# **GW-007**

# REPORT

Well No. 3 Form C-103

# YEAR(S):

# Oct. 31, 2007

AUSTIN 3345 Bee Cave Road Suite 201 Austin, Texas 78746 USA Tel 512,732,9812 Fax 512,732,9816



HDUSTDN 1001 McKinney Suite 1445 Houston, Texas 77002 USA Tel 713.559.9950 Fax 713.559.9959

October 31, 2007

.

Mr. Carl J. Chavez Oil Conservation District 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Western Refining Company, LP - Well No. 3 (30-025-35956) Form C-103

Dear Mr. Chavez:

Lonquist Field Service, LLC (LFS) has recently completed the workover and testing of Well No. 3,(API No. 30-025-35956), on September 14, 2007. This transmittal letter includes the following attachments:

- Form C-103
  - o (3) Copies to be submitted to District I Office
- Pressure recorder charts from casing pressure test
- Digital Vertilog and Cement Bond Log 9 5/8" Casing
- Cement Report 9 5/8" Cement Squeeze
- Cement Report 7" Liner
- Wellbore Schematic

A sonar survey was completed on Well No. 3 and the results are summarized as follows:

- Cavern TD 2471'
- Cavern Roof 1666'
- Cavern Volume 79,691.7 bbls
- Cavern Cross Sections are attached to this letter

The complete sonar survey will be submitted to NMOCD upon completion of the final sonar report.

The Mechanical Integrity Test was also completed using the Nitrogen-Brine Interface Test Method. The test results are summarized as follows:

- Test Gradient 0.75 psi/ft
- Minimum Detectable Leak Rate 827.46 bbls/year
- Calculated Leak Rate 443.36 bbls/year

AUSTIN 3345 Bee Cave Road Suite 201 Austin, Texas 78746 USA Tel 512,732,9812 Fax 512,732,9816



HOUSTON 1001 McKinney Suite 1445 Houston, Texas 77002 USA Tel 713.559.9950 Fax 713.559.9959

MIT Executive Summary is attached to this letter

The complete MIT report will be submitted upon completion and receipt of MIT logs.

Please feel free to contact me (832-216-0785) or via email (<u>eric@lonquist.com</u>) if you have any questions.

Sincerely,

•

Eric Busch Operations Manager

Cc: NM OCD – District I, Hobbs, NM Bruce Davis – Western Refining, El Paso, TX Ken Parker – Western Refining, Jal, NM LFS – Project Files

Submit 3 Copies To Appropriate District Office	State of New Mex	xico	Form C-103
District I	Energy, Minerals and Natur	al Resources	May 27, 2004
District II	OU CONSERVATION	DIVISION	30-025-35956
1301 W. Grand Ave., Artesia, NM 88210	1220 South St. From	DIVISION	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. France South Ed. NM 87	cis Dr.	STATE FEE
District IV 1220 S. St. Francis Dr. Santa Fe. NM	Santa Fe, INIVI 87.	303	6. State Oil & Gas Lease No.
87505			30035
SUNDRY NOTI	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C-101) FOI	R SUCH	30055
PROPOSALS.)	Gas Well 🛛 Other I PG STOP A	GE WELL	8. Well Number 3
2. Name of Operator			9. OGRID Number
Western Refining Company, LP			248440
3. Address of Operator			10. Pool name or Wildcat
PO Box 1345 Jal, NM 88252			Salado
4. Well Location			
Unit Letter_M:	1000feet from theSOU'	TH line and	_530feet from theWESTline
Section 32	Township 23S	Range 37E	NMPM County LEA
	11. Elevation (Show whether DR, $33145' = KB - 3304'$ , GI	RKB, RT, GR, etc.	
Pit or Below-grade Tank Application 🗌 o	$\frac{1}{1} \frac{1}{1} \frac{1}$		
Pit typeDepth to Groundwa	aterDistance from nearest fresh wa	ater well Dis	tance from nearest surface water
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbls; C	onstruction Material
12 Check A	ppropriate Box to Indicate Na	ature of Notice	Report or Other Data
			Report of Other Data
NOTICE OF IN	TENTION TO:	SUE	SEQUENT REPORT OF:
		REMEDIAL WOR	
		COMMENCE DR	
POLL OR ALTER CASING		CASING/CEMEN	I JOB 🛛
OTHER:		OTHER:	<u>D</u>
13. Describe proposed or comp	leted operations. (Clearly state all pe	ertinent details, ar	d give pertinent dates, including estimated date
of starting any proposed wo			
or recompletion.	rk). SEE RULE 1103. For Multiple	e Completions: A	ttach wellbore diagram of proposed completion
	rk). SEE RULE 1103. For Multiple	e Completions: A	ttach wellbore diagram of proposed completion
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- 08/03/2007 Pressure test 7" casing for OCD
  - Pressure test based on NMOCD Rules
  - See attached pressure chart OCD approved pressure chart
  - Pressure tested to 300 psig
- 08/04/2007. Completion and testing of 7" liner installation
- 08/07/2007 Run 4 ½" Casing

- 0 4 1/2" Casing 11.6 lb/ft, K-55, LT&C W/MULE SHOE
- Run casing to 2475'
- 08/13-19/2007 Complete Nitrogen-Brine MIT
  - Test Results
    - Pressure Gradient 0.75 psi/ft
    - Minimum Detectable Leak Rate (MDLR) 827.46 bbls/year
    - Calculated Leak Rate (CLR) 443.36 bbls/year
  - o Test successful MIT Report to be submitted under separate cover
- 09/05/2007 Pull 4 <sup>1</sup>/<sub>2</sub>" casing and lay down bent pipe
- 09/06 12/2007 -Run a mixed string of 4  $\frac{1}{2}$ " casing and tubing
  - 4 ½", 15.50 lb/ft, PH-6, (2541' 1481.60')
    - 6 ¼" drill bit on bottom
  - o 4 <sup>1</sup>/<sub>2</sub>", 11.6 lb/ft, LT&C (1481.60' SURFACE)
- 09/13/2007 Run deviation survey
- 09/13/2007 Complete Sonar Survey
  - $\circ$  Measured Cavern TD 2471'
  - o Cavern Roof 1666'
  - o Cavern Volume 79,691.70 bbls
- 09/14/2007 Make final casing cut
  - Cut 4 <sup>1</sup>/<sub>2</sub>" casing @ 2,449'
- Final Sonar Survey will be submitted upon completion of final logs
- Final Cavern MIT to be submitted upon completion of final logs
- Attached Schematic includes all pertinent data

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or glosed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE

\_TITLE\_Operations Manager – Lonquist Field Service\_\_\_\_\_DATE\_\_\_\_10/30/2007

Type or print name Eric Busch For State Use Only E-mail address: eric@lonquist.com Telephone No.: 713.559.9953

APPROVED BY: \_\_\_\_\_ Conditions of Approval (if any): \_TITLE\_

\_DATE\_







### **Cementing Cover Sheet**

TO:SWANLUND, ALANFROM:ARNOLD, RONALDREQUESTED ON LOCATION:26-Jul-2007 06:00 MSTCUSTOMER:LONQUIST FIELD SERVICE LLCWELL NAME/NBR/LEASE:WESTERN REFINING , 3 / WESTERN REFINING

#### TABLE OF CONTENTS:

Job Site Documents Job Summary EJCS Survey Cementing KPI Survey Cementing CPI Log Summary HSE MSDS Receipt Water Analysis

**MBU LEADER:** BE SURE THAT YOU HAVE RECEIVED EACH OF THE DOCUMENTS LISTED ABOVE. IF NOT, CONTACT CENTRAL DISPATCH IMMEDIATELY.

# LONQUIST FIELD SERVICE LLC

WESTERN REFINING 3

Lea County, New Mexico

# **Squeeze Hole in Casing**

# **Job Site Documents**

SUMMIT Version: 7.20.130

Wednesday, October 24, 2007 01:58:00

# **Cementing Job Summary**

						T	'he i	Road to	) Exc	cellen	ce Sta	irts i	witl	n Safe	ty							
Sold <sup>-</sup>	Го #: З	34756	3		Shi	р То	#:	258820	5		Quo	te #	:				S	ales	Order	*#:5	2563	97
Custo	mer:	LONG	QUIST	FIELD	SEF	RVICE	E LL	_C			Cus	tom	er F	Rep: L	IND	T, JER	RY			•		
Well I	Name:	WES	TERN	N REFI	VING	;		We	ell #:	: 3	_					API	/UWI	#:				
Field:				Ci	tv (S	AP):	НО	BBS		Coun	tv/Par	ish:	Lea	a			S	tate:	New	Mexi	со	
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# **Cementing Job Summary**

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St	age/Plug #	: 1											
Fluid #	Stage Ty	ре		Fluid N	lame		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	PREMIUM	PLUS	СМ <sup>-</sup> (100	T - PREMIUM PLU 012205)	JS CEMENT		100.0	sacks	14.8	1.35	6.39		6.39
	94 lbm		CM	T - PREMIUM PLU	JS - CLASS	C REG	OR TYPE	III, BUL	K (100012	205)			
	2 %		CAL	CIUM CHLORIDE	- HI TEST F	PELLET	(1000050	953)					
	6.387 Gal		FRE	SH WATER									
Ca	alculated V	alues		Pressu	res				· V	<b>olumes</b>			
Displa	cement	7.5		Shut In: Instant		Lost Re	eturns		Cement S	lurry	24	Pad	
Top O	f Cement			5 Min		Cemen	t Returns		Actual Di	splacem	ent 6	Treatm	nent
Frac G	iradient			15 Min		Spacer	s		Load and	Breakdo	wn	Total J	ob
						R	ates						
Circu	lating			Mixing	1.2	2	Displac	ement	1		Avg. Jo	ob	1.1
Cerr	ient Left In F	Pipe	Am	ount 0 ft Rea	ason Shoe	Joint							
Frac	Ring # 1 @		ID	Frac ring # 2	:@	D	Frac Rin	g # 3 @	11	<b>)</b>	Frac Ring	#4@	ID
Т	The Information Stated Herein Is Correct												

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#### **CEMENTING EJCS**

Sales Order #: 5256397	Line Item: 10	Date: 07/26/2007
Customer: LONQUIST FIELD	SERVICE LLC	Job Type (BOM): Squeeze Hole in Casing
Customer Rep. / Phone: LI	NDT, JERRY	API (If no API; leave blank):
H2S Present: Unknown	Well Type: Development Well	Well Name: WESTERN REFINING 3

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

RATING	DESCRIPTION	OPPORTUNITY
5	Superior Performance (Establish new quality/performance standards)	Best Practice
4	Exceeded Expectations (Provided more than what was required/expected)	Potential Best Practice
3	Met Expectations (Did what was expected)	Prevention/Improvement
2	Below Expectations (Did not do what was expected - *Recovery made)	CPI Required
1	Poor Performance (Job problems/failures occurred - Some *recovery made)	CPI Required
	* Recovery : resolved issue(s) on jobsite in a timely and professional manner	

#### END OF JOB CUSTOMER SURVEY

CATEGORY	CUSTOMER SATISFACTION RATING (1-5)	
PERSONNEL	Did our personnel perform to your satisfaction?	
EQUIPMENT	Did our equipment perform to your satisfaction?	·
JOB DESIGN	Did we Perform the job to the agreed upon design?	
PRODUCT / MATERIAL	Did our products and materials perform as you expected?	
HEALTH & SAFETY	Did we perform in a safe and careful manner (Pre/post mtgs., PPE, JSA, etc.)?	
ENVIRONMENTAL	Did we perform in an environmentally sound manner (Spills, leaks, cleanup, etc.)?	
TIMELINESS	Was job performed as scheduled (On time to site, accessible to customer, completed on time)?	
CONDITION/ APPEARANCE	Did the equipment condition and appearance meet your expectations?	
COMMUNICATION	How well did our personnel communicate during mobilization, rig-up and job execution?	
IMPROVEMENT	What can we do to improve our service?	
COMMENT		

Overall, I was satisfied with your job performance	🖸 Yes	C No
CUSTOMER SIG	NATURE	

#### **CEMENTING KPI SURVEY**

Sales Order #: 5256397	Line Item: 10	Survey Date: 07/26/2007			
Customer: LONQUIST FIELD		Casing			
Customer Rep. / Phone: LI	NDT, JERRY	API (If no API; leave blank):			
H2S Present: Unknown	Well Type: Development Well	Well Name: WESTERN REFINING 3			

#### **DEFINITION OF JOB – DEFINED AS A PUMPING SESSION**

#### (Complete these sections for ALL jobs.)

<u></u>			
CEMENTING/MISC (Required)	OPERATION TIME (hrs) (Total hours on location, including no rig up, pumping, rig down.)	4	
	HSE INCIDENT, ACCIDENT, INJURY: (Recordable incidents only)	NO	
	WAS THE JOB DELIVERED CORRECTLY AS PER CUSTOMER AGREED JOB DESIGN? : (Definition: Pumping performed correctly and desired job outcome achieved.)	YES	
	PUMPING HOURS: (Total number of hours pumping fluid on this job)	2	
	TYPE OF RIG (CLASSIFICATION) JOB WAS PERFORMED ON : (Drill Ship, Platform, Jack-Up, Semi-Submersible, Submersible, Land Drlg, Land Work Over, Land None)	Workov	er
CEMENTING/MISC (Optional)	NUMBER OF JSAs PERFORMED : (Job Safety Analysis)	1	_
CEMENTING/MISC (Optional)	NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility) (hrs) : (Time that rig was delayed (hours) due to Cementing responsibility)	0	
	<b>REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility) :</b> (If appropriate, describe the reason for non-productive rig time due to Cementing PSL)	)	
CEMENTING/MISC (Optional)		, .	
<b>CEMENTING/MISC</b> (Optional)	NUMBER OF UNPLANNED SHUTDOWNS (After starting to (Number of unplanned pumping operation sh	<b>pump) :</b> utdowns)	0
	<b>REASON FOR UNPLANNED SHUTDOWNS (After starting to pump) :</b> (If appropriate, describe the reason for unplanned shutdown(s) after starting to pump)	)	
CEMENTING/MISC (Optional)			

#### **KEY PERFORMANCE INDICATORS – CEMENTING** (Complete these sections ONLY for Cement Jobs.)

	WAS THIS A PRIMARY CEMENT JOB? :	*
NO	(Primary Cement Job = Casing job, Liner job or Tie-back job)	
NO	WAS THIS A PRIMARY PLUG JOB? : (Was this the first attempt to obtain a cement plug at a specific well depth.) (E.g. Kick Off Plug, Plug to Abandon Plug or LCM Plug)	
YES	WAS THIS A PRIMARY SQUEEZE CEMENT JOB? : (Definition: Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak.)	
99	MIXING DENSITY - PERCENT(%) OF JOB STAYED IN DESIGNED DENSITY RANGE ( 0 - 100%) : (Density range defined as +/- 0.20ppg ie. 2/10ppg) (Calculation: Total BBLS cement mixed at designed density divided by total BBLS of cement pumped multiplied by 100)	•

#### **CEMENTING KPI SURVEY**

# HALLIBURTON

	WAS AUTOMATED DENSITY CONTROL (ADC) USED? :	YES
	PUMP RATE - PERCENT(%) OF JOB STAYED AT DESIGNED PUMP RATE : (Pump rate range defined as +/- 1bbl/min) (Calculation: Total BBLS of fluid pumped at the designed rate divided by total BBLS of fluid pumped, multiplied by 100)	99
	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED AFTER PRIMARY JOB PERFORMED BY HES : (Remedial Squeeze Job = Shoe Squeeze, Block Squeeze or Unplanned Liner Top Squeeze)	0
CEMENTING (Optional)	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED AFTER PRIMARY JOB PERFORMED BY COMPETITION :	0
<b>CEMENTING</b> (Optional)	NUMBER OF REMEDIAL PLUG JOBS NEEDED AFTER PRIMARY PLUG PUMPED BY HES : (Number of additional plugs set at the same well depth following the FIRST plug pumped by HES)	0
<b>CEMENTING</b> (Optional)	DID WE RUN TOP AND BOTTOM CASING WIPER PLUGS? :	NO

# CPI Job Log Summary

			Ticket #	Ticket	date	
			5256397	Ju	ly 26, 2007	
NWA/Country		BDA/State	Parish/County			
United State	es of America	New Mexico		Lea		
MBU ID/EMPL #		HES Employee Name	PSL Department			
17	8558	SWANLUND, ALAN	Squeez	e Hole in Cas	sing	
Location		Company	Customer Rep	Customer Rep		
Hobbs,	NM, USA	LONQUIST FIELD SERVICE LLC		NDT, JERRY	ERRY	
Ticket Amount		Well Type	Customer Rep Ph	ione		
		Development Well				
Field/Area		Well Name	Well #			
		WESTERN REFINING		3		
API/UWI #	Job Purpose Code	Well Category	SEC TV	WN	RNG	
	Squeeze Hole in	Development				
	Casing			_	1_	

Lost Time         Operating Non Conformance       Equipment Non Conformance         Lost Time – Halliburton       Materials Non Conformance         Design Non Conformance       Design Non Conformance         Standby – Rig Standby – Rig Standby – Customer       Standby Time         Standby – Customer       Standby – Hours Policy         Job Time       Job Time         Call Taken – Date/Time/Zone       Start Rig Up – Date/Time/Zone         Call Out Crew – Date/Time/Zone       Complete Rig Up – Date/Time/Zone         Crew Called Actual – Date/Time/Zone       Rqstd Job Start – Date/Time/Zone         Crew Leave Service Center – Date/Time/Zone       Rqstd Job Start – Date/Time/Zone         Crew Arrive Service Center – Date/Time/Zone       Start Rig Down – Date/Time/Zone         26 Jul - 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         26 Jul - 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         July 26, 2007 12:00 Crew Return Service Center – Date/Time/Zone       Start Rig Down – Date/Time/Zone         July 26, 2007 12:00 Crew Return Service Center – Date/Time/Zone       Start Rig Down – Date/Time/Zone	CPI Job Log Summary												
Operating Non Conformance       Equipment Non Conformance         Lost Time – Halliburton       Materials Non Conformance         Design Non Conformance       Design Non Conformance         Standby – Rig Standby       Standby Time         Standby – Customer Standby – Customer       Standby – Start Rig Up – Date/Time/Zone         Call Taken – Date/Time/Zone       Start Rig Up – Date/Time/Zone         Call Taken – Date/Time/Zone       Start Rig Up – Date/Time/Zone         Call Out Crew – Date/Time/Zone       Rigst Job Start – Date/Time/Zone         Crew Called Actual – Date/Time/Zone       Rigst Job Start – Date/Time/Zone         Crew Arrive Service Center – Date/Time/Zone       July 26, 2007 07:00 (GMT-07:00) Mountain Time         Crew Rigst On Location – Date/Time/Zone       July 26, 2007 09:23 GMT         26 - Jul – 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Rigst On Location – Date/Time/Zone       July 26, 2007 11:30 GMT         Start Rig Down – Date/Time/Zone       July 26, 2007 11:30 GMT         26 - Jul – 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone <th></th> <th>Lost Time</th>		Lost Time											
Lost Time – Halliburton       Materials Non Conformance         Design Non Conformance       Design Non Conformance         Standby – Rig       Standby Time         Standby – Rig       Standby - Customer         Standby – Customer       Standby – Hours Policy         Call Taken – Date/Time/Zone       Job Time         Call Taken – Date/Time/Zone       Start Rig Up – Date/Time/Zone         Call Out Crew – Date/Time/Zone       Complete Rig Up – Date/Time/Zone         Crew Called Actual – Date/Time/Zone       Complete Rig Up – Date/Time/Zone         Crew Arrive Service Center – Date/Time/Zone       Rqstd Job Start – Date/Time/Zone         Crew Leave Service Center – Date/Time/Zone       July 26, 2007 01:00 (GMT-07:00) Mountain Time         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         July 26, 2007 01:00 (GMT-07:00) Mountain Time       Crew Leave Location – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Leave Location – Date/Time/Zone         July 26, 2007 12:00       Crew Leave Location – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/T	Operating Non Conformance	Equipment Non Conformance											
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Call Out Crew – Date/Time/Zone       Complete Rig Up – Date/Time/Zone         Crew Called Actual – Date/Time/Zone       Rqstd Job Start – Date/Time/Zone         Crew Arrive Service Center – Date/Time/Zone       Actual Job Start – Date/Time/Zone         Crew Leave Service Center – Date/Time/Zone       July 26, 2007 09:23 GMT         Crew Rqstd On Location – Date/Time/Zone       Job Complete Rig Up – Date/Time/Zone         26 - Jul - 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         26 - Jul - 2007 06:00 (GMT-07:00) Mountain Time       Crew Leave Location – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Crew Leave Location – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         Mours       0       Location Hours       4	Call Taken – Date/Time/Zone	Start Rig Up – Date/Time/Zone											
Crew Called Actual – Date/Time/Zone       Rqstd Job Start – Date/Time/Zone         Crew Arrive Service Center – Date/Time/Zone       Actual Job Start – Date/Time/Zone         Crew Leave Service Center – Date/Time/Zone       July 26, 2007 09:23 GMT         Crew Rqstd On Location – Date/Time/Zone       July 26, 2007 11:30 GMT         Crew Arrive On Location – Date/Time/Zone       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Crew Leave Location – Date/Time/Zone         Murs       Mours	Call Out Crew Date/Time/Zone	Complete Rig Up – Date/Time/Zone											
Crew Arrive Service Center – Date/Time/Zone       Actual Job Stat – Date/Time/Zone         Crew Leave Service Center – Date/Time/Zone       July 26, 2007 09:23 GMT         Crew Rqstd On Location – Date/Time/Zone       July 26, 2007 11:30 GMT         26 - Jul - 2007 06:00 (GMT-07:00) Mountain Time       Start Rig Down – Date/Time/Zone         Crew Arrive On Location – Date/Time/Zone       Crew Leave Location – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone         July 26, 2007 12:00       Crew Return Service Center – Date/Time/Zone	Crew Called Actual – Date/Time/Zone	Rqstd Job Start – Date/Time/Zone											
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Crew Arrive On Location – Date/Time/Zone July 26, 2007 12:00 Crew Return Service Center – Date/Time/Zone Hours Total Man Hours 0 Location Hours 4	Crew Rqstd On Location – Date/Time/Zone 26 - Jul - 2007 06:00 (GMT-07:00) Mountain Time	Start Rig Down – Date/Time/Zone											
Crew Return Service Center – Date/Time/Zone Hours Total Man Hours 0 Location Hours 4	Crew Arrive On Location - Date/Time/Zone	Crew Leave Location – Date/Time/Zone											
Hours       Total Man Hours     0       Location Hours     4		Crew Return Service Center – Date/Time/Zone											
Total Man Hours 0 Location Hours 4		Hours											
	Total Man Hours 0	Location Hours 4											

. Location Information: Which PSL? (Cement, Stim, WL, L&P)															
DATE	TICKET NUMBER 5256397	LONQUIST FIELD S	ERVICE LLC	WELL NAM	IE / NBR / LEASE RN REFINING , 3/ WESTERN REFINING										
LIST OF EMPLO	EES ON SITE. (In cas	e of evacuation, check boxes as e	employees are acc	counted for - use	additional paper if needed)										
HAYTON, GERA	LD K (214504)	IERR, ROBERT (324947)	SWANLUND, AL	AN J (178558)											
2. Discussion of H	Discussion of Hazards Found at the Job Site														
X Electrical Disc equipment and lin	( Electrical Discuss location of electrical lines and power sources in relation to equipment and lines. (e.g. cellars, tanks, pits.).														
X Chemicals Dis Chemicals , vapo materials. Provio	Chemicals Discuss possible exposures to substances such as dusts, Chemicals , vapors, radioactive materials, explosives, and Fla./combustible materials. Provide MSDS sheets, H2S, Gas Flammable gasses.														
X Overhead Disc hazards while on	X Overhead Discuss overhead hazards (e.g. guy wires, DME, chains, pulleys hazards while on the rig floor or under the rig floor). X Walking / working surfaces Discuss the terrain where the rig up and job will occur (e.g. boards, limestone, mud, stairways, walkways, the derrick, and the rig floor).														
X Cranes, Masts devices.	, Booms Discuss hazard	s associated with overhead lifting	X Lifting Dis reduce hear	scuss proper lifting t vy lifting such as forl	echniques and ways to eliminate or klifts, cranes, and sharing the load.										
<b>X</b> Weather Discuvisibility, etc.)	ss weather conditions (e.g.	heat, cold, ice, snow, rain, wind, dust,	<b>X</b> Falling Di 10 ft. (3.3 n	scuss job procedure n).	es requiring work at heights greater than										
X Chemical spill and pumps.	s & releases Tote tanks	, frac tanks, drums, hose connections	X Pressure	Discuss pressure h	azards such as DME and bulk tanks.										
X Ignition Source equipment, open	es Discuss possible ignition flames, smoking, etc.)	on sources (e.g. engines, electrical		Discuss equipment t	nat has been locked or tagged out.										
X Well bore fluid vent lines.	Is or gasses Discuss sh	ale shaker, frac tanks, return lines and	<b>X RA Handl</b> radiation. R approved P	ing Discuss hazard estrict the work area rocedures	ds working around different types of to those with the proper training. Follow										
X Explosives Ha materials. Restri approved proced	ndling Discuss hazards of the work area to those th ures.	of working with and around explosive at have proaper training. Follow													
3. Hazard Controls	·														
X Personal protection, and fall protection	ective equipment Discu nearing protection, protection,	ss required PPE such as respirators, ve footwear, hand and skin protection,	X Vents Dis	cuss vent lines for fi	ac tanks and bulk tanks.										
X Physical barri railings, and inert	ers Discuss items such as gas blankets.	hose covers, line tiedowns, guards,	X Equipmer	nt monitored for	leaks during job and contained										
X Weather Discu wind, ice, rain, sr	ss control measures for we ow, etc.	ather factors such as temperature,	X Equipmer	nt wash-up per cu	istomers instructions.										
X Ignition sourc as the use of spa rules.	e controls Discuss contr rk arrestors, emergency sh	ol measures for ignition sources such utdown procedures, and NO SMOKIN	G Equipmer leaving loca	<b>it drain pans</b> dra tion.	ined in approved containers prior to										
X Crane, Masts, on equipment and	Booms Safe working cap will not be overloaded.	pacities have been calculated per char	ts X All empty pails, and d	containers must rums.	be returned to facility I.e. empty sacks,										
X Safety equipm extinguishers, an	ent Discuss safety items d communication devices.	such as pop-off valves, fire	X Waste has procedures.	ndling Discussion	of chemical and waste handling										

# Job Site HSE Meeting Report

	Contingency Plans for Emergencies     X Location of eyewash/safety shower station Discuss the location     of the eyewash/safety shower station and how to use it.     X Assembly points Discuss where to gather in the event of an emergency.     X Fire fighting Discuss fire fighting responsibilities with the appropriate personnel     (trained and equipped personnel only).     X Contaminated soil Discuss procedures for spill / leak cleanup.     X Injury and accident procedures Discuss personnel responsibilities     X Rescue procedures Discuss rescue procedures with the appropriate     X Price fighting Discuss fire fighting responsibilities with the appropriate personnel     (trained and equipped personnel only).
Location of systex hashing how as table to buck the sociation of the systexhild ybuck statement of an intry or acident.       Image: Contaminated Solid Discuss procedures to fail (Mak CeRnu).         X       Assembly points. Discuss where to gather in the event of an omergany.       Image: Contaminated Solid Discuss procedures Discuss preserve for an intry or acident.         X       Print and acident procedures. Discuss the word incling responsibilities with the appropriate personnel (maned and equipped).         X       Print and acident procedures. Discuss the word discuss procedures and equipped).         X       Print and acident procedures. Discuss the out of whith the appropriate personnel (maned and equipped).         X       Print and acident procedures. Discuss the out on them, and what a control the boatton of the fail and the is responsible.         X       Print and acident procedures. Discuss the out on them on the out the host of the fail and the is responsible.         X       Print and acident procedures. Discuss the out on them on the out the host of the fail and the is responsible.         X       Print and acident procedures. Discuss the out on them on the out on the out on them on the out on them on the out on the out on them on the out on the out on them out the out on them on the out on them on them out on them outon them outon them outon them out on them out on them out on them	x       Location of eyewash/safety shower station       Discuss the location         x       Assembly points       Discuss where to gather in the event of an emergency.         x       Fire fighting       Discuss fire fighting responsibilities with the appropriate personnel         x       Rescue procedures       Discuss rescue procedures with the appropriate personnel
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# Job Site HSE Meeting Report

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#### HALLIBURTON ENERGY SERVICES

#### M. S. D. S. RECEIPT DOCUMENT

This receipt page is intended for use with Material Safety Data Sheets supplied by Halliburton Energy Services. The recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G -Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

This document provides the customer the instructions necessary to utilize the M. S. D. S. Safety Sheets and confirms that Halliburton Energy Services offers the Customer the communication for discussion on Chemical Safety of the provided materials.

	Customer Signature
Company :	LONQUIST FIELD SERVICE LLC
Lease, Well Name, Nbr :	WESTERN REFINING, WESTERN REFINING, 3
Ticket # :	5256397
Location : (To be completed by Service Supervisor)	HOBBS, NM, USA

## Job Graph

Company:	LONQUIST FIELD SERVICE LLC	Lease:	WESTERN REFINING	Well Name, Nbr:	WESTERN REFINING, 3
Rig Name/Nbr:	???			API No. /UWI	
County:	Lea	State:	New Mexico	Country:	United States of America

#### FIELD TEST KIT

**NOTE:** These tests are an indication of POTENTIAL contamination and are not conclusive. For more comprehensive results, a sample should be submitted to the Local Area Lab

Date	July 26, 2007	Ticket Number	5256397	
Service Supervisor	SWANLUND, ALAN	Water Source TA	NKER	_
				_

Temperature	75	[<80 F}	
pH.	7	[between 6-8 pH]	
Specific Gravity		[1.000 - 1.005 see Chart]	
Chart in Kit shows c	omparisons of: Chlorides	[<3,000 ppm @ 1.004 S.G.]	
	Calcium	[<500 ppm @ 1.004 S.G.]	

PASS	FAIL	<u>Nessler's Nitrogen</u>	[Passing Parameters]
		Color of Yellow	[<4.5 ppm (mg/L)]
		<u>Tannin-Lignin</u> Color of Blue	[<25.0 ppm]
		<u>Sulfate</u> Degree of Clarity Black X Visible	[200 ppm] [if NO >200 ppm = FAIL]
		<u>Iron (Fe)</u> Degree of Orange	[<20.0 ppm]

# Job Graph



# **Cementing Job Log**

The Road to Excellence Starts with Safety           Sold To #: 347563         Ship To #: 2588205         Quote #:         Sales Order #: 5256397													
Sold To #: 347563 S	hip To #: 2588	205	Q	uote #:			Sales	Order #: 5256397					
Customer: LONQUIST FIELD SI	ERVICE LLC		С	ustomer	Rep: LI	NDT, JER	RY						
Well Name: WESTERN REFINI	NG	Well #:	: 3			API	/UWI #:						
Field: City (	SAP): HOBBS	C	ounty/Pa	arish: Le	а		State:	New Mexico					
Contractor: ???	Rig/Pla	atform	Name/N	um: ???									
Job Purpose: Squeeze Hole in (	Casing					Ticket /	Amount:						
Well Type: Development Well	Job Ty	/pe: Sq	ueeze H	ole in Ca	sing								
Sales Person: THORNTON, PA	UL Srvc S	upervis	sor: SW/	ANLUND	, ALAN	MBU ID	Emp #:	178558					
Activity Description	Date/Time	Cht	Rate bbl/ min	Vol	ume bl	Pres ps	sure sig	Comments					
	· · ·	#		Stage	Total	Tubing	Casing						
RIG IN	July 26, 2007 07:00					-							
SAFETY MEETING	09:05							· ·					
FILL HOLE	09:23		.5_	1									
PRESSURE ANNULUS	09:25						400						
TEST LINES	09:26		.1	.1			1500						
FEED RATE	09:28		1.1				450						
PUMP SLURRY	09:32		1.2	24			380	PREMIUM PLUS @					
					·			14.8 #/gal					
WASH TRUCK		<u> </u>											
PUMP H20 DISPLACEMENT	10:11		./	2.5	2.5		300						
SOUEEZE	10.22	┨────	6		1.5	· · · ·	250	MINUMUM 145 DSI					
	10:55		.0	<u> </u>	4.5		300	MINIMUM 145 PSI					
	10:55		.4	01	6.01		1000						
SHUT IN	11:00			.01	0.01	<u>                                      </u>	1000						
						<u> </u>	000						
	<u> </u>												
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Prpsl #:

5256397

Thursday, July 26, 2007 11:15:00

# LONQUIST FIELD SERVICE LLC

**WESTERN REFINING 3** 

Lea County, New Mexico

#### Cement Liner 31-Jul-2007

# **Job Site Documents**

- - -

# **Cementing Job Summary**

					<b>T</b>	he i	Road to	<u>Ex</u>	cellen	ce S	tart	ts wit	th Sa	<u>ifet</u>	<u>v</u>							
Sold To #: 347563 Ship To #: 2588205 C												e #:				0,	Sales	Ord	ler #	: 5263	876	6
Customer:	LONC	JUIST	FIELD	SER	VICE	ΞLL	_C			Cu	sto	mer	Rep	: LII	NDT,	JERRY					_	
Well Name:	WES	TERN	REFIN	VING			W	ell #	<b>:</b> 3	- I						API/UW	/  #:					
Field:			Ci	v (S	AP):	HO	BBS		Coun	tv/Pa	aris	sh: Le	a				State	: Ne	w Me	exico		
Contractor	272			<b>y</b> (		R	Rig/Plat	orn	Nam	e/Nu	m:	222										
Job Purpos		ement	Liner							<u>on ta</u>												
Well Type:	Dovol	lonme				1		<u></u> C	ement	Lino	r											
Salos Pors						6		<u></u>	visor:		- <u>A</u>		<u> </u>					250	1525			
Sales reis	<u>on.</u>	HUKN		AUL			irve Sup	Jerv	loh D	303	<u>А,</u>		<u> </u>				ip #.	350	1525			
UES Em	n Nam					Т	LIES		JODP	rerso	nn Ewr									Sem Llue		
	DITE V		7.0		11p #	+		Emp					204	10 #		RES EN	np Na	me	<u> </u>	5 0	+	50525
ALVARADO			7.0	41/	570	<u>'</u>		/IN, C			5.0		3243	339	50	5A, LUU	15			5.0	13	50525
SOTO, MO	ISES		5.0	401	1377																	
									<b>.</b>			l									1	
	Diete				2	. #	Distance	. 1	⊑qu	upme L u	Ent	11-14-1	# D:		1.		UES	11-14	4 6	Viatana	1	
	Diste	ince-r	way	пез		ι#	Distance	- / V	vay		ES	Unit	<u>+ D</u>	stan	ice-i v	vay	пер	Unit	# L	Islance	<u>1</u>	way
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					•	h.			Jot	<u>Ηοι</u>	irs				<b>—</b>							
Date	Un L	.ocatior	<sup>7</sup>   <b>0</b>	perat	ing	Dat	te		Jn Loca	ation		Opera	ting			Date	On	Loca	tion	C	pe) הו	rating
Luly 31 200	7	5		1	<u> </u>	┢	······································	-	10015		ť	nours					пои	15			nc	Juis
	<u>'</u>					I				Tota	l ie	the si	im of	0.00	h colu	mn sena	ratoly					
	l			Jol	h					1010		110 30		cau	11 0010	Int	Tim	00		<b></b>		
Formation N	ame	<u> </u>	<u> </u>	001	<u> </u>											Date			Time	Т	ime	Zone
Formation D	epth (	MD)	[op]				Botto	m I				Calle			·	Dutt			11110	-		Lone
Form Type			<u></u>		BHS	ST	Τ						catio	on		1 - Jul -	2007		11:00	)	M	IST
Job depth M	D		1608. ft		Job	Depth TVD 1608 ft						Job S	tarte	d		1 - Jul -	2007		13:41		M	IST
Water Depth					Wk	Ht A	Above Fl	oor		5. ft		Job C	omp	lete	d 31 - Jul - 2007				14:26	;	M	IST
Perforation I	Depth	(MD) /	rom				То		· · · · · · · · · · · · · · · · · · ·		Departed Loc					31 - Jul - 2007 1					M	IST
					_				We	II Da	ta											
Description		New /	Ma	X	Size	ə	ID	Wei	ight		Th	read			Grad	e Top	MD	Bo	ttom	Тор		Bottom
		Used	press	sure	in		in	lbn	n/ft								ft	A N	ND	TVD		TVD
-			ps	ig															ft	ft		ft
LINER /		Used			1.	5	6.366	2	3.			·					·	16	<u>500.</u>	· ·		1600.
CASING	Ì	Used		1	9.02	. <b>5</b>	8.921	30	o.								•	20	000.	1 .		2000.
							l,	Too	le and		000	orlo	•		,,,,,,,		<u>.</u>	1				
Type	Sizo		Mako	Dei	nth	-			70 (		M	ako	Dor	th.			•	Sizo		Otv		Make
Guide Shoe	0120	wiy	marc	De	F	Pac	ker			<u>zry</u>	141	anc	Deb	<u>, , , , , , , , , , , , , , , , , , , </u>	Ton P	ype		7		1	+	HIM/E
Float Shoe		+			Ē	Brid	ae Plua	-			t				Botto	n Plua		_'				
Float Collar		1	1	1	F	Reta	ainer	1			1				SSR r	lug set		•			+	
Insert Float								$\square$							Plug (	Containe	r	7		1	+	QL
Stage Tool															Centr	alizers						
		•		,			N	lisc	ellane	ous	Ma	teria	ls									
Gelling Agt			Co	onc			Surfac	tan	t			Con	C		Acid	Туре			Qty		Co	nc %
Treatment F	d		Co	onc		•	Inhibit	or				Con	c		Sand	Туре			Size		Qt	Y
		· ·					<u> </u>		<u> </u>	id Da	ata											
Stage/F	lug #	: 1		•																		
Fluid Sta	ige Ty	pe	•		Flui	id N	lame	-		Qt	y	Qt	У	Mix	ixing Yield Mix I		Mìx F	luid	Ra	te	Tot	al Mix
#				-							uom Dens			Density ft3/sk		Gal	/sk	bbl/ı	nin  Fl	uid	Gal/sk	
												<u> </u>		Ibm	/gal				L			

# **Cementing Job Summary**

St	Stage/Plug #: 1														
Fluid #	Fluid Stage Type Fluid Name #								Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Tota Fluid	al Mix Gal/sk
1	PREMIUN	A PLUS	CM (100	T - PREMIUM I 012205)	PLUS CE	MENT		225.0	sacks	14.8	1.33	6.34	7.5	6.	.34
	94 lbm CMT - PREMIUM PLUS - CLASS C REG OR TYPE III, BULK (100012205)														
	6.336 Gal FRESH WATER														
Ca	Calculated Values Pressures Volumes														
Displac	cement	63		Shut In: Insta	nt		Lost Re	turns	NONE	Cement Si	lurry	53	Pad		
Top O	f Cement	SURF/	<b>\CE</b>	5 Min			Cement	t Returns	8	Actual Di	splaceme	ent 63	Treatm	ient	
Frac G	Gradient			15 Min			Spacer	S	8	Load and	Breakdo	wn	Total J	ob	124
Rates										• • •					
Circula	ating 0			Mixing		7.5	5	Displacer	nent	7.	5	Avg. Jo	ob	7.	5
Cemer	nt Left I <u>n Pij</u>	pe	Am	ount 0 ft	Reason	Shoe	Joint								
Frac R	ling # 1 @	/	D	Frac ring t	# 2 @	ID		Frac Ring	#3@	ID	F	rac Ring #	4@	ID	
The l	he Information Stated Herein Is Correct Customer Representative Signature														

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# **Cementing Job Log**

	Th	e Road to	Excellen	ce Starts	with Sat	fety			
Sold To #: 347563	hip To #:	2588205	8205 Quote #:				Sales Order #: 5263876		
Customer: LONQUIST FIELD SI	ERVICE LL	.C		Custome	r Rep: Ll	NDT, JER	RY		
Well Name: WESTERN REFINING			Well #: 3			API/UWI #:			
Field: City (	SAP): HOI	BBS	County/F	Parish: Le	ea		State:	New Mexico	
Legal Description:									
Lat:				Long:	199				
Contractor: ???	R	ig/Platfor	m Name/N	Num: ???	?				
Job Purpose: Cement Liner						Ticket	Amount:		
Well Type: Development Well	J	ob Type: (	Cement Li	ner					
Sales Person: THORNTON, PAI	UL S	rvc Super	visor: SC	SA, LOU	IS	MBU IE	) Emp #:	350525	
Activity Description	Date/Ti	me Ch	t Bbl/ min	Vol b	ume bl	Pres p:	sure sig	Comments	
		#		Stage	Total	Tubing	Casing	·	
Call Out	07/31/20	07							
	07:00								
Safety Meeting - Service	07/31/20	07							
Center or other Site	09:50	07		· · · ·					
Other Site	10:00	07							
Arrive at Location from Service	07/31/20	07							
Center	11:00								
HES Resources on Location	07/31/20	07							
and Available to Perform	-1-1:00								
Safety Meeting - Assessment	07/31/20	07							
of Location	11:05	<i>.</i>							
Safety Meeting - Pre Rig-Up	07/31/20   11:10	07							
Rig-Up Equipment	07/31/20	07							
Rig-Un Completed	07/31/20	07							
	12:15								
Time Customer is Ready to	07/31/20	07							
Turn Control Over to HES	13:30								
Safety Meeting - Pre Job	07/31/20	07		1					
	13:35								
Start Job	07/31/20	07							
	13:41								
Circulate Well	07/31/20	07	3		13		160.0	H20	
	13:42								
Test Lines	07/31/20	07	3		3		3500.	H20	
	13:56						0		
Pump Spacer	07/31/20	07	4		20		131.0	H20	
Pump Cement	07/31/20	07	7.5		53	·	600.0	MIXED 225 SKS OF	
	14:01							PREM. PLUS @ 14.8 PPG.	
Drop Plug	07/31/20	07					<b>—</b>	7 HWE.	
	14:11								

Sold To #: 347563

Quote # :

# **Cementing Job Log**

Activity Description	Date/Time	Cht	Rate bbl/ min	Rate bbl/ min bbl		Pressure psig		Comments	
		#		Stage	Total	Tubing	Casing		
Pump Displacement	07/31/2007 14:12		7.5		63		671.0	H20	
Bump Plug	07/31/2007 14:25		2		63		851.0	BUMPED PLUG AND SHUT DOWN AS PER CUSTOMER.	
Check Floats	07/31/2007 14:26					-		FLOATS HELD. 1BBL BACK TO THE STEEL PIT.	
End Job	07/31/2007 14:26							CIRCULATED 33 SKS (8BBLS) TO THE STEEL PIT.	
Safety Meeting - Pre Rig- Down	07/31/2007 14:27								
Rig-Down Equipment	07/31/2007 14:30								
Rig-Down Completed	07/31/2007 15:30								
Safety Meeting - Departing Location	07/31/2007 15:45								
Depart Location for Service Center or Other Site	07/31/2007 16:00								
Return to Service Center from Job	07/31/2007 17:00							THANKS LOUIS SOSA AND CREW!	

Sold To #: 347563 SUMMIT Version: 7

7.20.130

#### **CEMENTING EJCS**

Sales Order #: 5263876	Line Item: 5263876	Date: 7/30/2007		
Customer: LONQUIST FIEL	) SERVICE LLC	Job Type (BOM): Cement Liner		
Customer Rep. / Phone: L	INDT, JERRY	API (If no API; leave blank):		
H2S Present: Unknown Well Type: Development Well		Well Name: WESTERN REFINING 3		

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

RATING	DESCRIPTION	OPPORTUNITY
5	Superior Performance (Establish new quality/performance standards)	Best Practice
4	Exceeded Expectations (Provided more than what was required/expected)	Potential Best Practice
3	Met Expectations (Did what was expected)	Prevention/Improvement
2	Below Expectations (Did not do what was expected - *Recovery made)	CPI Required
1	Poor Performance (Job problems/failures occurred - Some *recovery made)	CPI Required
	* Recovery : resolved issue(s) on jobsite in a timely and professional manner	

#### END OF JOB CUSTOMER SURVEY

CATEGORY	CUSTOMER SATISFACTION RATING (1-5)	
PERSONNEL	Did our personnel perform to your satisfaction?	
EQUIPMENT	- Did our equipment perform to your satisfaction?	
JOB DESIGN	Did we Perform the job to the agreed upon design?	
PRODUCT / MATERIAL	Did our products and materials perform as you expected?	
HEALTH & SAFETY	Did we perform in a safe and careful manner (Pre/post mtgs., PPE, JSA, etc.)?	
ENVIRONMENTAL	Did we perform in an environmentally sound manner (Spills, leaks, cleanup, etc.)?	
TIMELINESS	Was job performed as scheduled (On time to site, accessible to customer, completed on time)?	
CONDITION/ APPEARANCE	Did the equipment condition and appearance meet your expectations?	
COMMUNICATION	How well did our personnel communicate during mobilization, rig-up and job execution?	
IMPROVEMENT COMMENT	What can we do to improve our service?	
		47 - 44 - 14 - 44 - 44 - 44 - 44 - 44 -

Overall, I was satisfied with your job performance	🖸 Yes	C No
CUSTOMER SIG	GNATURE	

#### **CEMENTING KPI SURVEY**

Sales Order #: 5263876	Line Item: 5263876	Survey Date: 7/30/2007			
Customer: LONQUIST FIELD	SERVICE LLC	Job Type (BOM): Cement Liner			
Customer Rep. / Phone : Li	INDT, JERRY	API (If no API; leave blank):			
H2S Present: Unknown	Well Type: Development Well	Well Name: WESTERN REFINING 3			

#### **DEFINITION OF JOB – DEFINED AS A PUMPING SESSION**

#### (Complete these sections for ALL jobs.) CEMENTING/MISC **OPERATION TIME (hrs)** 5 (Required) (Total hours on location, including no rig up, pumping, rig down.) **HSE INCIDENT, ACCIDENT, INJURY:** NO (Recordable incidents only) WAS THE JOB DELIVERED CORRECTLY AS PER **CUSTOMER AGREED JOB DESIGN? :** YES (Definition: Pumping performed correctly and desired job outcome achieved.) PUMPING HOURS: 1 (Total number of hours pumping fluid on this job) TYPE OF RIG (CLASSIFICATION) JOB WAS PERFORMED ON : (Drill Ship, Platform, Jack-Up, Semi-Submersible, Submersible, Land Drlg, Workover Land Work Over, Land None) **CEMENTING/MISC NUMBER OF JSAs PERFORMED :** 1 (Optional) (Job Safety Analysis) **CEMENTING/MISC** NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility) (hrs) : 0 (Time that rig was delayed (hours) due to Cementing responsibility) (Optional) REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility) : (If appropriate, describe the reason for non-productive rig time due to Cementing PSL) NONE -----CEMENTING/MISC (Optional) **CEMENTING/MISC** NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump) : (Optional) (Number of unplanned pumping operation shutdowns)

<b>CEMENTING/MISC</b> (Optional)	<b>REASON FOR UNPLANNED SHUTDOWNS (After starting to pump) :</b> (If appropriate, describe the reason for unplanned shutdown(s) after starting to pump) NONE
· ·	

#### **KEY PERFORMANCE INDICATORS – CEMENTING** (Complete these sections ONLY for Cement Jobs.)

WAS THIS A PRIMARY CEMENT JOB? : (Primary Cement Job = Casing job, Liner job or Tie-back job)	YES
WAS THIS A PRIMARY PLUG JOB? : (Was this the first attempt to obtain a cement plug at a specific well depth.) (E.g. Kick Off Plug, Plug to Abandon Plug or LCM Plug)	NO
WAS THIS A PRIMARY SQUEEZE CEMENT JOB? : (Definition: Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak.)	NO
MIXING DENSITY - PERCENT(%) OF JOB STAYED IN DESIGNED DENSITY RANGE ( 0 - 100%) : (Density range defined as +/- 0.20ppg ie. 2/10ppg) (Calculation: Total BBLS cement mixed at designed density divided by total BBLS of cement pumped multiplied by 100)	95

0

#### **CEMENTING KPI SURVEY**

	WAS AUTOMATED DENSITY CONTROL (ADC) USED? :	YES
	PUMP RATE - PERCENT(%) OF JOB STAYED AT DESIGNED PUMP RATE : (Pump rate range defined as +/- 1bbl/min) (Calculation: Total BBLS of fluid pumped at the designed rate divided by total BBLS of fluid pumped, multiplied by 100)	96
	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED AFTER PRIMARY JOB PERFORMED BY HES : (Remedial Squeeze Job = Shoe Squeeze, Block Squeeze or Unplanned Liner Top Squeeze)	0
<b>CEMENTING</b> (Optional)	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED AFTER PRIMARY JOB PERFORMED BY COMPETITION :	0
CEMENTING (Optional)	NUMBER OF REMEDIAL PLUG JOBS NEEDED AFTER PRIMARY PLUG PUMPED BY HES : (Number of additional plugs set at the same well depth following the FIRST plug pumped by HES)	0
CEMENTING (Optional)	DID WE RUN TOP AND BOTTOM CASING WIPER PLUGS? :	NO

# CPI Job Log Summary

			Ticket #	Ticket	date
			5263876	(	07/31/2007
NWA/Country		BDA/State	Parish/County		
United States	of America	New Mexico	Lea		
MBU ID/EMPL #		HES Employee Name	PSL Departme	nt	
35052	25	SOSA, LOUIS	Cement Liner		
Location		Company	Customer Rep		
Hobbs, NM, USA		LONQUIST FIELD SERVICE LLC	LINDT, JERRY		
Ticket Amount		Well Type	Customer Rep Phone		
		Development Well			
Field/Area		Well Name	Well #		
		WESTERN REFINING 3		3	
API/UWI #	Job Purpose Code	Well Category	SEC	TWN	RNG
	Cement Liner	Development			

	CPI Job Log Summary
	Lost Time
Operating Non Conformance Lost Time – Halliburton	Equipment Non Conformance Materials Non Conformance
	Design Non Conformance
	Standby Time
Standby – Rig	
Standby	
Standby – Customer	
Standby – Hours Policy	
	Job Time
Call Taken – Date/Time/Zone	Start Rig Up – Date/Time/Zone
Call Out Crew – Date/Time/Zone	31 - Jul - 2007 11:15 (GMT-07:00) Mountain Time Complete Rig Up – Date/Time/Zone
Crew Called Actual – Date/Time/Zone	Rqstd Job Start – Date/Time/Zone
Crew Arrive Service Center – Date/Time/Zone	Actual Job Start – Date/Time/Zone 31 - Jul - 2007 13:41 (GMT-07:00) Mountain Time
Crew Leave Service Center – Date/Time/Zone	Job Complete – Date/Time/Zone 31 - Jul - 2007 14:26 (GMT-07:00) Mountain Time
Crew Rqstd On Location Date/Time/Zone 31 - Jul - 2007 11:00 (GMT-06:00) Central Time	Start Rig Down – Date/Time/Zone 31 - Jul - 2007 14:30 (GMT-07:00) Mountain Time
Grew Arrive On Location – Date/Time/Zone 31 - Jul - 2007 11:00 (GMT-07:00) Mountain Time	Crew Leave Location – Date/Time/Zone 31 - Jul - 2007 16:00 (GMT-07:00) Mountain Time Crew Return Service Center – Date/Time/Zone
	Hours
Total Man Hours	Location Hours 5



Treatment Data









#### SONARWIRE, INC Vertical Cross Section

STATE LPG WELL NO. 3 Wed, Sep 12, 2007



176

#### SONARWIRE, INC Vertical Cross Section



#### SONARWIRE, INC Vertical Cross Section



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#### SONARWIRE, INC Vertical Cross Section



WESTERN REFINING STATE LPG WELL NO. 3 JAL, NM SONARWIRE, INC Max Range vs Bearing Max Radius= 63.6 ft @ 191.3 deg Depth= 2448 ft. Wed, Sep 12, 2007



#### **Executive Summary**

Lonquist Field Service, LLC. (LFS) was contracted to conduct a Mechanical Integrity Test on Well No. 3 for Western Refining Company, LP (Western Refining) from August 13-19, 2007. A nitrogen-interface test method was used for this test. Nitrogen was injected into Well No. 3 on August 16, 2006 and there was a stabilization period until August 17, 2007. The well was then shut in for a period of 48 hours to conduct the actual test. After observing the change in the nitrogen interface depth the total volume change was calculated. Using an average temperature and pressure across the effected well depth and by extrapolating the time an annual net loss could be calculated. This calculation yielded a loss of 443.36 bbls of nitrogen per year and a Minimum Detectable Leak Rate (MDLR) 827.46 bbls/year. The well was tested to a test gradient of 0.75 psi/ft at the 9 5/8" casing shoe. Considering these results and the guidelines set forth by the Oil Conservation Division, Well No. 3, at the time of this test, demonstrated the mechanical integrity required for LPG storage.