



Confidentiality Requested:

Yes  No

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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
- Plug Back       Conv. to GSW     Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD                  Permit #: \_\_\_\_\_
- ENHR                Permit #: \_\_\_\_\_
- GSW                  Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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 #: \_\_\_\_\_

**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.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1120097

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Nunemaker 2509 32-1H
Doc ID	1120097

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4468 - 4684'	133896 gals fluid; 236718# proppant	
6	4756 - 4974'	132426 gals fluid; 188356# proppant	
6	5044 - 5262'	133056 gals fluid; 185381# proppant	
6	5332 - 5550'	122136 gals fluid; 187146# proppant	
	5650'	Cast Iron Bridge Plug	
6	5869 - 6087'	155022 gals fluid; 1191982# proppant	
6	6157 - 6375'	174636 gals fluid; 126057# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Nunemaker 2509 32-1H
Doc ID	1120097

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	18	47.76	60	1/2 Portland Cmt	42	15% Fly Ash
Surface	12.25	9.625	36	325	Class C	325	See attached
Intermediate	8.75	7	26	4246	Class C	300	See attached
Liner	6.125	4.5	11.6	6600	Class H	240	See attached

SHELL GULF OF MEXICO, INC. (34574)			
<b>PETE MARTIN DRILLING (34645)</b> <b>(SET THE CONDUCTOR)</b>		1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD		12/3/2012	
spud in date		12/2/2012	12/5/2012
T.D date		12/3/2012	12/6/2012
Size Hole Drilled		30"	24"
Size Casing Set (in O.D )		18"	14"
Conductor wall thickness		250	188
Weight Lbs./Ft.		47.76	27.76
Setting Depth		60'	75'
Type of Cement		Type 1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement		7cyd	7cyd
2500 PSI Grout Mix		yes	yes
Type and Percent of Additives		15% fly ash	15% fly ash
Comments		clay and gypsum from surface to 10 ft sand 10 to 32 ft clay to 60 ft water at 20 ft	clay and gypsum from surface to 10 ft sand 10 to 32 ft clay to 60 ft water at 20 ft

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 30-DEC-12	F.R. # 1001955728	SERV. SUPV. Jonathan M Schulz
LEASE & WELL NAME NUNEMAKER 2509 #32-1H - API 15155216060000	LOCATION 32-25S-9W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Surface

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
9-5/8" Top Cem Plug, Nitrile cvr, Phe	PROVIDED BY CUSTOMER						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
water			8.34				20	
C + 2% CaCl2 + .25pps Celloflake		325	14.8	1.35	6.34	02:45	96	60.27
Water			8.34				37.25	
Available Mix Water <u>400</u> Bbl.		Available Displ. Fluid <u>320</u> Bbl.		TOTAL			<u>153.25</u>	<u>60.27</u>

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		510	8.921	9.625	36	CSG	495	495	J-55			

LAST CASING						PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
18.	18	47.4	CSG	60	60					9.625	8RD			

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	WATER
37.3	BBLS	Water	8.34	260					2816	1200	Rig Tank

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** arrive on location @ 1330, Rigging Down BHA, Rig up Casing Crew, firing Casing, Rig down Casing Crew

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 2294 PSI	
13:30						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
23:01	2294				WATER	arrive on location	
23:05	176				WATER	test pumps & lines	
23:10	194		5	20	WATER	open well/start water spacer ahead	
23:19	68		1	23	SLURRY	end water ahead/start slurry @ 14.8ppg	
23:20	77		1		SLURRY	shutdown/cant get product	
23:24	76		1	36	SLURRY	resume slurry	
23:31	97		4		SLURRY	shutdown/ again delivery problems	
23:47	112		4	96	SLURRY	resume slurry	
23:49	82		3		WATER	end slurry shutdown	
00:01	223		3	37.25	WATER	drop TRP/start displacment	
00:05	0			-125		end displacment/ shutdown/ no bump	
						check floats/ holding/ bbis back	
						approximately 57 bbls of cement to surface	

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 type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	57	153.5	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 14-JAN-13	F.R. # 1001958512	SERV. SUPV. Jonathan M Schulz
LEASE & WELL NAME NUNEMAKER 2509 #32-1H - API 15155216060000	LOCATION 32-25S-9W	COUNTY-PARISH-BLOCK Reno Kansas	
DISTRICT McAlester	DRILLING CONTRACTOR RIG #	TYPE OF JOB Intermediate	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen	Provided by Customer						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES					
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY
Sealbond Spacer			8.45				40
C15:85:8 +10% Salt+ .25pps Celloflake+ 4pps KolSea		170	12.4	2.45	13.51		74 54.55
C50:50:2 + 5% Salt+.25pps Celloflake+4pps KolSeal+		130	14.2	1.32	5.66		34 19.49
Fresh Water			8.34				162

Available Mix Water <u>500</u> Bbl.	Available Displ. Fluid <u>400</u> Bbl.	<b>TOTAL</b>	<u>310</u>	<u>74.04</u>
-------------------------------------	--	--------------	------------	--------------

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		4260	6.276	7	26	CSG	4246	3911	L-80			

LAST CASING				PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.625	36	CSG	505	505			4600	4600	7	8RD	WATER BASED MU	9

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	
162	BBLS	Fresh Water	8.34	861							3000 rig tank

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on Location @ 1800**

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 4000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
18:00						Arrive on Location	
23:45					SPACER	Rig pumps sealbond Spacer	
00:37	4468				WATER	test pumps & lines	
00:44	219		4		LEAD	open well/start lead slurry @ 12.4ppg	
01:49	62			20	LEAD	cant mix slurry lost/ recirc/ shutdown turn over to rig	
03:26	4213				WATER	test pumps & lines	
03:33	402		5		LEAD	open well/start lead slurry @ 12.4ppg	
03:41	195		5	54	LEAD	end lead slurry/ start tail slurry @ 14.2ppg	
03:51	322		5	34	TAIL	end tail slurry/shutdown	
04:02	23		3		WATER	Drop TRP, start displacement	
04:26	147		4	94	WATER	bbls pumped caught cement	
04:40	618		3	150	WATER	slow rate to bump plug	
04:44	588		3	162	WATER	no bump plug/ shutdown	
04:50	0			-5		check floats/holding/ bbls back	
						Calculated top of lead 1814'	
						Calculated top of Tail 3366	
						Lead Slurry :C 15:85:8 + 10% Sodium Chloride + .25pps Celloflake + 4pps KolSeal + .5% SMS+ 0.01% Static Free	
						Tail Slurry : C50:50:2 + 5% Sodium Chloride + .25pps Celloflake + 4pps Kol Seal + .3%FL-52 + .15% SMS + 0.01 Static Free	

# CEMENT JOB REPORT



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            4000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
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 type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input type="checkbox"/>	0	310	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 25-JAN-13	F.R. # 1001959704	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME NUNEMAKER 2509 #32-1H - API 15155216060000	LOCATION 32-25S-9W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Liner

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	No Shoe, Cust Sup						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
SealBond Spacer, Pumped by Rig			8.45				40	
H50:50,0.01%staticfree,3%salt,.1%r3,.5%f162,.6%sms		240	14.3	1.24	5.54	03:30	53	31.54
H2O			8.34				80	
H2O TO CIRC OUT LONG WAY			8.34				130	
H2O TO SHEAR BALL			8.34				59	

Available Mix Water <u>200</u> Bbl.	Available Displ. Fluid <u>200</u> Bbl.	<b>TOTAL</b>	<u>362</u>	<u>31.54</u>
-------------------------------------	--	--------------	------------	--------------

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		6744	3.826	4.5	16.6	DP	3560	3560	J-55	6600	6549	
			1	4.5	11.6	CSG	6600	6600	P-110			

LAST CASING				PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
6.4	7	23		4215	4215					4.5	8RD	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	
80	BBLS	H2O	8.34	1200	500				8552	4505	RIG
		H2O TO CIRC OUT L	8.34								

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NO PROBLEMS**

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	5500 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
01:10	3800				H2O	TEST, LEAKING, BLEED OFF AND RE-TEST	
01:15	4750				H2O	RE-TEST, LEAKING, BLEED OFF AND RE-TEST	
01:20	5500				H2O	TEST, HOLDING, START PUMPING H2O TO SEAT BALL	
01:35	375		5	50	H2O	PUMP 50 BBL H2O TO SEAT BALL, SLOW RATE, CONTINUE PUMPING	
01:40	3350		2.5	59	H2O	PUMP 59 BBL H2O, SEAT BALL, SET TOOL	
02:00	4050		.5		H2O	TOOL SET, PRESSURE UP TO SHEAR TOOL, BLEED OFF AND SWAP TO RIG FOR THEM TO PUMP 40 BBL SEALBOND SPACER	
02:35	290		4	53	CEMENT	RIG PUMP SPACER, START CEMENT @ 14.3#, SHUT DOW, WASH TRUCK TO HALF PIT, DROP PLUG, START DISPLACEMENT	
03:00	155		5.3	25	H2O	25 BBL INTO DISPLACEMENT, CAUGHT CEMENT, CONTINUE DISPLACEMENT	
03:05	1450		5	33	H2O	33 BBL INTO DISPLACEMENT, SHEAR PLUG THROUGH DRILL PIPE, CONTINUE DISPLACEMENT	
03:15	400		3	80	H2O	80 BBL INTO DISPLACEMENT, BUMP PLUG @ 400 PSI, TOOK PRESSURE UP TO @ 1900 PSI (1500 PSI OVER BUMP). HOLD 3 MINUTES, BLEED OFF, PRESSURE BACKSIDE UP TO @ 4500 PSI, HOLD	
04:15	4500					HELD PRESSURE ON BACKSIDE, 15 MINUTES, BLEED OFF, STING OUT, CIRCULATE OUT THE LONG WAY	
07:05	500		5	130	H2O		

# CEMENT JOB REPORT



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 5500 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
						PUMP 130 BBL H2O TO CIRCULATE AROUND THE LONG WAY, NO CEMENT RETURNS TO SURFACE	
						CEMENT : 240 SACKS 50:50 CLASS H + 0.01% STATIC FREE + 3% SALT + 0.1% R3 + 0.5% FL62 + 0.6% SMS	
						THANK YOU FOR USING BAKER HUGHES, JIM AND CREW	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	<u>SERVICE SUPERVISOR SIGNATURE:</u>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	400	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	263	0	Y <input checked="" type="checkbox"/> N	



## Shell Nunemaker 2509 #32-1H DEF MWD 0ft to 6744ft MD

(Def Survey)

<b>Report Date:</b> January 22, 2013 - 10:19 AM	<b>Survey / DLS Computation:</b> Minimum Curvature / Lubinski	
<b>Client:</b> Shell	<b>Vertical Section Azimuth:</b> 0.138 ° (Grid North)	
<b>Field:</b> Reno County (NAD 27)	<b>Vertical Section Origin:</b> 0.000 ft, 0.000 ft	
<b>Structure / Slot:</b> Patterson #264 / Shell Nunemaker 2509 #32-1H	<b>TVD Reference Datum:</b> RKB	
<b>Well:</b> Shell Nunemaker 2509 #32-1H	<b>TVD Reference Elevation:</b> 1684.600 ft above MSL	
<b>Borehole:</b> Original Borehole	<b>Seabed / Ground Elevation:</b> 1661.000 ft above MSL	
<b>UWI / API#:</b> Unknown / Unknown	<b>Magnetic Declination:</b> 4.796 °	
<b>Survey Name:</b> Shell Nunemaker 2509 #32-1H DEF MWD 0ft to 6744ft MD	<b>Total Gravity Field Strength:</b> 999.1393mgn (9.80665 Based)	
<b>Survey Date:</b> January 17, 2013	<b>Total Magnetic Field Strength:</b> 52142.057 nT	
<b>Tort / AHD / DDI / ERD Ratio:</b> 126.092 ° / 3137.337 ft / 5.833 / 0.800	<b>Magnetic Dip Angle:</b> 65.825 °	
<b>Coordinate Reference System:</b> NAD27 Kansas State Plane, Southern Zone, US Feet	<b>Declination Date:</b> January 17, 2013	
<b>Location Lat / Long:</b> N 37° 50' 17.37504", W 98° 19' 32.88692"	<b>Magnetic Declination Model:</b> BGGM 2012	
<b>Location Grid N/E Y/X:</b> N 426603.610 ftUS, E 2050305.720 ftUS	<b>North Reference:</b> Grid North	
<b>CRS Grid Convergence Angle:</b> 0.1070 °	<b>Grid Convergence Used:</b> 0.1070 °	
<b>Grid Scale Factor:</b> 0.99993688	<b>Total Corr Mag North-&gt;Grid North:</b> 4.6890 °	
	<b>Local Coord Referenced To:</b> Well Head	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)
SHL Nunemaker#32-1H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	-1684.60	0.00	0.00	353.15M	426603.61	2050305.72
First SLB MWD	141.00	0.05	353.15	141.00	0.06	0.06	-0.01	0.04	0.04	0.00	-1543.60	0.06	353.15	181.24M	426603.67	2050305.71
	233.00	0.79	181.24	233.00	-0.53	-0.53	-0.03	0.91	0.80	-186.86	-1451.60	0.53	182.78	176.99M	426603.08	2050305.69
	326.00	1.78	176.99	325.97	-2.62	-2.62	0.04	1.07	1.06	-4.57	-1358.63	2.62	177.21	177.61M	426600.99	2050305.76
	418.00	2.84	177.61	417.90	-6.32	-6.32	0.21	1.15	1.15	0.67	-1266.70	6.32	178.13	173.96M	426597.29	2050305.93
	549.00	2.84	173.96	548.74	-12.79	-12.79	0.68	0.14	0.00	-2.79	-1135.86	12.81	176.94	171.79M	426590.82	2050306.40
	643.00	2.59	171.79	642.63	-17.21	-17.21	1.23	0.29	-0.27	-2.31	-1041.97	17.25	175.91	164.61M	426586.40	2050306.95
	736.00	1.86	164.61	735.56	-20.74	-20.74	1.93	0.84	-0.78	-7.72	-949.04	20.83	174.68	162.48M	426582.87	2050307.65
	830.00	1.13	162.48	829.53	-23.09	-23.10	2.62	0.78	-0.78	-2.27	-855.07	23.25	173.54	148.13M	426580.51	2050308.34
	924.00	0.82	148.13	923.51	-24.55	-24.55	3.25	0.42	-0.33	-15.27	-761.09	24.77	172.46	164.13M	426579.06	2050308.97
	1018.00	0.65	164.13	1017.51	-25.63	-25.64	3.75	0.28	-0.18	17.02	-667.09	25.91	171.68	164.27M	426577.97	2050309.47
	1112.00	0.83	164.27	1111.50	-26.80	-26.81	4.08	0.19	0.19	0.15	-573.10	27.11	171.34	146.21M	426576.81	2050309.80
	1206.00	0.39	146.21	1205.49	-27.72	-27.73	4.44	0.51	-0.47	-19.21	-479.11	28.08	170.89	171.07M	426575.89	2050310.16
	1299.00	0.45	171.07	1298.49	-28.34	-28.35	4.68	0.20	0.06	26.73	-386.11	28.73	170.63	155.85M	426575.26	2050310.40
	1393.00	0.51	155.85	1392.49	-29.09	-29.10	4.91	0.06	0.06	-16.19	-292.11	29.51	170.43	160.83M	426574.51	2050310.62
	1487.00	0.57	160.83	1486.48	-29.91	-29.92	5.23	0.08	0.06	5.30	-198.12	30.37	170.09	177.63M	426573.69	2050310.95
	1579.00	0.31	177.63	1578.48	-30.59	-30.60	5.39	0.31	-0.28	18.26	-106.12	31.07	170.01	199.22M	426573.01	2050311.11
	1671.00	0.20	199.22	1670.48	-30.99	-31.00	5.35	0.16	-0.12	23.45	-14.12	31.46	170.21	185.39M	426572.61	2050311.07
	1764.00	0.46	185.39	1763.48	-31.51	-31.53	5.26	0.29	0.28	-14.85	78.88	31.96	170.53	253.06M	426572.09	2050310.98
	1885.00	0.22	253.06	1884.48	-32.07	-32.08	4.99	0.35	-0.20	55.93	199.88	32.46	171.16	247.29M	426571.53	2050310.71
	1947.00	0.28	247.29	1946.47	-32.16	-32.17	4.74	0.10	0.10	-9.31	261.87	32.52	171.62	178.56M	426571.44	2050310.46
	2039.00	0.12	178.56	2038.47	-32.34	-32.35	4.53	0.28	-0.17	-74.71	353.87	32.67	172.02	318.66M	426571.26	2050310.25
	2131.00	0.11	318.66	2130.47	-32.37	-32.38	4.48	0.24	-0.01	152.28	445.87	32.69	172.13	191.6M	426571.23	2050310.20
	2224.00	0.18	191.60	2223.47	-32.45	-32.46	4.39	0.28	0.08	-136.62	538.87	32.76	172.30	80.48M	426571.15	2050310.11
	2316.00	0.05	80.48	2315.47	-32.58	-32.60	4.40	0.22	-0.14	-120.78	630.87	32.89	172.31	159.78M	426571.02	2050310.12
	2408.00	0.12	159.78	2407.47	-32.67	-32.68	4.47	0.13	0.08	86.20	722.87	32.98	172.21	145.25M	426570.93	2050310.19
	2502.00	0.27	145.25	2501.47	-32.94	-32.95	4.63	0.17	0.16	-15.46	816.87	33.28	172.00	147.35M	426570.66	2050310.35
	2596.00	0.34	147.35	2595.47	-33.36	-33.37	4.91	0.08	0.07	2.23	910.87	33.73	171.63	122.39M	426570.24	2050310.63
	2971.00	0.20	122.39	2970.47	-34.64	-34.66	6.06	0.05	-0.04	-6.66	1285.87	35.18	170.08	117.42M	426568.95	2050311.78
	3064.00	0.37	117.42	3063.47	-34.87	-34.88	6.47	0.18	0.18	-5.34	1378.87	35.48	169.50	68.42M	426568.73	2050312.19
	3158.00	0.35	68.42	3157.47	-34.90	-34.92	7.00	0.32	-0.02	-52.13	1472.87	35.61	168.66	69.72M	426568.70	2050312.72
	3335.00	0.12	69.72	3334.46	-34.64	-34.65	7.68	0.13	-0.13	0.73	1649.86	35.49	167.51	351.5M	426568.96	2050313.40
	3402.00	2.23	351.50	3401.45	-33.34	-33.34	7.55	3.30	-116.75	1716.85	176.85	34.18	167.24	358.5M	426570.27	2050313.27
	3439.00	8.07	358.50	3438.28	-30.01	-30.03	7.38	15.85	15.78	18.92	1753.68	30.92	166.20	9.58R	426573.58	2050313.10
	3471.00	13.18	2.26	3469.72	-24.12	-24.13	7.46	16.11	15.97	11.75	1785.12	25.26	162.82	3.78R	426579.48	2050313.18
	3496.00	17.39	3.19	3493.83	-17.53	-17.55	7.78	16.87	16.84	3.72	1809.23	19.20	156.09	4.87R	426586.06	2050313.50
	3533.00	23.68	4.52	3528.46	-4.59	-4.61	8.68	17.05	17.00	3.59	1843.86	9.83	118.00	1.75L	426599.00	2050314.40
	3564.00	26.94	4.30	3556.49	8.62	8.60	9.69	10.52	10.52	-0.71	1871.89	12.96	48.42	12.67L	426612.21	2050315.41

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)
	3589.00	30.32	2.80	3578.43	20.58	20.55	10.43	13.82	13.52	-6.00	1893.83	23.05	26.90	14.1L	426624.16	2050316.15
	3627.00	36.02	0.38	3610.22	41.35	41.32	10.97	15.40	15.00	-6.37	1925.62	42.76	14.87	14.28L	426644.93	2050316.69
	3658.00	39.18	359.11	3634.78	60.26	60.24	10.88	10.50	10.19	-4.10	1950.18	61.21	10.24	27.56L	426663.84	2050316.60
	3683.00	40.35	358.17	3654.00	76.25	76.22	10.50	5.26	4.68	-3.76	1969.40	76.94	7.84	24.92L	426679.83	2050316.22
	3720.00	42.62	356.62	3681.71	100.72	100.70	9.38	6.73	6.14	-4.19	1997.11	101.14	5.32	0.85L	426704.31	2050315.10
	3751.00	44.50	356.58	3704.18	122.05	122.03	8.11	6.07	6.06	-0.13	2019.58	122.30	3.80	1.31R	426725.63	2050313.83
	3778.00	47.06	356.66	3723.01	141.36	141.34	6.97	9.48	9.48	0.30	2038.41	141.51	2.82	8.5R	426744.94	2050312.69
	3814.00	51.41	357.49	3746.51	168.58	168.56	5.58	12.21	12.08	2.31	2061.91	168.66	1.90	4.96L	426772.16	2050311.30
	3845.00	54.12	357.20	3765.26	193.23	193.22	4.44	8.77	8.74	-0.94	2080.66	193.27	1.32	29.18R	426796.81	2050310.16
	3871.00	54.72	357.61	3780.39	214.35	214.34	3.48	2.64	2.31	1.58	2095.79	214.37	0.93	3.6R	426817.94	2050309.20
	3908.00	59.38	357.95	3800.51	245.36	245.36	2.28	12.62	12.59	0.92	2115.91	245.37	0.53	5.27R	426848.95	2050308.00
	3939.00	61.77	358.20	3815.74	272.34	272.34	1.38	7.74	7.71	0.81	2131.14	272.34	0.29	9.48R	426875.93	2050307.10
	3965.00	63.16	358.46	3827.76	295.39	295.39	0.71	5.42	5.35	1.00	2143.16	295.39	0.14	6.92R	426898.98	2050306.43
	4001.00	68.14	359.11	3842.60	328.16	328.17	0.01	13.93	13.83	1.81	2158.00	328.17	0.00	5.26R	426931.75	2050305.73
	4033.00	70.81	359.37	3853.81	358.13	358.13	-0.38	8.38	8.34	0.81	2169.21	358.13	359.94	3.96L	426961.72	2050305.34
	4059.00	71.91	359.29	3862.12	382.76	382.76	-0.67	4.24	4.23	-0.31	2177.52	382.76	359.90	7.21R	426986.35	2050305.05
	4095.00	76.37	359.87	3871.96	417.38	417.38	-0.92	12.49	12.39	1.61	2187.36	417.38	359.87	16.93L	427020.97	2050304.80
	4126.00	77.88	359.40	3878.87	447.60	447.60	-1.12	5.09	4.87	-1.52	2194.27	447.60	359.86	20.92R	427051.18	2050304.60
	4153.00	80.02	0.23	3884.04	474.10	474.10	-1.20	8.48	7.93	3.07	2199.44	474.10	359.85	18.35R	427077.68	2050304.52
	4201.00	85.29	1.98	3890.18	521.68	521.68	-0.28	11.56	10.98	3.65	2205.58	521.68	359.97	2.29R	427125.25	2050303.44
	4263.00	89.79	2.16	3892.84	583.57	583.56	1.96	7.26	7.26	0.29	2208.24	583.57	0.19	141.89L	427187.14	2050303.68
	4358.00	89.28	1.76	3893.61	678.52	678.51	5.21	0.68	-0.54	-0.42	2209.01	678.53	0.44	43.15L	427282.07	2050310.93
	4451.00	90.24	0.86	3894.00	771.49	771.48	7.33	1.41	1.03	-0.97	2209.40	771.51	0.54	174.56L	427375.04	2050313.05
	4544.00	90.03	0.84	3893.78	864.49	864.47	8.71	0.23	-0.23	-0.02	2209.18	864.51	0.58	116.57L	427468.02	2050314.43
	4638.00	89.97	0.72	3893.78	958.48	958.46	9.99	0.14	-0.06	-0.13	2209.18	958.51	0.60	161.01L	427562.01	2050315.71
	4731.00	89.04	0.40	3894.58	1051.47	1051.45	10.90	1.06	-1.00	-0.34	2209.98	1051.51	0.59	61.61R	427654.99	2050316.62
	4825.00	89.24	0.77	3895.99	1145.46	1145.43	11.86	0.45	0.21	0.39	2211.39	1145.50	0.59	177.75L	427748.97	2050317.58
	4919.00	88.73	0.75	3897.66	1239.44	1239.41	13.11	0.54	-0.54	-0.02	2213.06	1239.48	0.61	116.59L	427842.94	2050318.83
	5014.00	88.14	359.57	3900.25	1334.40	1334.37	13.37	1.39	-0.62	-1.24	2215.65	1334.44	0.57	54.03R	427937.90	2050319.09
	5108.00	88.59	0.19	3902.94	1428.36	1428.33	13.18	0.81	0.48	0.66	2218.34	1428.39	0.53	166.34L	428031.85	2050318.90
	5198.00	87.11	359.83	3906.31	1518.29	1518.27	13.19	1.69	-1.64	-0.40	2221.71	1518.32	0.50	69.39L	428121.78	2050318.91
	5291.00	87.52	358.74	3910.67	1611.18	1611.16	12.03	1.25	0.44	-1.17	2226.07	1611.20	0.43	63.08L	428214.66	2050317.75
	5385.00	88.45	356.91	3913.97	1705.04	1705.03	8.47	2.18	0.99	-1.95	2229.37	1705.05	0.28	82.98R	428308.52	2050314.19
Tie-In	5475.00	88.66	358.61	3916.24	1794.93	1794.93	4.95	1.80	0.23	1.89	2231.64	1794.93	0.16	115.47L	428398.42	2050310.67
	5569.00	88.56	358.40	3918.52	1888.87	1888.87	2.50	0.25	-0.11	-0.22	2233.92	1888.87	0.08	4.02R	428492.35	2050308.22
	5662.00	90.41	358.53	3919.36	1981.82	1981.82	0.01	1.99	1.99	0.14	2234.76	1981.82	0.00	49.26L	428585.31	2050305.73
Survey 18Jan13	5752.00	90.72	358.17	3918.47	2071.77	2071.78	-2.58	0.53	0.34	-0.40	2233.87	2071.78	359.93	68.96L	428675.26	2050303.14
	5844.00	90.82	357.91	3917.24	2163.70	2163.72	-5.73	0.30	0.11	-0.28	2232.64	2163.73	359.85	172.12L	428767.19	2050299.99
	5937.00	90.17	357.82	3916.43	2256.62	2256.65	-9.19	0.71	-0.70	-0.10	2231.83	2256.67	359.77	108.43L	428860.11	2050296.53
	6030.00	90.07	357.52	3916.24	2349.54	2349.57	-12.97	0.34	-0.11	-0.32	2231.64	2349.61	359.68	43.53L	428953.03	2050292.75
	6124.00	90.27	357.33	3915.96	2443.43	2443.48	-17.20	0.29	0.21	-0.20	2230.42	2443.54	359.60	47.64R	429046.93	2050288.52
Survey 19Jan13	6217.00	90.89	358.01	3915.02	2536.34	2536.40	-20.98	0.99	0.67	0.73	2230.42	2536.48	359.53	46.19R	429139.84	2050284.74
	6312.00	91.82	358.98	3912.77	2631.27	2631.33	-23.47	1.41	0.98	1.02	2228.17	2631.44	359.49	28.94L	429234.77	2050282.25
	6405.00	93.03	358.31	3908.84	2724.15	2724.22	-25.67	1.49	1.30	-0.72	2224.24	2724.34	359.46	106.49R	429327.66	2050280.05
	6497.00	92.41	0.40	3904.47	2816.11	2816.11	-26.70	2.37	-0.67	2.27	2219.87	2816.23	359.46	169.22L	429419.53	2050279.02
	6591.00	92.20	0.36	3900.69	2909.96	2910.03	-26.08	0.23	-0.22	-0.04	2216.09	2910.15	359.49	109.94R	429513.45	2050279.64
Final Survey	6684.00	91.55	2.15	3897.65	3002.89	3002.95	-24.05	2.05	-0.70	1.92	2213.05	3003.05	359.54	HS	429606.37	2050281.68
Proj to TD	6744.00	91.55	2.15	3896.02	3062.83	3062.89	-21.79	0.00	0.00	0.00	2211.42	3062.97	359.59		429666.30	2050283.93

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
 Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	23.600		30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Shell Nunemaker 2509 #32-1H DEF
	23.600	2596.000		30.000	30.000	SLB_MWD-STD	Original Borehole / Shell Nunemaker 2509 #32-1H DEF

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)	
	2596.000		2971.000		1/98.425	30.000	30.000	SLB_MWD-STD									
	2971.000		6684.000		Act Stns	30.000	30.000	SLB_MWD-STD									
	6684.000		6744.000		Act Stns	30.000	30.000	SLB_BLIND+TREND									



## Summary of Changes

Lease Name and Number: Nunemaker 2509 32-1H

API/Permit #: 15-155-21606-01-00

Doc ID: 1120097

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	01/09/2013	03/27/2013
CasingAdd_Type_PctPDF_1	15% Fly Ash	Attached
CasingNumbSacksUsedPDF_1	42	Attached
CasingPurposeOfStringPDF_1	Conductor	Attached
CasingSettingDepthPDF_1	60	Attached
CasingSizeCasingSetPDF_1	18	Attached
CasingSizeHoleDrilledPDF_1	30	Attached
CasingTypeOfCementPDF_1	1/2 Portland Cmt	Attached
CasingWeightPDF_1	47.76	Attached
Completion Or Recompletion Date	12/03/2012	03/25/2013

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Cores Taken?	No	Yes
Date Reached TD	12/03/2012	01/20/2013
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Formation Top Source - Log	No	Yes
Kelly Bushing Elevation	1685	1686
Liner Run?		Yes
Method Of Completion - Perf	No	Yes
Perf_Depth_1		Attached
Perf_Material_1		Attached
Perf_Record_1		Attached
Perf_Shots_1		Attached



Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Plug Back Total Depth		6549
Producing Formation	CONDUCTOR ONLY	Mississippi
Production Interval #1		4468'
Production Interval #2		6375'
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1107248	../../../../kcc/detail/operatorEditDetail.cfm?docID=1120097
Spud Or Recompletion Date	12/02/2012	12/30/2012
TopsDepth1		3845
TopsDepth2		3910
TopsDepth3		4063
TopsDepth4		4159
TopsName1	CONDUCTOR ONLY	Marmaton
TopsName2		Cherokee

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsName3		Basal Penn. Congl.
TopsName4		Mississippi
Total Depth	60	6744
Tubing Packer At		N/A
Tubing Record - Set At		3331
Tubing Size		2.875
Wellsite Geologist	Bess Colberg	Jessica Colberg

## Summary of Attachments

Lease Name and Number: Nunemaker 2509 32-1H

API: 15-155-21606-01-00

Doc ID: 1120097

Correction Number: 1

Attachment Name

NUNEMAKER 2509 #32-1H Conductor record

Nunemaker 2509 #32-1H Surface Cement rpt

Nunemaker 2509 #32-1H Intermediate cement rpt

Nunemaker 2509 #32-1H Liner cement rpt

Nunemaker 2509 #32-1H Directional survey

NUNEMAKER 2509 #32-1H As-Drilled plat



**CONFIDENTIAL**

**WELL COMPLETION FORM**

**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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 #: \_\_\_\_\_

**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.

Submitted Electronically

**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: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input 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

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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--



SHELL GULF OF MEXICO, INC. (34574)	NUNEMAKER 2509-32	
<b>PETE MARTIN DRILLING (34645)</b> <b>(SET THE CONDUCTOR)</b>		
	1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD	12/3/2012	
spud in date	12/2/2012	12/5/2012
T.D date	12/3/2012	12/6/2012
Size Hole Drilled	30"	24"
Size Caseing Set (in O.D )	18"	14"
conductor wall thickness	250	188
Weight Lbs./Ft.	47.76	27.76
Setting Depth	60'	75'
Type of Cement	Type 1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement	7cyd	7cyd
2500 PSI Grout Mix	yes	yes
Type and Percent of Additives	15% fly ash	15% fly ash





Size Caseing Set (in O.D )		
Weight Lbs./Ft.		
Setting Depth		
Type of Cement		
# of Sacks Used		
Type and Percent of Additives		
Purpose of String		



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 09, 2013

Damonica Pierson  
Shell Gulf of Mexico Inc.  
150 N DAIRY-ASHFORD (77079)  
PO BOX 576 (77001-0576)  
HOUSTON, TX 77001-0576

Re: ACO1  
API 15-155-21606-01-00  
Nunemaker 2509 32-1H  
NE/4 Sec.32-25S-09W  
Reno County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Damonica Pierson