

# JOB SUMMARY

COUNTY <b>Weld</b>	COMPANY <b>Whiting Petroleum Corp.</b>	PROJECT NUMBER <b>TN # FL100</b>	TICKET DATE <b>6/20/2016</b>
LEASE NAME <b>Horsetail</b>	Well No. <b>07H-0613</b>	JOB TYPE <b>Production</b>	CUSTOMER REP <b>Mark</b>
EMP NAME <b>Ben Doran</b>		EMPLOYEE NAME <b>Ben Doran</b>	

<b>Ben Doran</b>	<b>Louis Felix</b>				
<b>Andy Hall</b>					
<b>Sean Barden</b>					
<b>Sam Cheal</b>					

Form. Name Nebraska Type: Oil

Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_

Tools and Accessories		
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

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Water	Density	8.3 Lb/Gal
Spacer type	BBL	0	
Spacer type	BBL		
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	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
	06/16/2016	06/20/16	06/16/16	06/16/16
Time	1300	18:30	1:20	4:30

Well Data						
New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing New	20	5.5	*	0	13386	
Casing New	36.0	9 5/8		0	2,055	
Liner						
Tubing						
Drill Pipe						
Open Hole						
Perforations						Shots/Ft.
Perforations						
Perforations						

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
06/20/16	10.0	06/16/16	4.0	Production
Total	10.0	Total	4.0	

Pressures	
MAX 4000	AVG 1500
Average Rates in BPM	
MAX 12.5	AVG 11
Cement Left in Pipe	
Feet	Reason

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	105	50/50 Type III/ Poz	.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7	0	0	11.5
2	275	50/50 Type III/ Poz	.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7	10.9	1.96	12.0
3	405	50/50 Type III/ Poz	.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7, .20 SP	10.9	1.96	12.0
4	1580	65/35 Type G / Poz	.3% ASM - 3, .5 % CFL - 10, .25 lbs/ sk LCL- 7, .20 SPC -2	7.5	1.5	13.5

Preflush Breakdown	Type: _____	Summary	Preflush: BBI 60.00	Type: Mudflush/Visweep
	MAXIMUM _____	Load & Bkdn: Gal - BBI	56	Pad: Bbl -Gal
	Lost Returns-1 _____	Excess /Return BBI	Surface	Calc. Disp Bbl 296
Average	Actual TOC _____	Calc. TOC: _____	Surface	Actual Disp. 296.00
ISIP 5 Min.	Frac. Gradient 10 Min	Treatment: Gal - BBI	0.0	Disp:Bbl 296.00
	15 Min _____	Cement Slurry BBI	356.00	
		Total Volume BBI		

CUSTOMER REPRESENTATIVE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

Thank You For Using  
O - TEX Pumping



### O-Tex / Equipment and Personnel Report

<b>O-Tex / Equipment and Personnel Report</b>				Project Number	Job Date
O-Tex Location		Customer		FL1008	6/20/2016
Fort Lupton		Whiting Petroleum Corp.		State	County
Lease Name	Well No.	O-Tex Field Supervisor		Co.	Weld
Horsetail	rsetail 07H-04	Ben Doran		Customer Representative	Phone
Job Type		Man Hours		Mark	281-833-2660
Production					

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.

[illegible]

## JOB CALCULATIONS

105 SX Scavenger(50BBL)@ 11.5PPG,2.27Yield,13.21 Water Req,85.14 Sack Weight  
275 SacksLead(96BBL)@12PPG,1.96 Yield,10.9 Water Req,85.13 Sack Weight  
405SX Fill (141.4 BBL)@ 12PPG, 1.96 yield,10.9 Water Req,85.13 Sack Weight  
1580 SX Tail (422 BBL) @ 13.5 PPG, 1.5 Yield,7.5 Water Req, 87.38 Sack Weight

### CASING DATA

296.2 BBL Total Displacement  
Shoe Track= 1 BBL

## ANNULAR DATA

Annular Capacity= 560.4 BBL  
Perfect Hole 149 BBL expected

PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW



# Job Data Sheet

COMPANY <b>Whiting Petroleum Corp.</b>				PROJECT NUMBER TN # <b>FL1008</b>		AF/WORK ORDER <b>0</b>		DATE <b>6/20/2016</b>	
CONTRACTOR <b>0</b>				Owner		LEGAL DESCRIPTION <b>12/10N/58W</b>		API <b>0</b>	
LEASE & WELL # <b>Horsetail</b>				COUNTY <b>Weld</b>		STATE <b>Co.</b>		MILEAGE <b>60</b>	
DIRECTIONS <b>07H-0613</b>									
<b>Hwy 71 &amp; Cr # 120, West 4.6 Miles, South Into.</b>									
Pumping Services	Job Procedures: Take Radios. Bring Back All Circulating Iron and Equipment								JobType: <b>Production</b>
	Casing Size <b>5.5</b>	Casing Weight <b>23</b>	Thread <b>Butress</b>	Tbng/DP Size <b>0</b>	Weight <b>0</b>	Plug. Cont. <b>YES</b>	Swage <b>YES</b>	Top Plug <b>YES</b>	Bottom Plug <b>YES</b>
							% Excess <b>%</b>		
	Number and Type Units <b>745052, 745033, 201025/449083</b>						Casing Depth <b>13387</b>	Hole Depth <b>13387</b>	Hole Size <b>8.5</b>
	Remarks <b>52 on location</b>						Tubing Depth <b>0</b>	Depth-TVD <b>7000</b>	Mud Weight/Type <b>9 WBM</b>
Materials	Scavenger	# of Sacks <b>105</b>	Type <b>50/50 Type III/ Poz</b>	Additives <b>.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7</b>					
	50BBL	Weight PPG <b>11.5</b>	Yield Ft3/Sk <b>2.27</b>	Water Gal/Sk <b>13.21</b>					
	Lead	# of Sacks <b>275</b>	Type <b>50/50 Type III/ Poz</b>	Additives <b>.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7</b>					
	96bbbls	Weight PPG <b>12.0</b>	Yield Ft3/Sk <b>1.96</b>	Water Gal/Sk <b>10.9</b>					
	Lead	# of Sacks <b>405</b>	Type <b>50/50 Type III/ Poz</b>	Additives <b>.3% ASM - 3, .5 % CFL - 10, 2% FWC - 2, .10% LTR, .25 lbs/ sk LCL- 7, .20 SPC - 2</b>					
	141bbbls	Weight PPG <b>12.0</b>	Yield Ft3/Sk <b>1.96</b>	Water Gal/Sk <b>10.9</b>					
	Tail	# of Sacks <b>1580</b>	Type <b>65/35 Type G / Poz</b>	Additives <b>.3% ASM - 3, .5 % CFL - 10, .25 lbs/ sk LCL- 7, .20 SPC - 2</b>					
	422BBL	Weight PPG <b>13.5</b>	Yield Ft3/Sk <b>1.5</b>	Water Gal/Sk <b>7.5</b>					
	Flush	Quantity <b>30</b>	Type <b>Mud Flush</b>	Additives <b>0</b>					
	Spacer	Quantity <b>30</b>	Type <b>Vissweep</b>	Additives <b>0</b>					
Displace	Quantity <b>353</b>	Type <b>Water</b>	Additives <b>0</b>						
Safety and Info	<b>DRIVE AND WORK SAFE AT ALL TIMES</b>								
Sales Items	Casing Size <b>5.5</b>	Casing Weight <b>20.00</b>	Thread <b>Butress</b>	Circulating Iron <b>YES</b>					
	Guide Shoe <b>NO</b>	Float Shoe <b>YES</b>	Float Collar <b>YES</b>	Insert Float Valve <b>NO</b>					
	Centralizers - Number <b>0</b>	Size <b>0</b>	Type <b>0</b>						
	Wall Cleaners - Number	Type	MSC (DV Tool) <b>NO</b>	MSC Plug Set <b>NO</b>					
	Limit Clamps <b>On Location</b>	Thread lock <b>NO</b>	Other						
Remarks <b>GET ALL NUMBERS FROM CO. MAN FOR TICKET</b>									
Customer Rep. <b>Mark</b>		Cell Phone <b>281-833-2660</b>		Office Phone		Fax		Time of Call <b>1300</b>	
Call Taken By <b>Waco Hardwick</b>								Date Ready <b>6/20/16</b>	Time Ready <b>00:45</b>
Crew Called <b>Ben Doran Andy Hall Sean Barden Sam Cheal Louis Felix</b>								Time <b>1300</b>	

Client Whiting  
Ticket No. 1008  
Location Sec12:T10N;R58W  
Comments Pump job as per Design

Client Rep Mark  
Well Name Horsetail 07H-0613  
Job Type Production Casing

Supervisor Ben Doran  
Unit No. 745051  
Service District Ft. Lupton  
Job Date 06/19/2016

