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# **XTO ENERGY INC EBUSINESS**

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**Apache Canyon 01-04**

**Las Animas County , Colorado**

## **Cement Multiple Stages**

**09-Jun-2011**

### **Job Site Documents**

The Road to Excellence Starts with Safety

Sold To #: 353810	Ship To #: 2857663	Quote #:	Sales Order #: 8225655
Customer: XTO ENERGY INC EBUSINESS	Customer Rep: Coffee, Ron		
Well Name: Apache Canyon	Well #: 01-04	API/UWI #:	
Field:	City (SAP): TRINIDAD	County/Parish: Las Animas	State: Colorado
Contractor: Pense Drilling	Rig/Platform Name/Num: PENSE DRILLING19		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: FLING, MATTHEW	Srv Supervisor: LAVALLEY, LARRY	MBU ID Emp #:	419296

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BORDEN, RYAN	8	123456	CONGDON, RICHARD S.	8	320306	FLYNN, SHAD Michael	8	476484
LAVALLEY, LARRY P	8	419296	MAHONEY, KELLAN Carl	8	476531	OZBUN, RYAN Jacob	8	475709

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	45 mile	10857012C	45 mile	10857080	45 mile	10948695	45 mile
11064046	45 mile	11518549	45 mile	11527041C	45 mile	11562562	45 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6/9/11	8	4.5						

TOTAL

Total is the sum of each column separately

### Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	08 - Jun - 2011	20:30	MST
Form Type		BHST	Job Started	09 - Jun - 2011	01:15	MST
Job depth MD	2545. ft	Job Depth TVD	Job Completed	09 - Jun - 2011	05:08	MST
Water Depth		Wk Ht Above Floor	Departed Loc	09 - Jun - 2011	09:06	MST
Perforation Depth (MD)	From	To			10:00	MST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
13 3/8" Openhole				7.875				813.	2545.		
Multiple Stage Cementer	Unknown								1808.		
5 1/2" Production Casing	Unknown		5.5	4.95	15.5		J-55		2543.		
8 5/8" Surface Casing	Unknown		8.625	8.097	24.		J-55		813.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	FRESH WATER		180.00	bbl	8.33	.0	42.0	3.0	
2	GELLED WATER		30.00	bbl	8.33	.0	42.0	3.0	
0.2 gal/Mgal		LGC-VI UC, BULK (101582755)							
3	TUNED LIGHT TRINIDAD B3	TUNED LIGHT (TM) SYSTEM (452984)	105.0	sacks	10.	2.3	8.37	3.0	8.37
8.37 Gal		FRESH WATER							
4	DISPLACEMENT		59.00	bbl	8.33	.0	42.0	3.0	
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	FRESH WATER		10.00	bbl	8.33	.0	42.0	3.0	
2	GELLED WATER		30.00	bbl	8.33	.0	42.0	3.0	
0.2 gal/Mgal		LGC-VI UC, BULK (101582755)							
3	TUNED LIGHT TRINIDAD B3	TUNED LIGHT (TM) SYSTEM (452984)	230.0	sacks	10.	2.3	8.37	3.0	8.37
8.37 Gal		FRESH WATER							
4	DISPLACEMENT		43.00	bbl	8.33	.0	42.0	3.0	
Calculated Values		Pressures		Volumes					
Displacement	102	Shut In: Instant		Lost Returns	0	Cement Slurry	137	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	102	Treatment	
Frac Gradient		15 Min		Spacers	250	Load and Breakdown		Total Job	489
Rates									
Circulating		Mixing	3	Displacement	3	Avg. Job			3
Cement Left In Pipe	Amount	47 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

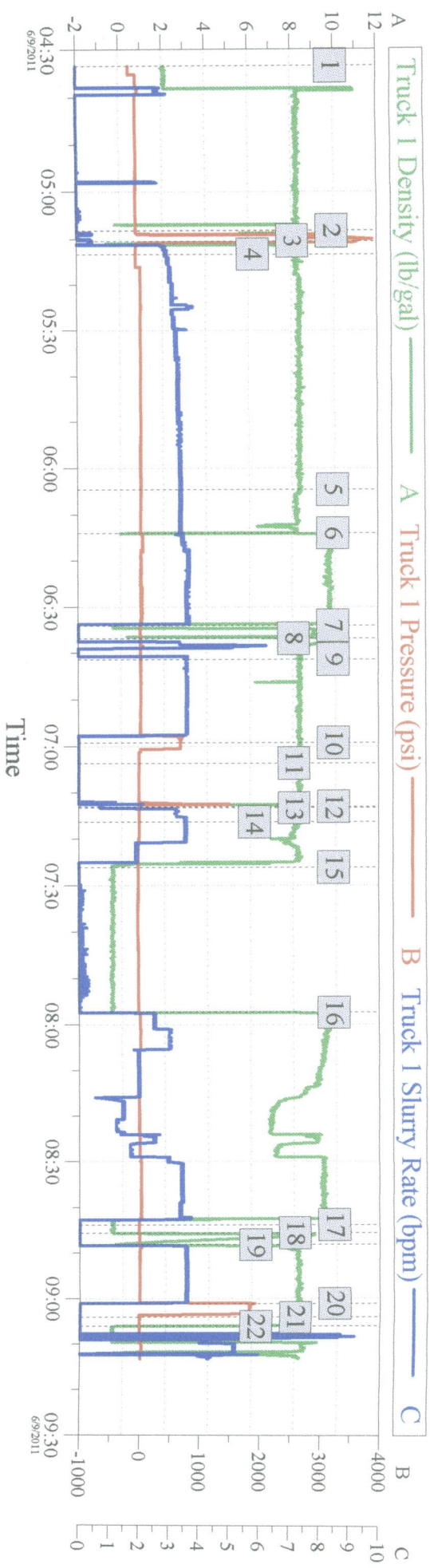
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Well Name: Apache Canyon			Well #: 01-04		API/UWI #:		
Field:		City (SAP): TRINIDAD		County/Parish: Las Animas		State: Colorado	
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: Pense Drilling			Rig/Platform Name/Num: PENSE DRILLING19				
Job Purpose: Cement Multiple Stages						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Multiple Stages				
Sales Person: FLING, MATTHEW			Srvc Supervisor: LAVALLEY, LARRY			MBU ID Emp #: 419296	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	06/09/2011 05:08							
Test Lines	06/09/2011 05:10						3500.0	TESTED WITH RIG WATER
Pump Spacer 1	06/09/2011 05:13		3	180			.0	PUMPED ANNULAR VOLUME RIG WATER
Pump Spacer 2	06/09/2011 06:04		3	30			52.0	RIG WATER WITH GEL
Pump Cement	06/09/2011 06:14		3	43			41.0	105 SKS TUNED LIGHT B3 MIXED @ 10.0 PPG
Shutdown	06/09/2011 06:34						34.0	
Clean Lines	06/09/2011 06:36						39.0	
Drop Top Plug	06/09/2011 06:36							SUPPLIED BY WETHERFORD
Pump Displacement	06/09/2011 06:41		3	59			44.0	RIG WATER WITH NO ADDITIVES
Bump Plug	06/09/2011 06:59		3				699.0	BUMPED PLUG AT 699 PSI
Drop Ball	06/09/2011 07:03						10.0	WAITED 5 MIN TO OPEN TOOL
Open Multiple Stage Cementer	06/09/2011 07:13						1589.0	TOOL OPENED AT
Pump Spacer 1	06/09/2011 07:13		3	10				RIG WATER NO ADDITIVES
Pump Spacer 2	06/09/2011 07:16		3	30				RIG WATER WITH GEL
Shutdown	06/09/2011 07:26							RAN OUT OF WATER HAD TO WAIT TILL WATER TRUCK ARRIVED.
Pump Cement	06/09/2011 07:57		3	94				230 SKS TUNED LIGHT B3 MIXED @ 10.0 PPG

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	06/09/2011 08:43							
Drop Top Plug	06/09/2011 08:45							SUPPLIED BY WETHERFORD
Pump Displacement	06/09/2011 08:48		3	43				RIG WATER WITH NO ADDITIVES
Close Multiple Stage Cementer	06/09/2011 09:01							
Bump Plug	06/09/2011 09:04		3				1500. 0	BUMPED PLUG AT
End Job	06/09/2011 09:06							

# XTO APACHE CANYON 1-4 5.5 INCH MULTI STAGE PRODUCTION



## Global Event Log

Intersection		TID	TIP	TISR	Intersection		TID	TIP	TISR
1	Starting Job	04:33:32	2.132	-117.5	0.000	2	Start Job	05:08:22	8.244 -15.82 0.000
3	Test Lines	05:10:30	8.342	3654	0.457	4	Pump Spacer 1	05:13:17	8.140 -19.77 3.000
5	Pump Spacer 2	06:04:40	8.347	52.78	3.404	6	Pump Cement	06:14:05	1.149 41.01 3.457
7	Shutdown	06:34:05	-0.305	34.79	0.000	8	Clean Lines	06:36:53	9.430 39.57 0.000
9	Pump Displacement	06:41:20	8.456	44.58	3.594	10	Bump Plug	06:59:16	8.329 699.3 0.000
11	Drop Ball	07:03:41	8.261	10.000	0.000	12	Open MSC	07:13:05	8.202 -0.875 0.718
13	Pump Spacer 2	07:13:19	8.244	-1.645	0.783	14	Pump Spacer 1	07:16:21	8.290 8.023 3.537
15	Shutdown	07:26:11	-0.418	-11.75	0.000	16	Pump Cement	07:57:21	6.770 -5.102 1.883
17	Shutdown	08:43:51	-0.420	-7.796	0.000	18	Drop Top Plug	08:45:35	-0.432 -7.796 0.000
19	Pump Displacement	08:48:13	-0.052	-1.104	0.000	20	Close MSC	09:01:11	8.228 1860 0.000
21	Bump Plug	09:04:14	8.273	-4.830	0.000	22	End Job	09:06:13	-0.394 -7.796 0.000

Customer:  
Well Description:

Job Date: 09-Jun-2011  
UWI:

Sales Order #: 8225655