Fill lines	
8/5/2017	10:55				2500	Pressure Test	
8/5/2017	10:56	10 bbl	4.00		100	Fresh Ahead	
8/5/2017	11:05	12.3 bbl	4.00		50	60SX @ 15.8PPG, 1.15 Yield, 4.98 WR, 94 SW	
8/5/2017	11:20	28.8 bbl	4.00		10	Displace to balance	
8/5/2017	11:45	10 bbl				Wash	
8/5/2017	12:00					Wait on cement	
8/5/2017	19:05					Tag Cement @ 5192'	
8/5/2017	19:24	2 bbl	2.00		18	Fill lines	
8/5/2017	19:25				2000	Pressure Test	
8/5/2017	19:26	25 bbl	2.00		30	Establish Circulation	
8/5/2017	20:05	41.6 bbl				120SX @ 14.6 PPG/ 60 SX @ 15.8 PPG	
8/5/2017	20:20	10 bbl				Wash Pump	
8/5/2017	20:35					Wait on cement	
8/6/2017	1:30					Tag Cement @ 248'/ Wait on extra cement to top off well	
8/6/2017	4:09	1 bbl	1.00		50	Fill Lines	
8/6/2017	4:10				1000	Pressure Test	
8/6/2017	4:11	5 bbl	1.80		90	Establish Circulation	
8/6/2017	4:19	19.7 bbl	1.80		90	96SX @ 15.8PPG	
8/6/2017	4:35					Wait on rig to nipple down	
8/6/2017	6:25					Top off not needed/ had 4 BBL (22SX) left on truck	
8/6/2017	6:30	15 bbl				Wash Pump	
8/6/2017	7:00					Rig out	
8/6/2017	7:20					Job Complete	
8/6/2017	7:40					Leave Location	
JOB CALCULATIONS							
1st Plug- EOT @ 5500' Plug Length 200' ETOC 5300'							
2nd Plug- EOT @ 504'							
3rd Plug EOT @ 248'							
CASING DATA							
ANNULAR DATA							
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW							
When we were pulling on water to start the job our line clogged up with grass and rocks, some of the grass and rocks got onto the truck and caused the valves to stick open and not allow us to prime up properly. We had to break apart our pumps and clean them out and ensure the valves were free of debris. Once we did so we pumped the job successfully.							

TN # FL2154

Service Location: Brighton, Colorado 303-857-7948
Service Address: 821 County Road 27, Brighton, CO 80603

Service Date:	8/6/2017
Customer:	Ensign Drilling
Address:	410 17th Street Suite 1200
City:	Denver
St:	CO 80202
Customer Rep:	Andrew Peetom

Well Name:	Crystal State 55-8
County:	Weld
State:	CO
API #	05-123-09568
AFE #	

Job Type:

Service Supervisor:	Doran, Ben
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Pump #1	445067
Pump #2	445033

[illegible]

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____



SERVICE ORDER CONTRACT

Customer: **Ensign Drilling**

Ticket Number: **FL2154**

Lease & Well Number: **Crystal State 55-8**

Date: **8/6/2017**

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-Tex pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-Tex pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-Tex makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, except where due to O-Tex gross negligence or willful misconduct in the preparation or furnishing it.

O-Tex personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-Tex gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____