

Operator Name: Noble Energy Inc
Well Name: JACOB SCHLEGEL #1
Job Description: Squeeze hole
Date: June 16, 2011



Proposal No: 1001144651A

JOB AT A GLANCE

Depth (TVD)	2,026 ft
Depth (MD)	2,026 ft
Hole Size	7.875 in
Casing Size/Weight	4 1/2 in, 15.1 lbs/ft
Pump Via	Tubing 2 3/8" O.D. (1.995" I.D) 4.7 Casing 2 7/8" O.D. (2.441" I.D) 6.5
Total Mix Water Required	250 gals
Spacer	
Fresh Water	10 bbls
Density	8.3 ppg
Cement Slurry	
Class "G" Neat	50 sacks
Density	15.8 ppg
Yield	1.15 cf/sack
Displacement	
Fresh Water	11 bbls
Density	8.3 ppg

WELL DEPTHS & TUBULAR CONFIGURATION IS ESTIMATED. VERIFY PROPER WELL & TUBULAR INFORMATION, PROPER JOB PROCEDURES, CEMENT VOLUMES, & DISPLACEMENT VOLUME WITH CUSTOMER'S REPRESENTATIVE

MAXIMUM PRESSURE: 2500 PSI.

PLEASE DOCUMENT HOW LONG THE WELL HAS BEEN CIRCULATED BEFORE CEMENTING AND ALL OTHER IMPORTANT ISSUES ON THE CEMENT REPORT.

DIRECTIONS: RD 28 & 39, EAST 0.7 MILES, SOUTH INTO LOCATION (THROUGH JUNK YARD)

Operator Name: Noble Energy Inc
Well Name: JACOB HILLEGEL #1
Job Description: Squeeze hole
Date: June 16, 2011



Proposal No: 1001144651A

WELL GEOMETRY

Squeeze Depth	2,026 ft		
Tool Setting Depth	0 ft		
Tubing/Drill Pipe Size	2.375 in	1.995 in ID	4.7 lbs/ft
Tubing/Drill Pipe Size	2.875 in	2.441 in ID	6.5 lbs/ft
Casing Size	4.500 in	3.826 in ID	15.1 lbs/ft
Squeeze Temperature	111 ° F		
Est. Static Temperature	131 ° F		

FLUID SPECIFICATIONS

Spacer = 10.0 bbls Fresh Water @ 8.34 ppg

SLURRY NO.	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	57	1.15	= 50 sacks Class G Cement + 44.3% Fresh Water

Displacement = 11.0 bbls Fresh Water @ 8.34 ppg

CEMENT PROPERTIES

	SLURRY NO. 1
Slurry Weight (ppg)	15.80
Slurry Yield (cf/sack)	1.15
Amount of Mix Water (gps)	5.00
Estimated Pumping Time - 70 BC (HH:MM)	01:00

TEMPERATURE WAS ESTIMATED FROM A WATTENBERG FIELD TEMPERATURE GRADIENT MAP.

THICKENING TEST TIMES ARE ESTIMATES & SLURRIES ARE SUBJECT TO CHANGE BASED ON TEST RESULTS FROM ROCKY MOUNTAIN REGION LABORATORY.

SLURRY VOLUMES ARE ESTIMATED & VOLUMES ARE SUBJECT TO CHANGE BASED ON CALIPER LOG MEASUREMENTS.

PLEASE DOCUMENT HOW LONG WELL HAS BEEN CIRCULATED BEFORE CEMENTING AND ALL OTHER IMPORTANT ISSUES ON CEMENT REPORT.

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2861773	Quote #:	Sales Order #: 8271532
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep:		
Well Name: <u>Jacob Schlegel</u>	Well #: <u>#1</u>	API/UWI #: <u>05-123-07755</u>	
Field:	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Job Purpose: Squeeze Hole in Casing			
Well Type: Development Well	Job Type: Squeeze Hole in Casing		
Sales Person: FLING, MATTHEW	Srvc Supervisor: SANFORD, DALE	MBU ID Emp #: 219527	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	5	372277	Carleton, James	5	498303	SANFORD, DALE A	5	219527
VASQUEZ, ALVARO A	5	401745						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036295	18 mile	11398490	18 mile	11518550	18 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6-23-11	5	3						
TOTAL	Total is the sum of each column separately							

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	23 - Jun - 2011	08:00	MST
Job depth MD	2096. ft		Job Depth TVD	Job Started	23 - Jun - 2011	09:00	MST
Water Depth			Wk Ht Above Floor	Job Completed	23 - Jun - 2011	12:00	MST
Perforation Depth (MD)	From		To	Departed Loc	23 - Jun - 2011	13:00	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
Production Casing	Used		4.5	4.	11.6		N-80		7389.		
Tubing	Unknown		2.875						2096.		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer			bbl	8.33	.0	.0	3.0	
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	50.0	sacks	15.8	1.15	5.0	2.0	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	0.5 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	5 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 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					

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2861773	Quote #:	Sales Order #: 8271532
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep:	
Well Name: Jacob Schlegel	Well #: #1	API/UWI #: 05-123-07755	
Field:	City (SAP): PLATTEVILLE	County/Parish: Weld	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:		Rig/Platform Name/Num:	
Job Purpose: Squeeze Hole in Casing			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: FLING, MATTHEW	Srvc Supervisor: SANFORD, DALE	MBU ID Emp #: 219527	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	06/23/2011 09:09					4600. 0		
Establish Rate	06/23/2011 09:12		2	6		2000. 0		
Pump Spacer 1	06/23/2011 09:57		3	5			250.0	
Pump Displacement	06/23/2011 10:04		3	6.5			45.0	
Shutdown	06/23/2011 10:06							POOH
Other	06/23/2011 10:38		2	4.5			250.0	LOAD WELL
Start Squeeze	06/23/2011 10:42		1	0.7			2300. 0	
Shutdown	06/23/2011 10:47							
Pump Cement	06/23/2011 11:00		3	10			300.0	50 sKS cMT @ 15.8# W/ .5% CC & .2% CFR
Start Squeeze	06/23/2011 11:00		0.5	0.4			2145. 0	
Shutdown	06/23/2011 11:02							
Start Squeeze	06/23/2011 11:13		0.5	0.3			2580. 0	
Shutdown	06/23/2011 11:15							
Start Squeeze	06/23/2011 11:21		0.5	0.3			3060. 0	
Shutdown	06/23/2011 11:24							
Start Squeeze	06/23/2011 11:34		0.5	0.2			3050. 0	
Shutdown	06/23/2011 11:36							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Squeeze	06/23/2011 12:03		0.5	0.3			3000. 0	
Other	06/23/2011 12:04							Lost PSI to 720#
Test Lines	06/23/2011 12:06						3000. 0	Test pump tk held OK
Establish Rate	06/23/2011 12:08		2	3			750.0	Hole in csg
Shut In Well	06/23/2011 12:10						600.0	

CEMENT JOB REPORT



CUSTOMER Noble Energy - Denver			DATE 17-JUN-11		F.R. # 1001819554		SERV. SUPV. RYAN SULLIVAN				
LEASE & WELL NAME JACOB SCHLEGEL #1 - API 05123077550000			LOCATION SEC 32 - 3 N - 65 W			COUNTY-PARISH-BLOCK Weld Colorado					
DISTRICT Brighton			DRILLING CONTRACTOR RIG # W/O			TYPE OF JOB Squeeze-Hole					
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES							
Bridge Plug		NA-Squeeze		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
		No Shoe									
MATERIALS FURNISHED BY BJ											
Class "G" Neat				50	15.8	1.15	5.00	04:30	10.2	5.94	
Fresh Water				0	8.34	0	0	00:00	11.3		
Fresh Water				0	8.34	0	0	00:00	5		
Available Mix Water _____ Bbl.				Available Displ. Fluid _____ Bbl.				TOTAL		26.5	5.94
HOLE			TBG-CSG-D.P.			COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE	
7.875	0	6893	4.5	10.5	CSG	6893	J-55	0	0	0	
			2.875	6.5	TBG	1406					
			2.375	4.7	TBG	302					
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
				Bridge Plug	6893	0	0	2	1502	WATER BASED MU	8.4
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
11.3	BBLS	Fresh Water	8.34	0	0	3000	8456	3000	3832	3000	Transport
Circulation Prior to Job											
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 0			Circulation Rate: 0 BPM		
Mud Density In: 0 LBS/GAL						Mud Density Out: 0 LBS/GAL			PV & YP Mud In: 0		
PV & YP Mud Out: 0						Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			Units: _____		
Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>											
Displacement And Mud Removal											
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: .2 BBLS					
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: Visually					
Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE											
Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Quantity: _____		Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID			
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD											
Plugs											
Number of Attempts by BJ: 0						Competition: 0			Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			Quantity: _____		
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: 0 FT			Bottom of Plug: 0 FT		
Squeezes (Update Original Treatment Report for Primary Job)											
BLOCK SQUEEZE <input type="checkbox"/>						SHOE SQUEEZE <input type="checkbox"/>		TOP OF LINER SQUEEZE <input type="checkbox"/>		PLANNED <input checked="" type="checkbox"/> UNPLANNED <input type="checkbox"/>	
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		PSI Applied: 2537 Fluid Weight: 15.8 LBS/GAL			
Casing Test (Update Original Treatment Report for Primary Job)											
Casing Test Pressure: 0 PSI						With 0 LBS/GAL Mud			Time Held: 00 Hours 00 Minutes		
Shoe Test (Update Original Treatment Report for Primary Job)											
Depth Drilled out of Shoe: 0 FT						Target EMW: 0 LBS/GAL			Actual EMW: 0 LBS/GAL		
Number of Times Tests Conducted: 0						Mud Weight When Test was Conducted: 0 LBS/GAL					

CEMENT JOB REPORT



Problems Before Job (I.E. Running Casing, Circulating Well, ETC)							
None							
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)							
None							
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)							
None							
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None							

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4693 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
07:40	0	0	0	0	N/A	Spot trucks, pre-rig up safety meeting	
08:44	0	0	0	0	N/A	Pre-job safety meeting	
09:06	1064	0	0	0	WATER	Low pressure test	
09:09	4963	0	0	0	WATER	High pressure test	
09:16	0	300	.4	.5	WATER	Load backside	
09:21	2493	300	1	3.6	WATER	Injection test	
09:30	2379	300	1.1	10	CEMENT	Batch-up, weigh, & pump 10 bbls Class G @ 15.8 ppg	
09:45	0	0	0	0	N/A	Wash-up pumps & lines	
09:50	1814	300	.9	11.3	WATER	Displace	
10:03	0	0	0	0	N/A	Shut-down, wait 5 minutes	
10:09	645	300	.5	.25	WATER	Squeeze	
10:21	536	300	.5	.25	WATER	Squeeze	
10:59	548	300	.4	.25	WATER	Squeeze	
11:32	589	300	.4	.25	WATER	Squeeze	
12:32	833	300	.4	.25	WATER	Squeeze	
13:33	2518	300	.4	.25	WATER	Squeeze	
13:46	2537	300	.4	.1	WATER	Squeeze	
13:47	0	0	0	0	N/A	Job done	
13:48	0	0	0	0	N/A	Pre-rig down safety meeting	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
Y <input checked="" type="checkbox"/> N	0	Y <input checked="" type="checkbox"/> N	0	27	0	Y <input checked="" type="checkbox"/> N	

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2861773	Quote #:	Sales Order #: 8285099
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Brmak, Joe	
Well Name: Jacob Schlegel	Well #: #1	API/UWI #: 05-123-07755	
Field: WATTNEBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Lat: N 40.185 deg. OR N 40 deg. 11 min. 4.477 secs.		Long: W 104.684 deg. OR W -105 deg. 18 min. 58.392 secs.	
Contractor: ENSIGN	Rig/Platform Name/Num: #212		
Job Purpose: Squeeze Hole in Casing			
Well Type: Development Well	Job Type: Squeeze Hole in Casing		
Sales Person: JACOBS, JESS	Srvc 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 #
FLYNN, SHAD Michael	4.5	476484	IOERGER, TODD A	4.5	485941	LAVALLEY, LARRY P	4.5	419296
RAMOS, REFUGIO Castro	4.5	435413						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	20 mile	11488570C	20 mile	11518549	20 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6/29/11	4.5	2.5						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	29 - Jun - 2011	03:00 MST
Form Type	BHST				On Location	29 - Jun - 2011	07:00 MST
Job depth MD	2211. ft		Job Depth TVD	1178. ft	Job Started	29 - Jun - 2011	08:00 MST
Water Depth			Wk Ht Above Floor	6. ft	Job Completed	29 - Jun - 2011	12:23 MST
Perforation Depth (MD)	From		To		Departed Loc	29 - Jun - 2011	12:45 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
Retainer	Unknown								662.		
Production Casing	Used		4.5	4.	11.6		N-80		7389.		
Tubing	Unknown		2.875						677.		

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	

HALLIBURTON

Cementing Job Summary

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		5.00	bbl	8.33	.0	42.0	3.0	
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	200.0	sacks	15.8	1.15	5.0	2.0	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	5 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	12	Shut In: Instant	1313	Lost Returns	0	Cement Slurry	40	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	12	Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	54.5
Rates									
Circulating		Mixing	3	Displacement	3	Avg. Job	3		
Cement Left In Pipe	Amount	0 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					

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2861773	Quote #:	Sales Order #: 8285099
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Brmak, Joe	
Well Name: Jacob Schlegel	Well #: #1	API/UWI #: 05-123-07755	
Field: WATTNEBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 40.185 deg. OR N 40 deg. 11 min. 4.477 secs.		Long: W 104.684 deg. OR W -105 deg. 18 min. 58.392 secs.	
Contractor: ENSIGN		Rig/Platform Name/Num: #212	
Job Purpose: Squeeze Hole in Casing			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: JACOBS, JESS		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	06/29/2011 07:57							
Test Lines	06/29/2011 08:08						2388.0	TESTED LINES WITH RIG WATER
Pump Spacer 1	06/29/2011 08:13		3	5	5		728.0	RIG WATER SPACER NO ADDITIVES
Pump Lead Cement	06/29/2011 08:16		3	40	45		767.0	200 SKS CLASS G WITH 1% CALCIUM CHLORIDE MIXED @ 15.8 PPG
Pump Displacement	06/29/2011 08:32		3	6.5	51.5		383.0	RIG WATER WITH NO ADDITIVES
Shutdown	06/29/2011 08:36						518.0	WAITED 15 MIN TO SQUEEZE CEMENT AT MAX PSI OF 1200
Start Staging - 15 Minutes	06/29/2011 08:53		0.5				500.0	PUMPED 1/4 BBL PRESSURED UP TO 500
Start Staging - 15 Minutes	06/29/2011 09:12		0.5				433.0	PUMPED 1/4 BBL PRESSURED UP TO 433
Start Staging - 15 Minutes	06/29/2011 09:26		0.5				414.0	PUMPED 1/4 BBL PRESSURED UP TO 414
Start Staging - 15 Minutes	06/29/2011 09:47		0.5	1	52.5		380.0	PUMPED 1/4 BBL PRESSURED UP TO 380
Start Staging - 30 Minutes	06/29/2011 10:07		0.5	0.5	53		445.0	PUMPED 1/2 BBL PRESSURED UP TO 445
Start Staging - 30 Minutes	06/29/2011 10:41		0.5	0.5	53.5		447.0	PUMPED 1/2 BBL PRESSURED UP TO 447

HALLIBURTON***Cementing Job Log***

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Staging - 30 Minutes	06/29/2011 11:13		0.5	0.5	54		529.0	PUMPED 1/2 BBL PRESSURED UP TO 529
Start Staging - 30 Minutes	06/29/2011 11:44		0.5	0.5	54.5		796.0	PUMPED 1/2 BBL PRESSURED UP TO 796
Start Staging - 30 Minutes	06/29/2011 12:15						1313. 0	FINAL PRESSURE BLEED OFF AND REPRESSURED UP TO 1313 HELD WITH NO LEAK
End Job	06/29/2011 12:23							RIG DOWN TO GO TO NEXT LOCATION

Sold To # : 345242

Ship To # :2861773

Quote # :

Sales Order # :

8285099