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OCT 17 2012

KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

OPERATOR: License # 31253  
Name: Primexx Operating Corporation  
Address 1: Two Energy Square  
Address 2: 4849 Greenville Ave., Ste. 1600  
City: Dallas State: Texas Zip: 75206 +  
Contact Person: Andrea Molinar  
Phone: (214) 369-5909  
CONTRACTOR: License # 33132  
Name: Dan Darling Drilling  
Wellsite Geologist:  
Purchaser: Conoco Phillips

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SIOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:  
Operator:

Well Name:

Original Comp. Date: Original Total Depth:  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

1/20/2012 1/28/2012 3/13/2012  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 077-21801-0000

Spot Description:  
C NW SE Sec. 10 Twp. 35 S. R. 5  East  West  
1,980 Feet from  North /  South Line of Section  
1,980 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Harper

Lease Name: Williams Well #: 10-1

Field Name: Wildcat

Producing Formation: Mississippi

Elevation: Ground: 1239' Kelly Bushing:

Total Depth: 5300' Plug Back Total Depth: 5267'

Amount of Surface Pipe Set and Cemented at: 421 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from:

feet depth to: w/ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls

Dewatering method used:

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

Quarter Sec. Twp. S. R.  East  West

County: Permit #:

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Andrea Molinar

Title: Regulatory Analyst Date: 10/15/2012

KCC Office Use ONLY

Letter of Confidentiality Received  
Date:  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: DLG Date: 10/22/12

Operator Name: Primexx Operating Corporation Lease Name: Williams Well #: 10-1  
 Sec. 10 Twp. 35 S. R. 5  East  West County: Harper

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Array Induction Log</b> <b>Density Neutron Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Mississippi</td> <td>4860'</td> <td>1239'</td> </tr> </table> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">                 RECEIVED                  OCT 17 2012                  KCC WICHITA             </div>	Name	Top	Datum	Mississippi	4860'	1239'
Name	Top	Datum					
Mississippi	4860'	1239'					

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	15.6#	421'	J-55	350	2% Cal. Chl.
Production	7 7/8	5 1/2	15.5#	5299'	J-55	225	10% Salt 10% Gypsum

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	5060' - 5080'	4,000 gallons of NeFe HCL	
		179,246# 20/40 Ceramic Power Proppant	


TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>5129'</u> Packer At: <u>4960'</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>4/03/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf <u>0</u>	Water Bbls. <u>65</u>
Gas-Oil Ratio <u>-</u>		Gravity <u>40</u>	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>5060' - 5080'</u>
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Primexx Operating Corporation		WELL DATA SHEET	DATE
2-Apr-12	Well name	Williams	
API 053-22540 B	Well number	10-1	
FLUID LEVEL FROM SURFACE	County, St.	Grant Co.	
	Section	10-35S-5W	
CO. REP. LOGAN JUDD	Location	C SE NW	
ECOMETER	Field	LYLE	
Downhole Information		PROCEDURE/REMARKS: DANSCO 320-256-144	
Conductor Casing		Producing NG 2 1/2" X 2" X 22' 5' SM PLGR.	
		SN @4960'	
		SPM 6.25	
		LIQUID 26%	
Surface Casing: 8 5/8" 421'			
PRODUCTION CSG: 5 1/2" 5299'		CSG 10 PSI	
		TBG 200 PSI.	S.N. AT 4960'
		Fluid level 976' above S.N.	4/2/2012
Cement Top 3240'			
PRODUCTION TUBING: 5001'			
		TA 4309'	
		LIQUID LEVEL ABOVE SN 976	
		SN 4960'	
		LIQUID LEVEL ABOVE SN 976	
PERFORATIONS: 5060' - 5080'			
		PBTD 5267'	
Driller Depth 5330'			
PRODUCTION: OIL 0 WTR 71 GAS GAS 169		FLUID LEVEL TEST \$150.00	

KCC WICHITA

 <b>SUPERIOR WELL SERVICES</b> WEST-AUG-10a-SALES & SERVICE TICKET		<b>TICKET</b>		<b>41- 00000</b>		
		DATE		1/13/2012		
CHARGE TO		LEASE NAME OR PROJECT		PAGE		
<b>PRIMEXX OPERATNG</b>		<b>WILLIAMS 10-1</b>		1 of 1		
ADDRESS		STATE	COUNTY			
GET FROM CUSTOMER		KS	HARPER			
ADDRESS		FIELD		WELL PERMIT NUMBER		
GET FROM CUSTOMER		SEC.10-35S-5W				
OWNER		SERVICE ENGINEER				
PFE / PURCHASE ORDER / CONTRACT / REFERENCE		JOB TYPE	ON LOCATION	COMPLETED		
		5 1/2 Production	TIME	TIME		
SIGNATURE		NAME (PLEASE PRINT)		I have read, understood and agreed to the terms and conditions printed on the reverse side hereof which include, but are not limited to, LIMITED WARRANTY, INDEMNITY, RELEASE and PAYMENT and represent that I have full power and authority to execute this agreement.		
<b>X</b>		JERRY OGLE				
LOC	ITEM REFERENCE	QTY	DESCRIPTION	DISC ACCT	UNIT PRICE	AMOUNT
-	20-200-0001	300	Mileage DOT Units - Cmt - per unit, per mile, one way	68.00	7.60	2,280.00
-	20-200-0002	150	Mileage non-DOT Units -Cmt - per unit, per job	68.00	4.30	645.00
-	20-220-0055	1	Depth Pumped 5,001' to 5,500' - first 4 hours, per unit	68.00	4,410.00	4,410.00
-	20-299-0008	1	AccuDat Recording System- each, per job	68.00	1,230.00	1,230.00
-	20-200-0008	33,750	Bulk Cement Delivery - per sack, per one way mile	68.00	0.18	6,075.00
-	20-215-0001	225	Bulk Blending Service - per sack	68.00	3.20	720.00
-	20-299-0007	1	Plug Container HP or Double - each, per job	68.00	710.00	710.00
-	20-299-0010	1	High Energy Mix System (HEMS) - each, per job	68.00	746.00	746.00
-	25-315-0020	5	No Foam 2 - per gallon	68.00	141.00	705.00
-	50-760-0055	1	Rubber Plug Top 5-1/2 - each	68.00	223.00	223.00
-	25-305-2000	225	Cement-Premium "H" - per sack	68.00	45.75	10,293.75
-	25-300-0003	1,529	Sodium Chloride-Salt (NaCl) - per pound	68.00	1.07	1,636.03
-	25-315-0001	106	Air Out - per pound	68.00	13.60	1,441.60
-	25-335-0003	1,542	Gilsonite - per pound	68.00	1.50	2,313.00
-	25-300-0001	2,115	Gypsum Cement 60 - per pound	68.00	1.69	3,574.35
-	25-320-0200	127	Super FL-200 - per pound	68.00	26.10	3,314.70
-	25-345-0002	10	Super CR-1 - per pound	68.00	12.90	129.00
-	50-740-0055	1	Guide Shoe 5-1/2 - each	40.00	410.00	410.00
-	50-730-0055	1	Float Collar 5-1/2 - each	40.00	1,290.00	1,290.00
-	50-725-0557	15	Centralizer 5-1/2 X 7-7/8 - each	40.00	98.40	1,476.00
-	50-750-0001	2	Thread Lock - each	40.00	153.00	306.00
-	50-775-0055	1	Stop Ring 5-1/2 - each	40.00	77.30	77.30
-	20-225-1000	-	Pressure Pumped Stand-by - per unit, per hour	-	514.00	-
-	20-200-0020	-	Delivery Additional Hours - Cmt - per unit, per hour	-	196.00	-
<b>Continuation Page \$</b>						-
CUSTOMER OR AGENT SIGNATURE / COMMENTS				Subtotal	\$	44,005.73
<b>X</b>				Special Discount	0.00%	\$ -
				Line Item Discounts	\$	(28,927.29)
Receipt: The customer or customer's agent acknowledges that the equipment, materials and services were received as listed on this field ticket.				Special Allowance	\$	-
				Subtotal	\$	15,078.44
				Fuel Surcharges	2.50%	\$ 376.96
				<b>AMOUNT DUE ==&gt;</b>	<b>\$</b>	<b>15,455.40</b>
Unless satisfactory credit terms have been established prior to services payment in advance may be required. All invoices rendered for services performed by Superior Well Services shall be paid as indicated on the invoice within thirty days (30) from date of receipt. If not paid within thirty (30) days the unpaid amount is subject to interest at one and one half percent (1 1/2%) per month (eighteen percent per annum). All discounts indicated on the invoice are based upon payment within the invoice payment term and are subject to being cancelled by Superior Well Services if not paid within terms. If it should be necessary to employ an attorney to collect the amount due, you will be held liable for attorneys' fees and collection costs. Superior Well Services, price book is incorporated herein by reference, which also contains all invoice payment terms.						



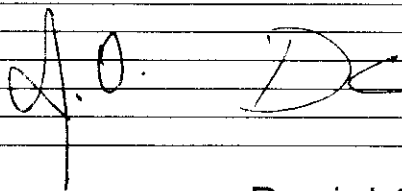
COMPANY <b>PRIMEXX OPERATING</b>			FACILITY <b>CLINTON</b>		API Number		DATE January 19, 2012		
CONTRACTOR <b>DAN D # 1</b>			TOWN <b>CALDWELL</b>		STATE <b>KS</b>		LEGAL DESCRIPTION <b>SEC.10-35S-5W</b>		
LEASE / WELL NUMBER <b>WILLIAMS # 10-1</b>			Ticket Number <b>41-0000</b>		COUNTY <b>HARPER</b>		MILEAGE ONE WAY <b>150</b>		
DIRECTIONS <b>RED HILL RD &amp; HWY 11-13 MILES NORTH TO KANSAS STATE LINE 2 NORTH ,1EAST,1/2 SOUTH,WEST INTO</b>									
Pumping Services	<input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input checked="" type="checkbox"/> Longstring <input type="checkbox"/> Plug Back <input type="checkbox"/> Conductor <input type="checkbox"/> Liner <input type="checkbox"/> Squeeze <input type="checkbox"/> Acid <input type="checkbox"/> PTA <input type="checkbox"/> Other <input type="checkbox"/> H2S								
	Casing Size/Weight	Thread	Tong/DP Size	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	<b>5 1/2</b>	<b>8 RD</b>			<b>X</b>	<b>X</b>	<b>X</b>		<b>185</b>
	Number and Type Units <b>1 PUMP ,1 BULK</b>						BHST <b>134</b>	BHCT <b>109</b>	Hole Size <b>7 7/8</b>
Remarks <b>HAVE A SAFE JOB!</b>						Depth-TMD <b>5,350</b>	Depth-TVD <b>5350</b>	MUD WEIGH <b>9.2 WBM</b>	
Cementing Materials	CEMENT	# of Sacks	Type	Additives					
		<b>25</b>	<b>PREMIUM H</b>	<b>10 % Salt (NaCl)(BWOW) + 10 % Gypsum-60 + 0.5 % Air Out + 0.6 % Super FL-200 + 8 LB/SK Gilsonite + 0.05 % Super CR-1</b>					
	Weight PPG	Yield Ft3/Sk	Water Gal/Sk	<i>76.75 cf - 12.77 bbl - 9.4 mix H2O</i>					
	<b>12.0</b>	<b>2.87</b>	<b>15.88</b>						
	# of Sacks	Type	Additives						
	<b>200</b>	<b>PREMIUM H</b>	<b>10 % Salt (NaCl)(BWOW) + 10 % Gypsum-60 + 0.5 % Air Out + 0.6 % Super FL-200 + 8 LB/SK Gilsonite + 0.05 % Super CR-1</b>						
	Weight PPG	Yield Ft3/Sk	Water Gal/Sk	<i>334 cf - 59.5 bbl - 34 mix H2O</i>					
	<b>14.30</b>	<b>1.67</b>	<b>7.19</b>						
	# of Sacks	Type	Additives						
Spacer or Flush	Quantity	Type	REMARKS						
Spacer or Flush	Quantity	Type	Additives						
Other	Quantity	Type	Additives						
	<b>124</b>	<b>FRESH WATER</b>	<b>DISPLACEMENT (ALWAYS REFIGURE ON LOCATION)</b>						
Remarks/HSE	<b>TAKE 5 1/2 PLUG CONTAINER + MANIFOLD + 8 RD BOWEL + TAKE TOP RUBBER PLUG + TAKE 10 GALS OF NO FOAM + TALK TO CUSTOMER ABOUT PROCEDURES+5 1/2 FLOAT EQUIPMENT ALREADY ON LOCATION + WE TO TAKE 1-8 5/8 GUIDE SHOE,1-8 5/8 INSERT FLOAT VALVE,3- 8 5/8X 12 CENTRALIZERS,1 -AUTO FILL UNIT FLOAT EQUIPMENT, AND 2- THREAD LOCK</b>								
Sales Items	Casing Size	Casing Weight	Thread						
	Guide Shoe	<b>1-5.5</b>	Float Shoe	Float Collar	<b>1-5.5</b>	Insert Float Valve			
	Centralizers - Number	<b>15--</b>	<b>5.5X7 7/8</b>	Size		Type			
	Well Cleaners - Number	Type		MSC (DV Tool)		MSC Plug Set			
	Limit Clamps	<b>1-5.5</b>	<b>STOP RING</b>	Weld-A		Other			
Remarks	<b>2 THRAD LOCK</b>								
Customer Rep. <b>JERRY OGLE</b>			Phone Number <b>580-541-5185</b>		Fax		Time of Call		
Call Taken By <b>SHANNON KLEIN</b>							Time Ready		

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# CEMENT TREATMENT REPORT



Customer: PRIMEXX			Date: 1/27/2012		Invoice #:		Serv. Supv: daniel carter				
Lease			Well Name: WILLIAMS 10-1				County: HARPER				
District: CLINTON OK			Rig: DAN D 1		Type of Job: PRODUCTION						
Plugs		Casing Hardware			Physical Slurry Properties						
					Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Slurry Bbls	Mix Water Bbls	
Materials Furnished by Superior											
Spacer	12 BBL SPACER				25	12	2.87	15.88	12	9.4	
Lead											
Tail					200	14.3	1.67	7.19	59	34	
top out cmt											
HOLE			TUBING - CASING - DRILL PIPE					COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE	
7 7/8	185	5308	5 1/2	15.5				42	5275		
LAST CASING			PKR / CMT RET / LINER PKR		PERF DEPTH		TOP CONN		WELL FLUID		
SIZE	WT	DEPTH	BRAND / TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT
DISPL VOLUME		DISPL FLUID		CAL PSI		MAX TUBING PRES		MAX CSG PRESSURE		MIX WATER	
VOLUME	UOM	TYPE	WGT	BMP	PLUG	RATED	WORKING	RATED	WORKING		
125		FW									
Time	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard	9:00	Time Left Loc				
					Time Arrived Loc	12:00	Time Arrived Yard				
0800					PRE CONVOEY SAFETY MEETING						
1000					LOCATION HAZARD ASSESSMENT						
1120					SAFETY MEETING						
1155		3000		FW	TEST LINES						
1200	5	280	12	CMT	CMT SPACER						
					PUMPED LEAD CMT						
1203	5	300	59.5	CMT	PUMPED TAIL CMT						
1225					SHUT DOWN/DROP PLUG						
1227	6	530		FW	START DISPLACEMENT						
1243	2.5	780	105	FW	SLOW DOWN TO LAND PLUG						
1250	2.5	1000	120	FW	LAND PLUG/ TOOK FROM 1000 TO 1500#						
1253					RELEASE PRESSURE/CHECK FLOATS/1/2 OF A BBL BACK						
											
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface							
YES	1000	YES	0	0 Bbls	<b>Daniel Carter</b> Service Supervisor						

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# Superior Well Services

22096 West Highway 73  
Clinton, Oklahoma 73601

Office: 580 323 0058

Fax: 580 323 8629

[www.swsj.com](http://www.swsj.com)

**BREAK THROUGH**

## Primary Cementing Proposal

### PRIMEXX OPERATING

**WILLIAMS #10-1**

**5 1/2 IN PRODUCTION CASING**

#### Well Location

Field: SEC. 10-35S-5W  
County: HARPER  
State: KS

Rig Name: **DAN D #1**

#### Well Information

Casing Size: 5 1/2 [in]  
Casing Depth: 5350 [ft]  
TVD: 5350 [ft]  
O.H. Size: 7 7/8 [in]  
O.H. Depth: 5350 [ft]

#### Water Estimates

Spacer: 0.0 [bbls]  
Total Mix Water: 40.3 [bbls]  
Displacement: 124.0 [bbls]  
Wash up: 30.0 [bbls]



Pvs. Casing Size: 8 5/8 [in]  
Pvs. Casing Depth: 300 [ft]  
BHST: 133.5 [°F]  
BHCT: 109 [°F]

Total Water Estimate: 194.4 [bbls]

**BREAK THROUGH**

Prepared For: **JERRY OGLE**

Date Prepared: 1/15/12

Prepared By: **JOEY BITTEL**

Phone: 580-530-1201

Fax: 580-323-8629

Email: [Joseph.Bittel@nabors.com](mailto:Joseph.Bittel@nabors.com)

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DISCLAIMER OF LIABILITY: With respect to this report, neither Superior Well Services nor any of their employees, makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.



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## BREAK THROUGH

### Well Bore Information

PRIMEXX OPERATING

WILLIAMS #10-1

5 1/2 IN PRODUCTION CASING

Drilling Fluid 9.0 ppg Water Based Drilling Fluid

Spacers

Previous Casing Depth:  
300 [ft]

Casing in Casing Factor:  
0.1931 [cuft/ft]

#### Scavenger

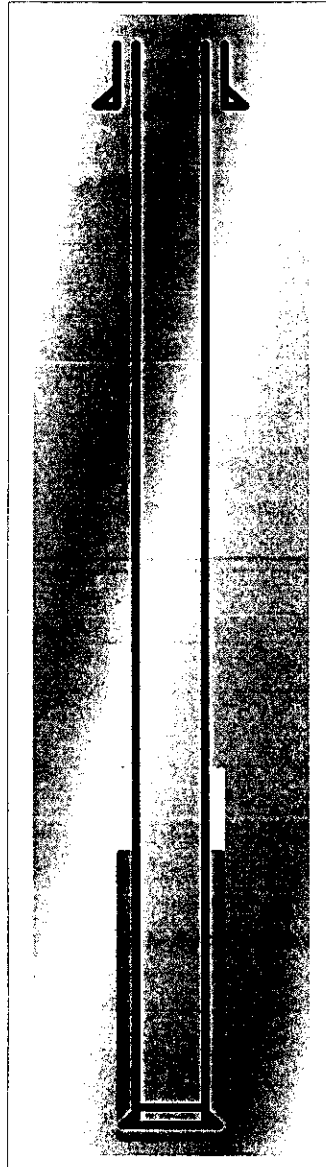
Top: 3585 [ft]  
Fill: 415 [ft]  
Excess: 0 %  
Vol: 72 [cuft]

Differential Pressure  
612 [psi]  
[assumes vertical hole]

Total Annular Excess  
26 %

Casing in OH1 Factor:  
0.1733 [cuft/ft]  
(Without Excess)

Casing Capacity Factor:  
0.1313 [cuft/ft]



Note: Drawing may not be 100%  
Accurate with different situations.

#### Tail Cement

Top: 4000 [ft]  
Fill: 1350 [ft]  
Excess: 26 %  
Vol: 300 [cuft]

Shoe Track Length  
44 [ft]

Measured Depth  
5,350 [ft]

Displacement Volume: 124 [bbls]

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**BREAK THROUGH**

PRIMEXX OPERATING

WILLIAMS #10-1

5 1/2 IN PRODUCTION CASING

## Mud / Cement Spacer System:

0 bbls @ 8.32 [lb/gal]

### Scavenger

25 sks

Premium Class "H" + 10% Salt (NaCl) (BWOW) + 10% Gypsum - 60 + 0.5% Air-Out + 0.6% Super FL -200 + 8  
LB/SK Gilsonite + 0.05% Super CR-1

Mix Weight: 12.0 [lb/gal]

Yield: 2.87 [cuft/sk]

Mix Water: 15.88 [gal/sk]

## No Lead System

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## Tail System

180 sks

Premium Class "H" + 10% Salt (NaCl) (BWOW) + 10% Gypsum - 60 + 0.5% Air-Out + 0.6% Super FL -200 + 8  
LB/SK Gilsonite + 0.05% Super CR-1

Mix Weight: 14.30 [lb/gal]

Yield: 1.67 [cuft/sk]

Mix Water: 7.19 [gal/sk]

## Displacement Fluid

124 bbls of Water

*Always refigure on location!!!!*





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Office: 580 323 0058

Fax: 580 323 8629

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## BREAK THROUGH

Price Code	Description	Amount	Units of Sale	Unit Cost	Total Cost
20-200-0001	Mileage DOT Units - Cmt - per unit, per mile, one way	300	ut-mi	\$ 7.60	\$ 752.40
20-200-0002	Mileage non-DOT Units -Cmt - per unit, per job	150	ut-mi	\$ 4.30	\$ 212.85
20-220-0055	Depth Pumped 5,001' to 5,500' - first 4 hours, per unit	1	unit	\$ 4,410.00	\$ 1,455.30
20-299-0008	AccuDat Recording System- each, per job	1	ea	\$ 1,230.00	\$ 405.90
20-200-0008	Bulk Cement Delivery - per sack, per one way mile	30750	sk-mi	\$ 0.18	\$ 1,826.55
20-215-0001	Bulk Blending Service - per sack	205	sk	\$ 3.20	\$ 216.78
20-299-0007	Plug Container HP or Double - each, per job	1	ea	\$ 710.00	\$ 234.30
20-299-0010	High Energy Mix System (HEMS) - each, per job	1	ea	\$ 746.00	\$ 246.18
25-315-0020	No Foam 2 - per gallon	5	gal	\$ 141.00	\$ 232.65
50-760-0055	Rubber Plug Top 5-1/2 - each	1	ea	\$ 223.00	\$ 73.59
25-305-2000	Cement-Premium 'H' - per sack	205	sk	\$ 45.75	\$ 3,099.22
25-300-0003	Sodium Chloride-Salt (NaCl) - per pound	1410	lb	\$ 1.07	\$ 497.70
25-315-0001	Air Out - per pound	96	lb	\$ 13.60	\$ 433.01
25-335-0003	Gilsonite - per pound	1642	lb	\$ 1.50	\$ 812.91
25-300-0001	Gypsum Cement 60 - per pound	1930	lb	\$ 1.69	\$ 1,076.16
25-320-0200	Super FL-200 - per pound	116	lb	\$ 26.10	\$ 997.20
25-345-0002	Super CR-1 - per pound	10	lb	\$ 12.90	\$ 41.07

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-- Fuel Surcharge - as applied 1 ea \$ 955.59 \$ 315.34

Gross Price \$ 39,179.13

Discounted Price \$ 12,929.13

### Items not Requested

Price Code	Description	Amount	Units of Sale	Unit Cost	Total Cost
50-740-0055	Guide Shoe 5-1/2 - each	1	ea	\$ 410.00	\$ 410.00
50-730-0055	Float Collar 5-1/2 - each	1	ea	\$ 1,290.00	\$ 1,290.00
50-725-0557	Centralizer 5-1/2 X 7-7/8 - each	15	ea	\$ 98.40	\$ 1,476.00
50-750-0001	Thread Lock - each	2	ea	\$ 153.00	\$ 306.00
50-775-0055	Stop Ring 5-1/2 - each	1	ea	\$ 77.30	\$ 77.30

40.00 % Special Discount Applied \$ 2,135.58

DISCLAIMER OF LIABILITY: With respect to this report, neither Superior Well Services nor any of their employees, makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.



# Superior Well Services

22096 West Highway 73  
Clinton, Oklahoma 73601

Office: 580 323 0058

Fax: 580 323 8629

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## Superior Chemical Descriptions

Chemical	Description
Premium Class "H"	API Class "H" Portland Cement [94 lbs/sk]
Salt (NaCl)	Sodium Chloride Salt used for many functions
Air-Out	Anti-foam agent used to prevent general foaming. Air Out has no effect on cement properties and it is compatible with all API classes of cement and additives.
Gilsonite	Low density (SG=1.07) asphaltite mineral extender made up of black angular solids used to prepare lower density cements.
Gypsum - 60	Gypsum cement additive used for thixotropic cements or its expansive properties.
Super FL -200	Powdered polysaccharide derivative type fluid loss agent for applications up to 220 F, also effective with salt concentrations up to 18%.
Super CR-1	Low temperature cement retarder used to control thickening time <190 F

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## BREAK THROUGH

### Superior Equipment and Personnel Requested

Well Head Connection	<b>5 1/2" Cement Head</b>	<i>Single Plug Pull Pin Style with Quick Latch Bowl type connection</i>
	<i>This bid includes the use of Superior's circulating equipment (5 loops, 2 chicks, and the appropriate swage) to be used at the request of the client. The co-rep should give Superior 24 hrs notice to get the equipment delivered to location.</i>	
Cement Pump Truck	<i>1 Superior tractor trailer mounted cement double pump. Superiors tractor trailer cement pumps consist of a recirculating jet mixer, non-radioactive densiometer, 2 high pressure triplex pumps, and data ports to record pressures, rates and densities with Superior's AccuDat software.</i>	
	<i>This quote is for 4 hours on location, after that time any down hole pump will be charged at \$575.00 (0% discount) per hour and any standby pump at \$514.00 per hour .</i>	
Cement Bulk Units	<i>Superior Tractor Trailer style bulk trucks with 2 330 cuft bulk material bottles.</i>	
	<b>RECEIVED OCT 17 2012 KCC WICHITA</b>	
AccuDat Software	<i>This quote is for 4 hours on location for the mobile bulk equipment, additional hours will be charged at \$196.00 (0% discount) per hour per truck on mobile bulk units only.</i> <i>Superior records all jobs with our AccuDat acquisition software. It is capable of recording pressures, rates, and densities simultaneously. AccuDat shows graphs and digital displays as the job is happening. After the job a post job report can be printed out and given to the customer.</i>	
Wellsite Services	<i>A derrick charge of \$886 can be applied when the plug container is more than 10 ft off the rig floor, a \$2220 charge for circulating equipment requested before the crew arrives, and a \$123 charge for a plug container left on the well. All are subject to the appropriate discount.</i>	
Technical Services	<i>Superior Provides may other services at no charge. Included in that are pressurized mud scales, Cement Job Simulation (requested), Wet and Dry Samples, and Cementing Lab testing when applicable.</i>	
Personnel Services	<i>Superior's personnel are provided at no charge for this job</i>	



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**BREAK THROUGH.**

January 15, 2012

JERRY OGLE

The services and materials quoted are based on the best information available at the time that this quotation was prepared. When the actual work is performed the amounts and types of services and materials may require adjustments from this quotation. Actual amounts and types of services and materials will be charged at the time the work is performed. Unit prices from Superior's current price list and discounts quoted are applied as per this quotation, unless otherwise noted.

This quotation is for the materials and services presented under this cover letter. The prices and discounts are based on Superior being awarded the work on a first call basis. Prices maybe adjusted if the work is not on a first call basis. Prices are valid for a period of 3 months following this quotation. Taxes, if any, will be applied to the actual invoice.

All services and materials sold and provided by Superior are subject are General Terms and Conditions, which includes warranty and limited liability provisions. It is agreed between both parties that all materials and services are furnished within the Superiors' General Terms and Conditions and customary Work Order Agreement.

Sincerely

JOEY BITTEL

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~~Cement Report~~

### Client Information

Client Reference	CHES1
Client	CHESAPEAKE OPERATING INC
Address	PO BOX 18496
City State Zip	OKLAHOMA CITY OK 73154-0496
Phone	832-209-1036
Representative	joe prather

### Lease/Project/Well Information

Job Type	Casing Cement Job - 9 5/8
Lease or Project	bouuzen
Lease Number	34-27-13 1H
Physical Location	34-27n-13w
Township	alva
County	WOODS
State	OK
Country	usa

### Service Center Information

Service Center	Clinton
Location Code	41
SWSI Entity	Superior Well Services
Location Address	22096 Hwy 73 West
City State Zip	Clinton OK 73601
Phone	580-323-0058

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### Pre-Job Information

#### Well Information

Casing Size	9 5/8
Casing Weight	36
Casing Connection	8rd
Casing I.D.	
Hole Size	12 1/4
Calculated Annular Excess %	150
BHST	95
T.D.	1525
Casing Length	40
Shoe Joint	43
Float Collar	1490.26
Calculated T.O.C.	surface
Previous Casing Depth	
Previous Casing Size	
Previous Casing Weight	

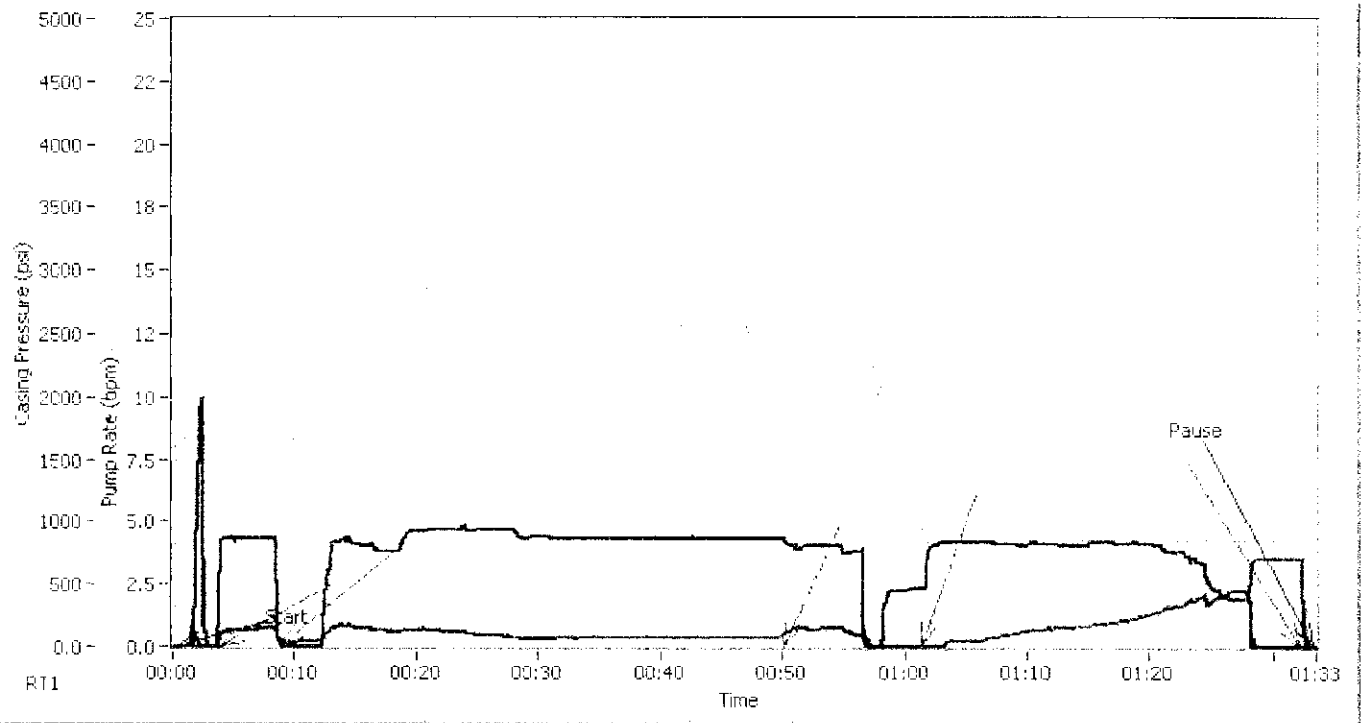
Drill Pipe Size	4
Drill Pipe Weight	14

### Call-Out Information

Service Center(s)	Same
Bulk Location(s)	Same
Pumping Equipment	0465
Auxilliary Equipment	2bulk truck
Time Called Out	
Time On Location	
Planned Time of Job	
Weather Conditions	

### [1] New Stage Surface Casing

#### [1] New Stage Surface Casing - Recorded Time Plot 1

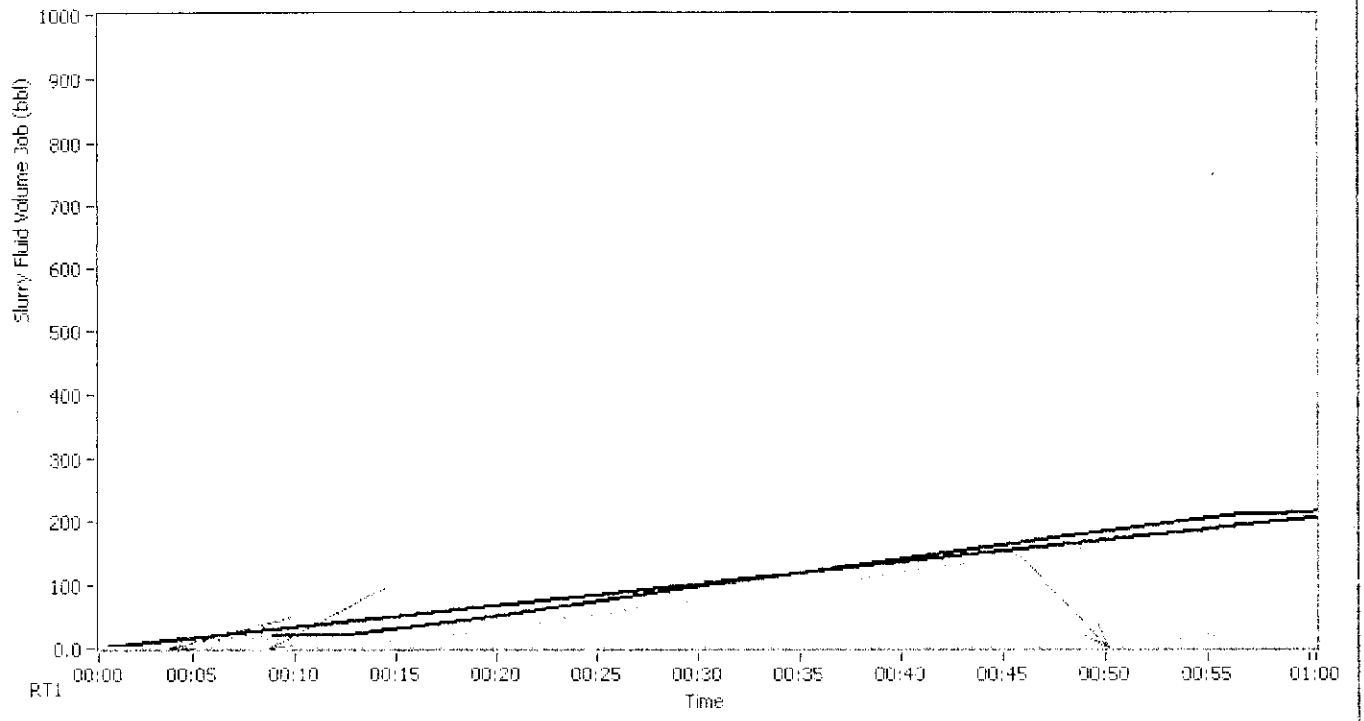


[1] New Stage Surface Casing - Recorded Time Plot 1

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[1] New Stage Surface Casing - Recorded Time Plot 2



[1] New Stage Surface Casing - Recorded Time Plot 2

[1] New Stage Surface Casing - Total(s)

Time	Comment	SLRY VOL STG-bbls	SLRY VOL TOT-bbls
18:00:00			
19:14:40	h2o spacer	0.0	0.3
19:19:32	pump lead	0.0	20.4
20:01:00	pump tail	0.0	184.1
20:12:14	h2o displace	0.0	216.9
20:43:06	release psi, check floats	0.0	318.2
20:44:23		0.0	318.2

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[1] New Stage Surface Casing - Job Log

Time	Comment	DENSITY-ppg	PUMP RATE-bpm	SLRY VOL STG-bbls	SLRY VOL TOT-bbls	CASING-psi (2)
19:14:11	test lines	8.31	0.0	0.3	0.3	0
19:14:40	h2o spacer	8.31	2.0	0.0	0.3	0
19:14:41		8.31	2.6	0.0	0.3	0
19:17:11	h2o spacer	8.33	4.3	10.5	10.8	138
19:19:32	pump lead	8.34	0.3	0.0	20.4	69
19:19:33		8.34	0.3	0.0	20.4	68
19:20:11	pump lead	8.17	0.0	0.1	20.5	34
19:23:11	pump lead	13.12	0.2	0.1	20.5	40
19:26:12	pump lead	12.92	4.1	11.4	31.8	148
19:29:12	pump lead	13.47	3.8	23.0	43.5	119





Time	Comment	DENSITY-ppg	PUMP RATE- bpm	SLRY VOL STG-bbls	SLRY VOL TOT-bbls	CASING-psi (2)
19:32:12	pump lead	14.61	4.7	36.4	56.9	127
19:35:13	pump lead	13.46	4.6	50.5	71.0	100
19:38:13	pump lead	13.30	4.7	64.6	85.1	80
19:41:13	pump lead	12.50	4.4	78.0	98.5	60
19:44:13	pump lead	13.35	4.3	91.0	111.5	68
19:47:13	pump lead	12.94	4.3	103.9	124.5	72
19:50:13	pump lead	12.64	4.3	116.9	137.5	69
19:53:13	pump lead	13.65	4.3	129.8	150.5	69
19:56:13	pump lead	12.55	4.3	142.8	163.5	70
19:59:14	pump lead	12.42	4.3	155.8	176.5	72
20:01:00	pump tail	14.33	4.3	0.0	184.1	98
20:01:00		14.35	4.3	0.0	184.2	98
20:02:14	pump tail	15.33	3.9	5.0	189.1	159
20:05:14	pump tail	15.20	4.0	17.0	201.1	149
20:08:14	pump tail	13.21	0.0	26.1	210.1	0
20:11:14	pump tail	7.15	2.3	30.6	214.6	0
20:12:14	h2o displace	6.60	2.3	0.0	216.9	0
20:12:15		6.38	2.3	0.0	217.0	0
20:14:14	h2o displace	4.21	4.2	7.2	224.2	0
20:17:15	h2o displace	4.22	4.2	20.0	236.8	48
20:20:15	h2o displace	4.25	4.0	32.4	249.3	108
20:23:15	h2o displace	4.23	4.1	44.8	261.6	139
20:26:15	h2o displace	4.24	4.2	56.9	273.7	170
20:29:16	h2o displace	4.26	4.1	69.5	286.3	211
20:32:16	h2o displace	4.24	3.8	81.7	298.6	316
20:35:16	h2o displace	4.26	3.3	92.6	309.4	408
20:38:17	h2o displace	4.25	2.2	99.5	316.3	373
20:41:16	h2o displace	4.25	0.0	101.4	318.2	705
20:43:06	release psi, check floats	4.25	0.0	0.0	318.2	705
20:43:06		4.25	0.0	0.0	318.2	706
20:44:17	release psi, check floats	-1.10	0.0	0.0	318.2	-1076
20:44:21	End Job	-1.11	0.0	0.0	318.2	-1078

[1] New Stage Surface Casing - Key & Unit(s)

Name	Abbreviation	Units
Casing Pressure	CASING-psi (2)	psi
Pump Rate	PUMP RATE-bpm	bpm
Pump 1 Rate	PUMP1f	bpm
Pump 2 Rate	PUMP2f	bpm
Cement Density	DENSITY-ppg	ppg
Slurry Fluid Volume Stage	SLRY VOL STG-bbls	bbl
Slurry Fluid Volume Job	SLRY VOL TOT-bbls	bbl
Pump 1 Pressure	PUMP1p	psi

## Post-Job Information

Post Job Summary

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Pressure Test	2000
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Initial Circulating Rate	4.5
Initial Circulating Pressure	127
Lead Slurry Sacks	410
Lead Slurry Volume	135
Tail Slurry Sacks	145
Tail Slurry Volume	30.7
Bottom Plug Displacement	
Top Plug Displacement	115
Cmt Vol Circulated to Surface	30
Average Displacement Rate	4.5
Final Circulating Rate	2
Final Circulating Pressure	600 to 700
Plug Bumped?	YES
Pressure When Plug Bumped	yes, wooden plug shut down when it hit at 600 took to 700
Floats Hold?	YES GOT 1/2 of a BBL BACK
	THANK YOU
	DANIEL CARTER AND CREW

## Disclaimer

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND SUPERIOR WELL SERVICES (SUPERIOR) CANNOT AND DOES NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. SUPERIOR EXCLUDES AND DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, AMONG OTHERS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXCEPT FOR WARRANTY OF TITLE. SUPERIOR DOES NOT GUARANTEE OR WARRANT: (1) THAT ITS CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA SUPPLIED BY SUPERIOR IS ABSOLUTELY ACCURATE DUE TO THE NUMEROUS VARIABLES WITHIN A WELL; (2) OR THE EFFECTIVENESS OF THE PRODUCT OR THE RESULT OF ITS' USE. THE REMEDY OF THE CUSTOMER IN ANY CLAIM OR LITIGATION ARISING FROM THE SALE OR USE OF ITS PRODUCT IS EXPRESSLY LIMITED TO THE REPLACEMENT COST OF THE PRODUCT. SELLER SHALL NOT BE LIABLE TO CUSTOMER OR ANY OTHER PARTY FOR ANY OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR WHATEVER. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR CURRENT GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

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# Sacks: 25 sacks      Total # Sacks for Job 25 sacks      # of Pulls 1  
 Spacer Vol: \_\_\_\_\_ bbl      Ft<sup>3</sup> per Sack 1.42 ft<sup>3</sup>      Max. amount sacks per Bulk Tank 185.6697  
 Spacer Wt: \_\_\_\_\_ lb/gal      Bulk Tank Capacity 330 ft<sup>3</sup>  
 Mileage: 150 miles (one way)  
 Prepared by: SHANNON KLEIN      Number of Samples Caught: \_\_\_\_\_  
 Date: 1/20/2012  
 Customer: PRIMEXX  
 Well Name: WILLIAMS 10-1  
 Job Type: 5.5 PRODUCTION  
 Slurry Type: SCAVENGER PREMIUM

Density	12.10 ppg
Yield	2.80 cuft/sk
Water	15.88 gps

Bulk Materials for Cement (25-sacks)							
Concentration	Material Name	Abs Vol (gal/lb)	lbs/sk	ga/sk	Total Wt (lbs)	Running Total Material	Material Quantities
15.88 gps	Water	0.1200	132.280	15.880			
100.00 %	Premium	100003687 0.0382	94.000	3.594	2,350	2,350	25 sacks
10.00 %	Salt	100003652 0.0394	13.228	0.521	331	2,681	7 sacks
0.50 %	Air Out	101007446 0.0889	0.470	0.042	12	2,692	12 lb
4.00 pps	Koi Seal	100001618 0.1122	3.760	0.422	94	2,786	94 lb
0.60 %	FL-200	100001617 0.0984	0.564	0.055	14	2,801	14 lb
10.00 %	Gypsum	xxxxx 0.0445	9.400	0.418	235	3,036	5 sacks
0.05 %	CR-1	100005050 0.0851	0.047	0.004	1	3,037	1 lb

Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003654	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001615	-	-
lb/bbl	CR-1	-	-	-
lb/bbl		-	-	-

Bulk Material Charges (Sub-Total)				
			Pounds	Tons
Service Charge (cu-ft) for Cement:	36	Bulk Cement Materials Weight:	3,037	2
Service Charge (cu-ft) for Spacer:	-	Bulk Spacer Materials Weight:	-	-
Service Charge (cu-ft):	36	Bulk Material Weight (tons):	-	2
Ton Mileage Based on 150-miles (one way):			228	

Total Job Bulk Material Charges		
Total Service Charge (cu-ft):		300
Total Bulk Material Weight (tons):		13
Total Ton Mileage Based on 150-miles (one way):		1,941

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# Sacks: 200 sacks      Total # Sacks for Job 200 sacks      # of Pulls 1  
 Spacer Vol: - bbl      Ft<sup>3</sup> per Sack 1.32 ft<sup>3</sup>      Max. amount sacks per Bulk Tank 200.0113  
 Spacer Wt: - lb/gal      Bulk Tank Capacity 330 ft<sup>3</sup>  
 Mileage: 150 miles (one way)  
 Prepared by: SHANNON KLEIN      Number of Samples Caught: \_\_\_\_\_  
 Date: 1/20/2012  
 Customer: PRIMEXX  
 Well Name: WILLIAMS 10-1  
 Job Type: 5.5 PRODUCTION TAIL  
 Slurry Type: PREMIUM TAIL

Density	14.60 ppg
Yield	1.60 cuft/sk
Water	7.19 gps

Bulk Materials for Cement (200-sacks)								
Concentration	Material Name		Abs Vol (gal/lb)	lbs/sk	gal/sk	Total Wt (lbs)	Running Total Material	Material Quantities
7.19 gps	Water		0.1200	59.893	7.190			
100.00 %	Standard	100003684	0.0382	94.000	3.594	18,800	18,800	200 sacks
10.00 %	Salt	100003652	0.0394	5.989	0.236	1,198	19,998	24 sacks
0.50 %	Air Out	101007446	0.0889	0.470	0.042	94	20,092	94 lb
4.00 pps	Koi Seal	100001618	0.1122	3.760	0.422	752	20,844	752 lb
0.60 %	FL-200	100001617	0.0984	0.564	0.055	113	20,957	113 lb
10.00 %	Gypsum	xxxxx	0.0445	9.400	0.418	1,880	22,837	38 sacks
0.05 %	CR-1	100005050	0.0851	0.047	0.004	9	22,846	9 lb

Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003654	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001615	-	-
lb/bbl	CR-1		-	-
lb/bbl			-	-

Bulk Material Charges (Sub-Total)				
Service Charge (cu-ft) for Cement:	264	Bulk Cement Materials Weight:	22,846	11
Service Charge (cu-ft) for Spacer:	-	Bulk Spacer Materials Weight:	-	-
Service Charge (cu-ft):	264	Bulk Material Weight (tons):	-	11
Ton Mileage Based on 150-miles (one way):			1,713	
Total Job Bulk Material Charges				
Total Service Charge (cu-ft):			300	
Total Bulk Material Weight (tons):			13	
Total Ton Mileage Based on 150-miles (one way):			1,941	

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# Sacks: 1 sacks      Total # Sacks for Job: 1 sacks      # of Pulls: 1  
 Spacer Vol: - bbl      Ft<sup>3</sup> per Sack: 0.00 ft<sup>3</sup>      Max. amount sacks per Bulk Tank: #DIV/0!  
 Spacer Wt: - lb/gal      Bulk Tank Capacity: 330 ft<sup>3</sup>  
 Mileage: - miles (one way)  
 Prepared by: \_\_\_\_\_      Number of Samples Caught: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Customer: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Job Type: \_\_\_\_\_  
 Slurry Type: \_\_\_\_\_

Density	#DIV/0!	ppg
Yield	-	cuft/sk
Water	-	gps

Bulk Materials for Cement (1-sacks)							
Concentration	Material Name	Abs Vol (gal/lb)	lbs/sk	gal/sk	Total Wt (lbs)	Planning Total Material	Material Quantities
ggs	Water	0.1200	-	-	-	-	-
%	Standard	100003684	0.0382	-	-	-	- sacks
%	Pozmix	100003690	0.0487	-	-	-	- sacks
%	Barite	100003681	0.0284	-	-	-	- sacks
%	Gel	100003682	0.0453	-	-	-	- lb
pps	HI-Dense #3	100003769	0.0239	-	-	-	- sacks
%bwow	KCl	100001585	0.0440	-	-	-	- sacks
%bwow	Salt	100003652	0.0371	-	-	-	- sacks
%	Super SF (SF-100)	100003691	0.0453	-	-	-	- lb
%	Super SF (SF-200)	100003676	0.0453	-	-	-	- lb
%	Calcium Chloride	100005053	0.0558	-	-	-	- sacks
%	Attapulgitte	100012204	0.0465	-	-	-	- lb
%	CD-20	100003653	0.0938	-	-	-	- lb
%	Air Out	101007446	0.0889	-	-	-	- lb
%	DiaSeal M	N/A	0.0630	-	-	-	- lb
%	Dual Blend	100003654	0.0529	-	-	-	- sacks
%	Super Sil - SP	100001580	0.0500	-	-	-	- sacks
%	EZ-FLO	101002314	0.0834	-	-	-	- lb
%	FE-2	100001615	0.0721	-	-	-	- lb
pps	Super Flake	100005049	0.0845	-	-	-	- lb
%	P-ASA	100003714	0.0864	-	-	-	- lb
%	Gas X 300	100003701	0.1009	-	-	-	- lb
%	Gas X 350	100008209	0.0839	-	-	-	- lb
pps	Kof Seal	100001618	0.1122	-	-	-	- lb
%	FL-200	100001617	0.0984	-	-	-	- lb
%	FL-300	101209204	0.0839	-	-	-	- lb
%	FL-350	100003646	0.0938	-	-	-	- lb
%	Halad-344	100003670	0.0984	-	-	-	- lb
%	Halad-413	100003738	0.0811	-	-	-	- lb
%	Halad-567	101201428	0.0822	-	-	-	- lb
%	Microbond	100003669	0.0375	-	-	-	- lb
%	Microbond HT	100003723	0.0336	-	-	-	- lb
%	Micromax	100064169	0.0245	-	-	-	- lb
%	Microsand	100003771	0.0453	-	-	-	- lb
%	SA-541	100009911	0.0857	-	-	-	- lb
%	Silicalite	100003722	0.0522	-	-	-	- lb
%	SteelSeal	100010453	0.0750	-	-	-	- sacks
%	Super CBL	100003668	0.0443	-	-	-	- lb
%	Suspend HT	100003803	0.0785	-	-	-	- lb
%	Tuned Blend	12219	0.0507	-	-	-	- sacks
%	Gypsum	xxxxx	0.0445	-	-	-	- sacks
%	Hydrated Lime	xxxxx	0.0513	-	-	-	- lb
pps	Pressur Seal	xxxxx	0.0500	-	-	-	- sacks
pps	Mud Save F	xxxxx	0.0923	-	-	-	- sacks
<b>RETARDERS</b>							
%	Component R	100001584	0.0686	-	-	-	- lb
%	HR-4	100005056	0.0770	-	-	-	- lb
%	CR-1	100005050	0.0851	-	-	-	- lb
%	CR-2	100005055	0.0851	-	-	-	- lb
%	HR-12	100005057	0.0984	-	-	-	- lb
%	HR-25	100003756	0.0682	-	-	-	- lb
%	SCR-100	100003749	0.0845	-	-	-	- lb

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Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003654	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001615	-	-
lb/bbl	CR-1	-	-	-
lb/bbl	-	-	-	-

Bulk Material Charges (Sub-Total)			
		Pounds	Tons
Service Charge (cu-ft) for Cement:	-	-	-
Service Charge (cu-ft) for Spacer:	-	-	-
Service Charge (cu-ft):	-	-	-
Bulk Cement Materials Weight:	-	-	-
Bulk Spacer Materials Weight:	-	-	-
Bulk Material Weight (tons):	-	-	-
Ton Mileage Based on -miles (one way):			
<b>Total Job Bulk Material Charges</b>			
Total Service Charge (cu-ft):	300		
Total Bulk Material Weight (tons):	13		
Total Ton Mileage Based on -miles (one way):	1,941		

# Superior Well Services

## CEMENT QUALITY CONTROL SHEET

COMPANY: Primexx DATE: 1/26/2012  
 LEASE: Williams 10-1 TICKET: \_\_\_\_\_  
 SERVICE SUPERVISOR'S SIGNATURE: \_\_\_\_\_  
 CREW: \_\_\_\_\_

BULK PLANT LOCATION: Clinton, OK

NAME OF LOADER: Greg

WAS BULK TRUCK/BIN BLOWN DOWN BEFORE LOADING:  YES  NO

IF PUT IN FIELD BIN, WAS BIN BLOWN DOWN:  YES  NO

MSDS PROVIDED:  YES  NO

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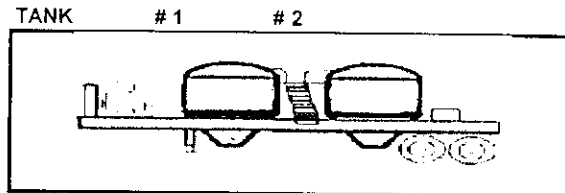
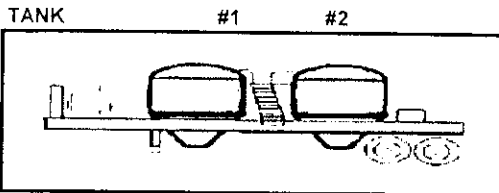
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UNIT # 3781

UNIT # \_\_\_\_\_

DRIVER # \_\_\_\_\_

DRIVER # \_\_\_\_\_



SACKS: 100 SACKS: 125

SACKS: \_\_\_\_\_ SACKS: \_\_\_\_\_

### CEMENT ADDITIVES

Class H Cement	Class H Cement
10% Salt	10% Salt
10% Gypsum	10% Gypsum
.5% Air Out	.5% Air Out
.6% Super FL-200	.6% Super FL-200
.05% Super CR-1	.05% Super CR-1
8 lb/sk Gilsonite	8 lb/sk Gilsonite

### CEMENT ADDITIVES


DRY SAMPLE  DRY SAMPLE:

DRY SAMPLE:  DRY SAMPLE:

### STAGE # 1

### SLURRY DATA

### STAGE # 2

	LEAD	TAIL
SKS	_____	_____
H2O/SK	_____	_____
FT3/SK	_____	_____
# / GAL	_____	_____

	LEAD	TAIL
SKS	_____	_____
H2O/SK	_____	_____
FT3/SK	_____	_____
# / GAL	_____	_____

### PRE-JOB CHECKLIST

MSDS LEFT ON LOCATION:  YES  NO  
 SLURRY & JOB REVIEWED WITH COMPANY REP: \_\_\_\_\_  
 SAFETY MEETING HELD: \_\_\_\_\_ YES/NO  
 CLEAN UP SITE DISCUSSED: \_\_\_\_\_ YES/NO  
 SPACERS DISCUSSED: \_\_\_\_\_ TYPE \_\_\_\_\_  
 DISPLACEMENTS DISCUSSED: \_\_\_\_\_ TYPE \_\_\_\_\_ VOLUME \_\_\_\_\_ BBLs

FLOATING EQUIPMENT VERIFIED BY CUSTOMER:  
 DV TOOL/PLUG SET CALIPERED:  YES/NO  
 WAS VOLUME OF MIXING H2O CHECKED:  YES/NO  
 WAS CEMENT & ADDITIVES RETURNED:  YES/NO HOW MUCH? \_\_\_\_\_

### THREAD TYPES

AT SURFACE \_\_\_\_\_  
 AT DV TOOL \_\_\_\_\_  
 AT FLT EQUIP \_\_\_\_\_

### POST-JOB RESULTS

LANDED PLUG? \_\_\_\_\_  
 COMMENTS \_\_\_\_\_  
 FLOAT HELD? \_\_\_\_\_



# CEMENT TREATMENT REPORT



Customer: primexx		Date: 1/20/2012		Invoice #:		Serv. Supv: daniel carter														
Lease		Well Name: williams 10-1			County: harper															
District:		Rig: dan d #1		Type of Job: surface																
Plugs		Casing Hardware		Physical Slurry Properties																
				Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Slurry Bbls	Mix Water Bbls											
Materials Furnished by Superior																				
Spacer	20 bbl water spacer																			
Lead																				
Tail	top out cmt																			
350		15.6		1.19		5.2		75		43										
HOLE			TUBING - CASING - DRILL PIPE					COLLAR DEPTHS												
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE										
12 1/4	185	455	8 5/8	24		438		42	396											
LAST CASING		PKR / CMT RET / LINER PKR			PERF DEPTH		TOP CONN		WELL FLUID											
SIZE	WT	DEPTH	BRAND / TYPE	DEPT-H	TOP	BTM	SIZE	THREAD	TYPE	WGT										
										fw										
DISPL VOLUME		DISPL FLUID		CAL PSI		MAX TUBING PRES		MAX CSG PRESSURE		MIX WATER										
VOLUME	UOM	TYPE	WGT	BMP PLUG		RATED	WORKING	RATED	WORKING											
25		fw	8.33	170																
Time	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard	9:00	Time Left Loc													
					Time Arrived Loc	12:30	Time Arrived Yard													
0830					PRE CONVOEY SAFETY MEETING															
1230					LOCATION HAZARD ASSESSMENT															
1525					SAFETY MEETING															
1527		1000			TEST LINES															
1531	4	60	20	fw	WATER SPACER															
					PUMPED LEAD CMT															
1535	4	140	75	cmt	PUMPED TAIL CMT															
1555					SHUT DOWN/DROP PLUG															
1600	4	140		fw	START DISPLACEMENT															
1604	2	150	20	fw	SLOW DOWN TO LAND PLUG															
1605	2	150	24	fw	LAND PLUG/ TOOK FROM 150 to 650															
1610				fw	RELEASE PRESSURE/CHECK FLOATS/1/4 OF A BBL BACK															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Bumped Plug</td> <td>Final Lift Pressure</td> <td>Floats Held</td> <td>PSI Left on Casing</td> <td>Cement to Surface</td> </tr> <tr> <td>YES</td> <td>150</td> <td>YES</td> <td>0</td> <td>35 Bbls</td> </tr> </table>											Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface	YES	150	YES	0	35 Bbls
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface																
YES	150	YES	0	35 Bbls																

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**Daniel Carter**  
 Service Supervisor

*Handwritten signature*

# Sacks: \_\_\_\_\_ sacks      Total # Sacks for Job: \_\_\_\_\_ sacks      # of Pulls: \_\_\_\_\_  
 Spacer Vol: \_\_\_\_\_ bbl      Ft<sup>3</sup> per Sack: \_\_\_\_\_ ft      Max. amount sacks per Bulk Tank: \_\_\_\_\_  
 Spacer Wt: \_\_\_\_\_ lb/gal      Bulk Tank Capacity: \_\_\_\_\_ ft<sup>3</sup>  
 Mileage: \_\_\_\_\_ miles (one way)  
 Prepared by: SHANNON KLEIN      Number of Samples Caught: \_\_\_\_\_  
 Date: 1/10/2012  
 Customer: PRIMEX OPERATING  
 Well Name: WILLIAMS #10-1  
 Job Type: 8 3/8 SURFACE  
 Slurry Type: STANDARD

Density	15.60	ppg
Yield	1.19	cuft/sk
Water	5.20	gps

Bulk Materials for Cement (350-sacks)							
Concentration	Material Name	Abs Vol (gal/lb)	lbs/sk	gal/sk	Total Wt (lbs)	Running Total Material	Material Quantities
0.25 gps	Water	0.1200	43.316	5.200			
100.00 %	Standard	0.0382	94.000	3.594	32.900	32.900	350 sacks
2.00 %	Calcium Chloride	0.0568	1.504	0.084	526	33.426	11 sacks
0.25 pps	Super Flake	0.0845	0.235	0.020	82	33.508	82 lb

Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003654	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001615	-	-
lb/bbl	CR-1	-	-	-
lb/bbl		-	-	-

Bulk Material Charges (Sub-Total)				
			Pounds	Tons
Service Charge (cu-ft) for Cement	364	Bulk Cement Materials Weight	33,509	17
Service Charge (cu-ft) for Spacer	-	Bulk Spacer Materials Weight	-	-
Service Charge (cu-ft)	364	Bulk Material Weight (tons)	-	17
			Ton Mileage Based on 150-miles (one way): 2,513	
Total Job Bulk Material Charges				
			Total Service Charge (cu-ft):	364
			Total Bulk Material Weight (tons):	17
			Total Ton Mileage Based on 150-miles (one way):	2,513

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# Sacks: \_\_\_\_\_ sacks      Total # Sacks for Job: \_\_\_\_\_ sacks      # of Pulls: \_\_\_\_\_  
 Spacer Vol: \_\_\_\_\_ cuft      Ft<sup>3</sup> per Sack: \_\_\_\_\_ ft      Max. amount sacks per Bulk Tank: \_\_\_\_\_  
 Spacer Wt: \_\_\_\_\_ lb/gal      Bulk Tank Capacity: \_\_\_\_\_ ft<sup>3</sup>  
 Mileage: \_\_\_\_\_ miles (one way)      Number of Samples Caught: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Customer: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Job Type: \_\_\_\_\_  
 Slurry Type: \_\_\_\_\_

Density	#DIV/0!	ppg
Yield		cuft/sk
Water		gps

Bulk Materials for Cement (1-sacks)							
Concentration	Material Name	Abs Vol (gal/lb)	lbs/sk	gal/sk	Total Wt (lbs)	Running Total Material	Material Quantities
ups	Water	0.1200	-	-	-	-	-
%	Standard	100003684	0.0382	-	-	-	sacks
%	Pozmix	100003690	0.0487	-	-	-	sacks
%	Barite	100003681	0.0284	-	-	-	sacks
%	Gel	100003682	0.0453	-	-	-	lb
pps	Hi-Dense #3	100003769	0.0239	-	-	-	sacks
%bwow	KCI	100001585	0.0440	-	-	-	sacks
%bwow	Salt	100003652	0.0371	-	-	-	sacks
%	Super SF (SF-100)	100003691	0.0453	-	-	-	lb
%	Super SF (SF-200)	100003676	0.0453	-	-	-	lb
%	Calcium Chloride	100005053	0.0558	-	-	-	sacks
%	Attapulgate	100012204	0.0465	-	-	-	lb
%	CD-20	100003653	0.0938	-	-	-	lb
%	Air Out	101007448	0.0889	-	-	-	lb
%	DiaSeal M	N/A	0.0630	-	-	-	lb
%	Dual Blend	100003654	0.0529	-	-	-	sacks
%	Super Sil - SP	100001560	0.0500	-	-	-	sacks
%	EZ-FLO	101000314	0.0834	-	-	-	lb
%	FE-2	100001615	0.0721	-	-	-	lb
pps	Super Flake	100005049	0.0845	-	-	-	lb
%	P-ASA	100003714	0.0864	-	-	-	lb
%	Gas X 300	100003701	0.1009	-	-	-	lb
%	Gas X 350	100008209	0.0839	-	-	-	lb
pps	Kol Seal	100001618	0.1122	-	-	-	lb
%	FL-200	100001617	0.0984	-	-	-	lb
%	FL-300	101209204	0.0839	-	-	-	lb
%	FL-350	100003646	0.0938	-	-	-	lb
%	Halad-344	100003670	0.0984	-	-	-	lb
%	Halad-413	100003739	0.0811	-	-	-	lb
%	Halad-567	101201426	0.0822	-	-	-	lb
%	Microbond	100003669	0.0375	-	-	-	lb
%	Microbond HT	100003723	0.0336	-	-	-	lb
%	Micromax	100064169	0.0245	-	-	-	lb
%	Microsand	100003771	0.0453	-	-	-	lb
%	SA-541	100009911	0.0857	-	-	-	lb
%	Silicalite	100003722	0.0522	-	-	-	lb
%	SteelSeal	100010453	0.0750	-	-	-	sacks
%	Super CBL	100003668	0.0443	-	-	-	lb
%	Suspend HT	100003803	0.0785	-	-	-	lb
%	Tuned Blend	12219	0.3507	-	-	-	sacks
%	Gypsum	xxxxx	0.0445	-	-	-	sacks
%	Hydrated Lime	xxxxx	0.0513	-	-	-	sacks
pps	Pressur Seal	xxxxx	0.0500	-	-	-	sacks
pps	Mud Save F	xxxxx	0.0923	-	-	-	sacks
RETARDERS							
%	Component R	100001584	0.0686	-	-	-	lb
%	HR-4	100005056	0.0770	-	-	-	lb
%	CR-1	100005050	0.0851	-	-	-	lb
%	CR-2	100005055	0.0851	-	-	-	lb
%	HR-12	100005057	0.0984	-	-	-	lb
%	HR-25	100003766	0.0682	-	-	-	lb
%	SCR-100	100003749	0.0845	-	-	-	lb

Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003654	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001615	-	-
lb/bbl	SP-1	-	-	-
lb/bbl	-	-	-	-

Bulk Material Charges (Sub-Total)		
	Pounds	Tons
Service Charge (cu-ft) for Cement:		
Service Charge (cu-ft) for Spacer:		
Service Charge (cu-ft):		
Bulk Cement Materials Weight:		
Bulk Spacer Materials Weight:		
Bulk Material Weight (tons):		
Ton Mileage Based on -miles (one way):		
Total Job Bulk Material Charges		
Total Service Charge (cu-ft):	364	
Total Bulk Material Weight (tons):	17	
Total Ton Mileage Based on -miles (one way):	2,513	

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# Sacks: \_\_\_\_\_ sacks      Total # Sacks for Job: \_\_\_\_\_ sacks      # of Pulls: \_\_\_\_\_  
 Spacer Vol: \_\_\_\_\_ bbl      Ft<sup>3</sup> per Sack: \_\_\_\_\_ ft<sup>3</sup>      Max. amount sacks per Bulk Tank: \_\_\_\_\_  
 Spacer Wt: \_\_\_\_\_ lb/gal      Bulk Tank Capacity: \_\_\_\_\_ ft<sup>3</sup>  
 Mileage: \_\_\_\_\_ miles (one way)  
 Prepared by: \_\_\_\_\_      Number of Samples Caught: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Customer: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Job Type: \_\_\_\_\_  
 Slurry Type: \_\_\_\_\_

Density	#DIV/0!	ppg
Yield	-	cuft/sk
Water	-	gpg

Bulk Materials for Cement (1-sacks)							
Concentration	Material Name	Abs Vol (gal/lb)	lbs/sk	gal/sk	Total Wt (lbs)	Running Total Material	Material Quantities
gpg	Water	0.1200	-	-	-	-	-
%	Standard	0.0382	-	-	-	-	- sacks
%	Pozmix	0.0437	-	-	-	-	- sacks
%	Barite	0.0284	-	-	-	-	- sacks
%	Gel	0.0453	-	-	-	-	- b
pps	Hi-Dense #3	0.0239	-	-	-	-	- sacks
%2w/0w	KCl	0.0440	-	-	-	-	- sacks
%2w/0w	Salt	0.0371	-	-	-	-	- sacks
%	Super SF (SF-100)	0.0453	-	-	-	-	- lb
%	Super SF (SF-200)	0.0453	-	-	-	-	- lb
%	Calcium Chloride	0.0568	-	-	-	-	- sacks
%	Attapulgate	0.0465	-	-	-	-	- lb
%	CD-20	0.0938	-	-	-	-	- lb
%	Air Out	0.0889	-	-	-	-	- lb
%	DiaSeal M	0.0630	-	-	-	-	- lb
%	Dual Blend	0.0529	-	-	-	-	- sacks
%	Super Sil - SP	0.0500	-	-	-	-	- sacks
%	EZ-FLO	0.0834	-	-	-	-	- lb
%	FE-2	0.0721	-	-	-	-	- lb
pps	Super Flake	0.0845	-	-	-	-	- lb
%	P-ASA	0.0864	-	-	-	-	- lb
%	Gas X 300	0.1009	-	-	-	-	- lb
%	Gas X 350	0.0839	-	-	-	-	- lb
pps	Koi Seal	0.1122	-	-	-	-	- lb
%	FL-200	0.0984	-	-	-	-	- lb
%	FL-300	0.0839	-	-	-	-	- lb
%	FL-350	0.0938	-	-	-	-	- lb
%	Halad-344	0.0994	-	-	-	-	- lb
%	Halad-413	0.0811	-	-	-	-	- lb
%	Halad-567	0.0822	-	-	-	-	- lb
%	Microbond	0.0375	-	-	-	-	- lb
%	Microbond HT	0.0536	-	-	-	-	- lb
%	Micromax	0.0245	-	-	-	-	- lb
%	Microsand	0.0453	-	-	-	-	- lb
%	SA-541	0.0857	-	-	-	-	- lb
%	Silicalite	0.0522	-	-	-	-	- lb
%	SteelSeal	0.0750	-	-	-	-	- sacks
%	Super CBL	0.0443	-	-	-	-	- lb
%	Suspend HT	0.0785	-	-	-	-	- lb
%	Tuned Blend	0.0507	-	-	-	-	- sacks
%	Gypsum	0.0445	-	-	-	-	- sacks
%	Hydrated Lime	0.0513	-	-	-	-	- lb
pps	Pressur Seal	0.0500	-	-	-	-	- sacks
pps	Mud Save F	0.0923	-	-	-	-	- sacks
RETARDERS							
%	Component R	0.0666	-	-	-	-	- lb
%	HR-4	0.0770	-	-	-	-	- lb
%	CR-1	0.0851	-	-	-	-	- lb
%	CR-2	0.0851	-	-	-	-	- lb
%	HR-12	0.0984	-	-	-	-	- lb
%	HR-25	0.0662	-	-	-	-	- lb
%	SCR-100	0.0845	-	-	-	-	- lb

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Bulk Materials for Spacer				
Concentration	Material Name	Total Weight	Number of Sacks	cu-ft
lb/bbl	Barite	100003681	-	-
lb/bbl	CBS-100	100003684	-	-
lb/bbl	Tuned Blend	12219	-	-
lb/bbl	FE-2	100001815	-	-
lb/bbl	Water	-	-	-
lb/bbl	Standard	-	-	-

Bulk Material Charges (Sub-Total)		
Service Charge (cu-ft) for Cement	-	Bulk Cement Materials Weight _____ Pounds _____ Tons
Service Charge (cu-ft) for Spacer	-	Bulk Spacer Materials Weight _____
Service Charge (cu-ft)	-	Bulk Material Weight (tons): _____
Ton Mileage Based on -miles (one way): _____		
Total Job Bulk Material Charges		
Total Service Charge (cu-ft):	364	
Total Bulk Material Weight (tons):	17	
Total Ton Mileage Based on -miles (one way):	2,513	



# Superior Well Services

22096 West Highway 73  
Clinton, Oklahoma 73601

Office: 580 323 0058

Fax: 580 323 8629

www.swsi.com

**BREAK THROUGH**

## Primary Cementing Proposal

### PRIMEXX OPERATING

**WILLIAMS #10-1**

**8 5/8 IN SURFACE CASING**

#### Well Location

Field: SEC. 10-35S-5W  
County: HARPER  
State: KS

Rig Name: **DAN D #1**

#### Well Information

Casing Size: 8 5/8 [in]  
Casing Depth: 300 [ft]  
TVD: 300 [ft]  
O.H. Size: 12 1/4 [in]  
O.H. Depth: 300 [ft]

#### Water Estimates

Spacer: 10.0 [bbls]  
Total Mix Water: 40.8 [bbls]  
Displacement: 16.3 [bbls]  
Wash up: 30.0 [bbls]  
  
Total Water Estimate: 97.1 [bbls]



Pvs. Casing Size: 20 [in]  
Pvs. Casing Depth: 60 [ft]  
BHST: 82.7 [°F]  
BHCT: #N/A [°F]

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**BREAK THROUGH**

Prepared For: **JERRY OGLE**

Date Prepared: 1/15/12

Prepared By: **JOEY BITTEL**

Phone: 580-530-1201

Fax: 580-323-8629

Email: joey.bittel@swsi.com

DISCLAIMER OF LIABILITY: With respect to this report, neither Superior Well Services nor any of their employees, makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.



# Superior Well Services

22096 West Highway 73  
Clinton, Oklahoma 73601

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Fax: 580 323 8629

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## BREAK THROUGH

PRIMEXX OPERATING

WILLIAMS #10-1

8 5/8 IN SURFACE CASING

### Well Bore Information

Drilling Fluid 9.0 ppg Water Based Drilling Fluid

#### Spacers

Previous Casing Depth:  
60 [ft]

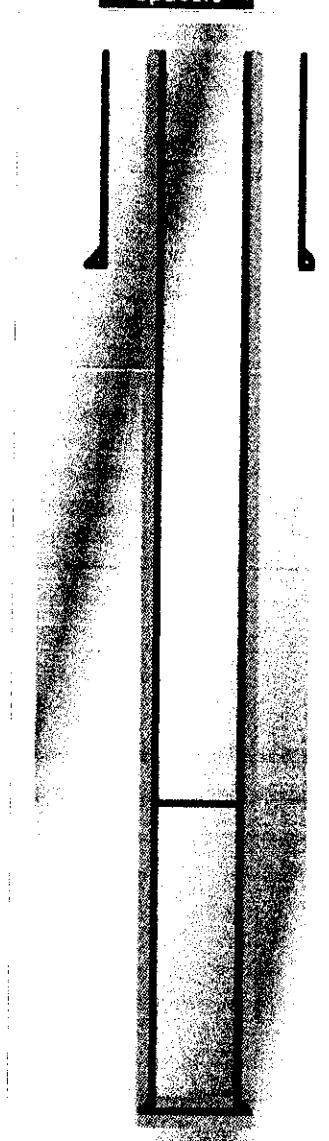
Casing in Casing Factor:  
1.5974 [cuft/ft]

Differential Pressure  
97 [psi]  
[assumes vertical hole]

Total Annular Excess  
185 %

Casing in OH1 Factor:  
0.4127 [cuft/ft]  
(Without Excess)

Casing Capacity Factor:  
0.3581 [cuft/ft]



Note: Drawing may not be 100%  
Accurate with different situations.

#### Tail Cement

Top: Cement to Surface  
Fill: 300 [ft]  
Excess: 185 %  
Vol: 394 [cuft]

Shoe Track Length  
44 [ft]

Measured Depth  
300 [ft]

Displacement Volume: 16 [bbls]

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# Superior Well Services

22096 West Highway 73  
Clinton, Oklahoma 73601

Office: 580 323 0058

Fax: 580 323 8629

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**BREAK THROUGH**

PRIMEXX OPERATING

WILLIAMS #10-1

3 5/8 IN SURFACE CASING

## Mud / Cement Spacer System:

10 bbls Water @ 8.32 [lb/gal]

## No Lead System

## Tail System

330 sks

Standard Cement + 2% Calcium Chloride + 0.25 LB/SK Super Flake

Mix Weight:	15.60 [lb/gal]
Yield:	1.19 [cuft/sk]
Mix Water:	5.20 [gal/sk]

## Displacement Fluid

16 bbls of Water

*Always refigure on location!!!!*



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Price Code	Description	Amount	Units of Sale	Unit Cost	Total Cost
20-200-0001	Mileage DOT Units - Cmt - per unit, per mile, one way	300	ut-mi	\$ 7.60	\$ 752.40
20-200-0002	Mileage non-DOT Units -Cmt - per unit, per job	150	ut-mi	\$ 4.30	\$ 212.85
20-220-0003	Depth Pumped 0' to 300' - first 4 hours, per unit	1	unit	\$ 1,350.00	\$ 445.50
20-299-0008	AccuDat Recording System- each, per job	1	ea	\$ 1,230.00	\$ 405.90
20-200-0008	Bulk Cement Delivery - per sack, per one way mile	49500	sk-mi	\$ 0.18	\$ 2,940.30
20-215-0001	Bulk Blending Service - per sack	330	sk	\$ 3.20	\$ 348.22
20-299-0007	Plug Container HP or Double - each, per job	1	ea	\$ 710.00	\$ 234.30
20-299-0010	High Energy Mix System (HEMS) - each, per job	1	ea	\$ 746.00	\$ 246.18
25-315-0020	No Foam 2 - per gallon	5	gal	\$ 141.00	\$ 232.65
50-760-0085	Rubber Plug Top 8-5/8 - each	1	ea	\$ 235.00	\$ 77.55
25-305-1000	Cement-Standard - per sack	330	sk	\$ 38.89	\$ 4,231.97
25-300-0002	Calcium Chloride (CaCl2) - per pound	620	lb	\$ 1.89	\$ 386.66
25-335-0001	Super Flake - per pound	82	lb	\$ 6.40	\$ 174.11

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-- Fuel Surcharge - as applied 1 ea \$ 809.74 \$ 267.21  
Gross Price \$ 33,199.39

Discounted Price \$ 20,945.80

Items not Requested					
Price Code	Description	Amount	Units of Sale	Unit Cost	Total Cost
50-740-0086	Guide Shoe 8-5/8 - each	1	ea	\$ 387.00	\$ 387.00
50-745-0086	Insert Float Valve 8-5/8 - each	1	ea	\$ 387.00	\$ 387.00
50-725-0862	Centralizer 8-5/8 X 12 - each	3	ea	\$ 164.00	\$ 492.00
50-750-0001	Thread Lock - each	1	ea	\$ 153.00	\$ 153.00
50-736-0609	Auto Fill Unit Float Equip - 6-5/8 to 9-5/8 - each	1	ea	\$ 105.00	\$ 105.00

40.00 % Special Discount Applied \$ 914.40

DISCLAIMER OF LIABILITY: With respect to this report, neither Superior Well Services nor any of their employees, makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.



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## Superior Chemical Descriptions

Chemical	Description
<i>Standard Cement</i>	<i>Standard Portland Cement (Class A or Type I)[94 lbs/sk]</i>
<i>Calcium Chloride</i>	<i>Accelerator for low temperature application when early compressive strengths are needed.</i>
<i>Super Flake</i>	<i>Cellophane or Polyester flakes used as a loss circulation additive.</i>

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### Superior Equipment and Personnel Requested

Well Head Connection	<b>8 5/8" Cement Head</b>	<i>Single Plug Pull Pin Style with Quick Latch Bowl type connection</i>
	<i>This bid includes the use of Superior's circulating equipment (5 loops, 2 chicks, and the appropriate swage) to be used at the request of the client. The co-rep should give Superior 24 hrs notice to get the equipment delivered to location.</i>	
Cement Pump Truck	<i>1 Superior tractor trailer mounted cement double pump. Superiors tractor trailer cement pumps consist of a recirculating jet mixer, non-radioactive densiometer, 2 high pressure triplex pumps, and data ports to record pressures, rates and densities with Superior's AccuDat software.</i>	
	<i>This quote is for 4 hours on location, after that time any down hole pump will be charged at \$575.00 (0% discount) per hour and any standby pump at \$514.00 per hour.</i>	
Cement Bulk Units	<i>Superior Tractor Trailer style bulk trucks with 2 330 cuft bulk material bottles.</i>	
	<i>This quote is for 4 hours on location for the mobile bulk equipment, additional hours will be charged at \$196.00 (0% discount) per hour per truck on mobile bulk units only.</i>	
AccuDat Software	<i>Superior records all jobs with our AccuDat acquisition software. It is capable of recording pressures, rates, and densities simultaneously. AccuDat shows graphs and digital displays as the job is happening. After the job a post job report can be printed out and given to the customer.</i>	
Wellsite Services	<i>A derrick charge of \$886 can be applied when the plug container is more than 10 ft off the rig floor, a \$2220 charge for circulating equipment requested before the crew arrives, and a \$123 charge for a plug container left on the well. All are subject to the appropriate discount.</i>	
Technical Services	<i>Superior Provides may other services at no charge. Included in that are pressurized mud scales, Cement Job Simulation (requested), Wet and Dry Samples, and Cementing Lab testing when applicable.</i>	
Personnel Services	<i>Superior's personnel are provided at no charge for this job</i>	

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**BREAK THROUGH**

January 15, 2012

JERRY OGLE

The services and materials quoted are based on the best information available at the time that this quotation was prepared. When the actual work is performed the amounts and types of services and materials may require adjustments from this quotation. Actual amounts and types of services and materials will be charged at the time the work is performed. Unit prices from Superior's current price list and discounts quoted are applied as per this quotation, unless otherwise noted.

This quotation is for the materials and services presented under this cover letter. The prices and discounts are based on Superior being awarded the work on a first call basis. Prices may be adjusted if the work is not on a first call basis. Prices are valid for a period of 3 months following this quotation. Taxes, if any, will be applied to the actual invoice.

All services and materials sold and provided by Superior are subject to Superior's General Terms and Conditions, which includes warranty and limited liability provisions. It is agreed between both parties that all materials and services are furnished within the Superior's General Terms and Conditions and customary Work Order Agreement.

Sincerely

JOEY BITTEL

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~~General Report~~

### Client Information

Client Reference	primexx
Client	CHESAPEAKE OPERATING INC
Representative	marty

### Lease/Project/Well Information

Job Type	Casing Cement Job - 8 5/8
Lease or Project	williams
Lease Number	10-1
Physical Location	10-35s-5w
Township	caldwell
County	HARPER
State	KS
Country	usa

### Service Center Information

Service Center	Clinton
Location Code	41
SWSI Entity	Superior Well Services
Location Address	22096 Hwy 73 West
City State Zip	Clinton OK 73601
Phone	580-323-0058

### Pre-Job Information

#### Well Information

Casing Size	8 5/8
Casing Weight	24
Casing Connection	8rd
Casing I.D.	
Hole Size	12 1/4
Calculated Annular Excess %	185
BHST	83
T.D.	455
Casing Length	40
Shoe Joint	42
Float Collar	396
Calculated T.O.C.	surface
Previous Casing Depth	
Previous Casing Size	
Previous Casing Weight	
Drill Pipe Size	4
Drill Pipe Weight	14

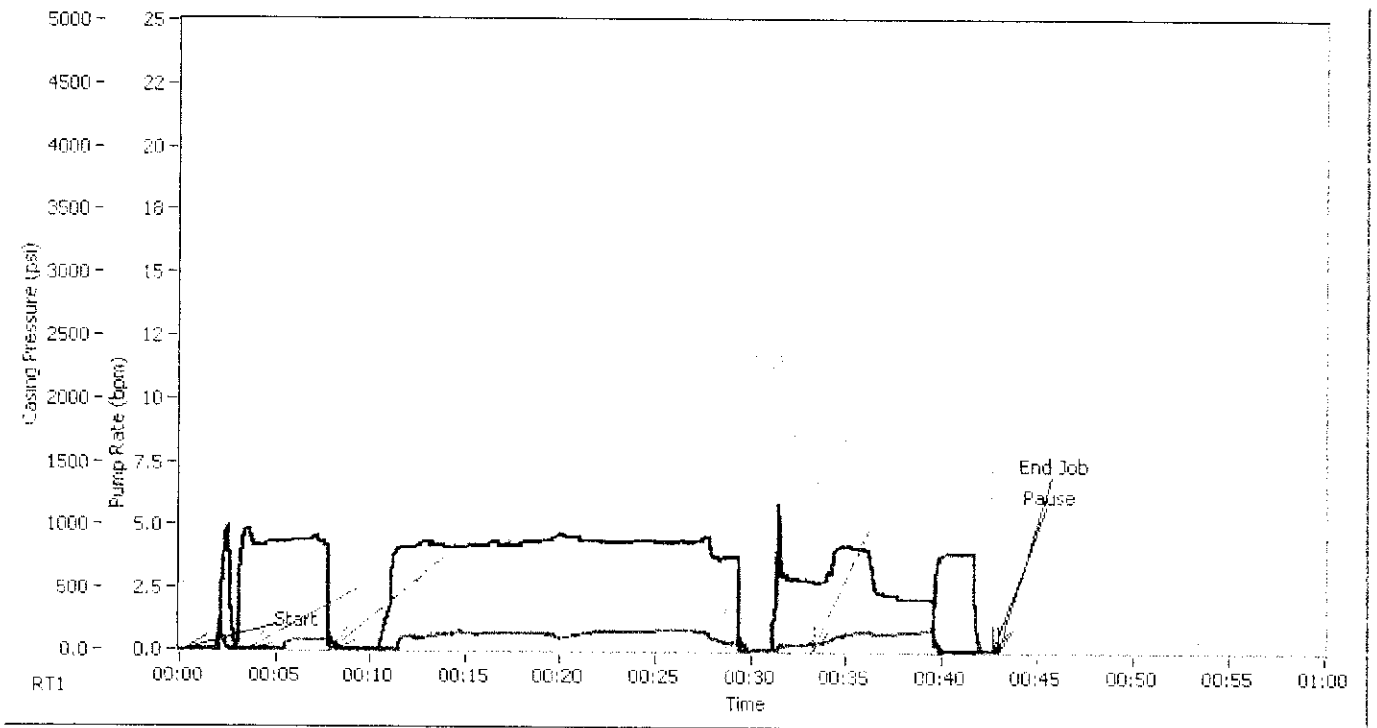
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# Call-Out Information

Service Center(s)	Same
Bulk Location(s)	Same
Pumping Equipment	0465
Auxilliary Equipment	1bulk truck
Time Called Out	
Time On Location	
Planned Time of Job	
Weather Conditions	

## [1] New Stage Surface Casing

[1] New Stage Surface Casing - Recorded Time Plot 1

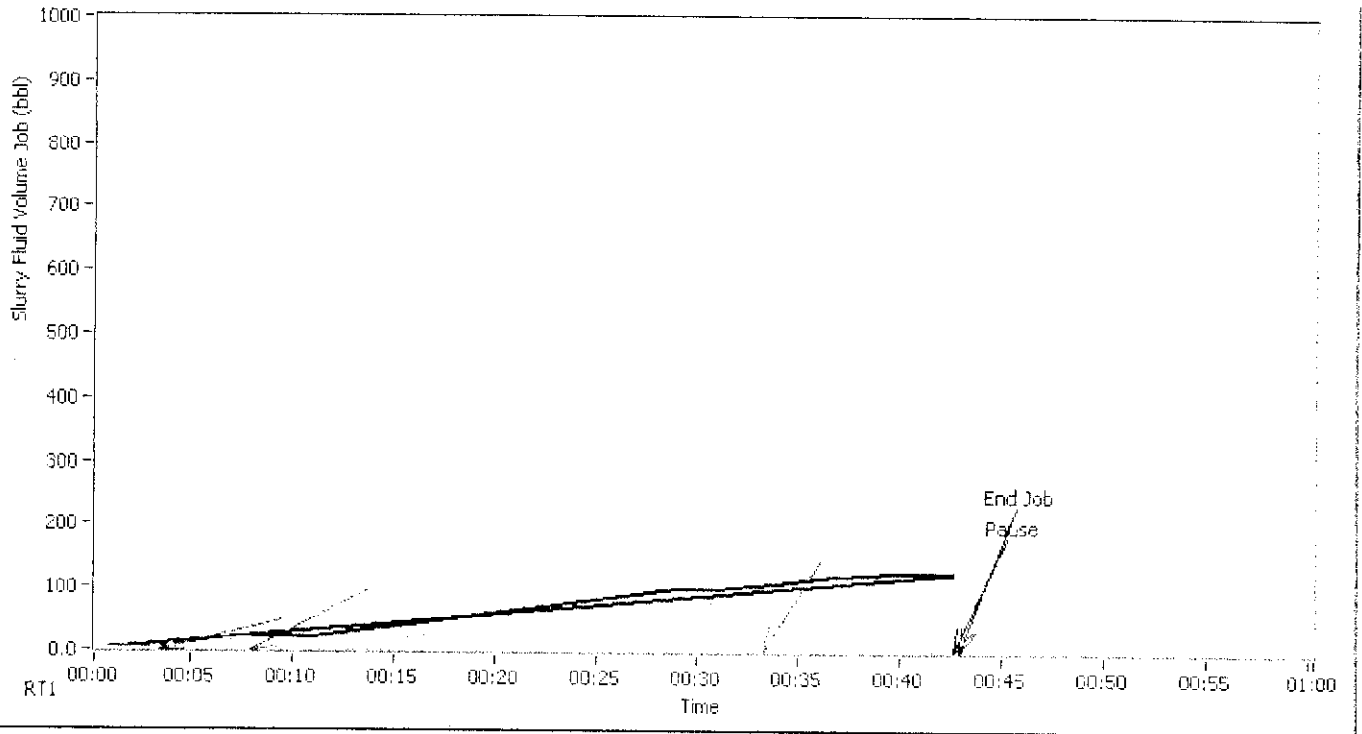


[1] New Stage Surface Casing - Recorded Time Plot 1

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[1] New Stage Surface Casing - Recorded Time Plot 2



[1] New Stage Surface Casing - Recorded Time Plot 2

[1] New Stage Surface Casing - Total(s)

Time	Comment	SLRY VOL STG-bbls	SLRY VOL TOT-bbls
18:00:00			
15:29:52	h2o spacer	0.0	1.9
15:34:20	pump tail	0.0	20.4
15:59:38	h2o displace	0.0	105.0
16:09:10		18.6	123.6

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[1] New Stage Surface Casing - Job Log

Time	Comment	DENSITY-ppg	PUMP RATE- bpm	SLRY VOL STG-bbls	SLRY VOL TOT-bbls	CASING-psi (2)
15:29:38	test lines	8.57	4.1	0.7	0.8	0
15:29:52	h2o spacer	8.53	4.8	0.0	1.9	0
15:29:53		8.53	4.8	0.0	1.9	0
15:32:38	h2o spacer	8.40	4.4	11.9	13.8	68
15:34:20	pump tail	8.33	0.3	0.0	20.4	0
15:34:21		8.33	0.3	0.0	20.4	0
15:35:38	pump tail	8.28	0.0	0.0	20.5	0
15:38:39	pump tail	13.61	4.1	5.4	25.8	98
15:41:39	pump tail	14.78	4.2	18.0	38.4	129
15:44:40	pump tail	14.75	4.3	30.8	51.2	132
15:47:40	pump tail	14.82	4.4	44.1	64.5	129
15:50:40	pump tail	15.47	4.4	57.2	77.5	139
15:53:40	pump tail	15.59	4.4	70.2	90.6	146



Time	Comment	DENSITY-ppg	PUMP RATE- bpm	SLRY VOL STG-bbls	SLRY VOL TOT-bbls	CASING-psi (2)
15:56:40	pump tail	11.80	0.0	78.4	98.9	0
15:59:38	h2o displace	8.14	2.8	0.0	105.0	55
15:59:39		8.17	2.8	0.0	105.0	56
15:59:40	h2o displace	8.19	2.8	0.1	105.0	56
16:02:40	h2o displace	8.34	3.7	11.1	116.1	145
16:05:40	h2o displace	8.33	2.1	17.9	122.8	160
16:08:41	h2o displace	8.33	0.0	18.6	123.6	0
16:09:09	End Job	8.33	0.0	18.6	123.6	0

[1] New Stage Surface Casing - Key & Unit(s)

Name	Abbreviation	Units
Casing Pressure	CASING-psi (2)	psi
Pump Rate	PUMP RATE-bpm	bpm
Pump 1 Rate	PUMP1f	bpm
Pump 2 Rate	PUMP2f	bpm
Cement Density	DENSITY-ppg	ppg
Slurry Fluid Volume Stage	SLRY VOL STG-bbls	bbl
Slurry Fluid Volume Job	SLRY VOL TOT-bbls	bbl
Pump 1 Pressure	PUMP1p	psi

**Post-Job Information**

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Post Job Summary

Pressure Test	1000
Initial Circulating Rate	4
Initial Circulating Pressure	60
Lead Slurry Sacks	
Lead Slurry Volume	
Tail Slurry Sacks	350
Tail Slurry Volume	75
Bottom Plug Displacement	
Top Plug Displacement	25
Cmt Vol Circulated to Surface	35
Average Displacement Rate	4
Final Circulating Rate	2
Final Circulating Pressure	150
Plug Bumped?	YES
Pressure When Plug Bumped	yes took from 150 to 650
Floats Hold?	YES GOT 1/4 of a BBL BACK
	THANK YOU
	DANIEL CARTER AND CREW

**Disclaimer**

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**BREAK THROUGH**

COMPANY <b>PRIMEXX OPERATING</b>			FACILITY <b>CLINTON</b>		API Number		DATE January 19, 2012		
CONTRACTOR <b>DAN D # 1</b>			TOWN <b>CALDWELL</b>		STATE <b>KS</b>		LEGAL DESCRIPTION <b>SEC.10-35S-5W</b>		
LEASE / WELL NUMBER <b>WILLIAMS # 10-1</b>			Ticket Number <b>41-0000</b>		COUNTY <b>HARPER</b>		MILEAGE ONE WAY <b>150</b>		
DIRECTIONS <b>RED HILL RD &amp; HWY 11-13 MILES NORTH TO KANSAS STATE LINE 2 NORTH ,1EAST,1/2 SOUTH,WEST INTO</b>									
Pumping Services	<input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Longstring <input type="checkbox"/> Plug Back <input type="checkbox"/> Conductor <input type="checkbox"/> Liner <input type="checkbox"/> Squeeze <input type="checkbox"/> Acid <input type="checkbox"/> PTA <input type="checkbox"/> Other <input type="checkbox"/> H2S								
	Casing Size/Weight	Thread	Tbng/DP Size	Thread	Plug Cont	Swage	Top Plug	Bottom Plug	% Excess
	<b>8 5/8</b>	<b>8 RD</b>			<b>X</b>	<b>X</b>	<b>X</b>		<b>185</b>
	Number and Type Units <b>1 PUMP ,1 BULK</b>						BHST <b>83</b>	BHCT <b>N/A</b>	Hole Size <b>12 1/4</b>
Remarks <b>HAVE A SAFE JOB!</b>						Depth-TMD <b>300</b>	Depth-TVD <b>300</b>	MUD WEIGH <b>9.2 WBM</b>	
Cementing Materials	CEMENT	# of Sacks	Type	Additives					
		<b>350</b>	<b>STANDARD</b>	<b>2%CALCIUM CHLORIDE + 0.25 LB /SK SUPER FLAKE</b>					
		Weight PPG	Yield Ft3/Sk	Water Gal/Sk					
	<b>15.60</b>	<b>1.19</b>	<b>5.20</b>						
	# of Sacks	Type	Additives						
	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	# of Sacks	Type	Additives						
	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	Spacer or Flush	Quantity	Type	REMARKS					
		<b>20BB</b>	<b>FRESH WATER</b>	<b>SPACER (ALWAYS REFIGURE ON LOCATION)</b>					
Other	Quantity	Type	Additives						
	<b>16</b>	<b>FRESH WATER</b>	<b>DISPLACEMENT (ALWAYS REFIGURE ON LOCATION)</b>						
Remarks/HSE	<b>TAKE 8 5/8 PLUG CONTAINER + MANIFOLD + 8 RD BOWEL + TAKE TOP RUBBER PLUG + TAKE 10 GALS OF NO FOAM + TALK TO CUSTOMER ABOUT PROCEDURES+ TAKE FLOAT EQUIPMENT FOR 5 1/2.1 -5 1/2 GUIDE SHOE ,1- 5 1/2 FLOAT COLLAR, 15- 5 1/2 X 7 7/8 ,2 THREAD LOCK</b>								
Sales Items	Casing Size	Casing Weight	Thread						
	Guide Shoe	Float Shoe	Float Collar	Insert Float Valve					
	<b>1-8.625</b>			<b>1-8.625</b>					
	Centralizers - Number	Size	Type						
	<b>3--</b>	<b>8 5/8 X 12</b>							
Well Cleaners - Number	Type	MSC (DV Tool)			MSC Plus Set				
	<b>AUTO FILL UNIT FLOAT EQUIP.</b>								
Limit Clamps	Weld-A	Other							
		<b>1 THRAD LOCK</b>							
Remarks									
Customer Rep <b>JERRY OGLE</b>			Phone Number <b>580-541-5185</b>		Fax		Time of Call		
Call Taken By <b>SHANNON KLEIN</b>							Time Ready		

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January 27, 2012

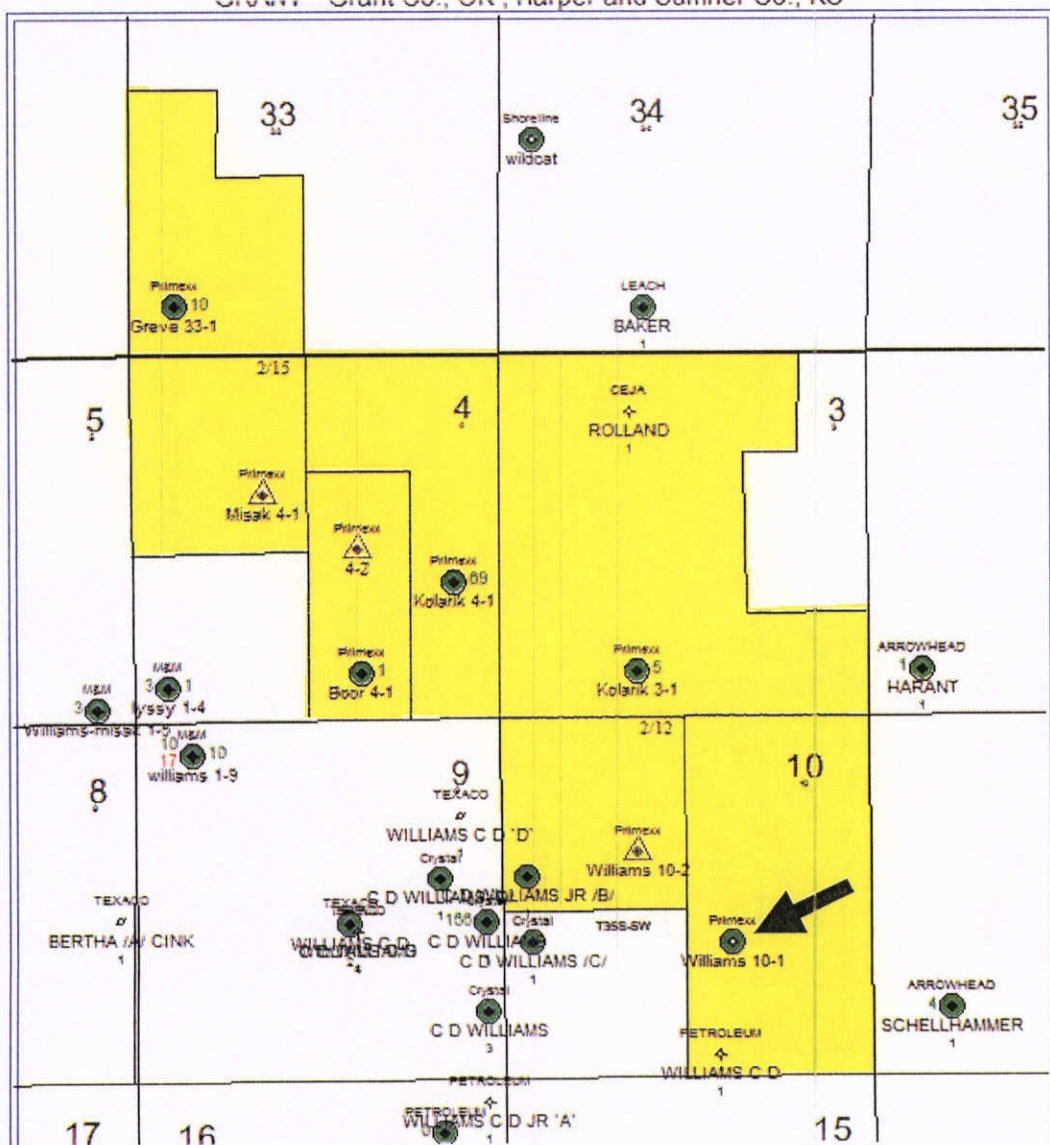
Geologic Assessment: **Primexx Williams 10-1**  
Prospect Area: **M&M Prospect**  
Location: NW SE 10-34s-5w, Harper County, KS

**Summary:**

The Williams 10-1 TD'd in the Wilcox sand on January 26 and was logged by Weatherford that day. This lease saving well found ~80ft of probably productive Osage reservoir.

**Geological Recommendation:**

The Geological Recommendation is to set pipe to TD and complete the Osage. My contemplated perms of 5060-5080 have been limited to the upper part of the Osage zone of interest. The Kinderhook lime is not well-developed here, and therefore we do not have a good lower frac barrier. **To limit the risk of communicating with the wet Wilcox we should lower our frac rate significantly, using the same parameters that were successful in the Kolarik 4-1.**



**Geological Tops for KGS: (KB 1254ft)**

Base Heebner Shale:	3230'
Tonkawa Sand:	3620'
Big Lime:	4300'
Mississippi:	4860'
Woodford:	5150'
Base Woodford(Wilcox):	5218'

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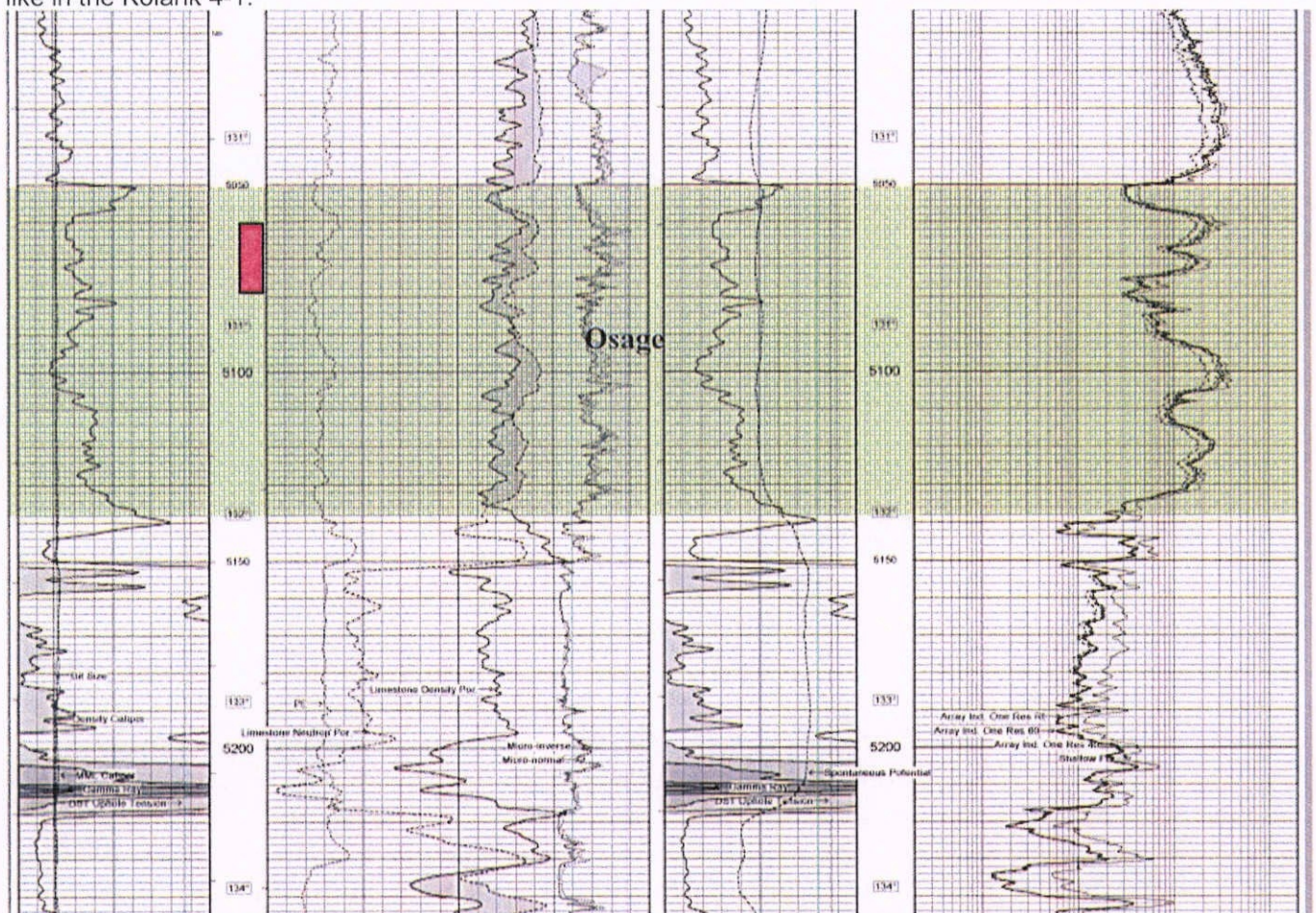


The following zones of interest were encountered:

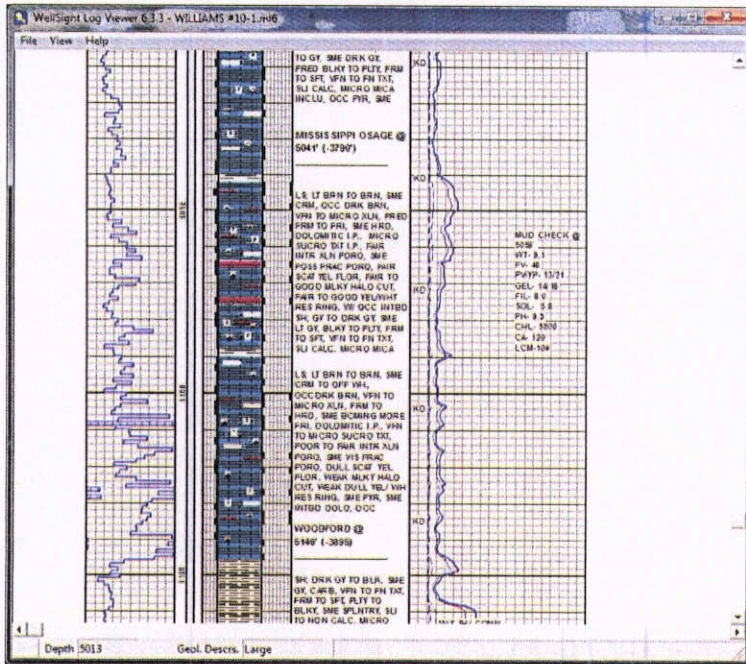
**Mississippian Osage:** (Suggested Perfs: 5060-5080) Probably productive, to test  
~90ft of the Lyle Osage pay with gas-effected density porosity of 6-8%, good resistivities mostly greater than 100 ohms, "dirty" gamma ray profile and cherty Pe curve profile, which is consistent with other good Osage wells in the trend. A small gas increase was measured throughout this zone. Samples showed the same black fractured dolomitic chert that we see in Lyle Osage wells.

Note that there is only 8ft of hard Kinderhook lime at 5142'. This lack of a thick lower frac barrier should be considered when designing the frac. It is thicker than the Greve and Kolarik 3-1 wells, but not 50+ thick like in West Lyle. We should frac at the rates used in the Kolarik 4-1.

I feel like this whole section should be considered reservoir. The bottom 30ft looks very much like the best wells in Lyle field. However, I think the best approach is to perf higher in the Osage section and hope that the frac will propogate downward less with that approach. This is what we did in the Kolarik 4-1 and Greve 33-1. This well has a thicker Kinderhook than the Greve, and it appears to have a harder Miss lime upper frac barrier, so maybe the frac will be well contained like in the Kolarik 4-1.

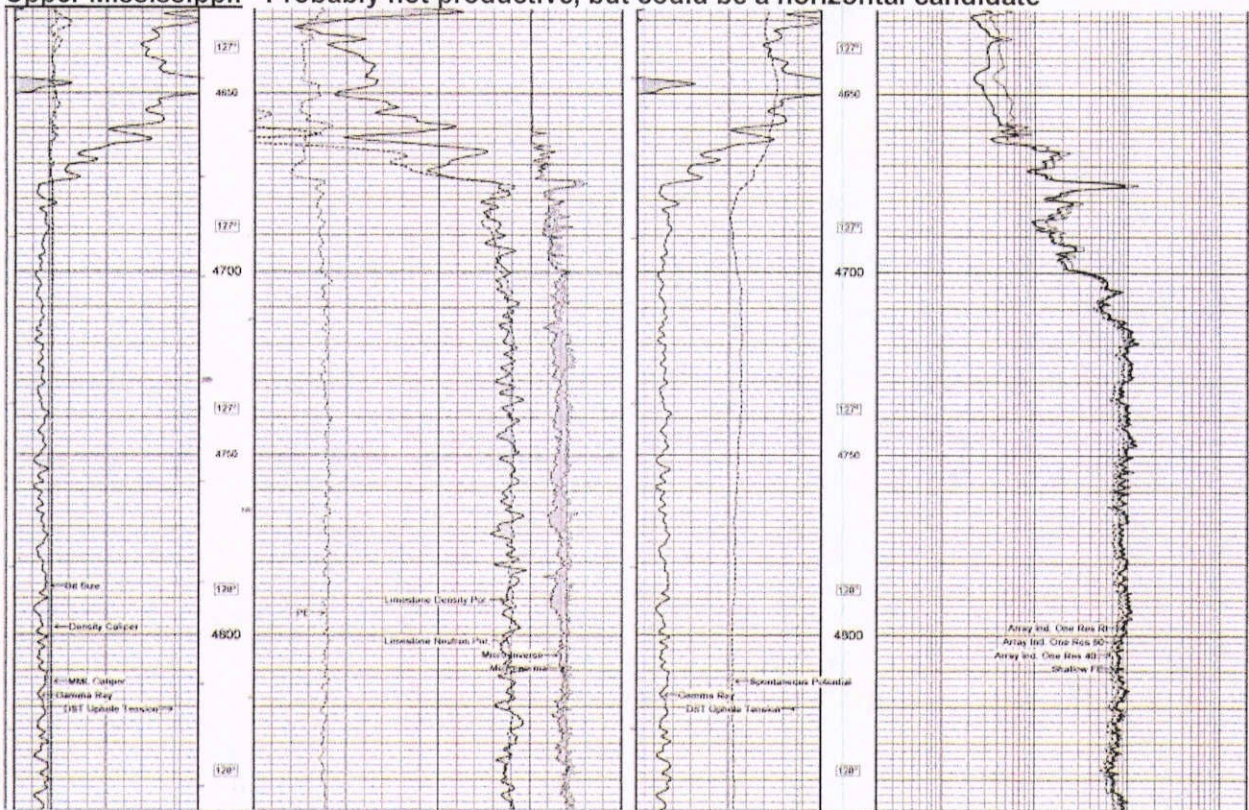


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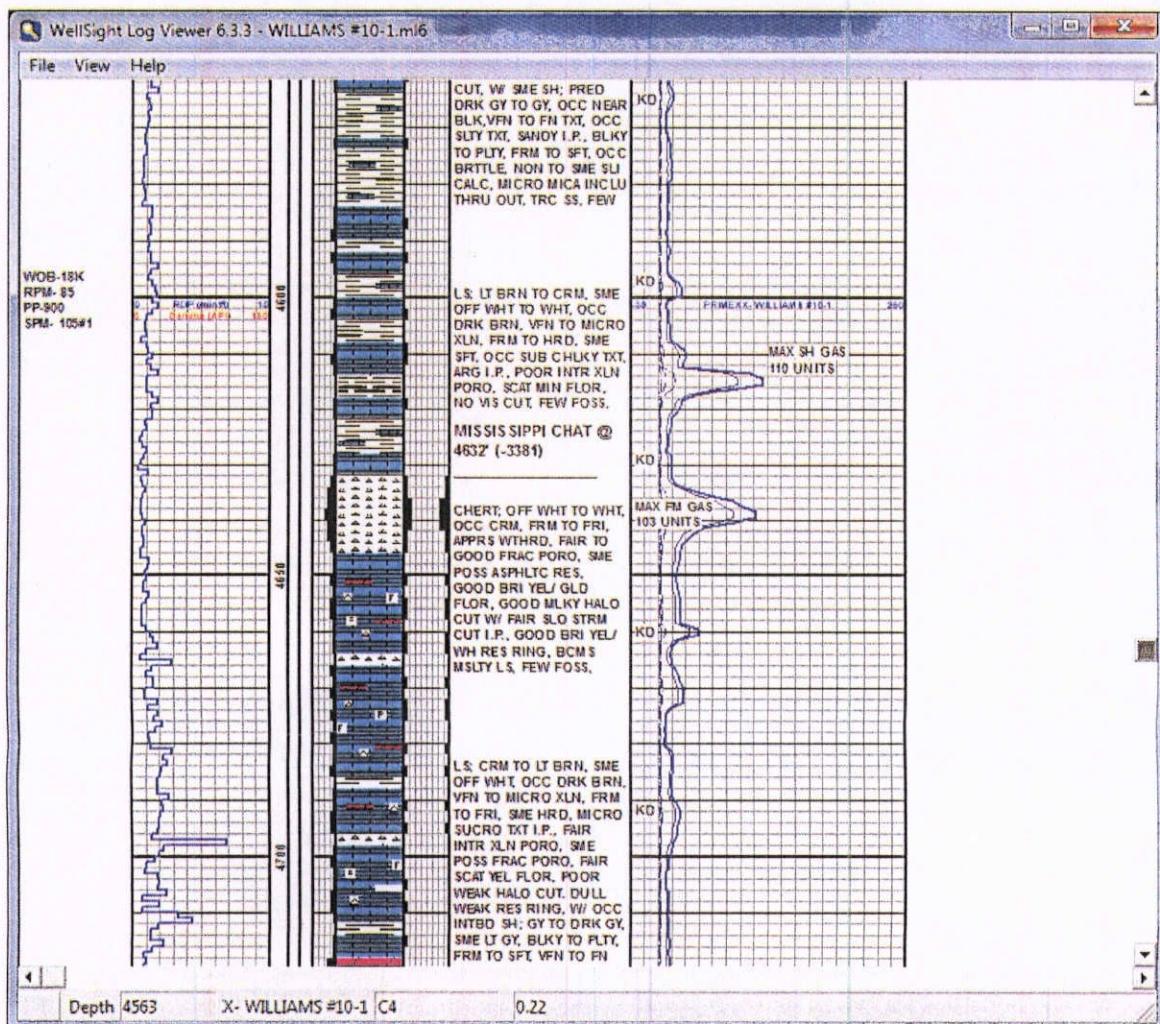


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**Upper Mississippi: Probably not productive, but could be a horizontal candidate**



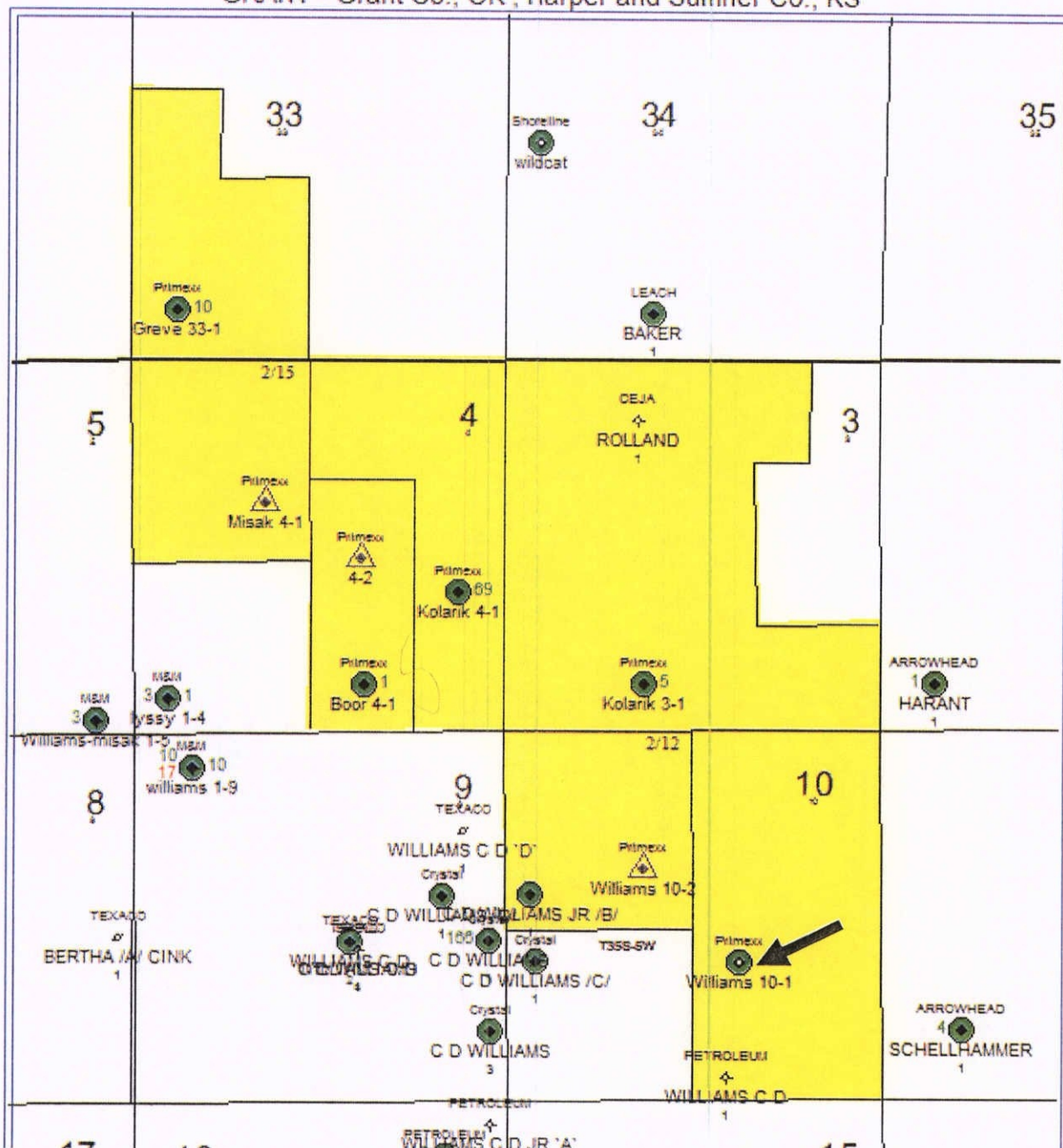
Zero feet of Chat and not much porosity development in the Upper Miss here. This zone is a very poor candidate for a vertical completion, but it may be a future target for horizontal drilling. Ten feet of chert was recovered in the samples with a small gas show.



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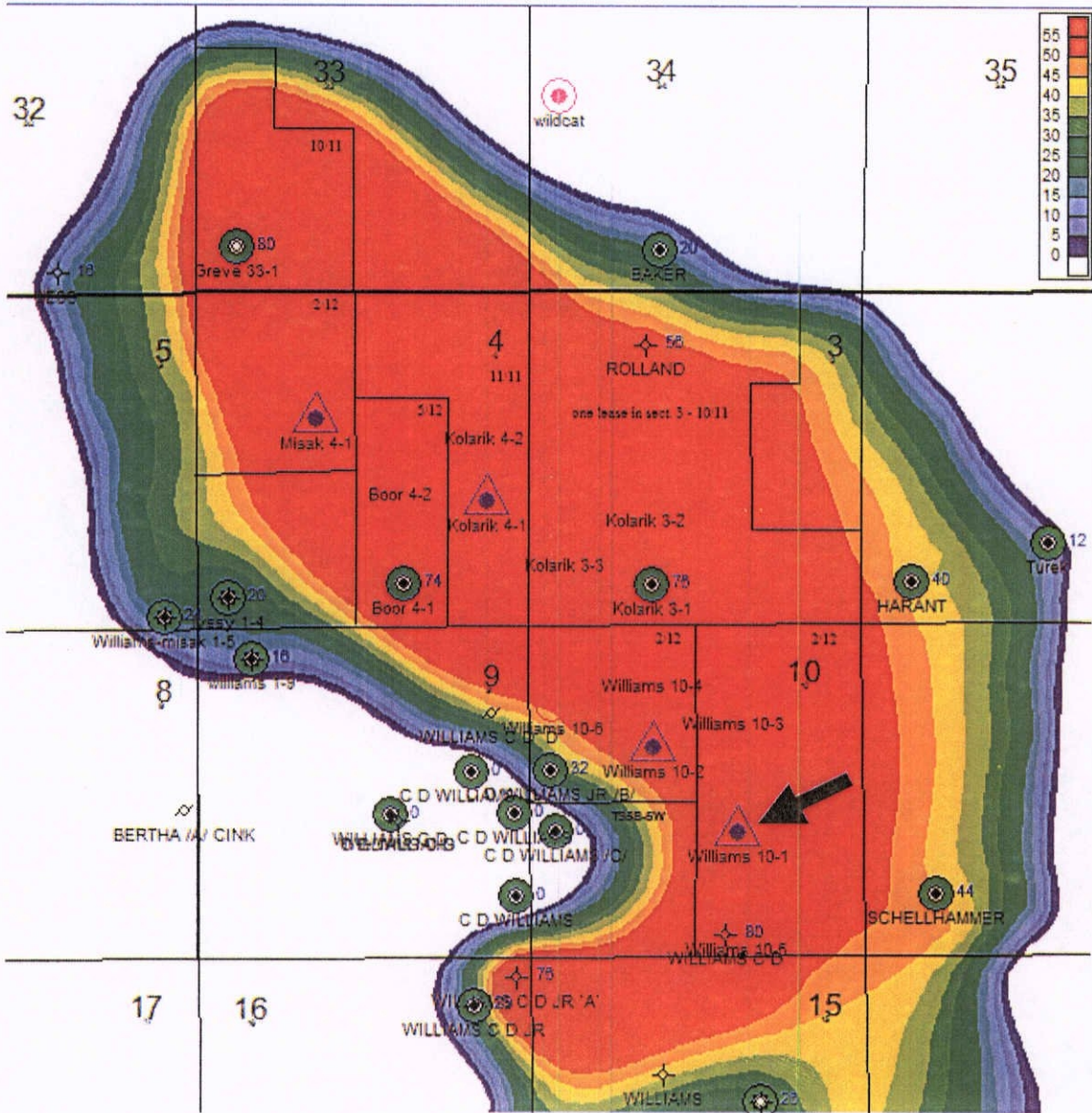
Production Map

GRANT - Grant Co., OK, Harper and Sumner Co., KS



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Osage High Productivity Facies Map



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